

# VEHICLE SERVICE TOOLS

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Use our online Timing Tool Kit Finder to search for kits that are relevant to your vehicle.  
[www.sealey.co.uk/timing-tools](http://www.sealey.co.uk/timing-tools)

## Technical Hotline

If you can't find the details, or the answer you require from the Timing Tool Kit Finder, it's not a problem. Sealey have a fully trained technical sales team to provide additional assistance when required.

Tel: 01284 757505 Email: [technical@sealey.co.uk](mailto:technical@sealey.co.uk)

## Timing Tool Kit Finder

The Timing Tool Kit Finder lists all vehicle applications, date ranges and engine codes. Simply select the make and model of your vehicle from the drop down menus and click on the picture of the Timing Tool Kit for more information.

Vehicle REG:

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Make	Type	Fuel	Drive	Kit	Page
<b>Alfa Romeo</b>					
Alfa Romeo	1.3D JTD(M)	D	Chain	VSE5881A	377
Alfa Romeo	1.3D JTD(M)	D	Chain	VSE6191	377
Alfa Romeo	1.6D, 1.9D, 2.0D, 2.4D JTD/Multijet	D	Belt	VSE5961	376
Alfa Romeo	1.2, 1.4, 1.4T-Jet 16v	P	Belt	VSE2511A	379
Alfa Romeo	1.2, 1.4 16v	P	Belt	VSE5061	379
Alfa Romeo	1.4 MultiAir	P	Belt	VSE6161	379
Alfa Romeo	1.6, 1.8 Twinport	P	Belt	VSE5006	409
Alfa Romeo	1.6, 1.8 16v	P	Belt	VSE131	379
Alfa Romeo	TDC Position Tool	P	Belt	VSE2515	377
Alfa Romeo	Mini Dial Gauge	P	Belt	AK9634M	377
Alfa Romeo	Variator Wrench - Variable Valve Timing Unit	P	Belt	VSE5885	378
<b>BMW</b>					
BMW	2.0D, 3.0D M47/M57	D	Chain	VSE5666	380
BMW	2.0D, 3.0D N47/N57	D	Chain	VSE6121A	380
BMW	2.0D, 3.0D N47/N57 Crankshaft Holding Tool	D	Chain	VSE6121.05	380
BMW	Injection & HP Pump Sprocket Remover/Retainer	D	Chain	VSE5664	380
BMW	Fuel Pump Remover/Sprocket Retainer	D	Chain	VSE5665	380
BMW	1.8 - 3.0 M42/M50/M52/M52TU/M54/M56	P	Chain	VSE4425	382
BMW	1.5, 2.0, 3.0 B38	P	Chain	VSE6122	381
BMW	1.6 N13, N18	P	Chain	VSE5982	383
BMW	1.4, 1.6 16v EP3/EP6	P	Chain	VSE6131	381
BMW	2.0 N20	P	Chain	VSE6188	383
BMW	1.6, 2.0 N43	P	Chain	VSE6001	382
BMW	1.8, 2.0 N42/N46/N46T	P	Chain	VSE5911A	383
BMW	1.4, 1.6 16v EP3/EP6 Balance Shaft Alignment Kit	P	Chain	VSE6156	384
BMW	4.4 V8 Including Vanos	P	Chain	VSE5555	384
BMW	Flywheel Holding Tool	D	P	VSE5660	382
BMW	Timing Chain Wear Indicator Tool	P	Chain	VSE2381	381
BMW	Vanos Unit Socket 22mm 16-Point 1/2" Sq Drive	P	Chain	VSE6134	381
BMW	Crankshaft Turning Tool Kit	D	P	VSE2398	382
BMW	Oil Pump and Balance Shaft Alignment Kit	P	Chain	VSE6198	382
<b>Chevrolet</b>					
Chevrolet	1.6, 1.8 Twinport	P	Belt	VSE5006	378
Chevrolet	1.6, 1.6, 1.8 16V	P	Belt	VSE131	378
Chevrolet	1.8 16v	P	Belt	VSE5005	410
Chevrolet	1.8 16v	P	Belt	VS1700	409
<b>Chrysler/Jeep</b>					
Chrysler/Jeep	2.5D, 2.8D CRD	D	Belt	VSE5056	385

Make	Type	Fuel	Drive	Kit	Page
<b>Citroen/Peugeot</b>					
Citroen/Peugeot	High Pressure Fuel Pump Sprocket Locking Pin PSA/Ford	D	Belt	VS5258	391
Citroen/Peugeot	1.4D, 1.6D HDi	D	Belt	VSE5846	386
Citroen/Peugeot	1.4D, 1.6D, 2.0D, 2.2D HDi DV4/DV6/DW10/DW12	D	Belt	VSE5930	386
Citroen/Peugeot	2.2D HDi	D	Chain	VSE5036	376
Citroen/Peugeot	2.2D HDi 4HU/4HV	D	Chain	VSE5842	391
Citroen/Peugeot	2.3D, 3.0D	D	Belt/Chain	VSE5037	387
Citroen/Peugeot	3.0D SDV6/TDV6/TDVi/HDi	D	Belt	VSE5000A	387
Citroen/Peugeot	2.8D TDi/HDi	D	Belt	VSE5976	387
Citroen/Peugeot	1.0 - 1.0 VTi, 1.2 VTi		P Belt	VSE5092	390
Citroen/Peugeot	Crankshaft Pulley Holder 1.0 - 1.0 VTi, 1.2 VTi		P Belt	VSE5093	389
Citroen/Peugeot	Timing Belt Wear Gauge 1.0 - 1.0 VTi, 1.2 VTi		P Belt	VSE5094	390
Citroen/Peugeot	Engine Timing Check Kit 1.2 GDI PureTech for PSA	D	Belt	VS5255	388
Citroen/Peugeot	1.4, 1.6 16v ET4 (KFU, KFV, KFW)		P Belt	VSE5046	387
Citroen/Peugeot	1.4, 1.6 16v EP3/EP6		P Chain	VSE6131	381
Citroen/Peugeot	1.4, 1.6 16v EP3/EP6 Balance Shaft Alignment Kit		P Chain	VSE6156	391
Citroen/Peugeot	1.8, 2.0, 2.2 16v EW7/EW10/EW12		P Belt	VSE5946	388
Citroen/Peugeot	Flywheel Holding Tool	D	P Belt	VSE2394	427
Citroen/Peugeot	Camshaft Sprocket Puller	D	Belt	VSE50422	387
Citroen/Peugeot	Master Timing Tool Kit	D	P Belt/Chain	VS5300MK	389
<b>Dacia</b>					
Dacia	1.5D dCi K9K	D	Belt	VSE5871A	408
<b>Dodge</b>					
Dodge	2.0D CRD	D	Belt	VSE5951	413
<b>Fiat/Lancia/Iveco</b>					
Fiat/Lancia	1.3D JTD(M)	D	Chain	VSE6191	377
Fiat/Lancia	1.6D, 1.9D, 2.0D, 2.4D JTD/Multijet	D	Belt	VSE5961	376
Fiat	2.0D, 2.2D JTD	D	Belt	VSE5930	386
Fiat/Iveco	2.5D/DT, 2.8D Tdi	D	Belt	VSE5976	378
Fiat/Iveco	2.2D, 2.3D/3.0D JTD	D	Belt/Chain	VSE5036	376
Fiat	2.2D JTD	D	Chain	VSE5842	391
Fiat/Iveco	2.3D, 3.0D	D	Belt/Chain	VSE5037	387
Fiat/Lancia	1.2, 1.4 16v		P Belt	VSE5061	379
Fiat/Lancia	1.2, 1.4, 1.4T-Jet 16v		P Belt	VSE2511A	379
Fiat	1.4 MultiAir		P Belt	VSE6161	379
Fiat/Lancia	1.6 16v		P Belt	VSE2513	379
Fiat	1.6, 1.8 16v		P Belt	VSE131	378
Fiat/Lancia	TDC Position Tool		P Belt	VSE2515	377
Fiat	Variator Wrench - Variable Valve Timing Unit		P Belt	VSE5885	378
Fiat	Flywheel Holding Tool	D	P Belt	VSE2394	427
<b>Ford</b>					
Ford	High Pressure Fuel Pump Sprocket Locking Pin PSA/Ford	D	Belt	VS5258	381
Ford	1.3D JTD(M)	D	Chain	VSE5881A	377
Ford	1.4D, 1.6D TDCi, 1.8D TDi/TDCi/TDdi, 2.0D/2.2D TDCi, 1.25, 1.4, 1.6, 1.8, 2.0, 2.3 16v	D	P Belt/Chain	VSE5042A	314
Ford	Camshaft Sprocket Puller	D	Belt	VSE50422	387
Ford	Timing Cover/Puller Alignment Bracket		P Belt	VSE5860	394
Ford	1.4D, 1.6D TDCi	D	Belt	VSE5846	397
Ford	1.4D, 1.6D TDCi, 1.8DT/TDCi/TDdi, 2.0D TDCi	D	Belt	VSE5941	388
Ford	1.8D Turbo/TDdi/TDCi/ECONetic	D	Belt	VSE5843	392
Ford	1.9D TDi PD	D	Belt	VSE5951	416
Ford	Camshaft Pulley Alignment Pins	D	Belt	VSE6712	393
Ford	2.0D, 2.2D, 2.4D, 3.2D Di/TDCi/TDdi-Duratorq	D	Chain	VSE5842	391
Ford	Timing Tool & Fuel Injection Pump Kit 2.0D, 2.2D, 2.4D, TDCi/Duratorq	D	Chain	VSE6940	392
Ford	2.0D EcoBlue	D	Chain	VSE5640	393
Ford	2.0D EcoBlue Fuel Pump Removal Set	D	Chain	VSE6541	393
Ford	2.0D EcoBlue Front Pulley/Vibration Damper Puller	D	Chain	VSE6542	393
Ford	2.0D, 2.2D TDCi	D	Belt	VSE6126	402
Ford	2.2D	D	Chain	VSE5590	389
Ford	Oil Seal Fitting Kit 2.2D	D	Chain	VSE5862	396
Ford	2.2D, 3.2D TDCi	D	Chain	VSE5863	392
Ford	Flywheel Timing Pin 2.2D TDCi	D	Chain	VSE5864	394
Ford	2.0D, 2.4D	D	Chain	VSE5841A	396
Ford	Flywheel Locking Set	D	P Belt	VSE5945	427
Ford	1.0 EcoBoost		P Belt	VS5150	397
Ford	1.0 EcoBoost		P Chain	VSE5152	398
Ford	Torque Multiplier 1.0 EcoBoost		P Belt	VSE5180	397
Ford	1.25, 1.4, 1.6, 1.8, 2.0, 2.3 16v Duratec		P Belt/Chain	VSE5515	395

Make	Type	Fuel	Drive	Kit	Page
Ford	1.2 8v	P	Belt	VSE5061	379
Ford	1.25, 1.4, 1.6 16v	P	Belt	VSE4143.32	398
Ford	1.6 EcoBoost & 2.0D/2.2D Belt Drive	D P	Belt	VSE6560A	398
Ford	1.6 EcoBoost Camshaft Alignment Plate	P	Belt	VSE6562	440
Ford	1.6Ti-VCT, 1.6Ti-VCT FFV	P	Belt	VSE5041A	395
Ford	1.6, 2.0	P	Belt/Chain	VSE6160	397
Ford	Auxiliary Belt Tension Tool	D	Chain	VSE5944	396
Ford	Auxiliary Belt Tension Tool	D P	Belt/Chain	VSE6299	392
Ford	1.6, 1.8, 2.0, 2.3, 2.4, 2.5, 2.9, 2.5	P	Belt	VS4387	396
Ford	Crankshaft Front Pulley Oil Seal Fitting Tool, 2.0D, 2.2TDCi, 2.4, 3.2TDCi	D	Chain	VSE5862	396
Ford	Stretch Belt Installation Tool	P	Belt	VS790	393
Ford	Vanos Unit Socket 22mm 16-Point 1/2" Sq Drive	P	Chain	VSE6134	381
Ford	Master Timing Tool Kit	D P	Belt/Chain	VS5200MK	390
<b>Honda</b>					
Honda	Crankshaft Pulley Holder	D P	Belt	VSE5048	399
Honda	Crankshaft Pulley Holder	D P	Belt	VSE5048S	399
<b>Hyundai</b>					
Hyundai/Kia	1.1, 1.4, 1.6, 1.7 Fuel Pump Sprocket Remover	D	Chain	VSE5931	399
Hyundai/Kia	2.5D Fuel Pump Sprocket Remover	D	Chain	VSE5932	399
Hyundai/Kia	2.0D, 2.2D Fuel Pump Remover	D	Chain	VSE5933	399
Hyundai/Kia	Flywheel Holding Tool	D	Chain	VSE5935	399
Hyundai/Kia	1.6 CRDi	D	Belt	VSE5939	411
Hyundai/Kia	1.6, 1.8, 2.0, 2.4	P	Belt	VSE5768	404
Hyundai/Kia	Hybrid Drive Belt Tensioner Compression Tool	P	Belt	VSE4309	400
<b>Jaguar</b>					
Jaguar	Fuel Pump Locking/Removal Tool for JLR 2.0D Ingenium Engine	D	Chain	VSE3036	393
Jaguar	Timing Tool Kit for JLR 2.0/2.0D Ingenium Engine	D P	Chain	VSE3037	400
Jaguar	2.7D, 3.0D	D	Belt	VSE5000A	398
Jaguar	3.2, 3.5, 4.0, 4.2 V8	P	Chain	VSE5091	403
Jaguar	3.2, 3.5, 4.0, 4.2 V8	P	Chain	VSE5096	401
<b>Land Rover</b>					
Land Rover	Fuel Pump Locking/Removal Tool for JLR 2.0D Ingenium Engine	D	Chain	VSE3036	493
Land Rover	Timing Tool Kit for JLR 2.0/2.0D Ingenium Engine	D P	Chain	VSE3037	401
Land Rover	2.0D TD4/3.0D TD6	D	Chain	VSE5666	400
Land Rover	2.2D TD4	D	Chain	VSE6126	402
Land Rover	2.4D TD4	D	Chain	VSE5842	402
Land Rover	2.5D TD5	D	Chain	VSE5986	402
Land Rover	2.5D TD6	D	Chain	VS2541	438
Land Rover	300TDi EDC	D	Belt	VSE2302	401
Land Rover	3.0D SDV6/TDV6/TDVi/HDi	D	Belt	VSE5000A	398
Land Rover	3.0D SDV6/TDV6/TDVi/HDi Fuel Pump Holding Tool	D	Belt	VSE5312	401
Land Rover	Fuel Pump Remover/Sprocket Retainer	D	Chain	VSE5665	380
Land Rover	3.2, 3.5, 4.0, 4.2 V8	P	Chain	VSE5096	401
Land Rover	Viscous Fan Spanners	D P	Chain	VSE3042	500
Land Rover	Crankshaft Sensor Trigger Wheel Installer	D	Belt	VS231	402
<b>LDV</b>					
LDV	2.0D, 2.4D	D	Chain	VSE5841A	396
LDV	2.4D	D	Chain	VSE5842	391
LDV	Flywheel Holding Tool	D	Belt	VSE2394	427
<b>Mazda</b>					
Mazda	1.4D, 1.6D TDCI	D	Belt	VSE5846	386
Mazda	1.25, 1.4, 1.6, 1.8, 2.0, 2.3 16v Duratec	P	Belt/Chain	VSE5515	395
Mazda	1.25, 1.4, 1.6 16v	P	Belt	VSE4143.32	398
<b>Mercedes Benz</b>					
Mercedes Benz	Diesel Timing Chain Tool Kit	D	Chain	VSE4801	385
Mercedes Benz	Diesel/Petrol Timing Chain Tool Kit	D P	Chain	VSE4802	385
Mercedes Benz	1.5dCi	D	Belt	VSE4810	406
Mercedes Benz	M271 1.6, 1.8	P	Chain	VSE4816	404
Mercedes Benz	Crankshaft Pulley Holder M271 1.6, 1.8	P	Chain	VSE4819	404
Mercedes Benz	Belt Tensioner Tool	P	Chain	VSE4310	385
Mercedes Benz	Mercedes, Renault, Nissan, Dacia 1.3	P	Chain	VS5260	404
<b>MG Rover</b>					
MG Rover	2.0D M47R	D	Chain	VSE5666	380
<b>Mini</b>					
Mini	1.4, 1.6 16v N12/N14	P	Chain	VSE6131	405
Mini	1.4, 1.6 16v EP3/EP6 Balance Shaft Alignment Kit	P	Chain	VSE6156	384
Mini	Serpentine Belt Spanner Set	P	Chain	VSE6211	403

Make	Type	Fuel	Drive	Kit	Page
<b>Mini</b>					
Mini	Engine Support Bracket	P	Chain	VS5214	417
Mini	Timing Chain Wear Indicator Tool	P	Chain	VSE2381	403
Mini	2.0D, 3.0D N47/N57	D	Chain	VSE6121A	403
Mini	1.5, 2.0, 3.0 B38	P	Chain	VSE6122	405
<b>Mitsubishi</b>					
Mitsubishi	1.9D Di-D F9Q	D	Belt	VSE5871A	408
Mitsubishi	2.0D Di-D	D	Belt	VSE5951	418
Mitsubishi	1.6, 1.8, 2.0, 2.4, 3.0, 3.5	P	Belt	VSE5768	404
<b>Nissan</b>					
Nissan	1.5D, 1.9D, 2.2D, 2.5D dCi K9K/F9Q/G9T/G9U	D	Belt	VSE5871A	408
Nissan	1.5D dCi K9K	D	Belt	VSE1901A	418
Nissan	2.0D, 2.3D dCi M9R/M9T	D	Chain	VSE5086A	406
Nissan	1.6, 2.0 16v	P	Belt	VSE5071	407
Nissan	1.6, 2.0 16v	P	Belt	VSE5071A	407
Nissan	2.2D/2.5D Injection Pump Locking Pin	D	Chain	VSE1630	407
<b>Porsche</b>					
Porsche	3.0D, 4.2D	P	Belt/Chain	VSE7171	414
<b>Renault</b>					
Renault	1.5D, 1.9D, 2.2D, 2.5D dCi K9K/F9Q/G9T/G9U	D	Belt	VSE5871A	408
Renault	1.5D dCi K9K	D	Belt	VSE1901A	418
Renault	1.9D, 2.5D, 2.8D	D P	Belt	VSE1903	406
Renault	2.0D, 2.3D dCi - M9R/M9T	D	Chain	VSE5086A	406
Renault	2.5D/DT, 2.8D dTi/dCi	D	Belt	VSE5976	387
Renault	Flywheel Holding Tool	D P	Belt	VSE2395	427
Renault	Flywheel/ Pulley Holding Tool	D P	Belt	VSE5032	424
Renault	1.4, 1.6, 1.8, 2.0 16v	P	Belt	VSE5071	407
Renault	1.4, 1.6, 1.8, 2.0 16v	P	Belt	VSE5071A	407
Renault	1.5D dCi	D	Belt	VSE4810	418
Renault	Injection Pump Locking Pin 2.2D/2.5D	D	Chain	VSE1630	407
<b>Saab</b>					
Saab	1.9D TiD/TTiD	D	Belt	VSE5886A	408
Saab	1.8i	P	Belt	VSE5005	410
Saab	1.8i	P	Belt	VS1700	409
<b>Subaru</b>					
Subaru	Camshaft Locking Tool 2.0, 2.5	P	Belt	VSE5055	419
<b>Suzuki</b>					
Suzuki	1.3D DDiS	D	Chain	VSE5881A	411
Suzuki	1.5D DDiS K9K	D	Belt	VSE1901A	418
Suzuki	1.5D DDiS K9K, 1.9D DDiS F9Q	D	Belt	VSE5871A	408
Suzuki	1.0, 1.2	P	Chain	VSE243	410
<b>Vauxhall/Opel</b>					
Vauxhall	1.3D CDTi	D	Chain	VSE5881A	411
Vauxhall	1.3D CDTi	D	Chain	VSE6191	377
Vauxhall	1.6 CDTi	D	Chain	VSE5020	412
Vauxhall	1.9D, 2.0D CDTi/ecoFLEX	D	Belt	VSE5886A	408
Vauxhall	1.9D, 2.0D, 2.5D Dti/CDTi	D	Belt	VSE5871A	408
Vauxhall	1.9D, 2.5D, 2.8D	D	Belt	VSE1903	406
Vauxhall	2.0CDTi	D	Belt	VSE5740	412
Vauxhall	2.0CDTi Chain in Cylinder Head Kit	D	Chain	VSE5741	412
Vauxhall	Diesel Engine Timing Tool Kit GM 1.3 CDTi	D	Chain	VSE5001	412
Vauxhall	2.0D	D	Belt	VSE5009	411
Vauxhall	Engine Timing Check Kit 1.2 GDI PureTech for PSA	D	Belt	VS5255	388
Vauxhall	2.0D, 2.3D dCi M9R/M9T	D	Chain	VSE5086A	406
Vauxhall	2.5D/DT, 2.8D dCi	D	Belt	VSE5976	378
Vauxhall	Fuel Pump Remover/Sprocket Retainer	D	Chain	VSE5664	380
Vauxhall	1.0, 1.2, 1.4/ecoFLEX	P	Chain	VSE243	410
Vauxhall	1.0, 1.2, 1.4/ecoFLEX	P	Chain	VSE5067	410
Vauxhall	1.0, 1.2, 1.4/ecoFLEX/Turbo	P	Chain	VSE5007	410
Vauxhall	1.0, 1.2, 1.4, 1.6	P	Chain	VS5235	409
Vauxhall	1.4, 1.6, 1.8 16v ecoTEC	P	Belt	VSE5005	410
Vauxhall	1.4-2.2 16v	P	Belt	VS4620	411
Vauxhall	1.4, 1.6, 1.8, 2.0, 2.2 16v ecoTEC	P	Belt	VS1700	409
Vauxhall	1.6, 1.6, 1.8 16V	P	Belt	VSE131	378
Vauxhall	1.6, 1.8 16v Twinport	P	Belt	VSE5006	409
Vauxhall	2.0 16v	P	Belt	VSE5071	407

Make	Type	Fuel	Drive	Kit	Page
Vauxhall	2.0 16v	P	Belt	VSE5071A	407
Vauxhall	Crankshaft Holding Wrench 1.6D	D	Chain	VS5254	408
<b>VAG</b>					
VAG	1.2D, 1.4D, 1.9D TDi PD	D	Belt	VSE5951	413
VAG	1.2D, 1.4D, 1.6D, 1.9D, 2.0D	D	Belt	VSE2092	415
VAG	1.4D, 1.6D, 2.0D	D	Belt	VSE2090	415
VAG	1.4D, 1.6D, 2.0D	D	Belt	VS5170	413
VAG	1.4D, 1.6D, 2.0D	D	Belt	VSE6281	415
VAG	1.2D, 1.6D, 2.0D, 2.7D, 3.0D, 4.0D, 4.2D	D	Belt/Chain	VSE7171	414
VAG	1.2D, 1.6D, 2.0D TDi CR/1.4D, 1.9D, 2.0D TDi PD	D	Belt	VSE2356	415
VAG	1.2D, 1.6D, 2.0D TDi CR/1.4D, 1.9D, 2.0D TDi CR	D	Belt	VSE2358	416
VAG	1.7D, 1.9D/DT/SDi/TDi	D	Belt	VSE5851	416
VAG	2.0D Oil Pump Balance Shaft Locking Set	D	Belt	VSE5953	418
VAG	2.4D, 2.5D SDi/TDi/TDi CR	D	Belt	VSE5559	413
VAG	2.5D V6	D	Belt	VSE2351	415
VAG	2.5D TDi PD	D	Gear	VSE6146	417
VAG	2.7D, 3.0D TDi V6 + 4.0D, 4.2D TDi V8	D	Chain	VSE6181	417
VAG	2.7D, 3.0D TDi Fuel Pump Drive Belt Kit	D	Chain	VSE3142	416
VAG	Combination Kit	D P	Belt/Chain	VSE5044	414
VAG	1.0	P	Belt	VS5140	422
VAG	1.2, 1.2, 1.4 TSi	P	Belt	VSE5760	420
VAG	1.2 6v/12v	P	Chain	VSE5921	421
VAG	1.2, 1.4 TSi	P	Chain	VS5145	422
VAG	1.2, 1.4 TFSi + 1.4, 1.6 FSi	P	Chain	VSE5956A	421
VAG	1.2, 1.4 TFSi + 1.4, 1.6 FSi	P	Chain	VSE5988	422
VAG	1.2, 1.4 TFSi + 1.4, 1.6 FSi	P	Chain	VSE5950	422
VAG	1.2, 1.4 TFSi, 1.4 FSi	P	Belt	VSE2357A	422
VAG	1.2, 1.4 TSi	P	Chain	VSE7140	423
VAG	1.4 TFSi, FSi	P	Belt	VSE5047	423
VAG	Crankshaft Pulley Holder 1.0, 1.2, 1.4 TSi	P	Belt	VSE6255	425
VAG	1.4, 1.6 16v Crankshaft Pulley Holding Tool	P	Belt	VSE23581	425
VAG	1.6, 1.8, 1.8T, 2.0 + 1.8/1.8T Chain in Head	P	Belt	VSE5851	418
VAG	1.8/1.8T, 2.0 FSi/TFSi/TSi, 2.0S/R	P	Belt	VSE6171	419
VAG	1.8/1.8T Chain in Head Service Kit	P	Belt	VSE5909	423
VAG	1.8, 2.0 TSi-TFSi	P	Chain	VSE4242	421
VAG	1.8, 2.0 TSi-TFSi Vibration Damper Holding Tool	P	Chain	VSE4251	423
VAG	1.8, 2.0 TSi-TFSi	P	Chain	VSE6236	420
VAG	1.8, 2.0 TSi-TFSi Crankshaft Pulley Wrench	P	Chain	VSE6237	425
VAG	2.8, 3.2	P	Chain	VS5138	419
VAG	3.7, 4.2 V8	P	Belt	VSE5938	419
VAG	4.2 V8	P	Chain	VSE7407	418
VAG	Service Position Front End Support Guide Set	D P	Belt/Chain	VSE5852	425
VAG	Pulley Holding/Turning Set	D P	Belt/Chain	VS754	419
VAG	Water Pump Removal Kit	D	Gear	VSE6000	417
VAG	Camshaft Sprocket Hub Remover/Installer Set	D	Belt	VSE5952	417
VAG	Turbo Adjustment Set	D	Chain	VS2032	424
VAG	Crankshaft Sensor 4mm Ball Hex Key	D P	Belt/Chain	VS0584	424
VAG	Camshaft Control Valve Removal Set	P	Chain	VSE2359	421
VAG	Master Timing Tool Set	D P	Belt/Chain	VS5100MK	424
<b>Volvo</b>					
Volvo	1.6D	D	Belt	VSE5846	397
Volvo	2.0D	D	Belt	VSE6126	402
Volvo	1.6, 1.8, 2.0	P	Belt/Chain	VSE5515	426
Volvo	1.6 16v	P	Belt	VSE4143.32	398
Volvo	2.5	P	Belt	VS4387	396
Volvo	Crankshaft Holding Tool	D P	Belt	VSE6140	425
<b>Universal</b>					
Universal	Diesel Fuel Injection Pump Timing Tool Kit	D	Belt	VSE2242	427
Universal	Ratchet Action Auxiliary Belt Tension Tool Kit	D P	Belt/Chain	VS784	428
Universal	Auxiliary Stretch Belt Removal/Installation Tool	D P	Belt/Chain	VS787	428
Universal	Auxiliary Stretch Belt Removal/Installation Tool	D P	Belt/Chain	VS788	428
Universal	Belt Tension Tester - Universal	D P	Belt	VSE110	428
Universal	Belt Tension Tester - Universal	D P	Belt	VSE120	428
Universal	Belt Tensioner Wrench Set 9pc	D P	Belt	VS789	428
Universal	Universal Twin Camshaft Locking Tool	D P	Belt	VSE888	426
Universal	Universal Pulley & Fan Clutch Holder Set	D P	Belt/Chain	VS783	426
Universal	Flywheel Locking Tool	D P	Belt	VSE2394	427

Make	Type	Fuel	Drive	Kit	Page
Universal	Flywheel Locking Tool	D P	Belt	VSE2395	427
Universal	Crankshaft Pulley Removal Tool Set 14pc	D P	Belt/Chain	PS997	420
Universal	550mm Impact Bar 1/2" Sq Drive	D P	Belt/Chain	VS786	427
Universal	Universal Pulley Holder	D P	Belt/Chain	VS4844	426
Universal	Flywheel Turning Wrench	D P	Belt/Chain	VS175	420

**Use our online Timing Tool Kit Finder to search for kits that are relevant to your vehicle.**  
[www.sealey.co.uk/timing-tools](http://www.sealey.co.uk/timing-tools)

## Technical Hotline

If you can't find the details, or the answer you require from the Timing Tool Kit Finder, it's not a problem. Sealey have a fully trained technical sales team to provide additional assistance when required.

Tel: 01284 757505 Email: [technical@sealey.co.uk](mailto:technical@sealey.co.uk)

## Timing Tool Kit Finder

The Timing Tool Kit Finder lists all vehicle applications, date ranges and engine codes. Simply select the make and model of your vehicle from the drop down menus and click on the picture of the Timing Tool Kit for more information.

Vehicle REG:

ENTER REG

UK  EIRE

Search

Make

Select Make ▼

Engine Code

Select Engine Code ▼

Model

Select Model ▼

Engine Size

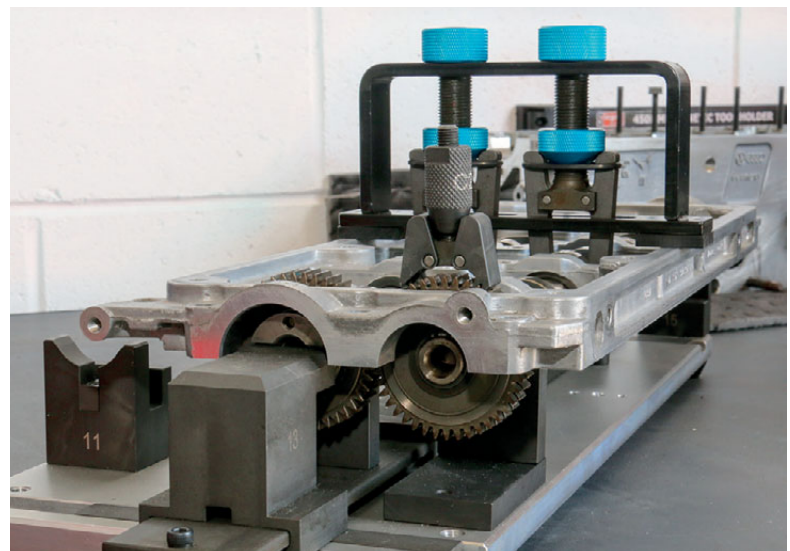
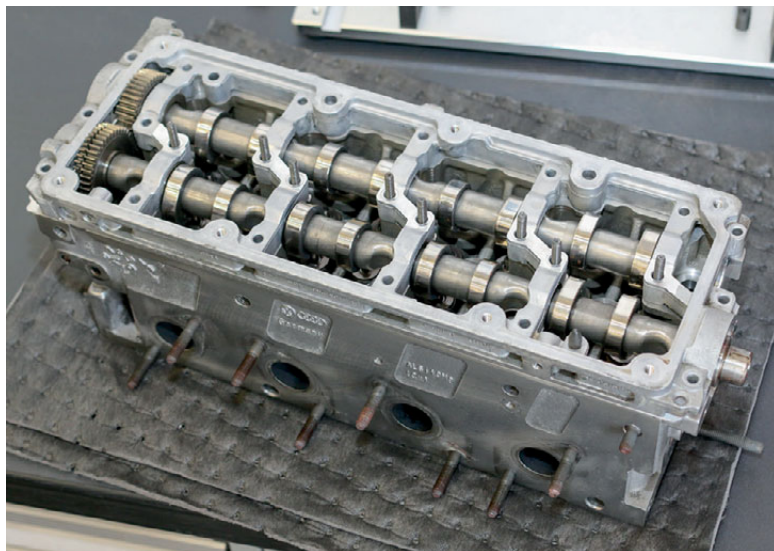
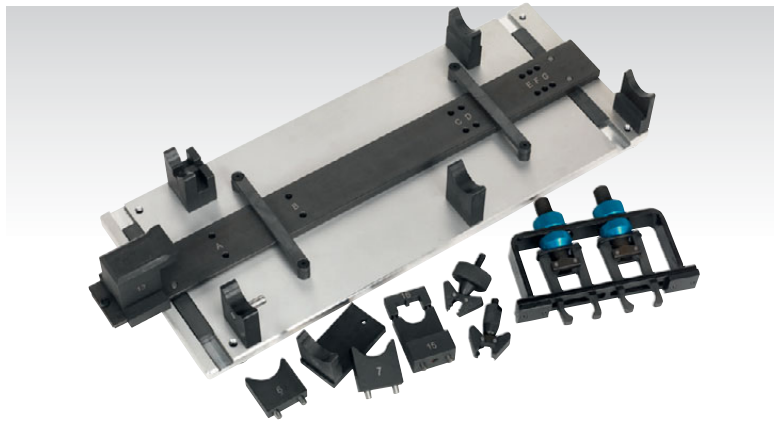
Select Engine Size ▼

Year From

Select Year From ▼

Reset

Search





A



Belt

ALFA ROMEO  
FIAT  
LANCIA**A VSE5961****Timing Tool Kit - Alfa Romeo, Fiat, Lancia  
1.6D/1.9D/2.0D/2.4D - Belt Drive**

Suitable for setting and locking Alfa Romeo, Fiat and Lancia complete range of 1.6D, 1.9D, 2.0D JTD and Multijet engines as well as 2.4D 10v and 20v JTD. Kit contains flywheel holding tool to remove/install crankshaft pulley, crankshaft locking tool and camshaft setting tools. Supplied in storage case with instructions and warning tag.

**OEM Tools:** 2.000.003.000, 1.860.898.000, 1.870.815.000, 1.870.836.000, 1.870.896.900, 1.820.630.000, 1.860.905.000, 1.860.905.010

**Applications:**

**Alfa Romeo:** 145 (98-01), 146 (98-01), 147 (01-10), 156 (97-08), 159 (05-12), 166 (98-08), Brera (05-11), Crosswagon (04-08), Giulietta (10-15), GT (04-10), MiTo (08-16), Spider (06-11)

**Fiat:** Brava/Bravo (98-02), Bravo (07-15), Croma (05-11), Doblo/Cargo/Workup (02-16), Grande Punto (05-10), Idea (04-12), Linea (07-11), Marea/Weekend (99-03), Multipla (99-11), Palio Weekend (02-06), Punto (99-06), Punto Evo (09-12), Sedici (06-13), Stilo (01-08), Strada Pick-Up (03-06)

**Lancia:** Delta (08-15), Kappa (98-02), Lybra (99-07), Musa (04-12), Thesis (02-07)

**Engine Codes:**

**1.6D:** 198A2.000, 198A3.000, 198A6.000, 263A3.000, 263A4.000, 263A5.000, 350A2.000, 350A3.000, 940A3.000, 955A3.000, 955A4.000

**1.9D 8v:** 371.01, 323.02, 182.A7000, 182B4.000, 182B9.000, 186A6.000, 186A8.000, 186A9.000, 188A2.000, 188A7.000, 188B2.000, 192A1.000, 192A3.000, 192A8.000, 192A9.000, 192B5.000, 192B4.000, 199A5.000, 223.A6000, 223A7.000, 223B1.000, 937A2.000, 937A3.000, 939A1.000, 939A7.000, D19AA

**1.9D 16v:** 182.A7000, 186A9.000, 192A5.000, 192B1.000, 192B5.000, 199A5.000, 223.A6000, 223A7.000, 223B1.000, 937A3.000, 937A4.000, 937A5.000, 937A6.000, 939A1.000, 939A2.000, 939A7.000, 939A8.000

**2.0D:** 198A5.000, 250A1.000, 263A1.000, 844A2.000, 939B3.000, 939B4.000, 940A4.000, 940A5.000, D20AA

**2.4D:** 325.01, 342.02, 362.02, 185A6.000, 838A8.000, 841C.000, 841G.000, 841H.000, 841M.000, 841N.000, 939A3.000, 839A5.000, 839A6.000, 939A9.000

C



Belt

Chain

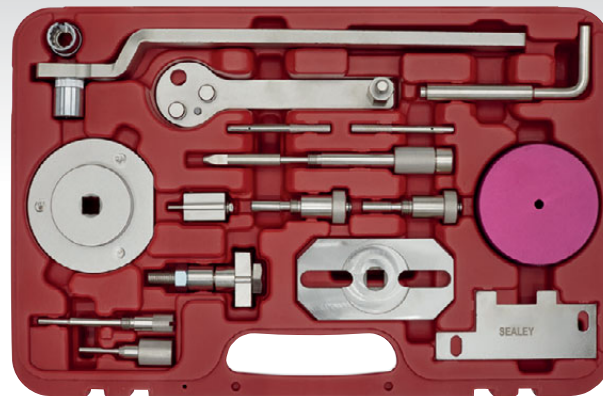
FIAT  
IVECO  
CITROEN  
PEUGEOT

B



Belt

Chain

FIAT  
FORD  
IVECO  
CITROEN  
PEUGEOT**B VSE5036****Timing Tool Kit - Fiat, Ford, Iveco, PSA  
2.2D/2.3D/3.0D - Belt/Chain Drive**

Used for timing 2.2/2.3/3.0D belt and chain diesel drive engines, including the later chain in head versions, usually found in light commercial vehicles. Features a water sensor installation socket, crankshaft turning tool, timing cover centring plate, oil pump setting plate as well as camshaft and crankshaft locking tools. These engines are also found in the Ford Transit. Supplied in storage case.

**OEM Tools:**

**Fiat/Iveco:** 1.860.617.000/99360608, 2.000.016.500/99360614,

2.000.018.200/99360615

**Citroen/Peugeot:** 0191/2A, 0191/2B, 0198A, 0198B2, 0198D, 0198G

**Ford:** 303-698, 303-705/21-256

**Applications:**

**Citroen:** Relay/Jumper III (06-12)

**Fiat:** Ducato (02-13)

**Iveco:** Daily (03-10), Daily/EcoDaily (09-11)

**Peugeot:** Boxer III (06-12)

**Engine Codes:**

**Citroen/Peugeot:** 4HM, 4HV

**2.2D HDi:** 4HM, 4HV

**Fiat:** 4HV

**2.2D Multijet 100:** F1AE0481C

**2.3D JTD:** F1AE0481D, F1AE0481N, F1AE3481E

**2.3D Multijet:** F1AE0481D, F1AE0481N, F1AE3481E

**3.0D Multijet:** F1CE0481D, F1CE3481E, F1CE13481M, F1CE3481N

**Iveco:**

**2.3D:** F1AE0481A, F1AE0481B, F1AE0481F, F1AE0481FA, F1AE0481G,

F1AE0481GA, F1AE0481H, F1AE0481HA, F1AE0481R, F1AE0481RA, F1AE0481UA,

F1AE0481VA

**3.0D:** F1CE0481A, F1CE0481B, F1CE0481F, F1CE0481H

**C VSE5037****Timing Tool Kit - Fiat, Iveco, Citroen, Peugeot - 2.3D/3.0D  
Belt/Chain Drive**

Suitable for setting and locking Fiat 2.3D JTD diesel engine (belt driven), Fiat 3.0D JTD diesel engine (chain driven) and Citroen/Peugeot 3.0D Hdi diesel engine (chain driven). Set comprises camshaft setting pins, crankshaft locking pin and sensor locking pin.

**OEM Tools:** 99360614/(-).0191/2.B, 99360615/2.000.018.200/(-).191/2.A, 99360608/1.860.617.000

**Applications:**

**Citroen:** Relay/Jumper III (06-14)

**Fiat:** Ducato (02-11)

**Iveco:** Daily (03-10), Daily/EcoDaily (09-11)

**Peugeot:** Boxer III (06-14)

**Engine Codes:**

**2.3D:** F1AE0418A, F1AE0481B, F1AE0481C, F1AE0481D, F1AE0481F,

F1AE0481FA, F1AE0481G, F1AE0481H, F1AE0481HA, F1AE0481N, F1AE0481R,

F1AE0481UA, F1AE0481VA

**3.0D:** F1CE01481D, F1CE0441F, F1CE0481A, F1CE0481B, F1CE0481F,

F1CE0481FA, F1CE0481H, F1CE3418M, F1CE3481CC, F1CE3481LC

**3.0HDI:** F30DTE; (F1CE0481D), (F1CE3481DM), (F1CE3481N)

**A**



Chain

**ALFA ROMEO  
FIAT  
FORD  
PSA  
SUZUKI  
VAUX/OPEL**



**A VSE5881A**

**Timing Tool Kit - Alfa Romeo, Fiat, Ford, GM, Lancia, Suzuki 1.3D JTD(M)/TDCi/DDiS/CDTi - Chain Drive**

Suitable for timing the camshaft and crankshaft, on chain drive 1.3 diesel engines. Set also includes a tensioner locking pin. Supplied in storage case.

<b>OEM Tools:</b>	
<b>Alfa Romeo/Fiat/Lancia:</b>	1.871.00.900
<b>Citroen:</b>	104-A, 0198-J
<b>Ford:</b>	303-1472
<b>Peugeot:</b>	104-A, 0198-J
<b>Suzuki:</b>	09912-38300, 09916-98610, 09917-68610
<b>Vauxhall/Opel:</b>	EN-46781, EN-46785, KM-955

<b>Applications:</b>	
<b>Alfa Romeo:</b>	MiTo (08-16)
<b>Citroen:</b>	Nemo (10-16)
<b>Fiat:</b>	500 (07-16), Doblo/Cargo (04-10), Fiorino (08-16), Grande Punto (05-11), Idea (04-12), Linea (07-11), Panda (03-16), Punto (03-11), Punto Evo (09-14), Qubo (08-16)
<b>Ford:</b>	Ka (09-15)
<b>Lancia:</b>	Musa (04-13), Ypsilon (03-15)
<b>Peugeot:</b>	Bipper (10-16)
<b>Suzuki:</b>	Ignis (03-09), Splash (08-11), Swift (06-14), Wagon R+ (03-08)
<b>Vauxhall/Opel:</b>	Agila (03-08), Agila-B (08-10), Astra-H (04-11), Astra-J (09-15), Combo-C (03-12), Corsa-C (03-12), Corsa-D (06-14), Meriva-A (04-10), Meriva-B (10-15), Tigra-B (04-10)

<b>Engine Codes:</b>	
<b>Alfa Romeo JTD Multijet:</b>	199A3.000, 199B1.000
<b>Citroen:</b>	F13DTE5 (FHZ)
<b>Fiat JTD Multijet:</b>	169A1.000, 188A8.000, 188A9.000, 199A2.000, 199A3.000, 199A9.000, 199B1.000, 199B2.000, 223A9.000
<b>Ford TDCi:</b>	169A1.000(FD4)
<b>Lancia JTD Multijet:</b>	188A9.000, 199A3.000, 199B1.000
<b>Peugeot:</b>	(FHZ)F13DTE5
<b>Suzuki DDiS:</b>	D13A, Z13DT, Z13DTJ, Z13DTJ Eco
<b>Vauxhall/Opel CDTi:</b>	A13DTC, A13DTE, A13DTR, D13A, LDV/A13DTC, LSF/A13DTE, Y13DT, Y13DTH, Z13DT, Z13DTi, Z13DTH, Z13DTJ, Z13DTR

**C**

MM



**C AK9634M**

**Metric Dial Gauge Indicator**

Compact design and precision mechanism, ideal for automotive applications and general purpose workshop use. Ø41mm Dial and rotating bezel.

<b>Deflection/Travel:</b>	8mm
<b>Graduation:</b>	0.01mm
<b>Shank Size:</b>	Ø8mm

**B**



Chain

**ALFA ROMEO  
FIAT  
FORD  
PSA  
SUZUKI  
VAUX/OPEL**



**B VSE6191**

**Timing Tool Kit - Alfa Romeo, Ford, PSA, Suzuki, GM 1.3D 16v Chain Drive**

Suitable for a range of 1.3 16v common rail diesel engines used by a number of vehicle manufacturers. The chain drive connects the crankshaft to the exhaust camshaft which in turn is connected by gears to the inlet camshaft. This overhaul kit is designed to minimize the level of disassembly, so the cylinder head/camshafts can be removed without removing the front timing cover, sprockets and timing chain.

<b>OEM Tools:</b>	
<b>Alfa Romeo/Fiat/Lancia:</b>	1.871.00.900, 1.871.000.200, 1.871.008.600, 1.870.900.400
<b>Citroen:</b>	104-A
<b>Ford:</b>	303-1472, 303-1475, 303-1469
<b>Peugeot:</b>	198-J
<b>Suzuki:</b>	09917-68610, 09916-98610, 09912-38300, 09912-46310, 09917-68221
<b>Vauxhall/Opel:</b>	EN-46781, EN-46785, KM-662-C, KM-955

<b>Applications:</b>	
<b>Alfa Romeo:</b>	MiTo (08-16)
<b>Citroen:</b>	Nemo (10-16)
<b>Fiat:</b>	500 (07-16), Panda (03-13), Punto (03-16), Punto Evo (09-12), Grande Punto (05-11), Linea (07-11), Qubo (08-15), Idea (04-12), Doblo/Doblo Cargo (04-14), Strada Pick-up (06-16), Fiorino (08-16)
<b>Ford:</b>	Ka (09-15)
<b>Lancia:</b>	Ypsilon (03-15), Musa (04-11)
<b>Peugeot:</b>	Bipper (10-16)
<b>Suzuki:</b>	Swift (04-14), Ignis (03-09), Wagon R+ (03-08), Splash (08-11)
<b>Vauxhall/Opel:</b>	Agila (03-08), Agila-B (08-10), Corsa-C (03-07), Corsa-D (06-14), Astra-H (04-11), Astra-J (09-12), Tigra-B (04-10), Combo-C (03-12), Meriva-A (04-10), Meriva-B (10-15)

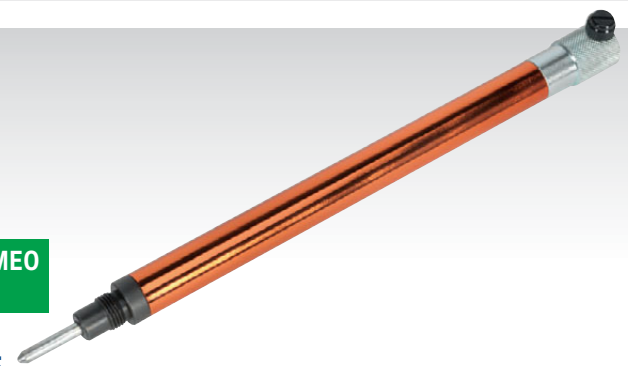
<b>Engine Codes:</b>	
<b>1.3D 16v:</b>	199A3.000, 199B1.000, FHZ(F13DTE5), 169A1.000, 188A8.000, 169A5.000, 199A9.000, 188A9.000, 199B2.000, 199A2.000, 223A9.000, 199A3.000, 263A2.000, 169A1.000(FD4), 843A2.000, (FHZ)F13DTE5, D13A, Z13DT, Z13DTJ, A13DTC, A13DTE, A13DTR, Z13DTH, Z13DTR, Z13DTi

**D**



Chain

**ALFA ROMEO  
FIAT**



**D VSE2515**

**M14 x 1.25mm TDC Position Tool - Alfa Romeo, Fiat**

Used in conjunction with Model No. AK9634M dial gauge (not included) and enables accurate interpretation of piston position relative to TDC.

<b>OEM Tools:</b>	1.825.013.000, 1.860.895.000
<b>Applications:</b>	
<b>Alfa Romeo:</b>	1.4, 1.6, 1.8, 2.0 16v Twin Spark, 2.0JTS
<b>Fiat:</b>	1.6, 1.8 16v, 2.0, 2.4 20v



**A**

**Belt**

**ALFA ROMEO  
CHEVROLET  
FIAT  
VAUX/OPEL  
SAAB**

**A VSE5006**  
**Timing Tool Kit - Alfa Romeo, Fiat, GM, Saab, Chevrolet**  
**1.4/1.6/1.8 Twinport - Belt Drive**

Comprises camshaft setting tools and belt tensioner locking pins. Suitable for timing applications on all 1.4, 1.6 and 1.8 Twinport petrol engines with belt drive.

**OEM Tools:** 2.000.012.000, 2.000.012.100, 2.000.012.800  
**Alfa Romeo/Fiat:** 2.000.012.000, 2.000.012.100, 2.000.012.800  
**GM:** KM-911, KM-6625/EN-6625, KM-6340/EN-6340, KM-6349/KM-6130/EN-6349, KM-6333/EN-6333, KM-6628-A

**Applications:**  
**Alfa Romeo:** 159 (05-10)  
**Chevrolet:** Aveo (08-14), Cruze (09-15), Orlando (11-15)  
**Fiat:** Croma (06-11), Stilo (05-08)  
**Saab:** 9-5 (10-12)  
**Vauxhall/Opel:** Astra-G (03-10), Astra-H (04-13), Astra-J (09-15), Corsa-D (07-14), Insignia (08-13), Meriva-A (06-10), Mokka (12-15), Signum (06-08), Vectra-C (06-08), Zafira-B (05-14), Zafira-C Tourer (11-15)

**Engine Codes:**  
**1.4 16v:** G14D  
**1.6:** A16LEL, A16LER, A16LET, A16XER, LDE/A16LER, LDE/A16XER, LLU/A16LET, Z16LEL, Z16LER, Z16LET, Z16XE1, Z16XEP, Z16XER  
**1.6 ecoFLEX CNG:** A16XNT, LGE/A16XNT, Z16XNT  
**1.8:** 2HO/A18XEL, 2HO/A18XER, A18XER, Z18XER, 939A4.000



**C**

**Belt**

**ALFA ROMEO  
FIAT**

**C VSE5885**  
**Variator Socket - Variable Camshaft Timing Unit - Belt Drive**

Specialised socket for the removal and installation of the variable camshaft timing variator unit fitted on Alfa Romeo and Fiat twin cam petrol engines.

**Timing Tool Kit Finder**

The Timing Tool Kit Finder lists all vehicle applications, date ranges and engine codes. Simply select the make and model of your vehicle from the drop down menus and click on the picture of the Timing Tool Kit for more information.

Vehicle REG:  **ENTER REG**

UK  EIRE

**Make:**

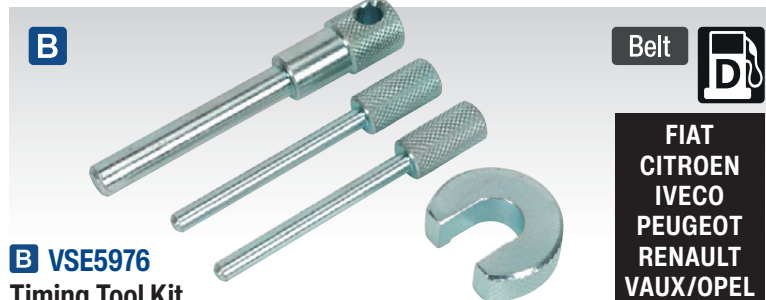
**Engine Code:**

**Model:**

**Engine Size:**

**Year From:**

Use our online Timing Tool Kit Finder to search for kits, [www.sealey.co.uk](http://www.sealey.co.uk)



**B**

**Belt**

**FIAT  
CITROEN  
IVECO  
PEUGEOT  
RENAULT  
VAUX/OPEL**

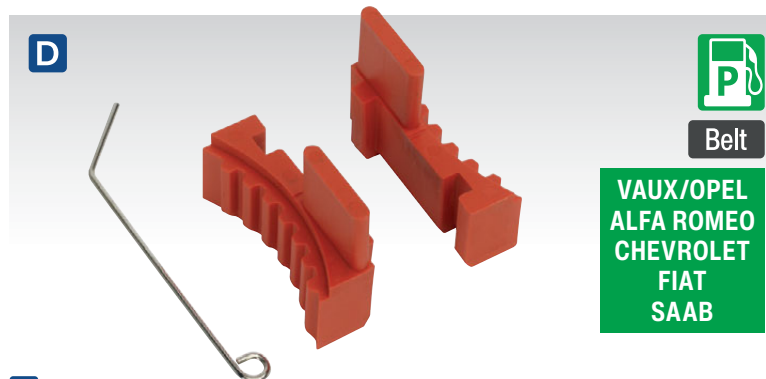
**B VSE5976**  
**Timing Tool Kit**  
**Fiat, Iveco, PSA, Renault, GM 2.5D/2.8D - Belt Drive**

Includes locking pins for 2.5D and 2.8D diesel and later 2.8DTi/JTD/HDi variants of this popular van engine. Also includes a tensioner retaining tool which retains the tension plunger in a retracted position during the belt change.

**OEM Tools:** 1.860.617.000/99360608-A60617/Mot910/KM-966, 1.860.638.000, Mot1054/KM-6031

**Applications:**  
**Citroen:** Relay/Jumper (01-02), Relay/Jumper II (02-06)  
**Fiat:** Croma (86-97), Ducato (86-06), Talento (87-94)  
**Iveco:** Daily (91-06), Turbo Daily (91-00)  
**Peugeot:** Boxer (00-02), Boxer II (02-06)  
**Renault:** Mascot (99-07), Master (89-98), Master II (98-01), Trafic (80-00)  
**Vauxhall/Opel:** Arena (97-01), Movano-A (98-03)

**Engine Codes:**  
**2.5D/DT:** 8140.07, 8140.27, 8140.47, 8140.97, 8144.21, 8144.61, 8144.67, 8144.91, 8144.97, 8140.27S, 8140.47R, 8140.67F.37, 8144.97Y, S8U 720, S8U 722, S8U 730, S8U 731, S8U 742, S8U 748, S8U 750, S8U 752, S8U 758, S8U 770, S8U 772, S8U 780, S8U 782, S9U 700, S9U 702, S9U 704, S9U 714, S9U 740  
**2.8D/TDi/HDi/dCi:** 8140.43S, 8140.43, 8140.63, 8140.23.37, 8140.23.38, 8140.43.37, 8140.43B, 8140.43C, 8140.43N, 8140.43R, 8140.43S, S9W 206, S9W 208, S9W 212, S9W 700, S9W 702



**D**

**Belt**

**VAUX/OPEL  
ALFA ROMEO  
CHEVROLET  
FIAT  
SAAB**

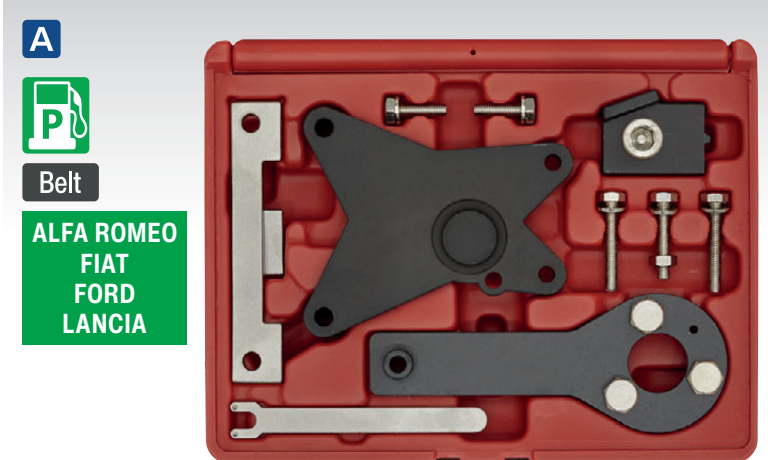
**D VSE131**  
**Timing Tool Kit - Alfa Romeo, Fiat, Saab, Chevrolet, GM**  
**1.4/1.6/1.8 16v - Belt Drive**

Comprises camshaft setting tool and belt tensioner locking pin. Suitable for engine timing applications on all 1.4, 1.6 and 1.8 Twinport engines with belt drive.

**OEM Tools:** 2000012100  
**Alfa Romeo/Fiat:** 2000012100  
**Chevrolet:** EN-6340, EN-6333  
**Saab:** EN-6340, EN-6333  
**Vauxhall/Opel:** KM-6340/EN-6340, KM-6333/EN-6333

**Applications:**  
**Alfa Romeo:** 159 (05-10)  
**Chevrolet:** Aveo (08-11), Cruze (09-12), Orlando (11-15), Trax (13-15)  
**Fiat:** Croma (06-11), Stilo (05-08)  
**Saab:** 9-5 (10-12)  
**Vauxhall/Opel:** Astra-G (03-11), Astra-G Classic II (03-10), Astra-H (04-12), Astra-H Classic III (10-13), Astra-J (09-15), Corsa-D (07-14), Insignia (08-15), Meriva-A (06-10), Mokka (12-15), Signum (06-08), Vectra-C (06-08), Zafira-B (05-12)

**Engine Codes:**  
**1.4 16v:** G14D  
**1.6 16v:** 192B3.000, A16LEL, A16LER, A16LET, A16XER, LDE, LDE/A16XER, LDV, LLU/A16LET, LXV(F16D4), Z16LEL, Z16LER, Z16LET, Z16XE1, Z16XEP, Z16XER  
**1.6 16v ecoFLEX:** A16XER, Z16XER  
**1.6 16v ecoFLEX CNG:** A16XNT, Z16XNT  
**1.8 16v:** 2HO/A18XER, 2HO/Z18XER, 939A4.000, A18XER, Z18XER  
**1.8 MPI:** 939A4.000



**A**



**Belt**

**ALFA ROMEO  
FIAT  
FORD  
LANCIA**

**A VSE5061**

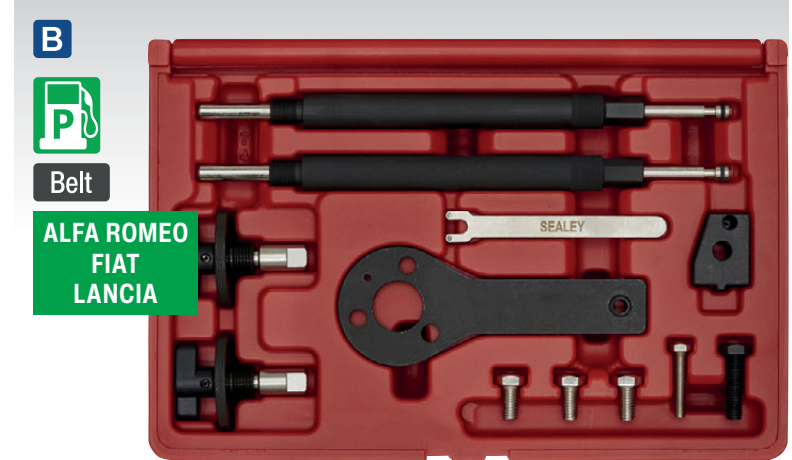
**Timing Tool Kit - Alfa Romeo, Fiat, Ford, Lancia 1.2/1.4 8v Belt Drive**

Consists of camshaft setting plate, crankshaft locking tool and belt tensioner adjuster for the 1.2 engine. Additional sprocket locking tool and alignment fixture for the camshaft sensor on the 1.4 VVT engine.

<b>OEM Tools:</b>	
<b>Fiat:</b>	1.860.987.000, 2.000.004.200, 2.000.004.300, 2.000.004.400, 2.000.004.500
<b>Ford:</b>	303-1477, 303-1478, 303-1479, 303-1480

<b>Applications:</b>	
<b>Alfa Romeo:</b>	MiTo (10-15)
<b>Fiat:</b>	500 (07-15), 500C (07-15), Doblo/Cargo (05-10), Fiorino (09-15), Grande Punto (07-12), Idea (05-12), Linea (07-11), Panda/Panda Classic (09-13), Panda EVO2 (05-12), Punto EVO (09-12), Punto (12-15), Qubo (09-15), Seicento/600 (00-11)
<b>Ford:</b>	Ka (09-15)
<b>Lancia:</b>	Musa (05-13), Ypsilon (06-15)

<b>Engine Codes:</b>	
<b>Fiat:</b>	1.18v; 187A1.000, 1.2/1.2 Dualogic; 169A4.000, 188A4.000 (EVO2 only), 199A4.000, 1.4/1.4 Bi-Fuel LPG/1.4 Natural Power CNG; 199A7.000, 350A1.000
<b>Ford:</b>	1.2 Duratec; 169A4.000 (FP4)
<b>Lancia:</b>	1.2 8v; 188A4.000, 1.4/1.4 Bi-Fuel LPG; 350A1.000



**B**



**Belt**

**ALFA ROMEO  
FIAT  
LANCIA**

**B VSE2511A**

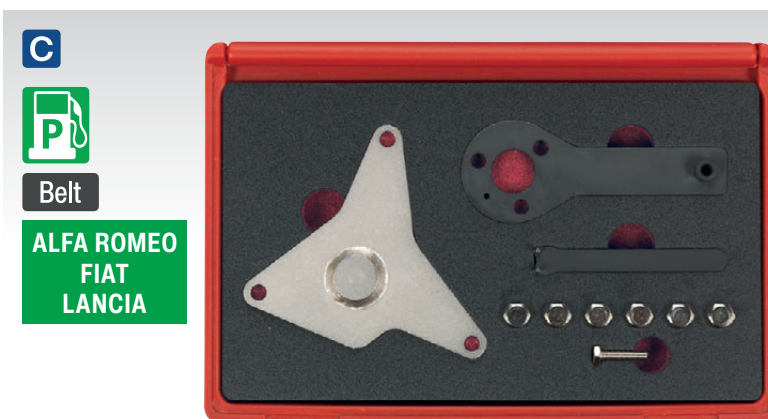
**Timing Tool Kit - Alfa Romeo, Fiat, Lancia 1.2/1.4 16v/1.4 T-Jet Belt Drive**

Contains the timing tools required to cover the belt replacement procedure for both the early and later variants of these engines. The kit includes piston positioning, camshaft and crankshaft locking tools, plus tensioner adjuster and VVT sprocket locking tool.

<b>OEM Tools:</b>	
	1.860.985.000, 1.860.987.000, 1.860.992.000, 2.000.004.500, 2.000.015.800

<b>Applications:</b>	
<b>Alfa Romeo:</b>	Giulietta (10-14), MiTo (08-17)
<b>Fiat:</b>	500 (07-19), 500L (12-22), 500C (07-19), 500 Abarth (08-17), Bravo (07-14), Brava/Bravo (98-02), Doblo/Doblo Cargo (10-19), Egea (15-22), Grande Punto (07-10), Grande Punto Abarth (07-10), Idea (04-12), Linea (07-10), Marea/Weekend (98-00), Palio Weekend (01-06), Panda (07-11), Punto (97-08), Stilo (01-08), Tipo (15-20)
<b>Lancia:</b>	Delta (08-12), Musa (04-13), Ypsilon (96-11)

<b>Engine Codes:</b>	
<b>1.2 16v:</b>	176B9.000, 182B2.000, 188A5.000
<b>1.4 16v / T-Jet:</b>	169A3.000, 192B2.000, 198A1.000, 198A4.000, 199A6.000, 198A8.000, 312A1.000, 312A3.000, 843A1.000, 955A1.000



**C**



**Belt**

**ALFA ROMEO  
FIAT  
LANCIA**

**C VSE6161**

**Timing Tool Kit - Alfa Romeo, Fiat 1.4 MultiAir - Belt Drive**

Suitable for Alfa Romeo, Fiat 1.4 MultiAir - belt drive engines. The MultiAir engine replaces the inlet camshaft with an electro/hydraulic system operating the inlet valves. Kit includes a camshaft setting plate, crankshaft locking tool, tensioner adjuster, warning tag and full instructions.

<b>OEM Tools:</b>	2000034400, 2000004500
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<b>Applications:</b>	
<b>Alfa Romeo:</b>	Giulietta (10-19), MiTo (09-18)
<b>Fiat:</b>	Bravo (10-15), Punto (12-14), Punto Evo (09-12)
<b>Lancia:</b>	Delta (10-13)

<b>Engine Codes:</b>	
<b>1.4 MultiAir:</b>	198A7.000, 940A2.000, 955A2.000, 955A6.000, 955A7.000, 955A8.000

<b>Associated Tool:</b>	<b>VS783</b> - Universal Pulley & Fan Clutch Holder Set (see page 426)
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**D**



**Belt**

**FIAT  
LANCIA**

**D VSE2513**

**Timing Tool Kit - Fiat, Lancia 1.6 16v - Belt Drive**

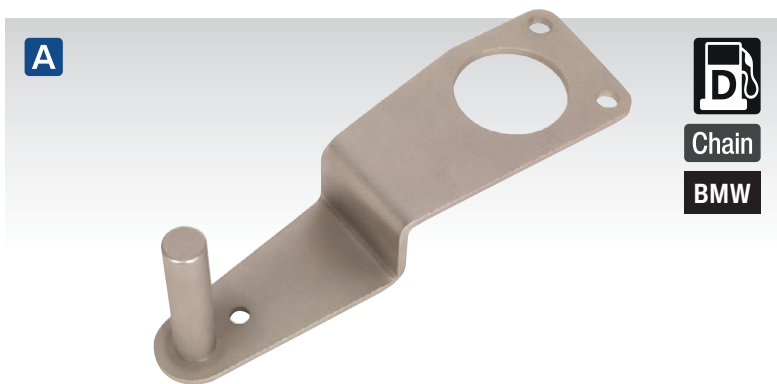
Contains inlet and exhaust camshaft setting plates and a timing belt tensioner adjuster. TDC Position on these twin cam engines is established using Model No. VSE2515 TDC Positioning Tool and Model No. AK9634M Dial Gauge.

<b>OEM Tools:</b>	1.860.874.000, 1.860.876.000
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<b>Applications:</b>	
<b>Fiat:</b>	Brava/Bravo (95-02), Doblo/Cargo (02-10), Marea/Weekend (96-03), Multipla (99-11), Palio Weekend (97-06), Siena (97-03), Stilo (01-08)
<b>Lancia:</b>	Delta (96-99), Lybra (99-06)

<b>Engine Codes:</b>	
<b>1.6 16v:</b>	178B3.000, 182A4.000, 182A6.000, 182B6.000

<b>Associated Tools:</b>	<b>VSE2515</b> - TDC Position Tool - Alfa Romeo, Fiat (see page 377), <b>AK9634M</b> - Dial Gauge (see page 377)
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**A**  
Chain  
BMW

**A VSE6121.05**  
**Crankshaft Holding Tool - BMW N47/N57 2.0/3.0 - Chain Drive**

Crankshaft holding tool for BMW N47/N57 diesel engines. Essential for securing the crankshaft when replacing the timing chain.



**C**  
Chain

BMW  
LAND ROVER  
MG/ROVER  
VAUX/OPEL

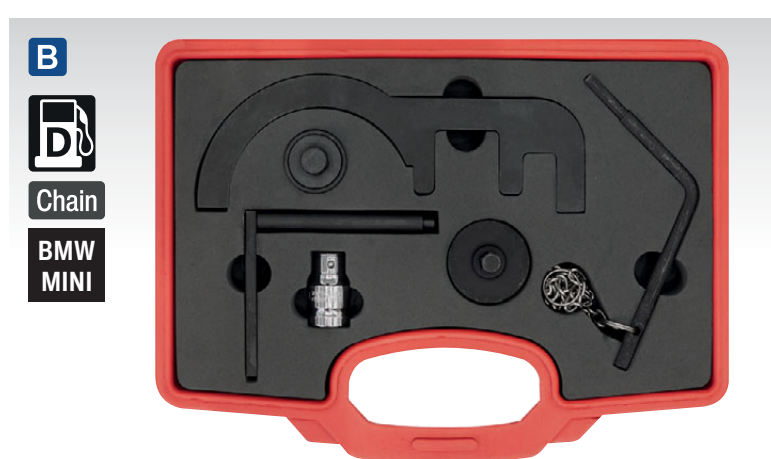
**C VSE5666**  
**Timing Tool Kit - BMW M47/M57, Land Rover TD4/TD6, MG 2.0D, GM 2.5D - Chain Drive**

Camshaft setting and flywheel locking tools to cover BMW M47/TU/T2 and M57/TU/T2 diesel engines used in BMW, Land Rover, MG/Rover and Vauxhall/Opel models. Supplied in storage case.

**OEM Tools:** 11.2.300/12-108, 12-171/KM-813, 11.3.340/12-172/KM-823, 11.5.180, 11.6.080, 11.6.321/12-173/KM-6267, 11.6.322/12-174/KM-6267

**Applications:**  
**BMW 1 Series:** 118d E87 (04-07), 120d E87 (04-07)  
**BMW 3 Series:** 318d/td Compact E46 (01-05), 318d/td E90/91 (05-08), 320d/td Compact E46 (98-05), 320d/cd E90/91 (05-08), 325d E90/91/92/93 (02-10), 330d/cd E46/90/91/92/93 (99-07), 335d E90/91/92 (06-11)  
**BMW 5 Series:** 520d E39/60/61 (00-09), 525d/xd E39/60/61 (00-10), 530d/xd E46/60/61 (98-10), 535d E60/61 (04-10)  
**BMW 6 Series:** 635d E63/64 (07-11)  
**BMW 7 Series:** 730d/ld E38/65/66 (98-08)  
**BMW X Series:** X3 2.0d E83 (04-07), X3 3.0d/sd E83 (03-10), X5 3.0d E53/E70 (00-10), X6 3.0d E71/72 (08-10), X6 3.5d E71/72 (08-10)  
**Land Rover:** Freelander TD4 (00-06), Range Rover TD6 (02-06)  
**MG/Rover:** MG-ZT/T (01-05), Rover 75 CDT/CDTi (99-05)  
**Vauxhall/Opel:** Omega-B (01-03)

**Engine Codes:**  
**BMW:**  
 2.0D: M47, M47T2, M47TU  
 2.5D: M57, M57T2, M57TU  
 3.0D: M57, M57T2, M57TU  
**Land Rover:**  
 2.0D: 204D3 (TD4)  
 3.0D: 306D1 (TD6)  
**MG/Rover:**  
 2.0D: M47R  
 2.0D CDT: M47R  
**Vauxhall/Opel:**  
 2.5D: Y25DT



**B**  
Chain  
BMW  
MINI

**B VSE6121A**  
**Timing Tool Kit - BMW & BMW Mini - 1.5D/1.6D/2.0D/3.0D Chain Drive**

Essential tools for timing the BMW, BMW Mini 1.5D, 1.6D, 2.0D and 3.0D chain drive diesel engines. Kit includes camshaft setting plate, flywheel locking pin, crankshaft turning tool, and is suitable for the new generation of modular engines. Kit also includes HP pump sprocket retaining tool required during pump removal/replacement applications on N47/N57 engines. Supplied in storage case with instructions and warning tag.

**OEM Tools:** 11.5.320, 11.6.480, 11.8.760, 11.8.740, 288-380

**Applications:**  
**BMW:** 114d (15-19), 116d (11-19), 118d (07-14), 120d (07-14), 123d (07-14), 125d (12-14), 214d Active Tourer (14-19), 214d Grand Active Tourer (15-19), 216d (14-22), 216D Gran Coupe (20-22), 216D Gran Tourer (18-22), 218d (11-16), 220d (14-20), 225d (11-14), 316d (09-12), 318d (07-12), 320d (10-13), 325d (10-14), 330d (08-19), 330d Gran Turismo (13-20), 330xd (08-12), 335d (13-19), 425d (13-16), 425d (14-16), 435d Cabriolet (14-19), 435d Gran Coupe (14-20), 520d (07-13), 525d (10-12), 530d (10-15), 530d GT (09-19), 535d (10-17), 535d GT (10-12), 640d (11-18), 640d Gran Turismo (12-18), 730i (08-15), 730Ld (08-12), 740d (09-12), 750d (12-15), X1 (15-22), X2 (18-22), X3 (11-17), X4 (14-19), X5 (10-18), X6 (10-19)  
**Mini:** Clubman (10-14), Clubvan (10-14), Cooper D (11-15), Cooper SD (10-15), Countryman (10-17), Coupe (11-14), One D (10-14), Paceman (13-17), Roadster (12-14)

**Engine Codes:**  
**1.5D:** B37C15A, B37D15A  
**1.6D:** N47 C16K1, N47 C16U1  
**2.0D:** N47 D20K1, N47D20U1, N47D20O1, N47D20, N47D20T1, B37C15A, N47D20C, N47D20D, N47D20U0, N47TD20U1, N47TD20, N47TD20O1, D20D, N47D20O0, N47SD20T0, N47C20K1, N47C20U1  
**3.0D:** N57D30U0, N57D30O0, N57D30O1, N57D30B, N57D30U0, N57D30T0, N57D30T1, N57D30B/T1, N57B30B, N57D30B/T0, N57D30C  
**Associated Tool:** VSE6121.05 - Crankshaft Holding Tool - BMW N47/N57 2.0, 3.0 - Chain Drive (see A)



**D**  
Chain

**D VSE5664**  
**Injection & HP Pump Remover/Sprocket Retainer BMW M47, M57, Land Rover (TD6), Vauxhall/Opel**

Removes the diesel pump and retains the pump sprocket in situ so that the sprockets/timing chain configuration remains undisturbed, minimizing the level of engine disassembly. For engine timing use Timing Tool Kit Model No. VSE5666 (see C).



**E**  
Chain

**E VSE5665**  
**Injection & HP Pump Remover/Sprocket Retainer M47R Land Rover, Rover/MG**

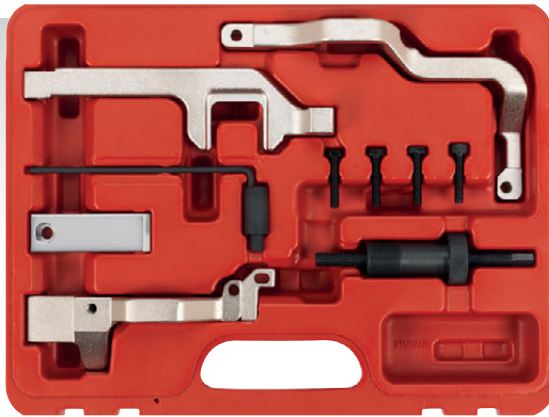
Removes the diesel pump and retains the pump sprocket in situ so that the sprockets/timing chain configuration remains undisturbed, minimizing the level of engine disassembly. Essential for transversely fitted engines. For engine timing use Timing Tool Kit Model No. VSE5666 (see C).

**A**



Chain

**BMW MINI  
CITROEN  
PEUGEOT**



**A VSE6131**

**Timing Tool Kit - BMW Mini, Citroen, Peugeot 1.4/1.6 16v - Chain Drive**

Suitable for timing 1.4, 1.6 16v Valvetronic direct injection, chain drive petrol engines, fitted in BMW Mini, Citroen and Peugeot vehicles. Supplied in storage case with comprehensive instructions.

<b>OEM Tools:</b>	
<b>BMW Mini:</b>	11.5.540, 11.5.590, 11.9.340, 11.9.550
<b>Citroen:</b>	0197-A1, 0197-A3, 0197-B
<b>Peugeot:</b>	0197-A1, 0197-A3, 0197-BZ

**Applications:**

**BMW Mini:** Mini Clubvan R55 (12-14), Mini Clubman R55 (08-14), Mini Countryman R55 (07-10), Mini Clubman R56/R57 (07-15), Mini R56/R57 (08-15), Mini Coupe R58 (11-15), Mini Roadster R59 (08-15), Mini Clubman R60 (10-14), Mini Clubvan R60 (12-14), Mini Roadster R61 (13-15), Mini Paceman R61 (14-17), Mini Countryman R60 (10-17)

**Citroen:** C4 (08-11), C4 Picasso (08-13), C4 Grand Picasso (13-15)

**Peugeot:** 207 (06-14), 207CC (07-15), 308 (07-15), 3008 (09-15), 5008 (09-15)

**Engine Codes:**

**1.4:** N12B14, N12B14AB  
**1.6:** EP3(8FS), EP3C(8FR), EP6(5FW), EP6C(5FS), EP6CDT(5FV), EP6DT(5FT), EP6DT(5FX), EP6DTS(5FY), N14B16A, N14B16CD, N14B16T0, N14B16CD/T0, N16B16A, N16B16K0, N16B16A/M0, N16B16A/MO, N16B16M0, N16B16U0

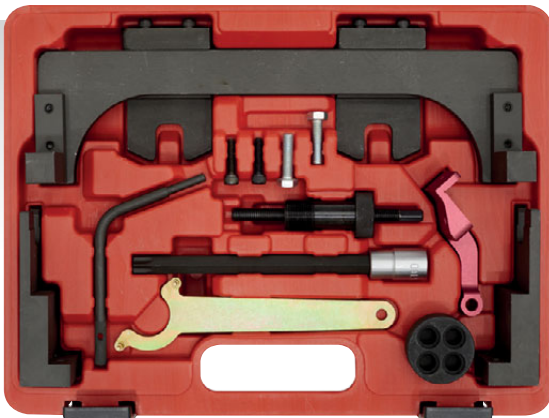
**Associated Tool:** **VSE6156** - Balance Shaft Alignment Tool Kit - BMW, BMW Mini, Citroen, Peugeot - Chain Drive (see page 384)

**D**



Chain

**BMW  
MINI**



**D VSE6122**

**Timing Tool Kit - BMW, BMW Mini 1.2/1.5/2.0/3.0 - Chain Drive**

Fits the new generation of BMW modular petrol engines. Contains the tools required to set and lock the engine and for valve timing checking and adjusting. Supplied in a storage case with instructions and a warning tag.

<b>OEM Tools:</b>	35.8.122, 2.88.380, 11.9.340, 11.6.480, 11.9.260
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**Applications:**

**BMW:** i8 (14-20), 116i F20/21 (15-22), 140i F21/F22 (16-18), 216i F45 (14-17), 216i F46 Gran Tourer (15-22), 218i Coupe F22 (15-21), 218i F23 Cabriolet (15-17), 220i F45 (14-17), 220i F46 Gran Tourer (15-17), 225i F45 (14-17), 240i Coupe F22 (16-21), 240i Cabriolet F23 (16-21), 318 F30/31 (15-17), 330i F30/31 (15-17), 340i Gran Turismo F34 (16-20), 340i F30/31 (15-19), 340i F80 (15-18), 418i Gran Coupe (15-21), 418i Coupe (16-21), 440i Coupe F32 (16-20), 440i Cabriolet F33 (16-20), 440i Coupe F32 (16-20), 440i Gran Coupe F36 (16-21), 540i G30/31 (17-19), 640i Gran Turismo G32 (17-19), X1 F48 (15-22), X2 (18-22), X3 G01 (17-19), X4 G02 (17-19), Z4 (18-22)

**BMW Mini:** Clubman F54 (15-22), Countryman F60 (17-22), Convertible F57 (16-22), Mini F55 (14-22), Mini F56 (14-21)

**Engine Codes:**

**1.2:** B38A12A  
**1.5:** B38A15A, B38B15A, B38K15A  
**2.0:** B48A20A, B48B20B  
**3.0:** B58B30A, B58B30B, B58B30C

**B**



**B SCS591**

**200ml High Temperature Gasket Sealant - Black**

Gasket sealant to replace original gaskets. Used as an adhesive to bond metal, rubber and glass etc. Supplied in a flow controllable power can. Temperature range -50°C to 180°C.

<b>Size:</b>	200ml Power Can
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**C**



Chain

**BMW MINI**

**C VSE2381**

**Timing Chain Wear Indicator - BMW Mini**

Allows checking of wear of the timing chain on a range of BMW Mini petrol engines with the minimum amount of dismantling. This saves a significant amount of time when checking for timing chain stretch and wear.

<b>OEM Tool:</b>	235.3.281
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**Applications:** Clubman (07-14), Coupe (11-15), Countryman (10-17), Clubvan (12-14), Mini (06-18), Paceman (13-17), Roadster (12-15)

**Engine Codes:**

**1.4:** N12B14, N12B14AB  
**1.6:** N12 B16A, N16 B16A, N16 B16M0, N16 B16U0, N16 B16A/M0, N16 B16K0, N18 B16A, N18 B16A/MO, N18 B16C, N18 B16A/MO, N18 B16MO, N18 B16C/T0

**E**



1/2" Sq Drive

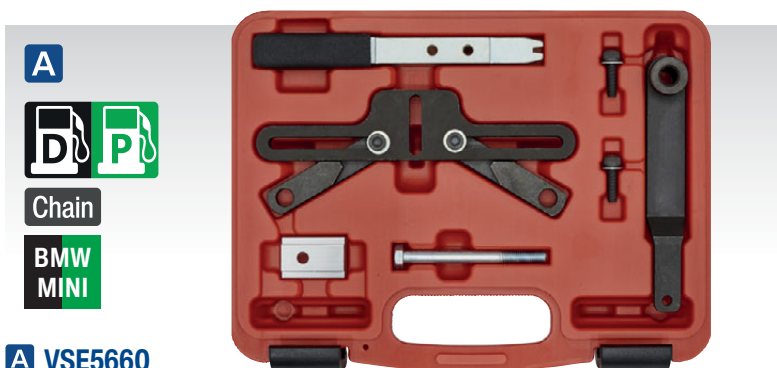


**BMW  
MINI  
FORD**

**E VSE6134**

**Vanos Unit Socket 22mm 16pt 1/2" Sq Drive BMW, Mini, Ford**

Vanos unit socket for BMW, Mini and Ford. 22mm 16-point Socket.

**A VSE5660****Flywheel Holding Tool - BMW, BMW Mini - Chain Drive**

Essential tool for holding the flywheel when releasing and tightening the vibration damper central bolts on BMW M47T2, M57T2, M57TU, M67, N20, N26, N43, N45, N45T, N46, N46T, N47, N51, N52, N53, N54 & Mini W17 diesel/petrol chain drive engines. The tool can also be used to hold the flywheel when removing the timing chain for cylinder head work.

**OEM Tools:** 11.8.180, 11.8.181, 11.8.182, 11.8.183, 11.8.184, 11.8.185

**Applications:**

**BMW 1 Series:** (F20/21) (12-15), 116i (04-12), 118i (04-14), 120i (04-14), 130i (05-07), 135i (07-11), 116d (08-12), 118d (04-14), 120d (04-14), 123d (07-14), M Coupe (11-12)

**BMW 3 Series:** (F30/31) (12-15), 316ti (04-14), 316i (04-11), 316d (09-12), 318i (04-07), 318ti/Compact (2004), 318d (03-12), 318td (03-07), 320d (01-07), 320d Compact (01-05), 318i (05-13), 320d (07-14), 320i (05-14), 320si (05-06), 323i (05-11), 325i (05-14), 325d (06-10), 330d (05-08), 330i (06-13), 335d (05-13), 335i (05-11)

**BMW 4 Series:** 420i F32 (13-15), 428i F32 (13-15), 420i F33 Cabriolet (14-15), 428i F33 Cabriolet (14-15), 420i F36 (14-15), 428i F36 Gran Coupe (14-15)

**BMW 5 Series:** (F10/11) (10-15), 520d (05-10), 520i (07-10), 523i (03-10), 525d (05-10), 525i (05-10), 525i (07-10), 530d (03-10), 530i (05-10), 535d (04-10)

**BMW 6 Series:** 630i (04-11), 635d (07-11)

**BMW 7 Series:** 730d (05-08), 730i (02-08)

**BMW X Series:** X1 E84 (09-15), X3 E83 (03-14), X5 E53 (03-14), X3 F25 (11-15), X6 E71/72 (08-10)

**BMW Z Series:** Z4 E85/86 (04-09), Z4 (E89) (11-15)

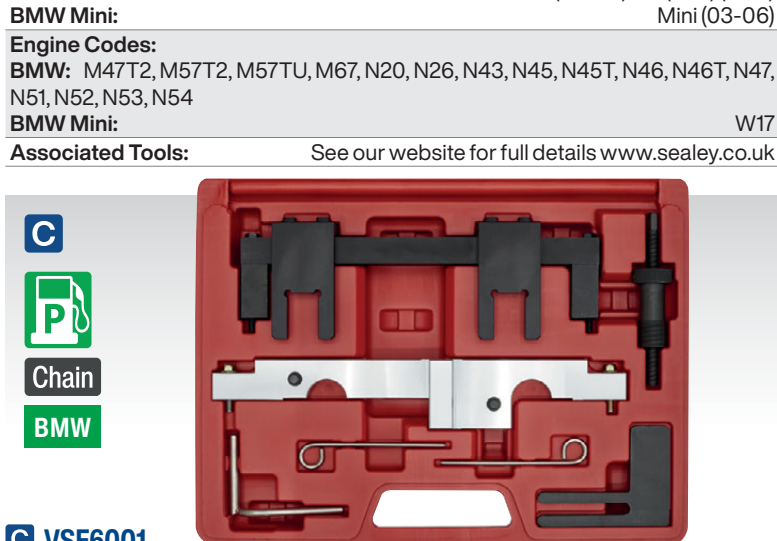
**BMW Mini:** Mini (03-06)

**Engine Codes:**

**BMW:** M47T2, M57T2, M57TU, M67, N20, N26, N43, N45, N45T, N46, N46T, N47, N51, N52, N53, N54

**BMW Mini:** W17

**Associated Tools:** See our website for full details [www.sealey.co.uk](http://www.sealey.co.uk)

**C VSE6001****Timing Tool Kit - BMW 1.6/2.0 N43 - Chain Drive**

Suitable for setting and adjusting the timing on 1.6 and 2.0 BMW N43 petrol engines. Kit contains the necessary tools for aligning the Vanos units on the inlet and exhaust camshafts.

**OEM Tools:** 11.8.690 (11.8.691/11.8.692/11.8.693), 11.9.340 (11.9.341/11.9.342), 11.8.710 (11.8.711/11.8.712), 11.3.340, 11.5.120, 11.8.700

**Applications:**

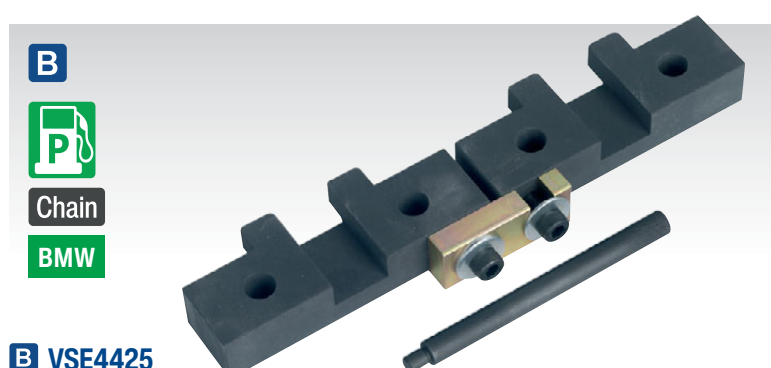
**BMW 1 Series:** 116i E81/82/87/88 (07-12), 118i E81/82/87/88 (06-14), 120i E81/82/87/88 (06-14)

**BMW 3 Series:** 316i E90/91/92/93 (07-11), 318i E90/91/92/93 (07-13), 320i E90/91/92/93 (07-14)

**BMW 5 Series:** 520i E60/61 (07-10)

**Engine Codes:** B16A/AA, B16AA, B16AA/OO, B20A, B20A/AA, B20AA, B20AY, B20K0, B20U0

**Associated Tool:** **VSE5660** - Flywheel Holding Tool - BMW, BMW Mini - Chain Drive (see **A**)

**B VSE4425****Timing Tool Kit - BMW M42/M50/M52/M52TU/M54/M56 - Chain Drive**

Suitable for setting and locking popular BMW petrol engines. Kit comprises camshaft locking tools and flywheel locking pin.

**OEM Tools:** 11.2.300, 11.3.240

**Applications:**

**BMW 3 Series:** 318iS E36 (92-99), 318ti Compact E36 (94-01), 320i E36/E46 (92-07), 323i E36/E46 (95-01), 325i E36/E46 (92-07), 328i E36/E46 (95-01), 330i E46 (00-07)

**BMW 5 Series:** 520i E39/E60 (96-05), 523i E39 (96-01), 525i E39/E60 (00-05), 528i E39 (96-00), 530i E39/E60 (00-05)

**BMW 7 Series:** 728i E38 (94-02), 730i E65 (02-05)

**BMW Z Series:** Z3 E36 2.0-3.0 (97-03), Z4 E85 2.2-3.0 (03-06)

**BMW X Series:** X3 E83 2.5-3.0 (03-07), X5 E53 3.0 (99-07)

**Engine Codes:**

**1.8:** 18 4S 1

**1.9:** 19 4S 1

**2.0:** 20 6S 2, 20 6S 3, 20 6S 4

**2.2:** 22 6S 1

**2.5:** 25 6S 2, 25 6S 3, 25 6S 4, 25 6S 5

**2.8:** 28 6S 1, 28 6S 2

**3.0:** 30 6S 3

**D VSE6198****Oil Pump & Balance Shaft Alignment Kit - BMW 2.0 N20/N26 - Chain Drive**

Suitable for BMW N20 and N26 2.0L engines. Use in conjunction with Model No. VSE6188 Timing Tool Kit. Supplied in a storage case with instructions.

**OEM Tools:** 22.12.825, 23.18.117, 11.4.120

**Applications:**

**BMW 1 Series:** 125i (12-16)

**BMW 2 Series:** 220i Coupe F22; 228i (14-16), 220i Coupe (14-16), 228i Coupe (14-16), 220i Cabriolet (15-16)

**BMW 3 Series:** 320i xDrive (12-16), 328i (12-15), 328i xDrive (12-15)

**BMW 4 Series:** 420i F32 x-Drive Coupe (13-16), x-Drive Gran Coupe (14-16), 420i F33 Cabriolet (14-16)

**BMW 5 Series:** 520i (11-17), 528i xDrive (11-17)

**BMW X1:** xDrive 20i (11-15), sDrive 20i (11-15), xDrive 28i (11-15)

**BMW X3:** xDrive 20i (11-17)

**BMW X4:** xDrive 40i (14-18)

**BMW Z4:** sDrive 20i (11-17), sDrive 28i (11-16)

**Engine Codes:** N20B20, N20B20A, N20B20B, N20B20/UO, N20B20OO, N26B20

**Associated Tool:** **VSE6188** - Timing Tool Kit - BMW 2.0 N20/N26 - Chain Drive (see page 383)

**A**



Chain

BMW  
MINI



**A VSE2398**

**Crankshaft Turning/Holding Kit - BMW/Mini - Chain Drive**

Crankshaft turning and flywheel locking tool. Designed to turn the crankshaft without removing the pulley fixing bolts. Flywheel locking plate fits manual and automatic gearbox vehicles. Suitable for petrol and diesel engines. Supplied in a storage case with warning tag and instructions.

**OEM Tools:** 11.6.480, 11.9.811, 11.9.265, 11.4.180

**Applications:**

**BMW:** 116i (15-19), 116d (15-19), 118d (15-19), 120d (15-19), 125d (15-19), M140i (16-19), 214d (15-19), 216i (18-19), 216d (14-20), 218d (17-19), 218i (15-21), 220d (14-20), 225d (15-20), M240i (16-19), 316d (15-19), 318i (15-19), 320d (15-19), 325d (16-20), 330i (15-20), 340i (15-19), 418i (15-20), 420d (15-20), 425d (16-18), 430i (16-20), 440i (16-19), 518d (14-17), 525d (17-20), 530i (17-18), 540i (17-19), 620d (18-20), 630i (17-19), 640i (17-19), 725d (16-19), 730i (15-19), 740i (15-19), X1 (15-20), X2 (18-19), X3 (14-18), X4 (17-20), X5 (15-18), i8 (14-18)

**Mini:** Mini Hatch (14-21), Cabriolet (16-19), Clubman (15-19), Countryman (17-19)

**Engine Codes:**

**1.2 Petrol:** B38A12A  
**1.5D:** B37C15A, B37D15A  
**1.5 Petrol:** B38A15A, B38B15A, B38K15A  
**2.0D:** B47D20A, B47D20B, B47C20A, B47C20B  
**3.0 Petrol:** B58B30A

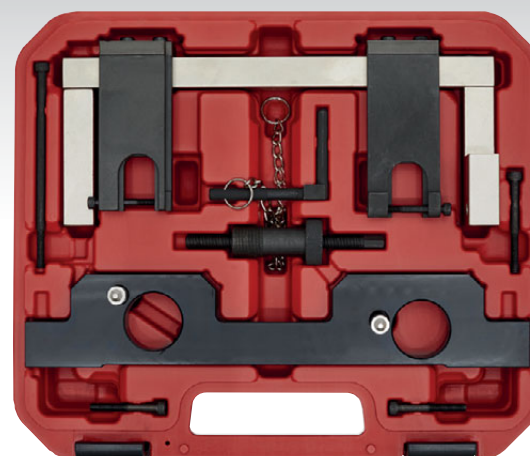
**Associated Tools:** VSE6121A - Timing Tool Kit - BMW/Mini 1.5, 1.6, 2.0, 3.0 - Chain Drive (see page 380)

**B**



Chain

BMW



**B VSE6188**

**Timing Tool Kit - BMW 2.0 N20/N26 - Chain Drive**

Covers a wide range of BMW 2.0 litre petrol engines. Includes tools required for positioning and securing the camshafts and crankshaft into their timing positions. Also includes tools for setting the Vanos unit position and for setting the timing chain pre-tension.

**OEM Tools:** 11.9.340, 8302212831, 83302212830, 2219548

**Applications:**

**BMW 1 Series (F20/21):** 125i (12-16)  
**BMW 2 Series (F22):** 220i Coupe F22; 228i (14-16), 220i Coupe (14-16), 228i Coupe (14-16), 220i Cabriolet (15-16)  
**BMW 3 Series (F30/31):** 320i xDrive (12-16), 328i (12-15), 328i xDrive (12-15)  
**BMW 4 Series (F32/33):** 420i F32 xDrive Coupe (13-16), xDrive Gran Coupe (14-16), 420i F33 Cabriolet (14-16)  
**BMW 5 Series (F10/11):** 520i (11-17), 528i xDrive (11-17)  
**BMW X1 (E84):** xDrive 20i(11-15), sDrive 20i(11-15), xDrive 28i(11-15)  
**BMW X3 (F25):** xDrive 20i (11-17)  
**BMW X4 (F26):** xDrive 40i (14-18)  
**BMW Z4 (E89):** sDrive 20i (11-17), sDrive 28i (11-16)

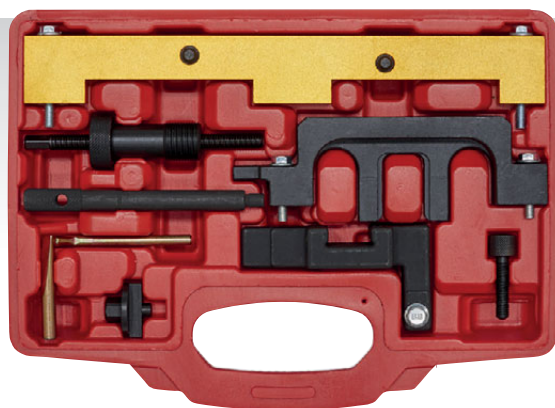
**Engine Codes:** N20B20, N20B20A, N20B20B, N20B20/0U, N20B2000, N26B20

**C**



Chain

BMW



**C VSE5911A**

**Timing Tool Kit - BMW 1.8, 2.0 N42/N46/N46T - Chain Drive**

Suitable for setting and adjusting the timing on N42 and N46 engines with the Valvetronic system. Also includes tools to align the twin Vanos unit.

**OEM Tools:** 11.5.120, 11.9.190, 11.9.270, 11.9.291, 11.9.292, 11.9.293, 11.9.340, 11.9.350

**Applications:**

**BMW 1 Series:** 118i E81/82/87/88 (04-14), 120i E81/82/87/88 (04-14)  
**BMW 3 Series:** 316i/ti Compact E46 (01-07), 318i/ti Compact E46 (01-07), 318i E90/91/92/93 (05-12), 320i E90/91/92/93 (05-12)  
**BMW 5 Series:** 520i E60/61 (07-10), Z4 2.0 E85/86 (04-09)  
**BMW X Series:** X1 sDrive 18i E84 (10-12), X1 xDrive 18i E84 (10-12), X3 2.0 E83 (05-10)

**Engine Codes:**

**1.8:** N42; B18A, N46; B18  
**2.0:** N42; B20A, N46; B20, B20B, N46T; B20, B20B, B20BD, B20BZ, B20O2, B20O2

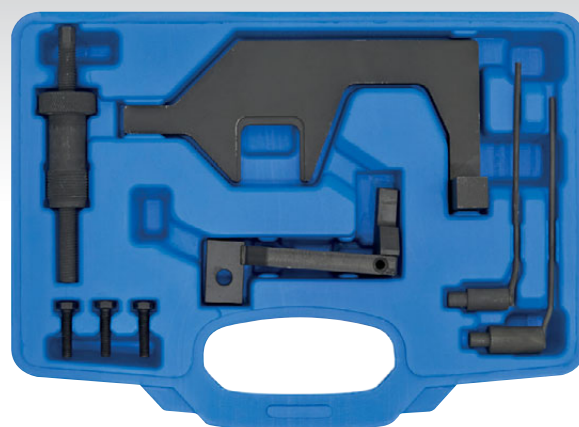
**Associated Tools:** VSE6156 - Balance Shaft Alignment Tool Kit - BMW, Mini, Citroen, Peugeot - Chain Drive (see page 384)

**D**



Chain

BMW  
MINI



**D VSE5982**

**Timing Tool Kit - BMW, BMW Mini 1.6 - Chain Drive**

Covers a wide range of BMW and Mini chain drive petrol engines. Includes the necessary tools for setting and locking the camshafts and crankshaft, and a tool for setting the timing chain pre-tension.

**OEM Tools:** 11.9.340, 11.7.440, 496.709

**BMW:** 11.9.340, 11.7.440, 496.709  
**Mini:** 11.9.340, 11.7.440, 11.9.590

**Applications:**

**BMW:** 114i (12-15), 116i (12-15), 118i (11-15), 316i (12-15)  
**Mini:** Cooper S (R56/57) (10-15), Coupe Cooper S (R58) (12-15), Roadster (R59) (12-15), Countryman (R60) (12-17), Paceman R61 (13-17), Clubman (R55) (11-14)

**Engine Codes:** N13 B16A, N18 B16/MO, N18 B16A, N18 B16A/MO, N18 B16A/MO, N18B16C, N18B16C/TO, N18B16MO



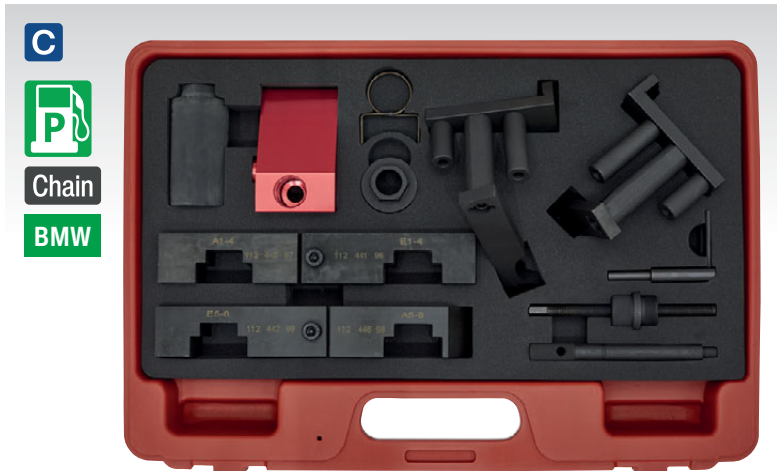


**A SEE BELOW**

**50ml High Strength Stud Lock**

High strength stud locking adhesive for all types of metal. Rapid fixing time of 15-20 minutes on normal plated, oiled metal surfaces and fixtures. Works on steel, aluminium, stainless steel and zinc.

<b>Model No:</b>	<b>Pack Quantity:</b>
SCS271S	1
SCS271	12
<b>Fixture Time:</b>	15-20min @ 23°C
<b>Full Cure Time:</b>	24hr @ 23°C



**C VSE5555**

**Timing Tool Kit - BMW, Land Rover, Morgan M60/M62 Chain Drive**

Comprehensive kit for BMW, Land Rover and Morgan chain drive M60 and M62 Series engines. The kit also includes the essential tooling for setting the Vanos units, and correctly positioning the inlet camshaft sensor plates.

<b>OEM Tools:</b>	
<b>BMW:</b>	11.2.445, 11.2.441, 11.2.442, 11.2.446, 11.4.230/11.3.390, 11.5.180, 11.2.300, 11.6.420, 11.6.452, 11.6.451, 11.3.310, 11.6.440, 11.7.380
<b>Land Rover:</b>	LRT 12-223/2, LRT 12-223/1, LRT 12-223/3, LRT 12-223/4, LRT 12-222, LRT 12-227, LRT 12-226, LRT 12-228/1, LRT 12-228/2, LRT 12-220, LRT 12-224, LRT 12-221
<b>Morgan:</b>	M62
<b>Applications:</b>	
<b>BMW 5 Series:</b>	530i E34 (93-95), 540i E34 (93-95), 535i E39 (96-98), 535i E39 with Vanos (97-03), 540i E39 (96-98), 540i E39 with Vanos (98-03)
<b>BMW 7 Series:</b>	730i E38 (92-96), 735i E38 (96-97), 735i E38 with Vanos (98-02), 740i E38 (92-98), 740i E38 with Vanos (99-01)
<b>BMW 8 Series:</b>	840i E31 (92-96), 840i E31 with Vanos (96-97)
<b>BMW X Series:</b>	X5 E53 (99-04)
<b>Land Rover:</b>	Range Rover (02-05)
<b>Morgan:</b>	Aero 8 (00-04)
<b>Engine Codes:</b>	
<b>3.0:</b>	308S1
<b>3.5:</b>	358S1, 358S2
<b>4.0:</b>	408S1
<b>4.4:</b>	448S1, 448S2, V8/448S2, Morgan M62
<b>4.6:</b>	468S1

**B VSE6156**

**Balance Shaft Alignment Tool Kit BMW, BMW Mini, Citroen, Peugeot - Chain Drive**

Essential tools for the removal/installation of the timing chain assembly on a range of BMW, BMW Mini and PSA petrol engines. Kit includes balance shaft aligners, crankshaft gear holding tools and chain tensioner locking pin. Timing Tool Kits covering engine timing are available separately for each engine.

<b>OEM Tools:</b>	11.3.340, 11.4.360, 11.5.140, 11.9.280, 11.9.330
<b>Applications:</b>	
<b>BMW 1 Series:</b>	116i E81/82/87/88 (04-09), 118i E81/82/87/88 (04-14), 120i E81/82/87/88 (04-14), 125i E82 (07-12), 130i E81/87 (05-12), 135is E82 (07-12)
<b>BMW 3 Series:</b>	316i/ti Compact E46 (01-07), 316i E90/91/92/93 (05-14), 318i/ti Compact E46 (01-07), 318i E90/91/92/93 (05-12), 320i E90/91/92/93 (05-12), 323i E90/91/92/93 (04-11), 325i E90/91/92/93 (04-12), 330i E90/91/92/93 (04-14), 335i E90/91/92/93 (04-14)
<b>BMW 5 Series:</b>	520i E60/61 (07-10), 523i E60/61 (04-10), 525i E60/61 (04-10), 530i E60/61 (05-10)
<b>BMW 6 Series:</b>	630i E63/64 (04-11)
<b>BMW 7 Series:</b>	730i E65/66 (04-12)
<b>BMW X Series:</b>	X1 sDrive 18i E84 (10-12), X1 xDrive 18i E84 (10-12), X3 2.0 E83 (05-10), X3 2.5/3.0 E83 (06-10), X5 3.0 E70 (06-10)
<b>BMW Z Series:</b>	Z4 2.0 E85/86 (04-09), Z4 2.5/3.0 E85/86 (05-09)
<b>BMW Mini:</b>	Clubman (R55) (08-14), Cooper S R55/56 (06-10), Cooper R55/56 (06-10), Mini One R56 (07-10), Mini (R56/57) (08-15), Cooper R58 (11-15)
<b>Citroen:</b>	Berlingo (09-16), C3 Picasso (09-15), C3 III (10-15), C4 Picasso/Grand Picasso (08-13), C4 (08-11), C4 II (11-15), C5 III (09-14), DS3 (04-15), DS4 (11-15), DS5 (12-15)
<b>Peugeot:</b>	207 (06-13), 207CC (07-15), 208 (13-15), 2008 (13-15), 308 (07-15), 308CC (09-15), 3008 (09-15), 508 (11-15), 5008 (09-15), Partner III (09-16), RCZ (10-16)

<b>Engine Codes:</b>	
<b>BMW:</b>	N40; B16A, N42; B18A, B20A, N45T; B16AC, N46; B18, B20, B20B, N46T; B20, B20B, B20BD, B20BZ, B20O2, N52; B25A, B25AE, B30, B30A, B30A/OO, B30AF, B30F, B30U1, N52K; B25A, B25AE, B25AF, B25AF/O1, B25BE, B25U1, B30A, B30AE, B30AF, N53; B25A, B30A, N54; B30A, B30A/AA, B30T0
<b>BMW Mini:</b>	N12; B14, B14AB, B16A, N14; B16A, B16CD, B16CD/T0
<b>PSA:</b>	EP3(8FP), EP3(8FS), EP3C(8FN), EP3C(8FP), EP3C(8FR), EP6(5FP), EP6(5FW), EP6C(5FH), EP6C(5FK), EP6C(5FS), EP6C(5FW), EP6CDT(5FE), EP6CDT(5FM), EP6CDT(5FN), EP6CDT(5FV), EP6CDTE(5FR), EP6CDTM(5FE), EP6CDTM(5FM), EP6CDTX(5FU), EP6DT(5FT), EP6DT(5FX), EP6DTE(5FR), EP6DTE(5FX), EP6DTS(5FD), EP6DTS(5FF), EP6DTS(5FY)
<b>Associated Tools:</b>	VSE5911A - Timing Tool Kit - BMW N42/N46/N46T 1.8, 2.0 Chain Drive (see page 383), VSE6131 - Timing Tool Kit - BMW Mini, Citroen, Peugeot - Chain Drive (see page 381)

**A**



Chain

**MERCEDES  
CHRYSLER  
JEEP**



**A VSE4801**

**Timing Tool Kit - Mercedes, Chrysler, Jeep**

Essential tool for timing chain work on Mercedes 1.7D, 2.1D, 2.2D, 2.7D, 3.0D, 3.2D, 3.9D and 4.0D CDI diesel engines. The link separating tool and the link assembly tool allow for quick and easy separation and assembly of the timing chain. May also be used on some Chrysler/Jeep 2.2D, 2.7D and 3.0D CRD diesel engines.

**OEM Tools:**

**Mercedes:** 602.589.023.300, 602.589.046.300, 602.589.046.301, 602.589.003.900, 602.589.026.300, 602.589.036.300, 112.589.069.300

**Chrysler:** 9312, 8947

**Applications:**

**Mercedes:** A-Class 168 (98-05), C-Class 202 (98-01), C-Class 203 (00-08), C-Class 204 (07-14), E-Class 210 (98-03), E-Class 211 (03-10), E-Class 212 (09-16), E-Class Coupe/Cabriolet 207 (09-15), CLS 219 (05-11), CLS 218 (11-18), S-Class 220 (99-06), S-Class 221 (05-13), CLC-Class (08-12), CLK 209 (02-09), GLK 204 (08-12), G-Class 463 (00-15), Vito 639 (10-14), Sprinter 906 (09-14)

**Chrysler:** 300C (05-11), PT Cruiser (02-09)

**Jeep:** Grand Cherokee (01-11), Commander (05-11)

**Engine Codes:**

**1.7D CDI:** 668.940, 668.941, 668.942

**2.1D CDI:** 646.811, 646.812, 646.820, 646.821, 646.951, 646.961, 646.962, 646.963, 646.966

**2.2D CDI/CRD:** 611.960, 611.961, 611.962

**2.7D CDI/CRD:** 612.961, 612.962, 612.965, 612.967, 647.961

**3.0D CDI/CRD:** 642.830, 642.832, 642.834, 642.836, 642.838, 642.850, 642.852, 642.853, 642.854, 642.856, 642.858, 642.862, 642.868, 642.886, 642.910, 642.920, 642.921, 642.922, 642.930, 642.932, 642.960, 642.961, 642.970, EXL(642.980)

**3.2D CDI:** 613.960, 613.961, 648.960, 648.961

**3.9D CDI:** 628.960, 628.961

**4.0D CDI:** 628.962, 629.910, 629.911

**C**



Belt

**CHRYSLER  
JEEP  
LDV**



**C VSE5056**

**Timing Tool Kit - Chrysler, Jeep, LDV - 2.5D CRD, 2.8D CRD Belt Drive**

Covers engine timing and balance shaft setting on 2.5 & 2.8CRD diesel engines in Chrysler, Jeep and LDV models. Contains camshaft, crankshaft and balance shaft locking pins plus tensioner adjuster. Supplied in storage case.

**OEM Tools:**

**Chrysler/Jeep:** VM1052, VM1053, VM1068, VM1080, VM8873, VM1056

**LDV:** LDV192, LDV193, LDV196, H2587

**Applications:**

**Chrysler:** Voyager (01-08), Grand Voyager (01-08)

**Jeep:** Cherokee (01-08)

**LDV:** Maxus (05-09)

**Engine Codes:**

**2.5D CRD:** R2516C, R2516K, R2516LVM39/40B

**2.8D CRD:** R2816C5.05A, R2816K4

**B**



Chain

**MERCEDES  
CHRYSLER  
JEEP**



**B VSE4802**

**Timing Tool Kit - Mercedes, Chrysler, Jeep**

Timing chain splitting and fitting tool kit. Enables timing chain replacement with the minimum of engine dismantling. Suitable for Mercedes chain drive engines, and some Chrysler and Jeep applications. The kit includes tools to split the chain and also the temporary chain links required to fit the new chain. Supplied in a storage case with instructions.

**OEM Tools:**

**Mercedes:** 602.589.023.300, 602.589.003.900, 602.589.036.300, 112.589.069.300, 602.589.026.300, 602.589.046.301, 602.589.026.300, 602.589.026.400, 602.589.024.000, 103.589.016.300, 602.589.046.300

**Applications:**

**Chrysler:** 300C (05-11), PT Cruiser (02-09)

**Jeep:** Commander (05-11), Grand Cherokee (01-11)

**Mercedes:** A-Class (98-12), B-Class (05-12), C-Class (98-13), CL-Class (99-07), CLC-Class (08-12), CLK-Class (98-09), CLS (05-18), E-Class (97-16), GLK-Class (08-12), G-Class (00-15), M-Class (98-07), R-Class (05-07), S-Class (98-13), SL-Class (98-07), Viano (03-10), Vito (03-10)

**Engine Codes:**

**1.4:** 166.94

**1.5:** 266.920

**1.6:** 166.960

**1.7:** 266.940

**1.7D CDI:** 668.940, 668.941, 668.942

**1.9:** 166.990

**2.0:** 266.960, 266.980

**2.1D CDI:** 646.811, 646.812, 646.820, 646.821, 626.951, 626.961, 626.962, 626.963, 626.966

**2.2 CDI/CRD:** 611.960, 611.961, 611.962

**2.4:** 112.910, 112.911

**2.6:** 112.912, 112.913, 112.914, 112.915, 112.916

**2.7D CDI/CRD:** 612.961, 612.962, 612.965, 612.967, 647.961

**2.8:** 112.920, 112.921, 112.922, 112.923

**3.0D CDI/CRD:** 642.830, 642.832, 642.834, 642.836, 642.838, 642.850, 642.852, 642.853, 642.854, 642.856, 642.858, 642.862, 642.868, 642.886, 642.910, 642.920, 642.921, 642.922, 642.930, 642.932, 642.960, 642.961, 642.970, 642.990

**3.2D CDI:** 613.960, 613.961, 648.960, 648.961

**3.2:** 112.940, 112.942, 112.943, 112.944, 112.946, 112.947, 112.951, 112.953, 112.955

**3.9D CDI:** 628.960, 628.961

**4.0D CDI:** 628.962, 629.910, 629.911

**4.3:** 113.940, 113.941, 113.942, 113.943, 113.948

**5.0:** 113.960, 113.961, 113.963, 113.964, 113.965, 113.966, 113.967, 113.968, 113.969, 113.971

**D**



Chain

**MERCEDES**



**D VSE4310**

**Belt Tensioner Compression Tool - Mercedes - Chain Drive**

Tool for a range of Mercedes A - Class vehicles. Suitable for hydraulic tensioners fitted to vehicles with a stop/start function and/or air conditioning. Attempting to compress the tensioner without using this tool may result in damage to the tensioner.

A

CITROEN  
PEUGEOT  
FIAT  
FORD

Belt

**A VSE5930****Timing Tool Kit - Ford, Fiat, Citroen, Peugeot 1.4D/1.5D/1.6D/2.0D/2.2D TDCi-HDi - Belt Drive**

Specialised timing tool kit covering belt replacement applications on a comprehensive range of PSA 1.4, 1.5, 1.6, 2.0 and 2.2HDi common rail diesel engines as well as some Fiat 2.0D and 2.2D JTD/Multijet common rail diesel engines. Includes tools for adjustable crankshaft timing gear. Kit includes engine locked warning tag.

**OEM Tools:**

**Fiat:** 1.867.030.000, 1.868.630.000  
**Ford:** 303-732, 303-734, 303-735  
**PSA:** 0188-P2, 0188-F, 0188-Y, 0188-D, 0188-X, 0194-B, 0194-A, 0194-C, 0188-M, 0153-AL, 0188-AH, 0188-Q, 0188-J1, 0188-J2, 0188-K

**Applications:**

**Citroen:** Berlingo (99-16), Berlingo III (14-18), C1 (05-10), C2 (03-10), C3 (02-17), C3 IV (16-18), C4 (04-13), C4 Picasso/Grand Picasso (14-18), C4 Aircross (12-18), C4 II (14-18), C4 III (14-18), C5 (00-15), C8 (02-10), C-Crosser (07-12), DS3 (10-18), DS4 (11-13), DS5 (12-15), Evasion/Synergie (99-06), Dispatch (99-18), Jumpy & Relay (99-12), Jumpy IV (16-18), Jumper (99-12), Nemo (08-10), Picasso (99-06), Xantia (98-01), Xsara (99-06)

**Fiat:** Ulysse (02-06), Scudo (99-07)

**Ford:** B-Max (15-18), EcoSport (15-18), Fiesta (02-20), Fusion (02-11)

**Peugeot:** 107 (05-10), 1007 (05-10), 206 (99-06), 208 (14-18), 2008 (14-18), 306 (99-02), 307 (01-06), 308 (14-18), 3008 (14-18), 406 (00-06), 406 Coupe (98-04), 4008 (12-18), 508 (14-18), 5008 (14-18), 607 (00-06), 806 (99-02), 807 (02-06), Boxer (02-06), Expert (99-06), Expert IV (16-18), Partner (99-06), Partner III (14-17), Traveller (16-20)

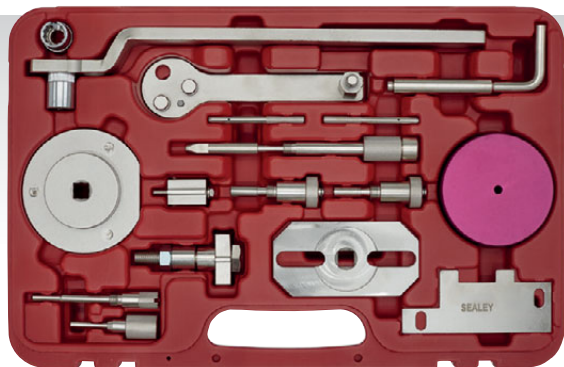
**Engine Codes:** For full list of Engine Codes, please visit [www.sealey.co.uk](http://www.sealey.co.uk)

C



Belt

Chain

CITROEN  
PEUGEOT  
FIAT  
IVECO**C VSE5036****Timing Tool Kit - Fiat, Ford, Iveco, PSA - 2.2D/2.3D/3.0D Belt/Chain Drive**

Used for timing 2.2/2.3/3.0D belt and chain diesel drive engines, including the later chain in head versions, usually found in light commercial vehicles. Features a water sensor installation socket, crankshaft turning tool, timing cover centring plate, oil pump setting plate as well as camshaft and crankshaft locking tools. These engines are also found in the Ford Transit. Supplied in storage case.

**OEM Tools:**

**Fiat/Iveco:** 1.860.617.000/99360608, 2.000.016.500/99360614, 2.000.018.200/99360615  
**Citroen/Peugeot:** 0191/2A, 0191/2B, 0198A, 0198B2, 0198D, 0198G  
**Ford:** 303-698, 303-705/21-256

**Applications:**

**Citroen:** Relay/Jumper III (06-12)

**Fiat:** Ducato (02-13)

**Iveco:** Daily (03-10), Daily/EcoDaily (09-11)

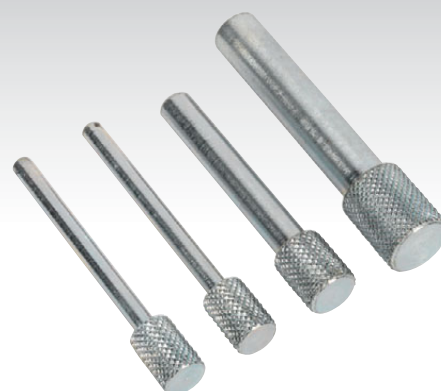
**Peugeot:** Boxer III (06-12)

**Engine Codes:** For full list of Engine Codes, please visit [www.sealey.co.uk](http://www.sealey.co.uk)

B

CITROEN  
PEUGEOT  
FORD  
MAZDA  
SUZUKI  
TOYOTA  
VOLVO

Belt

**B VSE5846****Timing Tool Kit - PSA, Ford, Volvo 1.4D/1.5D/1.6D HDi/TDCi - Belt Drive**

Set of locking pins for timing belt replacement on Ford 1.5, PSA 1.4 (DV4) and 1.6 (DV6) diesel engines fitted in Citroen, Peugeot, Ford, Mazda, Suzuki, Toyota and Volvo models. These timing pins lock and hold the camshaft, crankshaft, flywheel and HP pump in the timed position.

**OEM Tools:**

**Flywheel Locking Pin (VSE5846.01):** 303-734 (21-262) (Ford), 49JE02-020 (Mazda), 0194-C (PSA), 09910-05410 (Suzuki), 999-7169 (Volvo)

**Camshaft/HP Fuel Pump Locking Pins (VSE5846.02):** 11-0-790 (BMW), 303-735 (212-263) (Ford), 49JE02-021 (Mazda), 0194-B (PSA), 09910-05410 (Suzuki), 999-7122 (Volvo)

**Crankshaft Locking Pin (VSE5846.03):** 11-0-300 (BMW), 303-732 (21-260) (Ford), 49JE02-018 (Mazda), 0194-A (PSA), 09910-05410 (Suzuki), 999-7121 (Volvo)

**Applications:**

**Citroen:** Berlingo I/II (05-11), Berlingo III (08-18), Berlingo IV (14-19), C1 (05-10), C2 (03-10), C3 I/II (02-10), C3 III (10-18), C3 III IV (16-18), C3 Picasso (09-12), C3 Pluriel (04-10), DS3 (09-12), C4 (04-11), C4 II (11-18), C4 Picasso/Grand Picasso (06-18), C5 II (04-08), C5 III (07-12), DS4 (11-12), Nemo (08-10), Xsara II (04-08), Xsara Picasso (04-10)

**Ford:** B-Max (12-18), C-Max (07-15), EcoSport (13-18), Fiesta (02-21), Focus (04-18), Focus C-Max (03-18), Fusion (04-11), Grand C-Max (10-18), Tourneo Courier (14-16)

**Mazda:** 2 (02-10), 3 (04-12), 5 (10-12)

**Peugeot:** 107 (05-10), 1007 (05-10), 206 (01-12), 206+ (10-13), 206CC (05-07), 207 (06-13), 207CC (07-15), 208 (12-18), 2008 (12-17), 307 (01-08), 308 (07-18), 308CC (09-17), 3008 (09-18), 407 (04-11), 4008 (12-15), 508 (11-18), 5008 (09-18), Bipper (08-10), Expert (10-12), Partner I/II (05-11), Partner III (08-18), Rifter (18-19), Traveller (16-20)

**Suzuki:** Liana (04-08), SX4 (07-11)

**Toyota:** Aygo (05-10)

**Volvo:** C30 (06-13), S40 (04-12), S60 (11-15), S80 (09-15), V40 (12-15), V50 (04-12), V60 (11-15), V70 (11-15)

**Engine Codes:**

**1.4D:** F6JA, F6JB

**1.4D D-4D:** ZWZ-TV

**1.4D DDiS:** (DV4)8HY

**1.4D HDi:** DV4C(8HR), DV4TD(8HT), DV4TD(8HW), DV4TD(8HX), DV4TD(8HZ), DV4TED(8HS), DV4TED4(8HX), DV4TED4(8HY), DV4TED4(8HV)

**1.4D TDCi:** F6JA, F6JB, F6JC, F6JD, KVJA

**1.5D TDCi:** ENUG, UGCA, UGJC, XUJA, XUJB, XUJC, XUJF, XUJG, XUJH, XUJK, XUJL, XUJN, XUJM, XWDA, XWDB, XWDC, XWDD, XWDE, XWJB, XWJC, XXDA, XXDB, XXDC, XXDD

**1.6D:** Y6, MZ-CD(Y6)

**1.6D DDiS:** DV6(9HX)

**1.6D eDrive:** D4162T, D4164T

**1.6D eHDi:** DV6C(9HR), DV6FC(BHW), DV6FC(BHX), DV6FC(BHY), DV6FC(BHZ), DV6FDU(BHV), DV6FCU(BHX), DV6FDU(BHS)

**1.6D HDi:** DV6(9HR), DV6ATED(9HX), DV6ATED(9HY), DV6ATED4(9HX), DV6AUTED4(9HX), DV6BTED4(9HT), DV6BTED4(9HW), DV6BUTED4(9HT), DV6C(9HL), DV6C(9HR), DV6C9(HR), DV6CATED(9HX), DV6D(9HP), DV6DTED(9HJ), DV6DTED(9HP), DV6ETED(9HN), DV6DTED(9HF), DV6FD (BHY), DV6FE (BHW), DV6TED(9HP), DV6TED4(9HV), DV6TED4(9HW), DV6TED4(9HX), DV6TED4(9HY), DV6TED4(9HZ), DV6TED4B, DV6TED4B(9HV), DV6TED4BU(9HS), DV6UTED4(9HU), DV6UTED4(9HX), DV6UTED4(9HV)

**1.6D TDCi:** G8DA, G8DB, G8DD, G8DE, G8DF, GPDA, GPDC, HHDA, HHDB, HHJA, HHJB, HHJC, HHJD, HHJE, HHJF, MTD, NGDA, T1DA, T1DB, T3DA, T3DB, T3JA, T3JB, TZJA, TZJB, UBJA

**1.6D TDCi ECOnetic:** G8DD, GPDA, HHJD, TZJA, TZJB

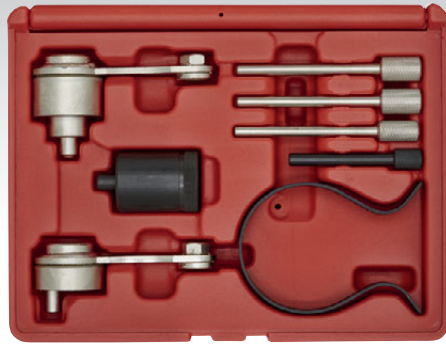
**2.0D HDi:** DW10FC(AHH), DW10FD(AHX)

**A**

**CITROEN  
PEUGEOT  
JAGUAR  
LAND ROVER**



Belt



**A VSE5000A**

**Timing Tool Kit**

**Citroen, Jaguar, Land Rover, Peugeot 2.7D/3.0D - Belt Drive**

Suitable for timing belt replacement on 2.7 and 3.0 V6 diesel engines fitted in Citroen, Jaguar, Land Rover (TDV6) and Peugeot vehicles. Kit contains camshaft locking and checking pins, flywheel locking tools, coolant pump pin and belt retaining clip.

**OEM Tools:** 303-1116, 303-1117, 303-1126, 303-1132, 0188-K, 0195-C, 0195-H, 0195-K

**Applications:**

**Citroen:** C5 III (07-14), C6 (05-09)  
**Jaguar:** S-Type (04-08), XF (08-20), XJ (10-20), XJ6 (05-10), F-Pace (16-20)  
**Land Rover:** Discovery (17-18), Discovery 3 (04-09), Discovery 4 (09-17), Range Rover (12-20), Range Rover Sport (05-20), Range Rover Velar (17-20)  
**Peugeot:** 407 (04-09), 407 Coupe (06-12), 607 (04-11)

**Engine Codes:**

**2.7D/TDV6/TDV:** 276DT, 7G  
**2.7D HDi:** DT17BTED4(UHZ)  
**3.0D HDi:** D20CTED4(X8Z), DT20C(X8C), DT20C(X8Z)  
**3.0D SDV6/TDV6:** AJV6D, 306DT, AJ-V6D/306DT

**Associated Tool:** **VSE5312** - Fuel Pump Holding Tool - Jaguar, Land Rover 3.0D - Belt Drive (see page 401)

**B**

**FORD  
CITROEN  
PEUGEOT  
MAZDA**



Belt



**B VSE50422**

**Camshaft Sprocket Puller - Ford, Citroen, Peugeot, Mazda - Belt Drive**

3-Legged puller specifically designed to remove the camshaft sprocket on Ford, Citroen, Peugeot and Mazda diesel engines without causing damage to the pulley.

**Applications:**

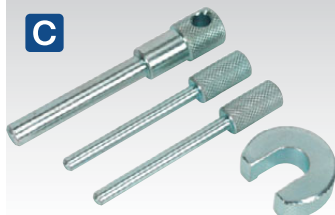
**Citroen:** C3 III (10-15), DS3 (10-15), Xsara II (00-15), Xsara Picasso (99-10), C4 (04-11), C4 II (11-15), C4 Picasso/Grand Picasso (10-15), C4 Aircross (12-15), C5 (00-05), C5 II (04-08), C5 III (10-15), DS4 (11-15), Xantia (98-01), Synergie/Evasion (99-03), C8 (02-15), Nemo (08-10), Berlingo I/II (99-11), Berlingo III (08-15), Dispatch/Jumpy (99-07), Dispatch/Jumpy II (07-15), Relay/Jumper (01-02)  
**Ford:** C-Max (10-15), Courier (00-02), Fiesta (08-11), Fusion (02-11), Focus (11-15), Galaxy (07-15), Kuga (10-15), Mondeo (06-15), S-Max (06-15), Tourneo Connect (02-06), Transit Connect (02-06)  
**Mazda:** 2 (DE/DH) (02-10)

**Peugeot:** 107 (05-10), 1007 (05-10), 206 (01-09), 206CC (05-07), 208 (12-14), 306 (99-02), 307 (01-06), 307CC (05-09), 308 (11-14), 308CC (09-14), 407 (08-11), 407 Coupe (07-12), 508 (11-14), RCZ (10-14), 2008 (13-14), 3008 (10-14), 4008 (12-14), 5008 (10-14), Bipper (08-10), Partner/Partner Origin/Ranch I/II (05-11), Partner III (08-14)

**C**

**CITROEN  
PEUGEOT  
FIAT  
IVECO  
RENAULT  
VAUX/OPEL**

Belt



**C VSE5976**

**Timing Tool Kit - Fiat, Iveco, PSA, Renault, GM 2.5D/2.8D - Belt Drive**

Includes locking pins for 2.5D and 2.8D diesels and later 2.8DTi/JTD/HDi variants of this popular van engine. Also includes a tensioner retaining tool which retains the tension plunger in a retracted position during the belt change.

**OEM Tools:** 1.860.617.000/99360608-A60617/Mot910/KM-966, 1.860.638.000, Mot1054/KM-6031

**Applications:**

**Citroen:** Relay/Jumper (01-02), Relay/Jumper II (02-06)  
**Fiat:** Croma (86-97), Ducato (86-06), Talento (87-94)  
**Iveco:** Daily (91-06), Turbo Daily (91-00)  
**Peugeot:** Boxer (00-02), Boxer II (02-06)  
**Renault:** Mascot (99-07), Master (89-98), Master II (98-01), Trafic (80-00)  
**Vauxhall/Opel:** Arena (97-01), Movano-A (98-03)

**Engine Tools:**

**2.5D/DT:** 8140.07, 8140.27, 8140.47, 8140.97, 8144.21, 8144.61, 8144.67, 8144.91, 8144.97, 8140.27S, 8140.47R, 8140.67F.37, 8144.97Y, S8U 720, S8U 722, S8U 730, S8U 731, S8U 742, S8U 748, S8U 750, S8U 752, S8U 758, S8U 770, S8U 772, S8U 780, S8U 782, S9U 700, S9U 702, S9U 704, S9U 714, S9U 740  
**2.8D/TDi/HDi/dCi:** 8140.43S, 8140.43, 8140.63, 8140.23.37, 8140.23.38, 8140.43.37, 8140.43B, 8140.43C, 8140.43N, 8140.43R, 8140.43S, S9W 206, S9W 208, S9W 212, S9W 700, S9W 702

**D**



Belt

**CITROEN  
PEUGEOT**



**D VSE5046**

**Timing Tool Kit - Citroen, Peugeot TU3/ET3 1.4 8v/16v - Belt Drive**

Suitable for PSA ET3 code twin camshaft engines. Supplied with timing tools required for timing belt replacement on TU3 1.4 single camshaft engines. Kit includes camshaft and flywheel locking pins, tensioner locking pin and timing belt retaining clip.

**OEM Tools:** 4533-T.AC1/0132-AJ1/ 0189-B/0178-B/0188-M/01194-B, 0132-RZ/4507-TB, 4507-TA/0132-QY, 4200-TH/0153-AL, 4533-TAD/0132-AK/0188-K/0153-AK/0189-K/0153-AE, 0178-D/0194-A/0132-AB/4527-TS2/5711-TD, 4507-TA/0132-QY

**Applications:**

**Citroen:** Berlingo I/II/First (97-11), C2 (03-10), C3 I/II/First/Classic (02-10), C3 III (10-13), C3 Pluriel (03-10), C4 (04-11), Nemo (08-15), Saxo (96-03), Xsara I/II (97-04)  
**Peugeot:** 1007 (05-10), 206 (98-09), 206+ (09-13), 207 (06-13), 307 (01-08), Bipper (08-15), Partner (05-11)

**Engine Codes:**

**1.4 8v:** TU3A/JP/L3/L4 (KFT, KfV, KfW, KfX)  
**1.4 16v:** ET3J4 (KfU)

**E**



Belt

Chain

**CITROEN  
PEUGEOT  
FIAT  
IVECO**



**E VSE5037**

**Timing Tool Kit - Citroen, Fiat, Iveco, Peugeot - 2.3D/3.0D - Belt/Chain Drive**

Suitable for setting and locking Fiat 2.3D JTD diesel engine (belt driven), Fiat 3.0D JTD diesel engine (chain driven) and Citroen/Peugeot 3.0D HDi diesel engine (chain driven). Set comprises camshaft setting pins, crankshaft locking pin and sensor locking pin.

**OEM Tools:**

99360614/(-).0191/2.B, 99360615/2.000.018.200/(-).191/2.A, 99360608/1.860.617.000

**Applications:**

**Citroen:** Relay/Jumper III (06-14)  
**Fiat:** Ducato (02-11)  
**Iveco:** Daily (03-10), Daily/EcoDaily (09-11)  
**Peugeot:** Boxer III (06-14)

**Engine Codes:**

**2.3D:** F1AE0418A, F1AE0481B, F1AE0481C, F1AE0481D, F1AE0481F, F1AE0481FA, F1AE0481G, F1AE0481H, F1AE0481HA, F1AE0481N, F1AE0481R, F1AE0481UA, F1AE0481VA  
**3.0D:** F1CE01481D, F1CE0441F, F1CE0481A, F1CE0481B, F1CE0481F, F1CE0481FA, F1CE0481H, F1CE3418M, F1CE3481CC, F1CE3481LC  
**3.0HDI:** F30DTE; (F1CE0481D), (F1CE3481DM), (F1CE3481N)



**A VSE5941**

**Timing Tool Kit - Ford, Mazda, PSA 1.4/1.5/1.6/1.8/2.0 TDCi/HDi Belt Drive**

Comprehensive kit covers Ford, Mazda and PSA 1.4, 1.5, 1.6, 1.8, 2.0 TDCi/HDi belt drive diesel engines. Includes camshaft, crankshaft and high pressure pump locking tools plus camshaft sprocket removal tool. Kit includes warning tag.

**OEM Tools:**

**Ford:** 303-393, 303-393/01, 303-376B, 303-651, 303-193, 303-1059, 303-732, 303-734, 303-735

**Mazda:** 303-732, 303-734, 303-735

**PSA:** 0194-A, 0194-C, 0194B

**Applications:**

**Citroen:** C1 (05-10), C2 (03-10), C3 I/II (02-10), C3 III (10-15), C3 Pluriel (04-10), C3 Picasso (09-12), C4 (04-11), C4 II (11-15), C4 Picasso (06-12), C4 Grand Picasso (10-12), DS3 (09-12), DS4 (11-12), DS5 (12-15), C5 II (04-08), C5 III (04-12), Xsara II (02-04), Xsara Picasso (04-10)

**Ford:** B-Max (15-18), Courier (00-02), C-Max (03-10), EcoSport (15-18), Fiesta (02-20), Focus (98-11), Fusion (02-11), Galaxy (06-10), Kuga (06-10), Mondeo (07-10), S-Max (06-10), Tourneo Connect (02-13), Transit Connect (02-13)

**Mazda:** 2 (02-15), 3 (09-14)

**Peugeot:** Bipper (08-10), Dispatch/Jumpy III (07-12), Expert III (07-12), Nemo (08-10), Partner I/II (05-11), Partner III (08-16), 107 (05-10), 1007 (05-10), 206 (01-12), 206+ (09-13), 206CC (05-07), 207 (06-13), 207CC (07-15), 208 (11-15), 307 (01-08), 308 (07-15), 308CC (09-15), 407 (05-11), 508 (04-15), 2008 (13-15), 3008 (09-15), 4008 (12-15), 5008 (09-15) Traveller (16-20)

**Engine Codes:**

**1.4 TDCi:** DV4TD(8HT), DV4TD(8HX), DV4TD(8HZ), DV4TD(8HW), DV4TED4(8HX), DV4TED4(8HV), DV4TED4(8HY), DV4C(8HP), DV4C(8HR), DV4TED(8HS), F6JA, F6JB, F6JC

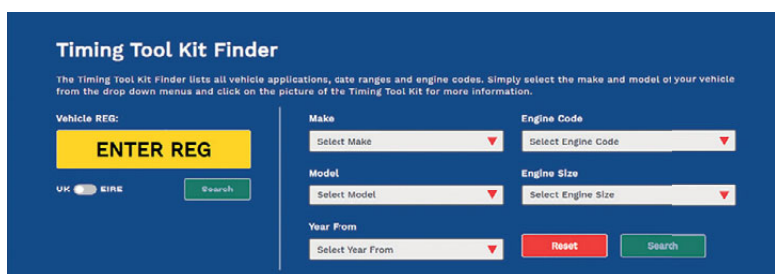
**1.6 TDCi:** DV6TED4(9HZ), DV6ATED4(9HX), DV6TED4(9HY), DV6DTED(9HP), DV6C(9HR), DV6CATED(9HX), DV6C(9HL), DV6TED(9HP), DV6ATED(9HY), DV6TED4(9HV), DV6TED4(9HX), DV6C(9HD), DV6C(BHX), DV6C(BHZ), DV6(9HR), DV6BTED4(9HW), DV6DTED(9HJ), DV6ETED(9HN), DV6TED4BU(9HS), DV6BTED4(9HT), DV6BUTED4(9HT), DV6TED4B(9HV), DV6UTED4(9HX), DV6TED(9HD), DV6UTED4(9HU), DV6D(9HP), DV6TED4(9HV), DV6C(9HD), DV6TED4(9HW), DV6AT(9HX), DV6ATED(9HX), DV6CTED(9HC), DV6AUTED4(9HX), DV6TED4B, DV6DTED(9HF), HHJA, HHJB, G8DA, G8DB, HHDA, HHDB, MZ-CD, Y6

**1.8 TDCi:** BHPA, C9DA/B, FFBA, G6DA, G6DB, G6DC, HCPA, HCBP, KKDA, P7PA, P9PA, R2PA, R3PA, RWPA

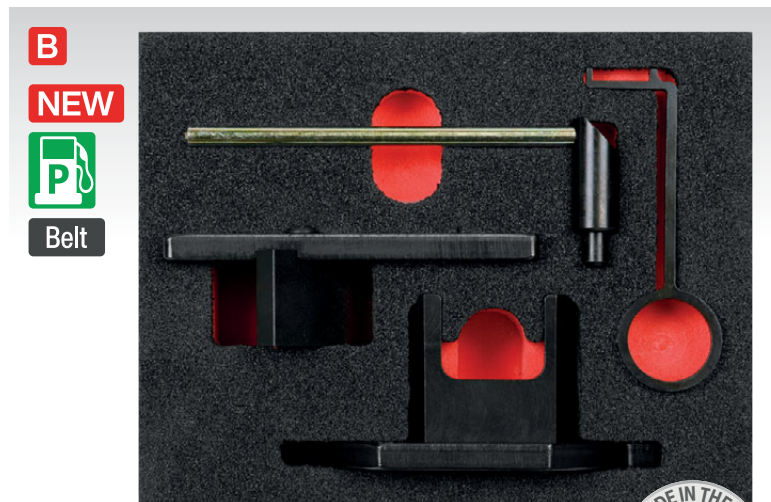
**1.8 D:** C9DC, RTN, RTQ

**1.8 TDi:** C9DA/B, C9DC

**2.0 TDCi/HDi:** AZWA, G6DA, G6DB, G6DC, RHE(DW10CTED4), QXWA, QXWB



Use our online Timing Tool Kit Finder to search for kits, [www.sealey.co.uk](http://www.sealey.co.uk)



**B VS5255**

**Engine Timing Check Kit 1.2 GDI PureTech for PSA - Belt Drive**

This kit provides an accurate and time saving method to check the timing belt for deterioration and stretch. Belt stretch may lead to incorrect camshaft timing. Supplied in a storage foam with full instructions.

**OEM Tools:**

**Citroen:** 0109-6, 0109-2B0109-2C, 0109-2D, 0197-N

**Peugeot:** 0109-6, 0109-2B0109-2C, 0109-2D, 0197-N

**Vauxhall:** EN-52127-2

**Applications:**

**Citroen:** Berlingo IV (18-20), C1II (14-18), C3 III (12-17), C3 IV (16-18), C4 Cactus (14-20), C4 Aircross (18-20), C-Elysee (12-18), DS3 (12-18)

**Peugeot:** 108 (14-18), 208 (12-21), 2008 (13-21), 301 (12-20), 308 (13-21), 3008 (16-21), 508 (19-21), 5008 (14-21), Partner III (15-18) Partner IV (18-21) Rifter (19-21)

**Toyota:** Aygo (14-18)

**GM:** Crossland X (17-20), Combo E (18-20), Grandland X (17-20)

**Engine Codes:**

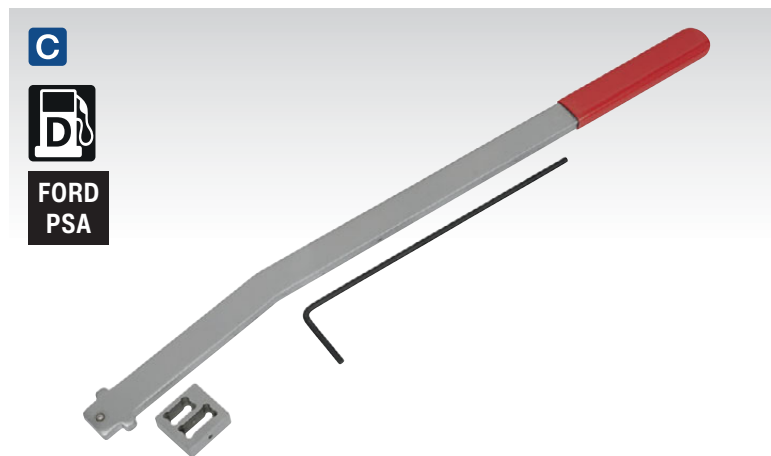
**1.2 VTi:** 1PP(HM01), EB2 (HMZ), EB2DTS(HNY), EB2 (HMW), EB2M (HMY), EB2 (HMZ), EB2DTS(HNY), HMP (EB2FB), HMT(EB2D), HMU(EB2D), HMV (EB2M), HMY (EB2M), HMZ (EB2), HMZ (EB2D), HMZ (EB2F), HMZ (EB2FB)

**1.2 E-VTi:** HMZ (EB2F), EB2F (HMZ)

**1.2 PureTech THP:** HNZ (EB2DT)

**1.2 PureTech VTi:** EB2ADS (HNS), EB2D(HMT), EB2ADJ (HNP), EB2ADT (HNC), EB2ADTX (HNN), EB2DTS (HNW), EB2DTM (HNV), EB2DTSM (HNW), EB2FA (HMR), EB2FAD (HMH), EB2FAD (HMM), EB2DT (HNZ), EB2F (HMX), EB2F (HMT), EB2F(HMZ), EB2DTS(HNY), EB2M(HMY)

**Associated Tools:** VSE5092 - Petrol Engine Timing Tool Kit (see page 390)



**C VSE6299**

**Auxiliary Belt Tensioner Wrench - Ford, PSA**

Designed to provide a safe and controlled method of adjusting the belt tensioner when removing/refitting the auxiliary belt. Suitable for Ford and PSA 1.4D and 1.6D diesel engines.



**A VS5300MK**

**48pc Master Timing Tool Kit - PSA - Belt/Chain Drive**

Master Timing Tool Kit for PSA vehicles. Covers a wide range of petrol and diesel engines. Suitable for popular PSA vehicles from 1993 to present. Also suitable for a small range of GM vehicles. Supplied in a high quality storage foam suitable for toolbox drawers. Foam Size: 560 x 390 x 45mm.

**Applications:**

**Citroen:** Berlingo I (99-07), Berlingo II (97-07), Berlingo III (02-18), BX (93-94), C-Crosser (07-12), C-Elysee (10-18), C1 (05-10), C2 (02-10), C1 II (14-20), C15 (93-02), C3 I (02-10), C3 II (02-10), C3 Classic (02-10), C3 III (05-17), C3 Picasso (14-17), C3 Pluriel (03-10), C4 (04-11), C4 II (11-18), C4 Cactus (14-18), C4 II Picasso (06-18), C4 II Grand Picasso (06-15), C4 Space Tourer (2018), C5 (00-04), C5 II (04-10), C5 III (10-15), C6 (06-11), C8 (02-15), Dispatch I (99-07), Dispatch II (07-12), Dispatch III (07-16), Jumpy I (94-07), Jumpy II (99-07), Jumpy III (07-16), DS3 (14-15), DS4 (11-15), DS5 (12-15), Relay I (94-06), Relay II (02-06), Jumper I (97-06), Jumper II (99-07), Jumper III (07-12), Nemo (08-15), Saxo (96-03), Synergie (99-02), Xsara I (97-00), Xsara II (00-10), Xsara Picasso (95-10), Xantia (95-01)

**Peugeot:** 106 (97-03), 1007 (05-10), 107 (05-10), 108 (14-18), 206 (98-09), 206CC (00-07), 206+ (01-13), 207+ (12-14), 2008 (13-18), 208 (12-21), 301 (12-20), 306 (96-03), 307 (01-09), 308CC (03-09), 3008 (09-21), 308 (07-21), 308CC (09-15), 406 (96-04), 406 Coupe (99-06), 4007 (07-10), 407 (04-11), 407 Coupe (07-09), 5008 (09-21), 508 (09-21), 605 (95-00), 607 (00-11), 806 (98-02), 807 (02-15), Bipper (08-15), Boxer (94-02), Boxer II (01-06), Expert I (99-16), Expert II (99-16), Expert III (07-16), Expert IV (16-20), Partner I (99-11), Partner II (99-11), Partner III (08-18), Partner IV (18-21), Rifter (19-21), RCZ (14-20), Traveller (16-20)

**GM:** Combo E (18-20), Crossland X (18-20), Grandland X (17-20)

**Engine Codes:**

**1.0:** EBOF (ZMZ), EBO (ZMZ), CDY (TU9MY), CDZ (TU9MY), CDY (TU9M/L3), CDZ (TU9ML), TU9M (CDY), TU9M (CDZ)

**1.1:** HFX (TU1JP), HFX (TU1V), HFV (TU1A), HFX (TU1JP/L4), HDY (TU1M/L3), HDZ (TU1M/L3), HMZ (TU1M/L3), TU1JP (HFX), TU1JP (HFY), TU1JP (HFZ)

**1.2:** HNZ (EB2DT), HMZ (EB2F), HMZ (EB2), HNY (EB2DTS), HMY (EB2M), HMV (EB2M), HMU (EB2D), EB2ADT (HMK), EB2ADJ (HNP), EB2D (HMT), EB2 (HMZ), EB2DT (HNZ), EB2F (HMX), EB2F (HMZ), EB2DTS (HNY), EB2FA (HMR), EB2M (HMY), HNZ (EB2DT), B2ADTS/LEG, EB2ADJ (HNP), EB2DTM (HNV), EB2DTS/LEG, EB2ADTS(HNS)/LES/D12, EB2ADT (HNP)/LES/D12XHT, EB2ADTS(HNS)/LES/D12XHT, EB2DTS/LES/B12XHT, EB2ADT/LES, EB2DT/LES, EB2F/LES, EB2FA/LEZ, EB2FAD (HMH), EB2FAD (HMM)

**1.4:** 8HT (DV4TD), TU3JP/IFL4 (KFX), TU3A (KFT), KFV (TU3A), TU3A (KFV), TU3JP (KFV), TU3A (KFW), ET3JP4 (KFU), TU3JP/L3 (KFX), ET3J4 (KFU)

**1.4D:** 8HS (DV4TED), 8HT (DV4TD), 8HW (DV4TD), 8HX (DV4TD), 8HV (DV4TED4), 8HX (DV4TED4), 8HY (DV4TED4), 8HZ (DV4TD), DV4TD (8HT), DV4TD (8HX), DV4TD (8HZ)

**1.5:** TUD5B (VJY), TUD5 (VJY), TUD5 (VJZ), TUD5B (VJX)

**1.6:** NFP (EC5F), NFS (TU5JP4S), NFT (TU5JP/L4), NFU (TU5JP4), NFU (TU5JP4/L4), NFV (TU5JP/L4), NFX (TU5JP4/L3), TU5J2 (NFW), TU5J4 (NFU), TU5J4/L3 (NFX), TU5J4/L4 (NFX), TU5JP (NFT), TU5JP/L3 (NFZ), TU5JP4 (NFU/NFZ), TU5JP4B (NFR)

**1.7D:** 161A (XUD7/L), XUD7 (161A)

**1.8:** EW7A (6FY), 6FY (EW7A), EW7J4 (6FZ), LFX (XU7JB/L3), LFY (XU7JP4/L3), LFZ (XU7JP/L3), XU7JB (LFX)

**1.9D:** WJY (DW8B/LW4), WJY (DW8B), WYZ (DW8B/L4), WJZ (DW8/L/W3), (DHX) XUD9UTF, (DJY) XUD9Y

**2.0:** RFN (EW10J4R/L5), RFS (XU10J4RS/L3), RFN (EW10J4/L4), RFH (EW10A), RFW (XU10J2U), RFL (XU10J2U), EW10D (RLZ), EW10J4 (RFN), EW10J4 (RFR), EW10J4/L5 (RFN), EW10J4S (RFK), XU10J2U (RFL), XU10J2U/X3 (RFW), XU10J4R (RFV)

**2.0D:** RHD (DW10C), RHE (DW10CTED4), RHZ (DW10ATED), RHH (DW10C), RHH (DW10CTED4), RHD (DW10CTED4), RHK (DW10UTED4), RHM (DW10ATED4), RHR (DW10BTED4), RHT (DW10ATED4/L4), RHW (DW10ATED4), RHC (DW10CTED4), RHY (DW10TD), RHG (DW10UTED4), RHW (DW10JATED4), RHX (DW10ATED/L3), RHX (DW10BTED/L3), RHV (DW10UTD), DW10TD (RHY), DW10ATED (RHS), DW10BTED4 (RHR), DW10BTED4 (RHF), DW10FD (AHR), DW10FD (AHX), DW10FC (AHW), DW10CTED4 (RHC), DW10CTED4 (RHD), DW10CTED4 (RHE), DW10FD (AHV), DW10FD (AHS), DW10ATED (RHZ), DW10ATED4 (RHM), DW10BTED4 (RHL), DW10ATED4/L4 (RHT), DW10UTD (RHV), DW10CE (AHY), DW10BTED (RHX), DW10CD (AHZ), DW10CTED4 (RHH), DW10UTED4 (RHK)

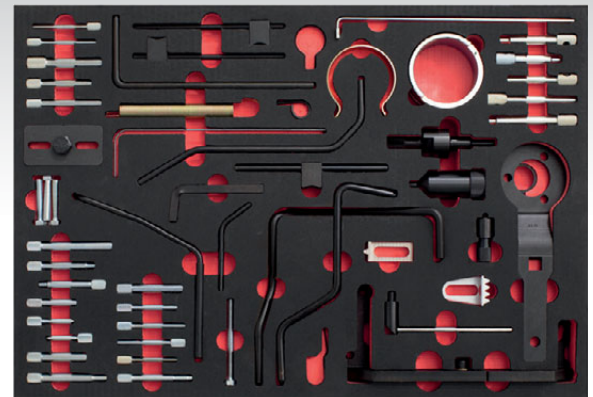
**2.2:** 3FZ (EW12J4/L5), 4HK (DW12MTED4), 4HL (DW12CTED4), 4HN (DW12MTED4), 4HP (DW12BTED4), 4HR (DW12BTED4), 4HS (DW12BTED4), 4HT (DW12BTED4), 4HW (DW12TED4/L4), 4HX (DW12TED4), 4HY (DW12UTED), DW12ATED (4HZ), DW12ATED4/L4 (4HW), DW12BTED4 (4HS/4HT), DW12MTED4 (4HN), DW12UTED (4HY), EW12J4 (3FY/3FZ), EW12J4/L5 (3FZ)

**2.5D:** T9A (DJ5), THX (DJ5TD), THX (DJ5TED), DJ5 (T9A), DJ5TED (THX)

**A**



Belt  
Chain



**B**



Belt



CITROEN  
PEUGEOT  
TOYOTA  
VAUXHALL

**B VSE5093**

**Crankshaft Holding Tool - Citroen, Peugeot, Toyota, Vauxhall 1.0/1.2 - Belt Drive**

Designed to counter-hold the crankshaft pulley to release and tighten the centre bolt. Suitable for 1.0 and 1.2 Citroen, Peugeot, Toyota and GM engines.

**OEM Tools:**

**Toyota:** 09960-10010

**Applications:**

**Citroen:** Berlingo IV (18-20), C1 II (14-18), C3 III (12-17), C3 IV (16-18), C4 Cactus (14-20), C4 Aircross (18-20), C-Elysee (12-18), DS3 (12-18)

**Peugeot:** 108 (14-18), 208 (12-22), 2008 (13-22), 301 (12-20), 308 (13-21), 3008 (16-21), 508 (19-21), 5008 (14-21), Partner III (15-18), Partner IV (18-21), Rifter (19-21)

**Toyota:** Aygo (14-18)

**Vauxhall:** Crossland X (17-20), Combo E (18-20), Grandland X (17-20)

**Engine Codes:**

**1.0 VTi:** EBO(ZMZ), EBOF(ZMZ), ZMZ(EBO)

**1.2 VTi:** HMZ (EB2F), EB2F (HMZ)

**1.2 PureTech THP:** HNZ (EB2DT)

**1.2 PureTech VTi:** EB2ADS (HNS), EB2D(HMT), EB2ADJ (HNP), EB2ADT (HMK), EB2ADTX (HNN), EB2DTS (HNW), EB2DTM (HNV), EB2DTSM (HNW), EB2FA (HMR), EB2FAD (HMH), EB2FAD (HMM), EB2DT (HNZ), EB2F (HMX), EB2F (HMT), EB2F(HMZ), EB2DTS(HNY), EB2M(HMY)

**C**

**C VSE5590**

**Fuel Pump Sprocket Puller - Ford Transit 2.2 Puma Diesel - Chain Drive**

Suitable for removing fuel pump sprocket on Ford 2.2 Puma chain drive diesel engines. From 2011 the fuel pump sprockets no longer have threaded holes fitted in them. This tool is a great time-saver as it allows the fuel pump to be removed without disturbing the timing chain.

**OEM Tools:**

303-249, 303-249/01

**Applications:**

**Ford:** Transit (11-14)

**Land Rover:** Defender (11-16)

**Engine Codes:**

**2.2D:** BG, ID4, QJBA

**2.2D TDCi:** CVRA, CVRB, CYFA, CYFB, CYRA, CYRB, DRFA, DRFB, DRRA, DRRB



Chain

FORD  
LAND ROVER

**A VS5200MK****36pc Master Timing Tool Kit - Ford - Belt/Chain Drive**

Master timing tool kit for Ford vehicles. Covers a wide range of petrol and diesel engines from 1.0 to 3.2. Suitable for popular Ford vehicles from 1993 to present. Supplied in a high quality storage foam suitable for toolbox drawers. Foam size 560 x 390 x 45mm.

**Applications:** B-Max (12-18), C-Max (03-20), Cougar (98-01), Courier (96-02), EcoSport (13-18), Edge (15-18), Escort (93-02), Fiesta (95-18), Focus (98-18), Fusion (02-11), Galaxy (06-18), Grand C-MAX (10-20), Grand Tourneo Connect (13-18), Kuga (08-20), Mondeo (00-19), Orion (93-94), Puma (97-02), Ranger (11-20), S-MAX (06-18), Tourneo Connect (02-18), Tourneo Courier (14-22), Tourneo Custom (12-16), Transit (00-18), Transit Connect (02-18), Transit Courier (14-22), Transit Custom (14-16)

**Engine Codes:**

**1.0:** M1CA, M1CB, M1DD, M2DC, M2DA, M1JA, M1JE, M1JH, SFJB, SFJA, SFJD, P4JA, P4JB, P4JC, P4JD, SFJE, XMJA, XMJB, XMJC, XMJD, M1JC, M1JJ, M2DB, M2GB, SFDA, SFDB, SFDC, M2GA, SFCA, SFCB, SFCC, SFCD, SFCE, SFCF

**1.25:** DHA, DHB, DHC, DHD, DHE, DHF, DHG, F8JA, F8JB, FUJA, FUJB, M7JA, M7JB, SNJA, SNJB, SNJC, SNJD, STJA, STJB, STJC, STJD

**1.4:** ASDA, ASDB, FXJA, FXJB, FXJC, FXDA, FXDB, FXDC, FXDD, RTJA, RTJB, RTJC, RTJD, RTJE, SPJA, SPJC, SPJD, SPJE

**1.4 TDCi:** F6JA, F6JB, F6JC, F6JD, UTJA

**1.5 EcoBoost:** ENUG, M8DA, M8DB, M8DD, M8DE, M8MA, M8MB, M9DA, M9DB, M9DG, M9DH, M9MA, M9MC, M9MD, M9ME, UEJA, UEJB, UEJE, UNCA, UNCB, UNCC, UNCD, UNCE, UNCF, UNCL, UNCK

**1.5 TDCi:** UGJC, XUJA, XUJB, XVJA, XVJC, XXDC, XXDA, XWDE, XWDD, XWDA, XWDC, XWDB, XWDC, XXDD, XXDE, XUJH, XVJB, XUJF, XUJG, XUJK, XXDB, XVGA, XUGA, XVGB, XVGC, XWGB, XWGA, UGCA, UGCB, XWCA, XWCB

**1.6:** FYDA, FYDB, FYDC, FYDD, FYDH, FYJA, FYJB, FYJC, HWDA, HWDB, HXDA, HXDB, HXJA, HXJB, IQDA, IQDB, IQDC, IQJA, IQJC, JQDA, JQDB, JQMA, JQMB, JTBA, JTBB, JTMA, JTWA, JTWB, JTDA, JTDB, JQGA, JTJA, JTJB, JTJC, LIT, LIV, L1W, KGBA, MUDA, MUDD, PNBA, PNDA, PNDD, RHBA, RVJA, SHDA, SHDB, SHDC, SIDA, U5JA, XTDA, XTDB

**1.6 TDCi:** G8DA, G8DB, G8DC, G8DD, G8DE, G8DF, GPDA, GPDB, GPDC, HHDA, HHDD, HHJA, HHJB, HHJC, HHJD, HHJE, HHJF, NGDA, MTDA, UBJA, T1BA, T1BB, T1BC, T1DA, T1DB, T1GA, T1WA, T1WB, T3DA, T3DB, TZJA, TZJB, T3JA, T3JB, UBGA

**1.7:** MHA, MHB

**1.8:** CDBB, CGBA, CGBB, CHBA, CHBB, CSDA, CSDB, EYDB, EYDC, EYDD, EYDE, EYDF, EYDG, EYDI, EYDJ, EYDL, EYPA, EYPC, QQDA, QQDB, QQDC

**1.8 TDCi:** BHDA, BHDB, BHPA, C9DA, C9DB, C9DC, F9DA, F9DB, FFBA, FFDA, FFWA, HCPA, HCPB, KHBA, KKDA, KKDB, P7PA, P7BA, P9PA, P9PB, Q7DA, R2PA, R3PA, RFD, RFK, RTJ, RTK, RTN, RTP, RWPA, RWPC, RWPD, RWPE, RWPF

**2.0:** ALDA, AOBA, AOBC, AODA, AODB, AODE, AOWA, AOWB, AZBA, AZBC, CJBA, CJBB, D3FA, D5BA, D6BA, EDDB, EDBB, EDBC, EDBD, EDDA, EDDC, EDDD, EDDF, HJBA, HJBB, HJBC, HJBE, HMDA, N4JB, SDBA, SYDA

**2.0 TDCi:** ABFA, AZWA, AZWC, FIFA, G6DA, G6DB, G6DC, G6DD, G6DE, G6DF, G6DG, T7DA, T7DB, T7DD, T7CE, T7CF, T7CJ, T7CK, T7CL, T7CN, T7CP, T7MA, T7MB, T8CC, T8CD, T8CH, T8CI, T8CJ, T8CL, T8DA, T8DE, T8MA, T8MB, T9CA, T9CB, T9CC, T9CE, TBBA, TBBB, TBWA, TBWB, TXBA, TXDA, TXDB, TYBA, YDA, TYWA, UFBA, UFBB, UFCA, UFCB, UFCD, UFDA, UFDB, UFMA, UFWA, UKBA, UKBB, UKDA, UKDB, UKMA, UKWA, XRMA, XRMB, XRMCA, FMBA, FMBB, KLBA, IXDA, KLWA, LPBA, N7BA, N7BB

**2.2 TDCi:** CRFF, CVF5, CVFF, CVR5, CVRA, CVRB, CYF5, CYFA, CYFB, CYFF, CYFG, CYR5, CYRA, CYRB, DRF5, DRFA, DRFB, DRFC, DRFG, DRR5, DRRB, GBVA, KNBA, KNBB, KNWA, KNWB, P8FA, P8FB, PGFA, PGFB, Q4BA, Q4WA, QJBA, QJBB, QJBC, QJBD, QVFA, QWFA, SRFA, SRFB, SRFC, SRFD, SRFE, UHFA, UHFV, UHR5, USRA, USRB, UYR6

**2.3:** GFZA, GFZB, GFZC, SEBA, SEWA

**2.4 TDCi:** D2FA, D2FB, DOFA, D4FA, F4FA, FXFA, H9FA, H9FB, H9FD, JXFA, JXFC, PHFA, PHFC

**3.2 TDCi:** SA2R, SAFA, SAFB

**B**

Belt

**CITROEN  
PEUGEOT  
TOYOTA**
**B VSE5092****Timing Tool Kit - PSA, GM, Toyota 1.0 VTi, 1.2 VTi - Belt Drive**

Contains the essential tools required for timing belt replacement on PSA, GM and Toyota 1.0 and 1.2 VTi Pure-Tech 3-cylinder belt drive petrol engines. Supplied in storage case with instructions and a warning tag.

**OEM Tools:**

**PSA:** 0109-2A, 0109-2B  
**GM:** EN52127-1, EN52127-2

**Applications:**

**Citroen:** Berlingo IV (18-20), C1II (14-18), C3 III (12-17), C3 IV (16-18), C4 Cactus (14-20), C4 Aircross (18-20), C-Elysee (12-18), DS3 (12-18)

**Peugeot:** 108 (14-18), 208 (12-22), 2008 (13-22), 301 (12-20), 308 (13-21), 3008 (16-21), 508 (19-21), 5008 (14-21), Partner III (15-18), Partner IV (18-21), Rifter (19-21)

**Toyota:** Aygo (14-18)

**Vauxhall:** Crossland X (17-20), Combo E (18-20), Grandland X (17-20)

**Engine Codes:**

**1.0 VTi:** EBO(ZMZ), EBOF(ZMZ), ZMZ(EBO)

**1.2 VTi:** 1PP(HM01), EB2(HMZ), EB2DTS(HNY), EB2(HMW), EB2M(HMY), EB2(HMZ), EB2DTS(HNY), HMP(EB2FB), HMT(EB2D), HMU(EB2D), HMY(EB2M), HMY(EB2M), HMZ(EB2), HMZ(EB2D), HMZ(EB2F), HMZ(EB2FB)

**1.2 E-VTi:** HMZ(EB2F), EB2F(HMZ)

**1.2 PureTech THP:** HNZ(EB2DT)

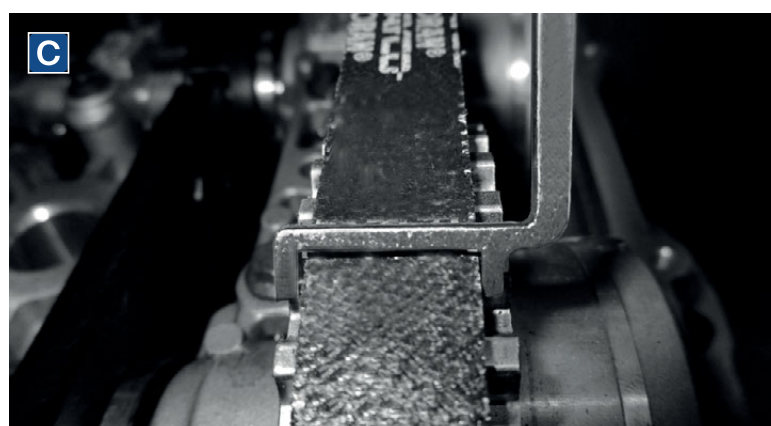
**1.2 PureTech VTi:** EB2ADS(HNS), EB2D(HMT), EB2ADJ(HNP), EB2ADT(HNK), EB2ADTX(HNN), EB2DTS(HNW), EB2DTM(HNV), EB2DTSM(HNW), EB2FA(HMR), EB2FAD(HMH), EB2FAD(HMM), EB2DT(HNZ), EB2F(HMX), EB2F(HMT), EB2F(HMZ), EB2DTS(HNY), EB2M(HMY)

**C**

Belt

**C VSE5094****Timing Belt Checking Gauge - PSA 1.0/1.2 - Belt Drive**

Suitable for 1.0 and 1.2 Citroen, Peugeot, Toyota and GM belt in oil engines. Fast and accurate way to check for belt degradation.



**A NEW**



Belt

**CITROEN  
PEUGEOT  
FORD**

**A VS5258**

**High Pressure Fuel Pump Sprocket Locking Pin PSA/Ford**

Designed to lock the high pressure fuel pump sprocket to enable the sprocket nut to be removed. Facilitates the removal of the high pressure fuel pump. Equivalent to OEM 0194-J. Use in conjunction with Model No. VSE5846 (see page 386).

**OEM Tool:** 0194-J

**Applications:**

**Citroen:** Berlingo (05-11), Berlingo II (05-11), Berlingo III (02-15), C2 (07-10), C3 (05-10), C3 II (08-10), C3 III (05-14), C3 Picasso (09-18), C4 (09-11), C4 II (11-13), C4 Picasso (05-16), C4 Grand Picasso (06-12), C5 II (04-08), C5 III (04-10), Dispatch (04-08), DS3 (05-12), DS4 (08-12), DS5 (08-12)

**Ford:** B-Max (06-13), C-Max (11-15), Grand C-Max (11-15), Fiesta (11-13), Focus (11-15), Galaxy (11-15), S-Max (11-15), Transit Connect (13-16), Tourneo Connect (13-15), Grand Tourneo Connect (13-15)

**Peugeot:** 1007 (06-10), 206 (04-07), 206 CC (05-07), 207 (06-13), 207 CC (07-15), 208 (11-15), 2008 (13-15), 301 (12-16), 307 (04-08), 308 (07-15), 308 CC (09-10), 3008 (09-15), 407 (05-11), 4008 (12-15), 508 (03-11), 5008 (05-14), Expert III (09-18), Partner (05-11), Partner II (05-10), Partner III (03-15), Rifter (18-19), Traveller (16-18)

**Volvo:** C30 (06-13), S40 (04-12), S60 (11-15), S80 (11-15), V40 (12-15), V50 (04-12), V60 (11-15), V70 (11-15)

**Engine Codes:**

**1.6HDI:** DV6TED4(9HZ), DV6TED4(9HY), DV6C(9HR), DV6ATED(9HX), DV6TED4(9HX), DV6C(9HL), DV6BTED4(9HW), DV6CTED(9HL), DV6CTED(9HR), DV6CTED(9HD), DV6AUTED4(9HX), DV6BTED4(9HT), DV6BUTED4(9HT), DV6DTE(9HE), DV6DTE(9HF), DV6ETED(9HN), DV6UTED4(9HU), DV6D(9HP), DV6TED4(9HV), DV6DTE(9HJ), DV6C(9HC), DV6CETEDM(9HK), DV6DTE(9HP), DV6CM(9HG), DV6TED4(9HW), DV6CTED(9HC), DV6CTED4(9HR), DV6CTED4(9HL), DV6TED4B(9HS), DV6TED4B(9HV), DV6DTE(9HJ), DV6FCU(BHX), DV6FCU(BHS), DV6FCU(BHV)

**1.6TDCi:** T3JB, T3DB, G8DF, T1WA, UBG, T1GA, D4164T, D4162T

**Associated Tool:** VSE5846 Timing Tool Kit - PSA, Ford, Volvo 1.4D/1.5D/1.6D HDi/TDCi - Belt Drive (see page 386)

**C**



Chain



**FORD  
CITROEN  
FIAT  
JAGUAR  
LAND ROVER  
LDV  
PEUGEOT**

**C VSE5842**

**Timing Tool Kit - Fiat, Ford, JLR, LDV, PSA 2.0D/2.2D/2.4D/3.2D - Chain Drive**

Provides timing retention for Ford 2.0, 2.2, 2.4 and 3.2 Duratorq 'Puma' chain diesel engines. Kit comprises Flywheel Locking Pins (common rail and non-common rail), Camshaft and Injection Pump Locking Pins, Tensioner Locking Pin.

**OEM Tools:**

**Ford:** 303-698 (21-251), 303-675 (21-234)

**Citroen/Peugeot:** 0198.B2, 0198.A, 0198.J

**Fiat:** 2.000.016.500, 2.000.017.100

**Jaguar:** 303-698

**Land Rover:** 303-698

**LDV:** LDV167, LDV173

**Applications:**

**Ford:** Mondeo (00-07), Ranger (11-17), Transit (00-14)

**Citroen:** Relay/Jumper III (06-12)

**Fiat:** Ducato (06-14)

**Jaguar:** X-Type (03-10)

**Land Rover:** Defender TD4 (06-11)

**LDV:** Convoy (02-06)

**Peugeot:** Boxer III (06-14)

**B**



Chain

**CITROEN  
PEUGEOT  
BMW  
MINI**



**B VSE6156**

**Balance Shaft Alignment Tool Kit - BMW, BMW Mini, Citroen, Peugeot - Chain Drive**

Essential tools for the removal/installation of the timing chain assembly on a range of BMW, BMW Mini and PSA petrol engines. Kit includes balance shaft aligners, crankshaft gear holding tools and chain tensioner locking pin. Timing tool kits covering engine timing are available separately for each engine.

**OEM Tools:** 11.3.340, 11.4.360, 11.5.140, 11.9.280, 11.9.330

**Applications:**

**BMW 1 Series:** 116i E81/82/87/88 (04-09), 118i E81/82/87/88 (04-14), 120i E81/82/87/88 (04-14), 125i E82 (07-12), 130i E81/87 (05-12), 135i E82 (07-12)

**BMW 3 Series:** 316i/ti Compact E46 (01-07), 316i E90/91/92/93 (05-14), 318i/ti Compact E46 (01-07), 318i E90/91/92/93 (05-12), 320i E90/91/92/93 (05-12), 323i E90/91/92/93 (04-11), 325i E90/91/92/93 (04-12), 330i E90/91/92/93 (04-14), 335i E90/91/92/93 (04-14)

**BMW 5 Series:** 520i E60/61 (07-10), 523i E60/61 (04-10), 525i E60/61 (04-10), 530i E60/61 (05-10)

**BMW 6 Series:** 630i E63/64 (04-11)

**BMW 7 Series:** 730i E65/66 (04-12)

**BMW X Series:** X1 sDrive 18i E84 (10-12), X1 xDrive 18i E84 (10-12), X3 2.0 E83 (05-10), X3 2.5/3.0 E83 (06-10), X5 3.0 E70 (06-10)

**BMW Z Series:** Z4 2.0 E85/86 (04-09), Z4 2.5/3.0 E85/86 (05-09)

**BMW Mini:** Clubman (R55) (08-14), Cooper S R55/56 (06-10), Cooper R55/56 (06-10), Mini One R56 (07-10), Mini R56/57 (08-15), Cooper R58 (11-15)

**Citroen:** Berlingo (09-16), C3 Picasso (09-15), C3 III (10-15), C4 Picasso/Grand Picasso (08-13), C4 (08-11), C4 II (11-15), C5 III (09-14), DS3 (04-15), DS4 (11-15), DS5 (12-15)

**Peugeot:** 207 (06-13), 207CC (07-15), 208 (13-15), 2008 (13-15), 308 (07-15), 308CC (09-15), 3008 (09-15), 508 (11-15), 5008 (09-15), Partner III (09-16), RCZ (10-16)

**Engine Codes:**

**BMW:** N40; B16A, N42; B18A, B20A, N45T; B16AC, N46; B18, B20, B20B, N46T; B20, B20B, B20BD, B20BZ, B20O2, N52; B25A, B25AE, B30, B30A, B30A/OO, B30AF, B30F, B30U1, N52K; B25A, B25AE, B25AF, B25AF/O1, B25BE, B25U1, B30A, B30AE, B30AF, N53; B25A, B30A, N54; B30A, B30A/AA, B30T0

**BMW Mini:** N12; B14, B14AB, B16A, N14; B16A, B16CD, B16CD/T0

**PSA:** EP3(8FP), EP3(8FS), EP3C(8FN), EP3C(8FP), EP3C(8FR), EP6(5FP), EP6(5FW), EP6C(5FH), EP6C(5FK), EP6C(5FS), EP6C(5FW), EP6CDT(5FE), EP6CDT(5FM), EP6CDT(5FN), EP6CDT(5FV), EP6CDTE(5FR), EP6CDTM(5FE), EP6CDTM(5FM), EP6CDTX(5FU), EP6DT(5FT), EP6DT(5FX), EP6DTE(5FR), EP6DTE(5FX), EP6DTS(5FD), EP6DTS(5FF), EP6DTS(5FY)

**Associated Tools:** VSE5911A - Timing Tool Kit - BMW N42/N46/N46T 1.8, 2.0 - Chain Drive (see page 383), VSE6131 - Timing Tool Kit - BMW Mini, Citroen, Peugeot - Chain Drive (see page 381)

**C VSE5842 Engine Codes:**

**2.0D:** ABFA, D3FA, D5BA, D6BA, F3FA, FIFA, FMBA, FMBA, HJBA, HJBB, HJBC, HJBE, N7BA, N7BB, SDBA

**2.2D HDi/Tdi:** 4HV, CVRB, CYFA, CYFB, CYFC, DRFA, DRFB, DRFC, P22DTE(4HG), P22DTE(4HH), P22DTE(4HJ), P22DTE(4HM), P22DTE(4HU), P22DTE(4HV), P8FA, P8FB, PGFA, PGFB, QJBA, QJBA(BG), QJBB, QJBC, QJBD, QVFA, QWFA, SRFA, SRFB, SRFC, SRFD, SRFE, UHFA, USRA

**2.4D Di/TDCi:** 244DT, D2FA, D2FB, D4FA, DOFA, F4FA, FXFA, H9FA, H9FB, H9FD, JXFA, JXFC, PHFA, PHFC, ZSD 424

**3.2D TDCi:** SAFA, SAFB

**Associated Tool:** VSE5944 - Auxiliary Belt Tension Tool (see page 396)





A



Belt

Chain

FORD

**A VSE5843**

**Timing Tool/Timing Chain/Pump Remove-Install Kit Ford 1.8D - Belt/Chain Drive**

Essential tools for timing belt replacement on 1.8D TDi/TDCi chain drive diesel engines fitted to Ford vehicles, also suitable for high pressure fuel pump "Wet Belt" applications. Features injection/high pressure pump sprocket holder and timing chain cover alignment tools. Supplied in storage case.

**OEM Tools:** 303-193 (21-104), 303-393 (21-168), 303-376 (21-162B), 303-652 (21-230), 310-095 (23-067)

**Applications:** C-Max (07-10), Courier (00-02), Fiesta (00-02), Focus (98-11), Focus C-Max (03-07), Galaxy (06-10), Mondeo (07-10), S-Max (06-14), Tourneo Connect (02-13), Transit Connect (02-13)

**Engine Codes:**

**1.8D TDCi:** BHBA, F9DA, F9DB, FFBA, FFDA, FFWA, HCPA, HCPB, KHBA, KKDA, KKDB, P7PA, P9PA, P9PB, QYBA, QYWA, R2PA, R3PA, RWPA, RWPC

**1.8D TDCi ECOnetic:** KHBA

**1.8D Tdi:** BHDA, BHDB, BHBA, C9DA, C9DB, C9DC

**1.8D Turbo:** C9DC, RTN, RTP, RTQ

**Associated Tool:** VSE50422 - Camshaft Sprocket Puller - Citroen/Ford/Peugeot/Mazda (see page 387)



C



Chain

FORD  
JAGUAR  
LAND ROVER

**C VSE5863**

**Timing Tool Kit Ford, Jaguar, Land Rover 2.2D/3.2D TDCi - Chain Drive**

Suitable for Ford 2.2TDCi Duratorq chain drive diesel engines. Includes useful crankshaft holding wrench, and a slimline camshaft locking pin to allow the exhaust camshaft sprocket to be removed with the pin in situ.

**OEM Tools:**  
**Ford/Jaguar:** 303-1310, 303-698, 303-732

**Applications:**  
**Ford:** Transit (06-18), Ranger (11-18)  
**Jaguar:** X-Type (05-10)  
**Land Rover:** Defender (11-16)

**Engine Codes:**

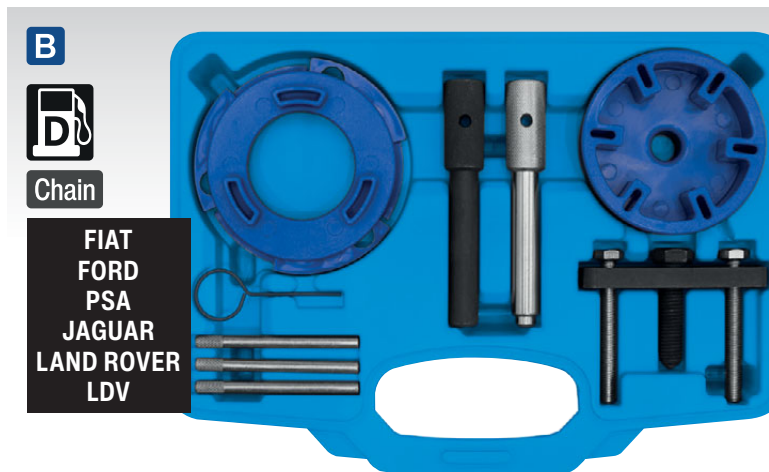
**2.2:** QJBA, BG, ID4

**2.2 TDCi:** CVFF, CVR5, CYFF, CYF5, CYR5, DRF5, DRFF, DRR5, GBVAJPF, GBVAJQJ, PGFA, PGFB, P8FA, P8FB, QVFA, QWFA, SRFA, SRFB, SRFC, SRFD, SRFE, UHFA, UHR5

**2.2D TDCi ECOnetic:** DRFC, DRFG, CYFC, CYFG

**2.2D TDCi HDT:** UYR6, USR6

**3.2D TDCi:** SAFA



B



Chain

FIAT  
FORD  
PSA  
JAGUAR  
LAND ROVER  
LDV

**B VSE6940**

**Timing Tool & Fuel Injection Pump Kit - Chain Drive**

Comprehensive timing tool kit for 2.0D, 2.2D and 2.4D Duratorq chain driven diesel engines fitted in Citroen, Fiat, Ford, Jaguar, Land Rover, LDV and Peugeot vehicles. Kit includes sprocket retaining plates for both early and later engines and access cover removal tools for injection pump removal/installation. Supplied in storage case with a warning tag.

**OEM Tools:**

**Ford:** 303-698, 303-675, 303-679A, 303-1151

**PSA:** 189-B2, 0189-A, 0188-P, 0189-J

**Fiat:** 2.000.016.500, 2.000.018.000

**Jaguar:** 303-698, 303-675, 303-679A, 303-1151

**Land Rover:** 303-698, 303-675, 303-679A, 303-1151

**LDV:** LDV167, LDV173

**Applications:**

**Citroen:** Relay/Jumper III (06-13)

**Fiat:** Ducato (06-11)

**Ford:** Mondeo (00-07), Transit (00-14)

**Jaguar:** X-Type (03-10)

**Land Rover:** Defender TD4 (06-11)

**LDV:** Convoy (02-06)

**Peugeot:** Boxer III (06-12)

**Engine Codes:**

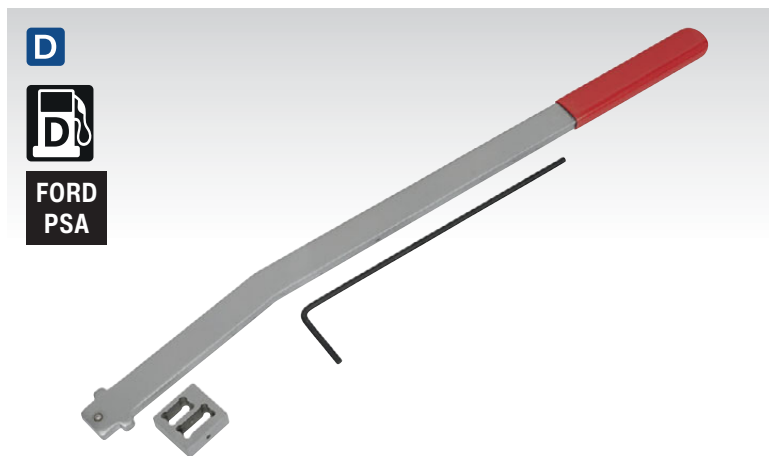
**2.0D Di/TDdi/TDCi:** ABFA, D3FA, F3FA, D5BA, D6BA, FIFA, FMBA, FMBB, HJBA, HJBB, HJBC, HJBE, N7BA, N7BB

**2.2D TDCi/ECOnetic:** BG, CYFA, CYFB, CYFC, DRFA, DRFB, DRFC, P8FA, P8FB, PGFA, PGFB, QJBA, QJBA (BG), QJBB, QJBC, QJBD, QVFA, QWFA, SRFA, SRFB, SRFC, SRFD, SRFE, UHFA

**2.2D HDi/JTD:** P22DTE (4HM), P22DTE (4HU), P22DTE (4HV)

**2.4D Di/TDCi:** DOFA, D2FA, D2FB, D4FA, F4FA, FXFA, H9FA, H9FB, H9FD, JXFA, JXFC, PHFA, PHFC

**2.4D TD/TDi:** ZSD 424



D



FORD  
PSA

**D VSE6299**

**Auxiliary Belt Tensioner Wrench - Ford, PSA**

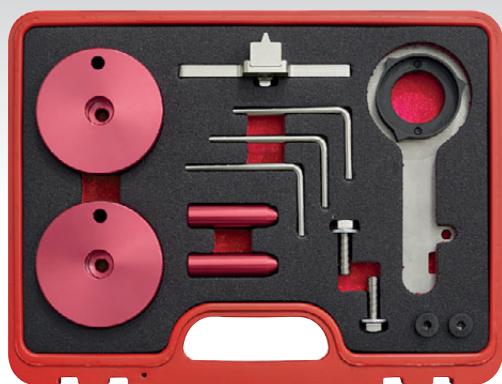
Designed to provide a safe and controlled method of adjusting the belt tensioner when removing/refitting the auxiliary belt. Suitable for Ford and PSA 1.4D and 1.6D diesel engines.

**A**



Belt

FORD



**A VSE5640**

**Timing Tool Kit - Ford 2.0TDCi EcoBlue - Belt Drive**

Designed to fit the new generation of Ford EcoBlue belt in oil diesel engines. Contains the special tooling essential for locking the engine in its timing position. Includes tools for fitting the timing belt onto the camshafts. Supplied in a storage case with warning tag and full instructions.

<b>OEM Tools:</b>	303-1643, 303-1637, 303-165
<b>Applications:</b>	Transit (16-18), Transit Custom (16-19), Tourneo Custom (16-18)
<b>Engine Codes:</b>	YLF6, YMFS, YNFS, YLF6, YMF6, YNF6, YLR6, YMR6, YNR6

**B**



Belt

FORD  
VOLVO



**B VS790**

**Stretch Belt Installation Tool - Ford, Volvo - Belt Drive**

Stretch belt fitting kit for Ford and Volvo. Time-saving tool designed for use when universal tools will not work due to the wider crankshaft pulley which restricts access. One part of the kit clips over the crankshaft pulley to guide the belt, the other part fits over the water pump pulley, and by using a 17mm socket, is simply rotated until the belt is located correctly on all the pulleys. Suitable for Ford 1.4, 1.6 (Focus, C-Max, Mondeo) and Volvo 1.6 (S40, C30, V50) petrol engines.

**C**



Belt

FORD



**C VSE6541**

**High Pressure Fuel Pump Remover/Installer - Ford 2.0D EcoBlue Belt Drive**

Essential tool for removing/installing the high pressure fuel pump which allows drive gear to retain its timed position when pump is removed. Supplied in a storage case with full instructions.

<b>Applications:</b>	Transit (17-18), Tourneo Custom (16-18), Transit Custom (16-18)
<b>Engine Codes:</b>	YFMS, YNFS, YLF6, YMF6, TNF6, YLR6, YMR6, YNR6

**D**



Belt

FORD



**D VSE6712**

**Camshaft Pulley Alignment Pins - Ford 2.0D - Belt Drive**

Camshaft Alignment Pins suitable for Ford vehicles fitted with the DW10F 2.0D engines. Ensures the camshaft is locked in position while removing and refitting the high pressure fuel pump.

<b>OEM Tools:</b>	303-1667/1, 301-1667/2
<b>Applications:</b>	C-Max (15-18), Grand C-Max (15-18), Edge (15-18), Focus (14-18), Galaxy (15-18), Kuga (14-18), Mondeo (14-18), S-Max (15-18)
<b>Engine Code:</b>	DW10F

**E NEW**



Chain

JAGUAR  
LAND ROVER  
RANGE ROVER



**E VSE3036**

**Fuel Pump Locking/Removal Tool - JLR 2.0D Ingenium Engine**

Designed to lock the fuel pump sprocket and timing chain into position while the pump is removed/replaced.

<b>OEM Tool:</b>	303-1627
<b>Applications:</b>	E-Pace (17-21), F-Pace (16-21), XE (15-20), XF (15-21)
<b>Jaguar:</b>	
<b>Land Rover:</b>	Discovery (17-21), Discovery Sport (15-19), Defender (19-21)
<b>Range Rover:</b>	Evoque (15-19), Sport (16-18), Velar (17-21)
<b>Associated Tool:</b>	VSE3037 - Timing Tool Kit - JLR 2.0/2.0D Ingenium Engine - Chain Drive (see page 401)

**F**



Belt

FORD



**F VSE6542**

**Vibration Damper/Pulley Puller - Ford 2.0 TDCi EcoBlue Engine**

Suitable for Ford Transit fitted with EcoBlue 2.0 TDCi engine. Equivalent to OEM 205-295 and 204-158-01 (crankshaft end protection spigot). Keep forcing screw well lubricated, not suitable for use with an impact wrench.

<b>OEM Tools:</b>	205-295, 204-158-01
<b>Applications:</b>	Transit (17-18), Tourneo Custom (16-18), Transit Custom (16-18)
<b>Engine Codes:</b>	YFMS, YNFS, YLF6, YMF6, TNF6, YLR6, YMR6, YNR6

## A VSE5042A

### Timing Tool Combination Kit - Ford, PSA - Belt/Chain Drive

Timing tool combination kit suitable for a wide range of belt or chain driven petrol and diesel engines. Contains a camshaft sprocket puller and flywheel locking tools. Supplied in a storage case with instructions and a warning tag.

#### OEM Tools:

**Ford:** 303-732, 303-620, 303-507, 303-193, 303-393A, 303-393-02, 303-393-01, 303-651, 303-376, 303-734, 303-1054, 303-748, 303-1097, 303-1059, 303-735  
**Peugeot/Citroen:** 21-229, 0194-C, 0194-B  
**Mazda:** 49JE01054, 49JE01061, 49JE02021  
**Suzuki:** 09910-05410, 09910-05410  
**Volvo:** 999-7151, 999-7169, 999-7406, 999-7429, 999-7121, 999-7122  
**JLR:** 303-1272, 303-748, 303-1270

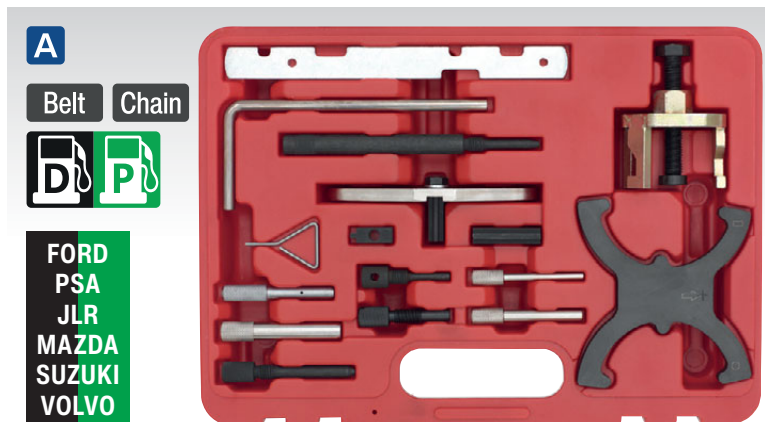
#### Applications:

**Citroen:** Berlingo (05-11), Berlingo II (05-11), Berlingo III (08-18), Berlingo IV (18-19), C1 (05-10), C2 (03-10), C3 (02-10), C3 II (02-10), C3 III (10-17), CIII IV (16-18), C3 Pluriel (04-10), C3 Picasso (09-17), C4 (04-11), C4 II (11-18), C4 Picasso (06-18), C4 Grand Picasso (06-18), C4 Cactus (14-18), C5 II (04-08), C5 III (04-15), C-Elysee (14-18), DS3 (10-12), DS4 (11-12), DS5 (12-15), Dispatch (07-12), Jumpy III (07-12), Nemo (08-10), Xsara II (02-04), Xsara Picasso (04-10)  
**Fiat:** Scudo (07-12)  
**Ford:** B-Max (12-18), C-MAX (07-20), Cougar (98-01), Courier (00-02), EcoSport (03-18), Escort (94-98), Fiesta (95-21), Focus (98-20), Focus C-MAX (03-11), Fusion (02-12), Grand C-MAX (10-20), Galaxy (06-15), Kuga (08-18), Maverick (01-07), Mondeo (93-15), Orion (94-94), Puma (97-02), S-MAX (06-15), Tourneo Connect (02-13), Transit Connect (02-16), Transit (06-11), Transit Courier (12-20), Grand Tourneo Connect (13-15), Tourneo Courier (14-15)  
**Jaguar:** XF (12-16), XJ (13-17), XE (15-17)  
**Land Rover:** Freelander 2 (12-15), Discovery Sport (15-17)  
**Mazda:** 2 (02-12), 3 (09-15)  
**Peugeot:** 107 (05-10), 1007 (05-10), 206 (01-11), 206+ (09-13), 206 CC (05-07), 207 (06-13), 207 CC (07-15), 208 (11-18), 307 (01-08), 308 (07-18), 308 CC (09-15), 407 (05-11), 508 (04-17), 2008 (13-17), 3008 (09-18), 4008 (12-15), 5008 (09-17), Bipper (08-10), Expert III (07-12), Partner (05-11), Partner II (05-11), Partner III (08-17)  
**Range Rover:** Evoque (11-17)  
**Suzuki:** Liana (04-08), SX4 (07-11)  
**Toyota:** Aygo (05-10)  
**Volvo:** C30 (06-13), S40 (04-12), V40 (12-15), V40 Cross Country (13-15), V50 (04-12), V60 (11-15), V70 (11-15), S60 (11-15), S80 (09-15)

#### Engine Codes:

**1.25 16v:** DHA, DHB, DHC, DHD, DHE, DHF, DHG, F8JA, F8JB, FUJA, FUJB, M7JA, M7JB, SNJA, SNJB, SNJC, SNJD, STJA, STJB, STJC, STJD  
**1.4 16v:** ASDA, ASDB, FHA, FHB, FHD, FHE, FHF, FXDA, FXDB, FXDC, FXDD, FXJA, FXJB, FXJC, RTJA, RTJB, SPJA, SPJC, SPJD, SPJE, SP5D, SP5E, UTJA  
**1.4 D-4D, 1.4DDiS, 1.4TDCi, 1.4Hdi:** DV4TD(8HT), DV4TD(8HX), DV4TD(8HZ), DV4TD(8HW), DV4TED4(8HX), DV4TED4(8HV), DV4TED4(8HY), DV4C(8HP), DV4C(8HR), DV4TE(8HS), F6JA, F6JB, F6JC, F6JD, KVJA, DV4(8HY), ZWZ-TV  
**1.5 EcoBoost:** M8DA, M8DB, M8DF, M8MA, M9DA, M9DB, M9MA, UNCE, UNCF, UNCI, UNCL, UNCK  
**1.5TDCi:** ENUG, UGCA, UGJC, XUJA, XUJB, XUJF, XUJG, XUJH, XUJK, XUJN, XWDA, XWDB, XWDC, XWDD, XWDE, XWJB, XWJC, XXDA, XXDB, XXDC, XXDD, XXDE  
**1.6 16v:** FYDA, FYDB, FYDC, FYDD, FYDH, FYJA, FYJB, FYJC, HWDA, HWDB, IQBD, IQJA, IQJC, L1F, L1J, L1N, L1Q, L1L, L1T, L1V, L1W, SHDA, SHDB, SHDC  
**1.6 EcoBoost:** JQMA, JQMB, JTMA, JTBA, JTDB, JQDA, JQDB, JTJA, JTJB, JQGA, MUDD, MUDD, JTDA, JTBB, JTWA, JTWB  
**1.6D/eDrive/Multijet/DDiS/Hdi/Blue-Hdi/TDCi:** DV6ATED(9HY), DV6ATED4(9HX), DV6ATED4(9HW), DV6ATED4(9HP), DV6ATED(9HJ), DV6ATED(9HN), DV6(9HX), DV6AT(9HX), DV6ATED(9HX), DV6CTED(9HC), DV6ATED(9HC), DV6ATED4(9HX), DV6D(9HP), DV6ATED4B, DV6ATED(9HF), DV6C(9HD), DV6C(BHX), DV6C(BHZ), DV6(9HR), DV6C(9HL), DV6C(9HR), DV6FE(BHW), DV6FD(BHY), DV6FE(BHY), DV6FE(BXZ), DV6TED4(9HY), DV6TED4(9HZ), DV6TED(9HD), DV6TED(9HP), DV6TED4(9HV), DV6TED4(9HX), DV6TED4BU(9HS), DV6ATED4(9HT), DV6ATED4(9HT), DV6ATED4B(9HV), DV6ATED4(9HX), DV6ATED4(9HU), DV6ATED4(9HV), DV6ATED4(9HW), DV6FC(BHW), DV6FC(BHX), DV6FC(BHY), DV6FC(BHZ), DV6C(9HD), D4164T, D4162T, G8DD, GPDA, G8DA, G8DB, G8DE, G8DF, GPDC, HHDA, HHDB, HHJA, HHJB, HHJC, HHJD, HHJE, HHJF, MTDA, MZ-CD, MZ-CD (Y6), T1DA, T1DB, T3DA, T3DB, TZJA, UBJA, Y6  
**1.6Ti-VCT, 1.6Ti-VCT FFV, 1.6Ti-VCT S:** HXDA, HXJA, HXJB, IQDA, IQDB, IQDC, IQJE, MUDD, MUDD, PNBA, PNDA, PNDD, RHBA, SIDA, U5JA, XTDA, XTDB  
**1.8 16v:** CDBB, CGBA, CGBB, CHBA, CHBB, CSDA, CSDB, EYDB, EYDC, EYDD, EYDE, EYDF, EYDG, EYDI, EYDJ, EYDL, EYPA, EYPC, QQDA, QQDB, QQDC, QQDD, Q7DA, RKA, RKB, RKC, RKF, RKH, RKJ, RKK

**1.8TDCi, 1.8TDCi ECONetic, 1.8TDdi, 1.8D Turbo:** BHDA, BHDB, BHPA, C9DA, C9DB, C9DC, FFBA, FFDA, FFWA, F9DA, F9DB, HCPA, HCPB, KHBA, KKDA, KKDB, P7PA, P9PA, P9PB, QYBA, QYWA, R2PA, R3PA, RFN, RTN, RTQ, RTP, RWPA, RWPC  
**2.0 16v:** AOBBA, AOBBC, AODA, AODB, AODE, AOWA, AOWB, CJBBA, CJBBC, EDDB, EDBC, EDBB, EDBD, EDDB, EDDC, EDDD, EDDF, NGA, NGB, NGC, NGD, SYDA, TBBA, TBBB, TBWA, TBWB, YF, 204PT  
**2.0 ST150, 2.0 16v.RS, 2.0 ST, 2.0 ST170:** ALDA, HMDA, N4JB, T8DA  
**2.0D HDi, 2.0 TDCi:** AZBA, AZBC, AZWA, AZWC, G6DA, G6DB, G6DC, G6DD, G6DE, G6DF, G6DG, IXDA, KLBA, KLWA, LPBA, TXBA, TXDA, TXDB, TXMA, TXWA, TYBA, TYWA, TYDA, T7DB, T8DF, UFBA, UFDA, UFDB, UFMA, UFWA, UKBA, UKBB, UKDB, UKDA, UKMA, UKWA, QXBA, QXBB, QXWA, QXWB, RHE(DW10CTED4)  
**2.2 TDCi:** KNBA, KNWA, Q4BA, Q4WA  
**2.3 16v:** GZFA, GZFB, GZFC, GZ, SEBA, SEWA

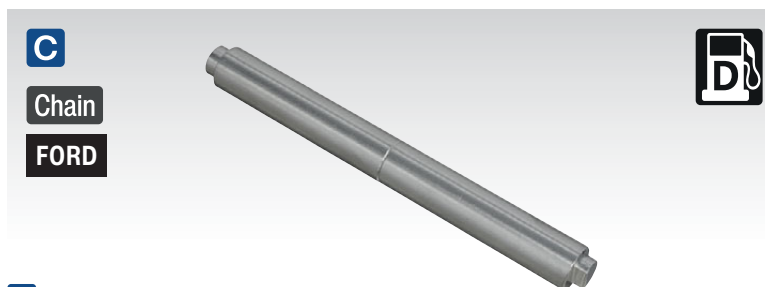


## B VSE5860

### Crankshaft Pulley Alignment Tool - Ford 1.6 EcoBoost

Crankshaft pulley alignment tool for Ford 1.6 EcoBoost engine. Ensures the crankshaft pulley is correctly aligned with the timing belt cover.

**OEM Tool:** 303-1550  
**Applications:** Focus (10-15), C-Max (10-15), Grand C-Max (10-15), Galaxy (10-15), Kuga (13-15), Mondeo (10-15), S-Max (10-15)  
**Engine Codes:** JQDA, JQDB, JTDA, JTDB, JTBA, JTBB, JTWA, JTWB, JQMA, JQMB, JTMA

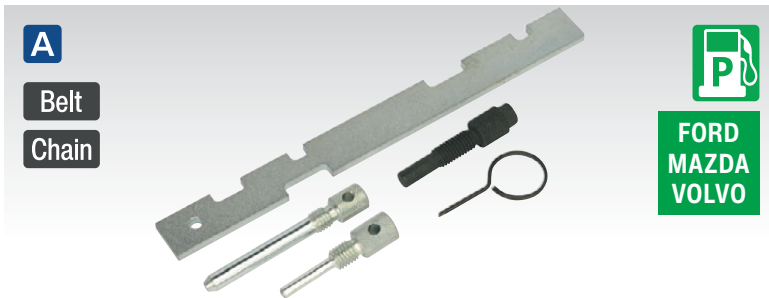


## C VSE5864

### Crankshaft Locking Pin - Ford 2.2/3.2TDCi

Designed to lock the crankshaft into its timing position via the flywheel. Suitable for 2.2TDCi RWD Ford Transit and 3.2TDCi Ford Ranger.

**OEM Tool:** 303-1562  
**Applications:** Transit (12-18), Ranger (11-19)  
**Engine Codes:**  
**2.2TDCi:** CVRA, CVRB, CYRA, DRRRA, DRRRB, USRA, USRB  
**3.2TDCi:** SAFA  
**Associated Tool:** VSE5863 - Timing Tool Kit - Ford/Jaguar 2.2D/3.2D TDCi Chain Drive (see page 392)



**A**

Belt

Chain



**FORD  
MAZDA  
VOLVO**

**A VSE5515**

**Timing Tool Kit - Ford, Mazda, Volvo  
1.25/1.4/1.6/1.8/2.0/2.3 16v Duratec - Belt/Chain Drive**

Covers the complete range of Ford Duratec engines 1.25, 1.4, 1.6, 1.8, 2.0, 2.3 16v in both belt and chain drive variants.

**OEM Tools:**  
**Ford:** 303-1054, 303-507 (21-210), 303-620 (21-163), 303-574, 303-748, 303-376 (21-162B), 303-376B  
**Mazda:** 49 JE01061, 303-574, 49 JE02061, 303-465, 49 JE01054  
**Volvo:** 999 7152, 999 7151

**Applications:**  
**Ford:** B-Max (15-17), C-Max (07-10), Cougar (98-01), Fiesta (95-17), Focus (98-11), Focus C-Max (03-07), Fusion (02-12), Galaxy (06-15), Maverick (01-07), Mondeo (93-15), Puma (97-02), S-Max (06-15), Tourneo Connect (02-06), Transit (06-12), Transit Connect (02-06)  
**Mazda:** 121ZQ (95-00), 2 DY (02-07), 3 BK (03-09), 3 BL (09-15), 5 CR (05-10), 5 CW (10-12), 6 GG/GY (02-07), 6 GH (07-15), MPV LW (02-05), MX-5 NC (05-16), Tribute EP (04-06)  
**Volvo:** C30 (06-13), S40 (06-12), S80 (07-11), V50 (04-12)

**Engine Codes:**  
**1.25 16v Belt:** DHA, DHB, DHC, DHD, DHE, DHF, DHG, F8JA, F8JB, FUJA, FUJB, M7JA, M7JB, SNJA, SNJB, SNJC, SNJD, STJA, STJB, STJC, STJD  
**1.4 16v Belt:** ASDA, ASDB, FHA, FHB, FHD, FHE, FHF, FXDA, FXDB, FXDC, FXDD, FXJA, FXJB, FXJC, RTJA, RTJB, SPJA, SPJC, SPJE, UTJA  
**1.6 16v Belt:** B4164S3, FYDA, FYDB, FYDC, FYDD, FYDH, FYJA, FYJB, FYJC, HWDA, HWDB, IQJA, IQJC, L1F, L1J, L1L, L1N, L1Q, L1T, L1V, L1W, SHDA, SHDB, SHDC  
**1.8 16v Belt:** EYDB, EYDC, EYDD, EYDE, EYDF, EYDG, EYDI, EYDJ, EYDL, EYPA, EYPC, RKA, RKB, RKF, RKH, RKJ, RKK  
**1.8 16v Chain:** CDBB, CGBA, CGBB, CHBA, CHBB, CSDA, CSDB, Q7DA, QQDA, QQDB, QQDC, L8, B4184S11, B4184S, B4184S8  
**2.0 16v Belt:** ALDA, EDDB, EDBB, EDBC, EDBD, EDDB, EDDC, EDDD, EDDF, HMDA, NGA, NGB, NGC, NGD, YF  
**2.0 16v Chain:** B4204S3, B4204S4, A0BA, A0BC, A0DA, A0DB, A0DE, A0WA, A0WB, CJBA, CJBB, LF, N4JB, SYDA, TBBA, TBBB, TBWA, TBWB  
**2.3 16v Chain:** GZ, GZFA, GZFB, GZFC, L3, SEBA, SEWA



**C**



Belt

**FORD**

**C VSE5041A**

**Timing Tool Kit - Ford 1.5 EcoBoost & 1.6Ti-VCT - Belt Drive**

Covers timing belt replacement and timing adjustment on Ford 1.6Ti-VCT petrol engines. Includes VCT setting plate, flywheel locking tool, camshaft and tensioner pins. Features camshaft setting plate for timing adjustment applications.

**OEM Tools:** 303-376B, 303-393, 303-393A, 303-393-02, 303-748, 303-1054, 303-1097

**Applications:** C-Max (07-17), Fiesta (08-13), Focus (04-18), Focus C-Max (03-07), Galaxy (15-20), Grand C-Max (10-18), Kuga (2020), Mondeo (07-20), S-Max (15-20)

**Engine Codes:**  
**1.5 EcoBoost:** UNCA, UNDA, UNCB, UNCC, UNCD, UNCE, UNCF, UNCJ, UNCK, UNCM, UNCN, UNCP  
**1.6Ti-VCT:** HXDA, HXDB, HXJA, HXJB, IQDA, IQDB, KGBA, MUDD, PNBA, PNDA, RHBA, SIDA, XTDA



**B**

**FORD  
CITROEN  
PEUGEOT  
MAZDA**



Belt

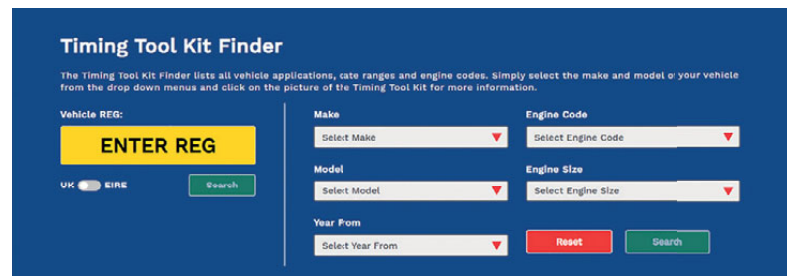
**B VSE5042Z**

**Camshaft Sprocket Puller - Citroen, Ford, Peugeot, Mazda - Belt Drive**

3-Legged puller specifically designed to remove the camshaft sprocket on Ford, Citroen, Peugeot and Mazda diesel engines without causing damage to the pulley.

**Applications:**  
**Citroen:** C3 III (10-15), DS3 (10-15), Xsara II (00-15), Xsara Picasso (99-10), C4 (04-11), C4 II (11-15), C4 Picasso/Grand Picasso (10-15), C4 Aircross (12-15), C5 (00-05), C5 II (04-08), C5 III (10-15), DS4 (11-15), Xantia (98-01), Synergie/Evasion (99-03), C8 (02-15), Nemo (08-10), Berlingo I/II (99-11), Berlingo III (08-15), Dispatch/Jumpy (99-07), Dispatch/Jumpy II (07-15), Relay/Jumper (01-02)  
**Ford:** C-Max (10-15), Courier (00-02), Fiesta (08-11), Fusion (02-11), Focus (11-15), Galaxy (07-15), Kuga (10-15), Mondeo (06-15), S-Max (06-15), Tourneo Connect (02-06), Transit Connect (02-06)  
**Mazda:** 2 (DE/DH) (02-10)  
**Peugeot:** 107 (05-10), 1007 (05-10), 206 (01-09), 206CC (05-07), 208 (12-14), 306 (99-02), 307 (01-06), 307CC (05-09), 308 (11-14), 308CC (09-14), 407 (08-11), 407 Coupe (07-12), 508 (11-14), RCZ (10-14), 2008 (13-14), 3008 (10-14), 4008 (12-14), 5008 (10-14), Bipper (08-10), Partner/Partner Origin/Ranch I/II (05-11), Partner III (08-14)

**Engine Codes:**  
**1.4D TDCi/HDi:** F6JA, F6JB, F6JC, F6JD, 8HP (DV4C), 8HR (DV4C), 8HS (DV4TED), 8HZ (DV4TD), 8HX (DV4TD), DV4C (8HP), DV4C (8HR), DV4TD (8HT), DV4TD (8HX), DV4TD (8HZ), DV4TED (9HS)  
**1.6D TDCi/HDi:** G8DA, G8DB, G8DC, G8DE, G8DF, HHDB, HHDA, HHJA, HHJB, HHJC, HHJE, HHJF, 9HE (DV6TED), 9HG (DV6C), 9HH (DV6DU), 9HJ (DV6TED), 9HK (DV6ETED), 9HLG (DV6CM), 9HM (DV6UC), 9HN (DV6ETED), 9HL (DV6C), 9HR (DV6C), 9HS (DV6TED4BU), 9HT (DV6BTED4), 9HT (DV6BUTED4), 9HU (DV6UTED4), 9HV (DV6TED4B), 9HW (DV6TED4), 9HX (DV6ATED4), 9HX (DV6TED4), 9HY (DV6TED4), 9HZ (DV6TED4), DV6UC (9HM), DV6C (9HI), DV6C (9HR), DV6D (9HP), DV6UC (9HM), DV6CM (9HG), DV6D TED (9HE), DV6D TED (9HF), DV6D TED (9HJ), DV6D TED (9HK), DV6D TED (9HN), DV6D TED (9HP), DV6TED4 (9HU), DV6TED4 (9HV), DV6TED4 (9HX), DV6ATED4 (9HW), DV6ATED4 (9HX), DV6TED4 (9HY), DV6ATED4 (9HZ), DV6D TEDM (9HJ)  
**1.6D TDCi ECONetic:** HHJD  
**1.8D Turbo/TDCi:** RTN, RTP, RTQ, BHDA, BHDB, BHPA, C9DA, C9DB, C9DC  
**1.8D TDCi ECONetic:** KHBA  
**2.0D TDCi:** AZBA, AZBC, AZWA, AZWC, G6DA, G6DB, G6DC, G6DD, G6DE, G6DF, G6DG, KLBA, LPBA, TXBA, TXDA, TXDB, TXWA, TYBA, TYDA, TYWA, UFBA, UFDB, UFWA, UKBA, UKBB, UKWA, UKDB, QXBA, QXBB  
**2.0D TDCi ECONetic:** KLBA, LPBA, TYBA  
**2.0D HDi:** AHY (DW10CE), AHZ (DW10CTED4), RHD (DW10C), RHD (DW10CTED4), RHE (DW10CTED4), RHF (DW10BTED4), RHG (DW10UTED4), RHH (DW10BTED4), RHH (DW10CTED4), RHH (DW10C), RHK (DW10CTED4), RHK (DW10UTED4), RHM (DW10CTED4), RHR (DW10BTED4), RHT (DW10ATED4/L4), RHV (DW10UTD), RHS (DW10ATED), RHW (DW10ATED4), RHX (DW10BTED/L3), RHY (DW10TD), RHZ (DW10ATED), RHZ (DW10ATED/L3), DW10TD (RHY), DW10CD (AHZ), DW10CE (AHY), DW10UTD (RHV), DW10CTED4 (RHD), DW10CTED4 (RHE), DW10BTED4 (RHF), DW10BTED4 (RHG), DW10BTED4 (RHR), DW10CTED4 (RHH), DW10CTED4 (RHR), DW10UTED4 (RHG), DW10UTED4 (RHK)



Use our online Timing Tool Kit Finder to search for kits, [www.sealey.co.uk](http://www.sealey.co.uk)

A

CITROEN  
FIAT  
FORD  
JAGUAR  
LAND ROVER  
LDV  
PEUGEOT



## A VSE5841A

### Timing Tool & Fuel Injection Pump Kit 2.0D, 2.2D & 2.4D Duratorq - Chain Drive



Comprehensive kit for timing 2.0D, 2.2D and 2.4D Duratorq chain driven diesel engines fitted in Citroen, Fiat, Ford, Jaguar, Land Rover, LDV and Peugeot vehicles. Kit includes sprocket retaining plates for both early and later engines and access cover removal plate tools for injection pump removal/installation. Supplied in storage case.

**OEM Tools:** 303-679A/21-238, 303-1151, 303-698/21-251, 303-675/21-234

<b>Applications:</b>	<b>Jaguar:</b>	X-Type (03-10)
<b>Citroen:</b>	<b>Land Rover:</b>	Defender Td4 (06-11)
<b>Fiat:</b>	<b>LDV:</b>	Convoy (02-06)
<b>Ford:</b>	<b>Peugeot:</b>	Boxer III (06-12)

**Engine Codes:**  
**2.0D Di/TDdi/TDCi:** ABFA, D3FA, F3FA, D5BA, D6BA, FIFA, FMBA, FMBB, HJBA, HJBB, HJBC, HJBE, N7BA, N7BB

**2.2D TDCi/ECOnetic:** BG, CYFA, CYFB, CYFC, DRFA, DRFB, DRFC, P8FA, P8FB, PGFA, PGFB, QJBA, QJBA (BG), QJBB, QJBC, QJBD, QVFA, QWFA, SRFA, SRFB, SRFC, SRFD, SRFE, UHFA

**2.2D HDi/JTD:** P22DTE (4HM), P22DTE (4HU), P22DTE (4HV)

**2.4D Di/TDCi:** DOFA, D2FA, D2FB, D4FA, F4FA, FXFA, H9FA, H9FB, H9FD, JXFA, JXFC, PHFA, PHFC

**2.4D TD/TDi:** ZSD 424

**2.4D Td4:** 244DT

C



Chain



FORD  
JAGUAR  
LAND ROVER

## C VSE5862

### Crankshaft Front Oil Seal Fitting Tool Ford 2.0, 2.2, 2.4, 3.2 TDCi Duratorq - Chain Drive

Essential tools required when replacing the crankshaft oil seal or timing cover. The mandrel tool is essential for centralising the timing cover during replacement to avoid premature seal failure.

**Applications:**  
**Ford:** Transit (00-18), Mondeo (00-07), Ranger (11-19)  
**Jaguar:** X-Type (05-10)  
**Land Rover:** Defender (11-16)

**Engine Codes:**

**2.0D:** FIFA

**2.2D:** BG, QJBA

**2.2 TDCi:** CVFF, CVF5, CV55, CVR5, CYFA, CYFB, CYFF, CYFG, CYF5, CYR5, DRFA, DRFB, DRFF, DR5F, DRR5, PGFA, PGFB, P8FA, P8FB, QVFA, QWFA, SRFA, SRFB, SRFC, SRFD, SRFE, UHFA, UHR5

**2.2 TDCi ECOnetic:** DRFC, DRFG, CYFC

**2.2HDT:** USR6, UYR6

**2.4Di:** D2FA, D2FB, DOFA, F4FA, FXFA

**2.4 TDCi:** H9FA

**3.2 TDCi:** SAFA

**Associated Tools:** VSE5863 - Timing Tool Kit - Ford/Jaguar 2.2D/3.2D TDCi Chain Drive (see page 392), VSE5944 - Auxiliary Belt Tension Tool - Ford 2.0D, 2.2D Di/TDdi/TDCi & 2.4D TDdi - Chain Drive (see D)

B



Belt

FORD  
VOLVO



## B VS4387

### Timing Tool Kit - Ford, Volvo 1.6, 1.8, 2.0, 2.3, 2.4, 2.5, 2.9 - Belt Drive

Includes tools for timing the engine and locking the camshafts into position if variable valve timing units have to be removed. Camshaft tools can be used as a counter-hold during removal/installation of variable valve timing units. Fits a wide variety of engines used in Ford and Volvo vehicles. Supplied in a storage case with warning tag and instructions.

**OEM Tools:**  
**Ford:** 303-1178, 303-1182, 303-1054  
**Volvo:** 999-5451, 999-5452

**Applications:**  
**Ford:** Focus (05-11), Galaxy (06-11), Mondeo (07-10), Kuga (09-13), S-Max (06-10)  
**Volvo:** C30 (06-13), C70 (97-13), S40 (96-12), S60 (00-16), S80 (98-16), V40 (96-15), V50 (04-12), V60 (13-14), V70 (00-15), XC60 (14-17), XC70 (02-07), XC90 (02-14)

**Engine Codes:**

**1.6:** B4164S2

**1.8:** B4184S10, B4184S2, B4184S3, B4184S9

**2.0:** B4204S2, B4204T3, B4204T5, B5204T4, B5204T5, B5204T8, B5204T9

**2.3:** B5234T3, B5234T7, B5234T9

**2.4:** B5244S, B5244S2, B5244SG, B5244SG2, B5244T, B5244T3, B5244T4, B5244T5, B5244T7

**2.5:** HU8A, HUWA, HYDA, HYDB, HYDC, JZDA, B5254T10, B5254T11, B5254T12, B5254T14, B5254T2, B5254T3, B5254T4, B5254T5, B5254T6, B5254T7, B5254T8, B5254T9

**2.9:** B6284T2, B6294S2, B6294T

D



Chain

FORD  
JAGUAR



## D VSE5944

### Auxiliary Belt Tension Tool Ford, Jaguar 2.0D, 2.2D Di/TDdi/TDCi & 2.4D TDdi - Chain Drive

Specifically designed to aid the task of reaching the auxiliary belt tension unit in order to remove and re-fit auxiliary belts on the Di/TDdi/TDCi engines. In many cases tension unit cannot be accessed and adjusted with general tools.

**OEM Tool:** 606-676

**Applications:**  
**Ford:** Mondeo 2.0D, 2.2D TDdi/TDCi (00-07), Transit 2.4D (00-06)  
**Jaguar:** X-Type (03-10)

**Engine Codes:**

**2.0D TDCi:** FMBA, FMBB, HJBA, HJBB, HJBC, HJBE, N7BA, N7BB, SDBA

**2.0D TDdi:** D5BA, D6BA

**2.2D TDCi:** QJBA, QJBB, QJBC, QJBD

**2.4D Di:** D2FA, D2FB, D4FA, DOFA, F4FA, FXFA

**Associated Tools:** VSE5842 - Timing Tool Kit - Ford/Citroen/Fiat/Jaguar/Land Rover/LDV/Peugeot 2.0, 2.2, 2.4, 3.2 TDCi/TDdi/Di/HDi/JTD/TDi/TD4 Chain Drive (see page 402), VSE5841A - Timing Tool & Injection Pump Tool Kit 2.0D, 2.2D, 2.4D Duratorq - Chain Drive (see A)

**A VSE6160**
**Timing Tool Kit - Ford, Mazda, Volvo 1.5, 1.6, 2.0 - Belt/Chain Drive**

Comprehensive kit covers engines which are fitted to a large range of Ford, Volvo and some Mazda vehicles. Contains time-saving tooling to correctly align the timing covers on Ford and Volvo engines, and a crankshaft pulley holder for Mazda engines. Supplied in storage case with instructions and warning tag.

**OEM Tools:**

**Ford:** 303-1504, 303-1565, 303-1521, 303-748, 303-1097, 303-1550

**Volvo:** 999-7405, 999-7416, 999-7406, 303-1054, 999-7429, 999-7431, 999-7415

**Mazda:** 303-1061, 303-507, 205-072

**Applications:**

**Ford:** B-Max (13-18), C-Max (12-18), Connect (13-16), Courier (12-16), EcoSport (13-15), Fiesta (13-17), Focus (12-18), Galaxy (10-17), Grand C-Max (12-18), Grand Tourneo Connect (13-17), S-Max (10-15), Tourneo Connect (13-15), Mondeo (14-20)

**Volvo:** S60 (11-16), S80 (09-15), V40 (09-15), V40 Cross Country (10-14), V60 (10-16), V70 (09-16), XC60 (09-14)

**Mazda:** Mazda 5 (CW) (10-15), Mazda 6 (GH) (10-13)

**Engine Codes:**

**Ford 1.5 EcoBoost:** UNCA, UNCB, UNCC, UNCD, UNCE, UNCF, UNCI, UNCL, UNCK

**Ford 1.6:** HXDA, HXDB, HXJA, HXJB, IQDA, IQDB, IQDC, IQJA, IQJC, JQDA, JQDB, JQGA, IQJE, JQMA, JQMB, JTDA, JTDB, JTJA, JTJB, JTMA, JTWA, JTWB, MUDA, MUDD, PNDA, PNDD, RVJA, SIDA, U5JA, XTDA, XTDB

**Ford 2.0:** MGDA, R9CB, R9CD, R9CF, R9CH, R9CI, R9DA, TNBA, TNBB, TNCC, TNCD, TNCF, TNWA, TNWB, TPBA, TPWA, ZQDA

**Mazda 2.0:** MZR 2.0 (LF), LF(MZRDISI)

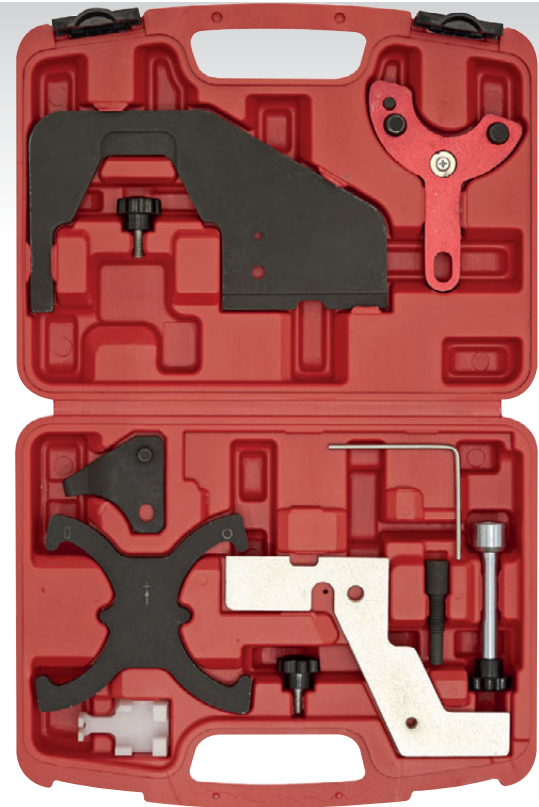
**Volvo 1.6:** B4164T, B4164T2, B4164T3

**Volvo 2.0:** B4204T6, B4204T7

**A**


Belt

Chain

**FORD  
VOLVO  
MAZDA**

**B**

**FORD**

 1/2"  
Sq Drive  
Input

 3/4"  
Sq Drive  
Output

**B VSE5180**
**1/2"-3/4" Sq Drive Torque Multiplier - Ford EcoBoost Engine**

The torque multiplier has a 1/2" Sq drive input and 3/4" Sq drive output. A torque multiplier is needed to remove and refit the crankshaft pulley bolt. Specially designed with the correct reduction ratio for the Ford EcoBoost engine. Contains securing bracket and fixings. Supplied in storage case with instructions.

**Drive:** 1/2" Sq Input (Female), 3/4" Sq Output (Male)

**Applications:** B-Max (12-18), C-Max (12-20), Grand C-Max (17-20), EcoSport (13-22), Fiesta (12-22), Focus (12-20), Mondeo (15-18), Puma (19-20), Transit Custom & Tourneo Custom (19-22), Transit Courier (14-22), Transit Connect (13-20), Grand Tourneo Connect (13-18), Tourneo Courier (14-20), Tourneo Connect (18-20)

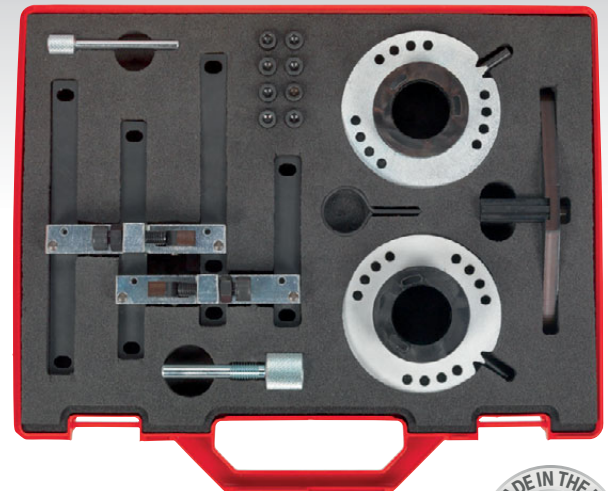
**Engine Codes:**

**1.0 EcoBoost:** B3DA, B3GA, B7DA, B7JA, B7JB, M0JA, M1CA, M1CB, M1DA, M1DC, M1DD, M1JA, M1JC, M1JE, M1FA, M1JH, M1JJ, M1JP, M1JU, M2DA, M2DB, M2DC, M2GA, M2GB, P4JA, P4JB, P4JC, P4JD, SFCA, SFCB, SFCC, SFCD, SFCE, SFJH, SFJJ, SFJK, SFJL, SFJN, SFJP, XMJA, XMJB, XMJC, XMJD, YYJA, YYJB, YYJC, YYJD, YYJE, YYJF, YYJG

**1.1 EcoBoost:** XPJA, XPJB, XPJC, XPJD, XYJA, XYJB, XYJC, XYJD, XYJE, YYJA, YYJB, YYJC, YYJD, YYJE, YYJF, YYJG

**C**


Belt

**FORD**

**C VS5150**
**Timing Tool Kit - Ford 1.0/1.1 EcoBoost - Belt Drive**

Suitable for Ford 1.0/1.1 EcoBoost. Contains tools vital for setting and locking the engine and for setting the position of the variable cam timing units.

**OEM Tools:** 303-732, 303-1064, 303-1065, 303-1602, 303-1604, 303-1606

**Applications:** B-Max (12-18), C-Max (12-20), Grand C-Max (17-20), EcoSport (13-22), Fiesta (12-20), Focus (12-20), Mondeo (15-18), Puma (19-20), Transit Courier (14-22), Transit Connect (13-20), Grand Tourneo Connect (13-18), Tourneo Courier (15-22), Tourneo Connect (18-20)

**Engine Codes:**

**1.0 EcoBoost:** M1CA, M1CB, M1DA, M1DC, M1DD, M1JA, M1JC, M1JE, M1JH, M1JJ, M2DA, M2DB, M2DC, M2GA, M2GB, P4JA, P4JB, P4JC, P4JD, SFCA, SFCB, SFCC, SFCD, SFCE, SFJH, SFJJ, SFJK, SFJL, SFJN, SFJP, XMJA, XMJB, XMJC, XMJD

**1.1 EcoBoost:** XPJA, XPJB, XPJC, XPJD, XYJA, XYJB, XYJC, XYJD, XYJE, YYJA, YYJB, YYJC, YYJD, YYJE, YYJF, YYJG

**Associated Tool:** **VSE5180** - 1/2"-3/4" Sq Drive Torque Multiplier - Ford EcoBoost Engine (see **B**)

**A NEW**

**FORD**



Chain



**A VSE5152**

**Timing Tool Kit - Ford 1.0 EcoBoost - Chain Drive**

Suitable for chain drive Ford EcoBoost engines. Comprehensive kit which includes VVT locking tools and a multi-spline camshaft socket. Supplied in a storage case with instructions and a warning tag.

**OEM Tools:** 303-1661/1, 303-1661/2, 303-1661/3, 303-1603, 303-1643, 310-018, 303-1604, 0132-AB, 23-019

**Applications:** Fiesta (19-22), Focus (18-22), C-Max (18-22), Grand C-Max (18-22), Puma (19-22)

**Engine Codes:** B7DA, B7DC, B7JA, B7JB

**C**



Belt

**FORD  
MAZDA  
VOLVO**



**C VSE4143.32**

**Crankshaft Locking Pin - Ford, Mazda, Volvo 1.25/1.4/1.6 Belt Drive**

Pin is screwed into the side of the engine to locate the crankshaft in the timed position. Applies to Zetec/Duratec engines in Fiesta, Fusion and Focus. Also suitable for some Mazda and Volvo vehicles.

**OEM Tools:**  
**Ford:** 303-748  
**Mazda:** 49 JE02 061  
**Volvo:** 999-7201

**Applications:**  
**Ford:** C-Max 1.6 Ti-VCT (07-10), Fiesta 1.25 (97-02), Fiesta 1.4 (97-08), Fiesta 1.6 (97-02), Fiesta 1.25 (02-09), Fiesta 1.4 (02-09), Fiesta 1.6 (02-09), Fusion (02-11), Focus 1.4 (98-11), Focus 1.6 (98-11), Focus 1.6 (03-09), Focus C-Max 1.6 (03-09), Focus 1.6Ti-VCT (03-09)

**Mazda:** 121(95-00)  
**Volvo:** C30 1.6 (04-12), S40 1.6 (04-12), V50 1.6 (04-12)

**Engine Codes:**  
**Ford:** DHA, DHB, DHC, DHD, DHE, DHF, DHG, FHA, FHE, FUJA, FUJB, FXJA, FXJB, FYJA, FYJB, F8JA, F8JB, FXDA/C, FXDB/D, FYDA/C, FYDB/D, FYDH, HWDA, HWDB, HXDA, HXDB, L1T, L1V, M7JA, M7JB  
**Mazda:** DHA  
**Volvo:** B4164S3

**B**

**NEW**



Belt



**FORD  
JAGUAR  
LAND ROVER  
VOLVO**

**B VSE6560A**

**Timing Tool Kit - Ford, Volvo 1.6 EcoBoost & 2.0D/2.2D - Belt Drive**

Contains the tooling required to set and lock the engine along with a tensioner locking pin on Ford 1.6 EcoBoost engines. Includes a time-saving crankshaft pulley alignment tool. Camshaft locking tool is included which has to be used to set and lock the camshafts into their timing position when the variable valve timing sprockets have to be removed. Timing pins included are suitable for Ford 2.0D/2.2D diesel engines. Supplied in a storage case with instructions and a warning tag.

**Applications:**  
**Ford:** B-Max (12-18), C-Max (03-18), Fiesta (08-17), Focus (04-18), Galaxy (06-18), Grand C-Max (10-20), Grand Tourneo Connect (13-15), Kuga (08-17), Mondeo (07-18), S-Max (06-18), Tourneo Connect (13-15), Transit Connect (13-16)  
**Jaguar:** XF (11-15)  
**Land Rover:** Freelander 2 TD4 (06-15), Range Rover Evoque (11-15)  
**Volvo:** S60 (11-15), S80 (10-15), V40 (10-15), V60 (11-15), V70 (10-15)

**Engine Codes:**  
**1.6:** HXDA, HXDB, HXJA, HXJB, IQDA, IQDB, IQDC, IQJA, IQJC, IQJE, JJMA, JQDA, JQDB, JQGA, JQMA, JQMB, JTBA, JTBB, JTDA, JTDB, JTWA, JTWB, KGBA, MUDA, MUDD, PNBA, PNDA, PNDD, RHBA, RVJA, SIDA, U5JA, XTDA, XTDB, B4164T, B4164T2, B4164T3, B4164T4  
**2.0D:** D4204T, D4204T2, AZBA, AZBC, AZWA, G6DA, G6DB, G6DC, G6DD, G6DE, G6DF, G6DG, IXDA, KLBA, KLWA, LPBA, QXBA, QXBB, QXWA, QXWB, T7CE, T7CJ, T7CK, T7CL, T7DA, T7DB, T7MA, T7MB, T8CH, T8CD, T8CJ, T8CL, T8DF, TXBA, TXDA, TXDB, TXWA, TYBA, TYDA, TYWA, UFBA, UFDA, UFDB, UFWA, UKBA, UKDA, UKDB, UKWA  
**2.2TD4/TDCi:** DW12CTED4, DW12BTED/224DT, KNBA, Q4BA  
**2.2D (Jaguar):** Aji4D/224DT

**D**



Chain



**1/2"**  
Sq Drive

**BMW  
MINI  
FORD**

**D VSE6134**

**1/2" Sq Drive 22mm Vanos Unit Socket 16pt - BMW, Mini, Ford**

Vanos unit socket for BMW, Mini and Ford. 22mm 16-Point socket. 1/2" Sq drive.



Belt

HYUNDAI  
KIA

### A VSE4309

#### Hybrid Belt Tensioner Compression Tool - Kia/Hyundai

Essential tool for compressing the hybrid starter generator (HSG) belt tensioner spring when replacing the drive belt.

OEM Tools:	09244-G2100, 09252-2E100
Applications:	Hyundai Sonata, Kia Optima (Hybrid)



### B NEW



Belt

HYUNDAI  
KIA

### B VSE5939

#### Timing Tool Set - Hyundai, Kia 1.6D - Belt Drive

Suitable for 1.6CRDi belt drive diesel engines. Contains the essential tools required during timing belt replacement and timing checks.

OEM Tools:	09240-2U100, 09240-2U300, 09240-2U400, 09240-2U500
Applications:	
Hyundai:	i30 (20-22), i40 (18-20), Kona (20-22), Tucson (20-22), i40 (18-20)
Kia:	Ceed (20-22), ProCeed (20-22), XCeed (20-22)
Engine Codes:	D4FE, D4FEU3

### Timing Tool Kit Finder

The Timing Tool Kit Finder lists all vehicle applications, date ranges and engine codes. Simply select the make and model of your vehicle from the drop down menus and click on the picture of the Timing Tool Kit for more information.

Vehicle REG: <input style="width: 100%;" type="text" value="ENTER REG"/> <input type="radio"/> UK <input type="radio"/> EIRE <input type="button" value="Search"/>	Make <input style="width: 100%;" type="text" value="Select Make"/>	Engine Code <input style="width: 100%;" type="text" value="Select Engine Code"/>
Model <input style="width: 100%;" type="text" value="Select Model"/>	Engine Size <input style="width: 100%;" type="text" value="Select Engine Size"/>	
Year From <input style="width: 100%;" type="text" value="Select Year From"/>	<input type="button" value="Reset"/> <input type="button" value="Search"/>	

Use our online Timing Tool Kit Finder to search for kits, [www.sealey.co.uk](http://www.sealey.co.uk)

### C-D Diesel Injection & HP Pump Removers/Sprocket Retainers

Removes the diesel pump and retains the pump sprocket in situ so that the sprockets/timing chain configuration remains undisturbed, minimizing the level of engine disassembly.



C BMW  
RANGE ROVER  
VAUX/OPEL



### C VSE5664

OEM Tools:	13.5.190, KM-6270
Applications:	
BMW 1 Series:	118d E87, 120d E87
BMW 3 Series:	318d E46/90/91, 320d E46/90/91, 325d E90/91/92/93, 330d E46/90/91/92/93, 335d E90/91/92
BMW 5 Series:	520d E39/60/61, 525d E39/60/61, 530d E46/60/61, 535d E60/61
BMW 6 Series:	635d E63/64
BMW 7 Series:	730d E38/65/66
BMW X Series:	X3 E83, X5 E53/E70, X6 E71/72
Range Rover:	TD6
Vauxhall/Opel:	Omega-B
Engine Codes:	M47, M47TU, M47T2, M57, M57TU, M57T2, 306D1/TD6, Y25DT



D LAND ROVER  
ROVER  
MG



### D VSE5665

OEM Tools:	LRT-12-178, 12-178
Applications:	
Land Rover:	Freelander TD4
Rover:	75 CDT/CDTi
MG:	ZT/T
Engine Codes:	204D3/TD4, M47R



E MG ROVER  
LAND ROVER  
BMW  
VAUX/OPEL

### E VSE5666 Timing Tool Kit - BMW M47/M57, Land Rover TD4/TD6, MG 2.0D, GM 2.5D - Chain Drive

Camshaft setting and flywheel locking tools to cover BMW M47/TU/T2 and M57/TU/T2 diesel engines used in BMW, Land Rover, MG/Rover and Vauxhall/Opel models. Supplied in storage case. For full specification see page 380.





**A VSE5096**

**Crankshaft Pulley Removal/Installation Kit  
Jaguar, Land Rover V8 - Chain Drive**

Some of these pulley bolts require a torque as high as 375Nm, making the tools in this kit an essential part of the procedures of removal/installation of the crankshaft pulley.

**OEM Tools:** 18G 1437, 18G 1437 2, 303 191, 303 19103, 303 19104, 303 588, 303 893, LRT 12 080

**Applications:**

**Daimler V8:** 4.0 (97-98)

**Land Rover:** Discovery 3; 4.2, 4.4 LA V8 (05-09), Range Rover; 4.2, 4.4 Sport LS V8 (05-09), Range Rover; 4.2, 4.4 LM V8 (06-08)

**Jaguar:** S-Type; 3.2, 3.5, 4.2 V8 (99-08), XF; 3.2, 3.5, 4.2 V8 (08-09), XJ; 3.2, 3.5, 4.2 V8 (97-08), XJ8; 4.0 (97-98), XK; 3.2, 3.5, 4.2 V8 (97-08), XK8; 4.0 (97-98)

**Engine Codes:** AJ26, AJ27, AJ28, AJ34

**Associated Tool:** VSE5091 - Timing Tool Kit - Jaguar, Land Rover, Daimler 3.2, 3.5, 4.0, 4.2, 4.4 V8 - Chain Drive (see page 403)



**B VSE2302**

**Timing Pin - Land Rover EDC 300TDi - Belt Drive**

Suitable for locking the flywheel in the timed position on Land Rovers fitted with the 300TDi engine EDC (Electronic Diesel Control) and manual transmission.

**OEM Tool:** LRT-12-085

**Applications:**

**Land Rover:** Defender (94-99), Discovery (94-98)

**Range Rover:** Classic (94-95)

**Engine Code:** 300 TDi EDC

**2.5D:** 300 TDi EDC



**D VSE3037**

**Timing Tool Kit - JLR 2.0/2.0D Ingenium Engine - Chain Drive**

Suitable for the new 2.0 Ingenium chain drive petrol and diesel engines from JLR. Contains all the essential tools required to lock the engines into their timed position. Includes the special tools required to set the camshaft adjusters. Supplied in a storage case with instructions and a warning tag.

**OEM Tools:** 303-1625, 303-1631, 303-1630, 303-1637, 303-1631, 303-1625

**Applications:**

**Jaguar:** F-Pace (17-22), XE (15-22), XF (15-20)

**Land Rover:** Discovery L462 (17-20), Discovery Sport L550 (15-21), Evoque L538 (15-21), Range Rover Sport L494 (16-21), Velar L560 (17-21)

**Engine Codes:**

**2.0:** AJ200P, AJ-200P, PT204

**2.0D:** AJ200D, AJ-200D, 204DT, 204DTA, 204DTD



**C VSE5312**

**Fuel Pump Holding Tool - Jaguar, Land Rover 3.0D TDV6 - Belt Drive**

Used to position and lock the high pressure fuel pump into its timed position when changing the fuel pump drive belt.

**OEM Tool:** 310-212

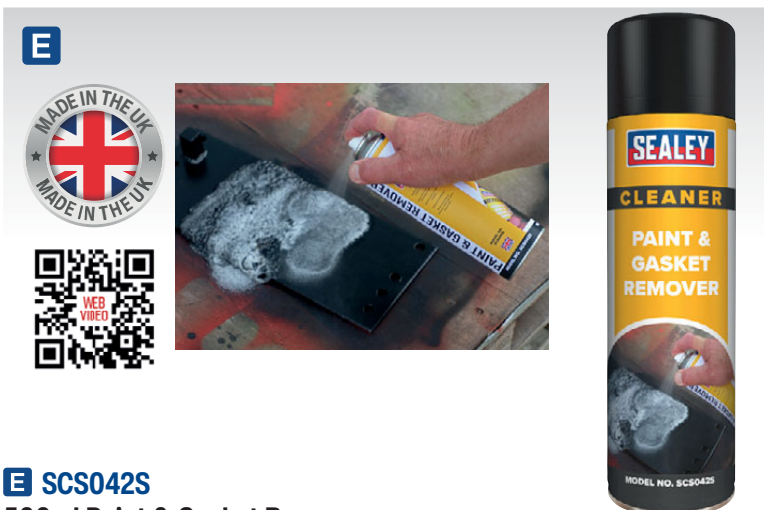
**Applications:**

**Jaguar:** XF (09-20), XJ (09-20), F-Pace (16-20)

**Land Rover:** Discovery 3 (04-09), Discovery 4 (09-20), Range Rover L405 (12-21), Range Rover Sport (09-22), Range Rover Velar (17-20)

**Engine Codes:** 3.0D TDV6: 306DT, AJ-V6D/306DT

**Associated Tool:** VSE5000A - Timing Tool Kit - Land Rover, Jaguar, Citroen, Peugeot 2.7D, 3.0D - Belt Drive (see page 387)



**E SCS042S**

**500ml Paint & Gasket Remover**

Used to remove gaskets from engine components, water pumps and manifolds. Removes paints, lacquers and varnishes. Also removes rubber residue from wheel hubs before fitting new or repaired tyres and burnt oil deposits from engine components.

**A**



**Belt**

**FORD  
JAGUAR  
LAND ROVER  
VOLVO**



**A VSE6126**

**Timing Tool Kit - Ford, Jaguar, Land Rover, Volvo 2.0D/2.2D/TDCi/TD4 - Belt Drive**

Contains flywheel locking tools and camshaft pin for engine timing and timing belt replacement on Land Rover 2.2D TD4, Volvo 2.0D and Ford 2.0/2.2D TDCi models.

**OEM Tools:** 303-1270, 303-1272, 303-1277, 303-393-01, 303-735, 303-1059, 303-393/303-393A, 999-7119, 999-7120, 999-7121, 999-7122

**Applications:**

**Ford:** C-Max (07-18), Grand C-Max (10-20), Focus (04-18), Focus C-Max (03-17), Galaxy (06-18), Kuga (08-17), Mondeo (07-18), S-Max (06-18)

**Jaguar:** XF (11-15)

**Land Rover:** Freelander 2 TD4 (06-15), Range Rover Evoque (11-15)

**Volvo:** C30 (06-10), C70 (06-10), S40 (03-10), S80 (07-10), V50 (04-10), V70 (07-10)

**Engine Codes:**

**2.0D TDCi:** D4204T, D4204T2, AZBA, AZBC, AZWA, G6DA, G6DB, G6DC, G6DD, G6DE, G6DF, G6DG, IXDA, KLBA, KLWA, LPBA, QXBA, QXBB, QXWA, QXWB, T7CE, T7CJ, T7CK, T7CL, T7DA, T7DB, T7MA, T7MB, T8CH, T8CD, T8CJ, T8CL, T8DF, TXBA, TXDA, TXDB, TXWA, TYBA, TYDA, TYWA, UFBA, UFDA, UFWA, UFWA, UKBA, UKDA, UKDB, UKWA

**2.2D TD4/TDCi:** DW12CTED4, DW12BTED/224DT, KNBA, Q4BA

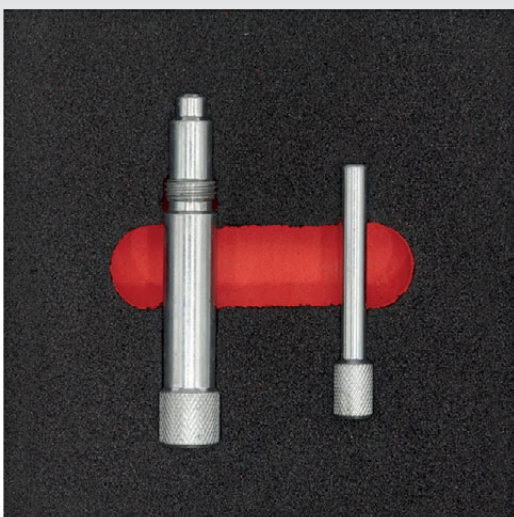
**2.2D (Jaguar):** AJi4D/224DT

**C**



**Chain**

**LAND ROVER**



**C VSE5986**

**Timing Tool Kit - Land Rover 2.5D/TD5 - Chain Drive**

Set comprises flywheel locking pin (threaded) and camshaft locking pin to cover engine timing on the Land Rover TD5 engines in Defender and Discovery models.

**OEM Tools:** LRT-12-058, LRT-12-158

**Applications:** Defender TD5 (99-07), Discovery II (98-05)

**Engine Codes:** 10P, 15P

**B**



**Chain**

**FORD  
CITROEN  
FIAT  
JAGUAR  
LAND ROVER  
LDV  
PEUGEOT**



**B VSE5842**

**Timing Tool Kit - Fiat, Ford, JLR, LDV, PSA 2.0D/2.2D/2.4D/3.2D - Chain Drive**

Provides timing retention for Ford 2.0, 2.2, 2.4 and 3.2 Duratorq 'Puma' chain diesel engines. Kit comprises Flywheel Locking Pins (common rail and non-common rail), Camshaft and Injection Pump Locking Pins, Tensioner Locking Pin.

**OEM Tools:**

**Ford:** 303-698 (21-251), 303-675 (21-234)

**Citroen/Peugeot:** 0198.B2, 0198.A, 0198.J

**Fiat:** 2.000.016.500, 2.000.017.100

**Jaguar:** 303-698

**Land Rover:** 303-698

**LDV:** LDV167, LDV173

**Applications:**

**Ford:** Mondeo (00-07), Ranger (11-17), Transit (00-14)

**Citroen:** Relay/Jumper III (06-12)

**Fiat:** Ducato (06-14)

**Jaguar:** X-Type (03-10)

**Land Rover:** Defender TD4 (06-11)

**LDV:** Convoy (02-06)

**Peugeot:** Boxer III (06-14)

**Engine Codes:**

**2.0D:** ABFA, D3FA, D5BA, D6BA, F3FA, FIFA, FMBA, FMBB, HJBA, HJBB, HJBC, HJBE, N7BA, N7BB, SDBA

**2.2D HDi/TDi:** 4HV, CVRB, CYFA, CYFB, CYFC, DRFA, DRFB, DRFC, P22DTE(4HG), P22DTE(4HH), P22DTE(4HJ), P22DTE(4HM), P22DTE(4HU), P22DTE(4HV), P8FA, P8FB, PGFA, PGFB, QJBA, QJBA(BG), QJBB, QJBC, QJBD, QVFA, QWFA, SRFA, SRFB, SRFC, SRFD, SRFE, UHFA, USRA

**2.4D Di/TDCi:** 244DT, D2FA, D2FB, D4FA, DOFA, F4FA, FXFA, H9FA, H9FB, H9FD, JXFA, JXFC, PHFA, PHFC, ZSD 424

**3.2D TDCi:** SAFA, SAFB

**Associated Tool:** VSE5944 - Auxiliary Belt Tension Tool (see page 396)

**D**



**Belt**

**JAGUAR  
LAND ROVER**



**D VS231**

**Crankshaft Sensor Trigger Wheel Installer - Jaguar, Land Rover**

Designed for the installation of the crankshaft trigger wheel found on Jaguar and Land Rover.

**OEM Tool:** 303-1130

**Applications:**

**Jaguar:** Jaguar XF (08-15), Jaguar XJ (10-20)

**Land Rover:** Discovery 3 (04-09), Discovery 4 (09-13), Discovery 4 (09-17), Range Rover Sport (05-09), Range Rover Sport (11-13)

**Engine Codes:**

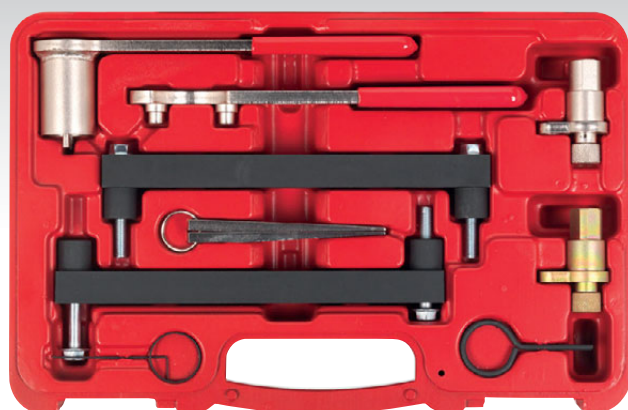
**2.7D:** 276DT

**3.0D:** 306DT, AJ-V6D/306DT

**A**



**Chain**



**JAGUAR  
LAND ROVER  
DAIMLER**

**A VSE5091**

**Timing Tool Kit - Jaguar, Land Rover, Daimler 3.2/3.5/4.0/4.2/4.4 V8 - Chain Drive**

Contains specialised tools required for timing chain setting and locking on Jaguar, Land Rover and Daimler 3.2, 3.5, 4.0, 4.2, 4.4 V8 petrol engines. Supplied with comprehensive instructions and storage case.

**OEM Tools:** 303-530, 303-531, 303-532, 303-533, 303-645, 303-654

**Applications:**

**Daimler:** V8 (97-03), SUPER V8 (97-03), SUPER EIGHT (05-10)

**Jaguar:** S-Type (99-08), XF (08-10), XJR (97-10), XJ8 (97-10), XKR (98-09), XK8 (96-09), Sovereign (97-03)

**Land Rover:** Discovery III (04-09), Range Rover (05-09), Range Rover Sport (05-09)

**Engine Codes:**

**3.2:** AC, KB, KC

**3.5:** RB

**4.0:** BC, CC, CE, DC, EC, GB, GC, LB, LC, MA, MB, NB, NC, PA, PB

**4.2:** 1B, 2B, 3B, 1G, 5G, 9G, HB, HG, SB, TB, PC, 428PS

**4.4:** 448PN

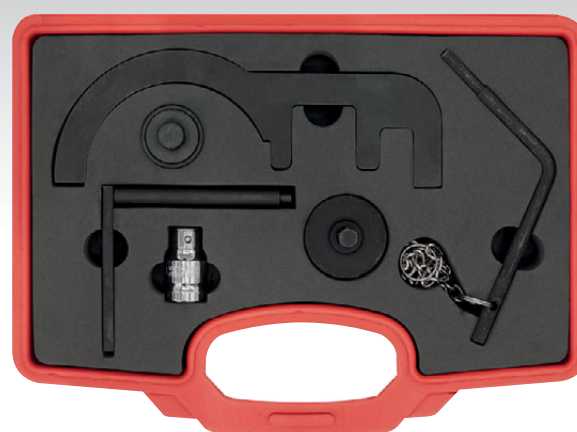
**Associated Tool:** **VSE5096** - Crankshaft Pulley Removal/Installation Kit Jaguar, Land Rover V8 - Chain Drive (see page 401)

**B**



**Chain**

**BMW  
MINI**



**B VSE6121A**

**Timing Tool Kit - BMW, BMW Mini 1.5D/1.6D/2.0D/3.0D Chain Drive**

Essential tools for timing the BMW, BMW Mini 1.5D, 1.6D, 2.0D and 3.0D chain drive diesel engines. Kit includes camshaft setting plate, flywheel locking pin, crankshaft turning tool, and is suitable for the new generation of modular engines. Kit also includes HP pump sprocket retaining tool required during pump removal/replacement applications on N47/N57 engines. Supplied in storage case with instructions and warning tag.

**OEM Tools:** 11.5.320, 11.6.480, 11.8.760, 11.8.740, 288-380

**Applications:**

**BMW:** 114d (15-19), 116d (11-19), 118d (07-14), 120d (07-14), 123d (07-14), 125d (12-14), 214d Active Tourer (14-19), 214d Grand Active Tourer (15-19), 216d (14-22), 216d Gran Coupe (20-22), 216d Gran Tourer (18-22), 218d (11-16), 220d (14-20), 225d (11-14), 316d (09-12), 318d (07-12), 320d (10-13), 325d (10-14), 330d (08-19), 330d Gran Turismo (13-20), 330xd (08-12), 335d (13-19), 425d (13-16), 425d (14-16), 435d Cabriolet (14-19), 435d Gran Coupe (14-20), 520d (07-13), 525d (10-12), 530d (10-15), 530d GT (09-19), 535d (10-17), 535d GT (10-12), 640d (11-18), 640d Gran Turismo (12-18), 730i (08-15), 730Ld (08-12), 740d (09-12), 750d (12-15), X1 (15-22), X2 (18-22), X3 (11-17), X4 (14-19), X5 (10-18), X6 (10-19)

**Mini:** Clubman (10-14), Clubvan (10-14), Cooper D (11-15), Cooper SD (10-15), Countryman (10-17), Coupe (11-14), One D (10-14), Paceman (13-17), Roadster (12-14)

**Engine Codes:**

**1.5D:** B37C15A, B37D15A

**1.6D:** N47 C16K1, N47 C16U1

**2.0D:** N47 D20K1, N47D20U1, N47D20O1, N47D20, N47D20T1, B37C15A, N47D20C, N47D20D, N47D20UO, N47TD20U1, N47TD20, N47TD20O1, D20D, N47D20O0, N47SD20T0, N47C20K1, N47C20U1

**3.0D:** N57D30U0, N57D30O0, N57D30O1, N57D30B, N57D30UO, N57D30T0, N57D30T1, N57D30B/T1, N57B30B, N57D30B/T0, N57D30C

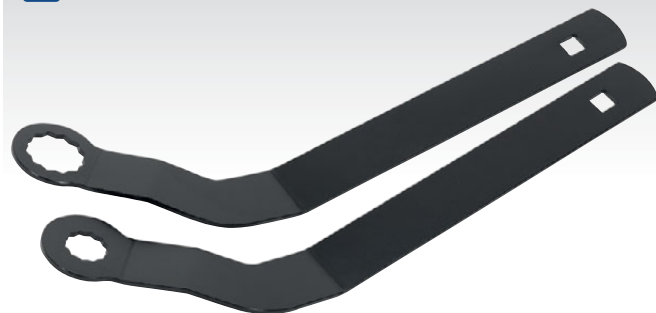
**Associated Tool:** **VSE6121.05** - Crankshaft Holding Tool - BMW N47/N57 2.0, 3.0 - Chain Drive (see page 380)

**C**



**Chain**

**MINI**



**C VSE6211**

**Auxiliary Belt Tensioner Spanner Set BMW Mini N12/N14/N16/N18 - Chain Drive**

2-Piece spanner set covering both sizes of belt tensioner fitted to a wide range of BMW Mini engines. Slimline design for access where space is limited. Sturdy handle also has a 1/2" Sq drive if required.

**OEM Tool:** 116-210

**Applications:** Mini R56/57 (06-15), Clubman R55 (07-14), Coupe R58 (11-15), Roadster R59 (11-15), Paceman R61 (13-17), Countryman R60 (10-17), Countryman R55 (12-14)

**Engine Codes:**

**1.4:** N12B14, N12B14AB

**1.6:** N12B16A, B14B16CD, N14B16CD/T0, N14B16TO, N16B16A, N16B16AM0, N16B16A/MO, N16B16K0, N16B16M0, N16B16UO, N18B16A, N18B16A/MO, N18B16A/MO, N18B16C, N18B16C/T0, N18B16MO

**D**



**Chain**

**MINI**



**D VSE2381**

**Timing Chain Wear Indicator BMW Mini**

Allows checking of wear of the timing chain on a range of BMW Mini petrol engines with the minimum amount of dismantling. This saves a significant amount of time when checking for timing chain stretch and wear.

**OEM Tool:** 235.3.281

**Applications:** Clubman (07-14), Coupe (11-15), Countryman (10-17), Clubvan (12-14), Mini (06-18), Paceman (13-17), Roadster (12-15)

**Engine Codes:**

**1.4:** N12B14, N12B14AB

**1.6:** N12B16A, N16B16A, N16B16M0, N16B16UO, N16B16A/MO, N16B16K0, N18B16A, N18B16A/MO, N18B16C, N18B16A/MO, N18B16MO, N18B16C/T0

**A NEW**



**MERCEDES  
RENAULT  
NISSAN  
DACIA**

**Chain**



**A VS5260**

**Timing Tool Kit - Dacia, Mercedes, Nissan, Renault 1.3 - Chain Drive**

Contents include Camshaft Alignment Tools, Crankshaft Alignment Tool and a Flywheel Locking Tool. Heavy-Duty Camshaft Holding Tools ensure accurate positioning. Supplied in a storage case with full instructions.

**OEM Tools:**

**Mercedes:** 282589004000, 282589002303, 282589002301, 282589002302  
**Renault:** MOT2188, MOT2203  
**Nissan:** MOT2188, MOT2203  
**Dacia:** MOT2188, MOT2203

**Applications:**

**Mercedes:** A160 (18-22), A180 (18-22), A200 (18-22), A200 (18-22), A250e (19-22), B160 (19-22), B180 (19-22), B200 (19-22), B250e (19-22), CLA180 Coupe (19-22), CLA 200 Coupe (19-22), CLA180 Shooting Brake (19-22), CLA200 Shooting Brake (19-22), CLA250e Shooting Brake (20-22), GLA180 (20-22), GLA200 (20-22), GLA250e (20-22), GLB180 (20-22), GLB200 (19-22)

**Renault:** Arkana (19-22), Captur (18-19), Captur II (19-22), Clio V (18-21), Kadjar (18-21), Koleos II (20-22), Megane IV (17-21), Scenic (18-21), Grand Scenic (18-21), Talisman (18-21)

**Nissan:** Qashqai (18-21), X-Trail (19-21)  
**Dacia:** Duster (18-21), Dokker (19-21), Lodgy (19-21)

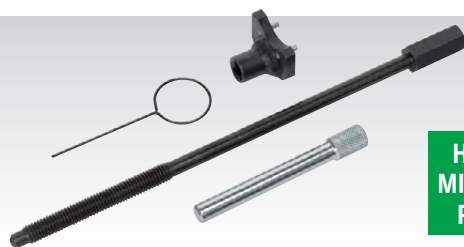
**Engine Codes:**

**Mercedes:** 282.914  
**Renault:** H5H450, H5H470, H5H480, H5H490  
**Nissan:** HR13DDT  
**Dacia:** H5H450, H5H470, H5H480, H5H490

**C**



**Belt**



**HYUNDAI  
MITSUBISHI  
PROTON**

**C VSE5768**

**Belt Tensioner Tool - Hyundai, Mitsubishi, Proton 1.6/1.8/2.0/2.4/3.0/3.5 - Belt Drive**

The special tools provided in this set are required for the refitting of the automatic tensioner after timing belt replacement on Hyundai, Mitsubishi and Proton engines.

**OEM Tools:** 09244-28100/MD998767/MD998752, 09244-28000/MD998738

**Applications:**

**Hyundai:** Lantra/Elantra (91-96), Santa Fe (01-06), Sonata (93-01), Sonata (93-05), Trajet (00-05)

**Mitsubishi:** 3000GT (93-00), 300 Series (96-05), 400 Series (96-05), Carisma (96-05), Challenger (98-00), Colt (88-95), Galant (93-03), Grandis (04-10), L200 (97-06), Lancer (89-08), Outlander (03-07), Sapporo (81-90), Shogun/Pajero/Montero (91-07), Shogun Pinin/Pajero Pinin/Montero iO (99-06), Sigma (91-96), Space Gear (95-00), Space Runner (99-04), Space Star (99-06), Space Wagon (92-05)

**Proton:** Persona/Compact (96-05), Satria (96-05), Wira (96-05)

**Engine Codes:**

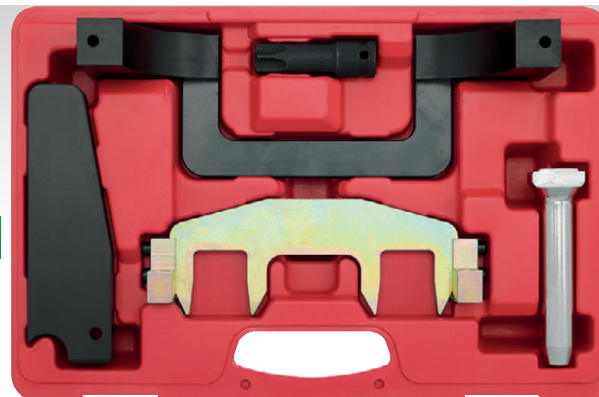
**1.6:** 4G61, G4-R  
**1.8:** 4G67, 4G93, 4G93P, G4-N  
**2.0:** 4G63, 4G94, G4CP, G4CPD, G4JP, G4-P  
**2.4:** 4G64, 4G69, G4JS  
**3.0:** 6G72  
**3.5:** 6G74

**B**



**Chain**

**MERCEDES**



**B VSE4816**

**Timing Tool Kit - Mercedes 1.6/1.8 M271 - Chain Drive**

Includes timing chain tensioner wedge to release the oil pressure from the hydraulic timing chain tensioner. A timing chain tensioner drift is provided to refit the blanking plug back into the crankcase after removing the chain tensioner. A T100 star bit is provided to remove the camshaft sprocket fixing bolts.

**OEM Tools:** 271.589.014.000, 271.589.006.100, 271.589.003.100, 271.589.001.500

**Applications:** C160K (04-07), C180K (02-13), C200K (02-10), C230K (02-06), C250 (11-15), CLC160K (09-12), CLC180K (09-12), CLC200K (02-12), CLK200K (02-09), E200 (06-16), E250 (09-13), E200K (02-07), SLK200 (11-15), SLK200K (04-11), Sprinter (07-18)

**Engine Codes:**

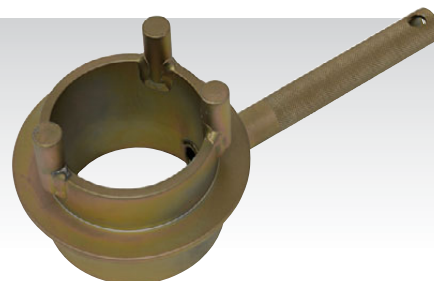
**1.6:** 271.910, 271.911  
**1.8:** 271.820, 271.860, 271.861, 271.921, 271.940, 271.941, 271.942, 271.943, 271.944, 271.946, 271.948, 271.950, 271.951, 271.952, 271.954, 271.955, 271.956, 271.957, 271.958

**D**



**Chain**

**MERCEDES**



**D VSE4819**

**Crankshaft Pulley Wrench - Mercedes 1.6/1.8 M271 - Chain Drive**

Designed as a counter-hold when removing and refitting the crankshaft pulley bolt. Suitable for Mercedes 1.6, 1.8 M271 petrol engines.

**Applications:** C160K (04-07), C180K (02-13), C200K (02-10), C230K (02-06), C250 (11-15), CLC160K (09-12), CLC180K (09-12), CLC200K (02-12), CLK200K (02-09), E200 (06-16), E250 (09-13), E200K (02-07), SLK200 (11-15), SLK200K (04-11), Sprinter (07-17)

**Engine Codes:**

**1.6:** 271.910, 271.911  
**1.8:** 271.820, 271.860, 271.861, 271.921, 271.940, 271.941, 271.942, 271.943, 271.944, 271.946, 271.948, 271.950, 271.951, 271.952, 271.954, 271.955, 271.956, 271.957, 271.958

**Associated Tool:** VSE4816 - Timing Tool Kit - Mercedes 1.6, 1.8 - Chain Drive (see B)

**Timing Tool Kit Finder**

The Timing Tool Kit Finder lists all vehicle applications, date ranges and engine codes. Simply select the make and model of your vehicle from the drop down menus and click on the picture of the Timing Tool Kit for more information.

Vehicle REG:

UK  EIRE

Make:

Engine Code:

Model:

Engine Size:

Year From:

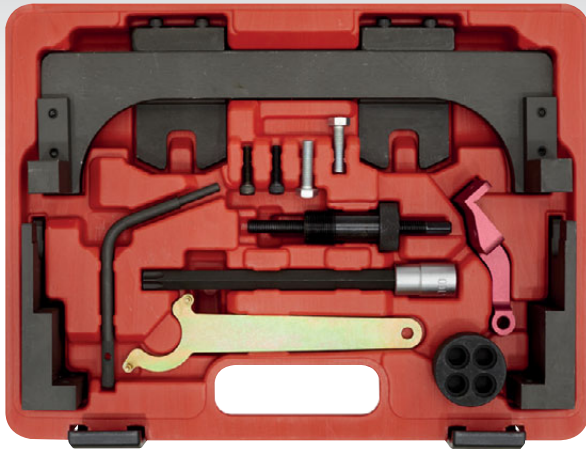
Use our online Timing Tool Kit Finder to search for kits, [www.sealey.co.uk](http://www.sealey.co.uk)

**A**



Chain

BMW  
MINI



**A VSE6122**

**Timing Tool Kit - BMW, BMW Mini 1.2/1.5/2.0/3.0 - Chain Drive**

Fits the new generation of BMW modular petrol engines. Contains the tools required to set and lock the engine and for valve timing checking and adjusting. Supplied in a storage case with instructions and a warning tag.

**OEM Tools:** 35.8.122, 28.8.380, 11.9.340, 11.6.480, 11.9.260

**Applications:**

**BMW:** i8 (14-20), 116i F20/21 (15-22), 140i F21/F22 (16-18), 216i F45 (14-17), 216i F46 Gran Tourer (15-22), 218i Coupe F22 (15-21), 218i F23 Cabriolet (15-17), 220i F45 (14-17), 220i F46 Gran Tourer (15-17), 225i F45 (14-17), 240i Coupe F22 (16-21), 240i Cabriolet F23 (16-21), 318 F30/31 (15-17), 330i F30/31 (15-17), 340i Gran Turismo F34 (16-20), 340i F30/31 (15-19), 340i F80 (15-18), 418i Gran Coupe (15-21), 418i Coupe (16-21), 440i Coupe F32 (16-20), 440i Cabriolet F33 (16-20), 440i Coupe F32 (16-20), 440i Gran Coupe F36 (16-21), 540i G30/31 (17-19), 640i Gran Turismo G32 (17-19), X1 F48 (15-22), X2 (18-22), X3 G01 (17-19), X4 G02 (17-19), Z4 (18-22)

**BMW Mini:** Clubman F54 (15-22), Countryman F60 (17-22), Convertible F57 (16-22), Mini F55 (14-22), Mini F56 (14-21)

**Engine Codes:**

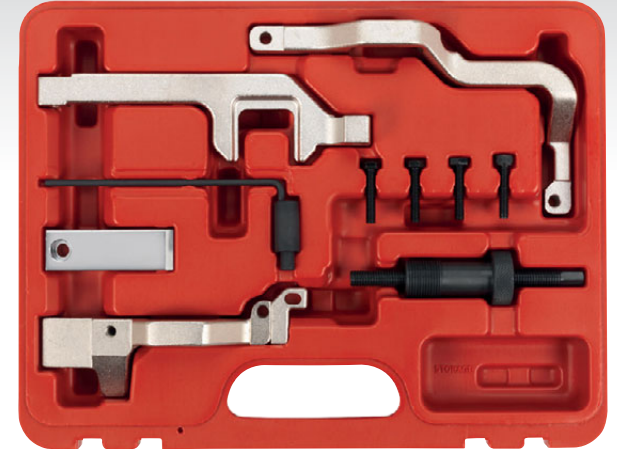
**1.2:** B38A12A  
**1.5:** B38A15A, B38B15A, B38K15A  
**2.0:** B48A20A, B48B20B  
**3.0:** B58B30A, B58B30B, B58B30C

**B**



Chain

MINI  
CITROEN  
PEUGEOT



**B VSE6131**

**Timing Tool Kit - BMW Mini, Citroen, Peugeot 1.4/1.6 16v Chain Drive**

Suitable for timing 1.4, 1.6 16v Valvetronic direct injection, chain drive petrol engines, fitted in BMW Mini, Citroen and Peugeot vehicles. Supplied in storage case with comprehensive instructions.

**OEM Tools:**

**BMW Mini:** 11.5.540, 11.5.590, 11.9.340, 11.9.550  
**Citroen:** 0197-A1, 0197-A3, 0197-B  
**Peugeot:** 0197-A1, 0197-A3, 0197-BZ

**Applications:**

**BMW Mini:** Mini Clubvan R55 (12-14), Mini Clubman R55 (08-14), Mini Countryman R55 (07-10), Mini Clubman R56/R57 (07-15), Mini R56/R57 (08-15), Mini Coupe R58 (11-15), Mini Roadster R59 (08-15), Mini Clubman R60 (10-14), Mini Clubvan R60 (12-14), Mini Roadster R61 (13-15), Mini Paceman R61 (14-17), Mini Countryman R60 (10-17)

**Citroen:** C4 (08-11), C4 Picasso (08-13), C4 Grand Picasso (13-15)

**Peugeot:** 207 (06-14), 207CC (07-15), 308 (07-15), 3008 (09-15), 5008 (09-15)

**Engine Codes:**

**1.4:** N12B14, N12B14AB  
**1.6:** EP3(8FS), EP3C(8FR), EP6(5FW), EP6C(5FS), EP6CDT(5FV), EP6DT(5FT), EP6DT(5FX), EP6DTS(5FY), N14B16A, N14B16CD, N14B16TO, N14B16CD/TO, N16B16A, N16B16K0, N16B16A/MO, N16B16A/MO, N16B16MO, N16B16U0

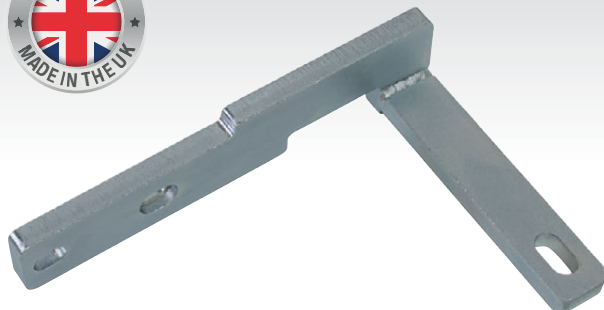
**Associated Tool:** **VSE6156** - Balance Shaft Alignment Tool Kit - BMW, BMW Mini, Citroen, Peugeot - Chain Drive (see page 384)

**C**



Chain

MINI



**C VS5214**

**Engine Support Bracket - BMW Mini**

Designed to provide a safe secure method for supporting the engine if the engine mounting has to be removed for cylinder head work. Prevents the engine from slipping or dropping unexpectedly. When installed the vehicle can be moved to another location without the need to use a lifting device. Suitable for N12, N14, N16 and N18 Engines fitted in BMW Mini models.

**Engine Codes:**

**1.4:** N12B14, N12B14AB  
**1.6:** N1216A, N14B16A, N14B16CD, N14B16CD/TO, N14B16TO, N16B16A, N16B16A/MO, N16B16A/MO, N16B16K0, N16B16MO, N16B16UO, N18B16A, N18B16A/MO, N18B16A/MO, N18B16C, N18B16C/TO, N18B16MO

**D**



Chain

MINI



**D VSE2381**

**Timing Chain Wear Indicator - BMW Mini**

Allows checking of wear of the timing chain on a range of BMW Mini petrol engines with the minimum amount of dismantling. This saves a significant amount of time when checking for timing chain stretch and wear.

**OEM Tool:** 235.3.281

**Applications:** Clubman (07-14), Coupe (11-15), Countryman (10-17), Clubvan (12-14), Mini (06-18), Paceman (13-17), Roadster (12-15)

**Engine Codes:**

**1.4:** N12B14, N12B14AB  
**1.6:** N12 B16A, N16 B16A, N16 B16MO, N16 B16UO, N16 B16A/MO, N16 B16K0, N18 B16A, N18 B16A/MO, N18 B16C, N18 B16A/MO, N18 B16MO, N18 B16C/TO

A



Chain

RENAULT  
MERCEDES  
NISSAN  
GM  
VAUX/OPEL

**A VSE5086A****Timing Tool Kit - Mercedes, Nissan, Renault, GM 1.6D/2.0/2.3dCi/CDTi - Chain Drive**

Suitable for setting and locking 2.0 and 2.3dCi/CDTi chain drive engines fitted in Renault, Mercedes, Nissan and Vauxhall/Opel models. Includes a crankshaft holding tool. Supplied in storage case with instructions and warning tag.

**OEM Tools:**  
**Renault/Nissan:** Mot1766, Mot1769, Mot1773, Mot1969, Mot1970, Mot1770  
**Mercedes:** 626589001500, 626589024000, 626589044000  
**Vauxhall/Opel:** KM-6130, EN-48334, EN-48331, EN-48330

**Applications:**  
**Renault:** Espace IV (06-10), Grand Espace IV (06-10), Grand Scenic II (06-09), Grand Scenic III (09-15), Koleos (08-19), Laguna II (05-07), Laguna III (07-15), Master III (10-15), Megane II (06-10), Megane IV (16-18), Scenic II (06-09), Scenic III (09-15), Scenic IV (16-18), Talisman (15-18), Trafic II (06-14), Vel Satis (05-10)  
**Nissan:** Primastar (06-15), Qashqai (07-16), X-Trail (07-19)  
**Mercedes:** C180 (14-15)  
**Vauxhall/Opel:** Movano-B (10-19), Vivaro (06-16)

**Engine Codes:**  
**1.6D:** 626.951, LQI/R9M452, LWU/R9M450, LWX/R9M408, LWX/R9M413, LWY/R9M452, LWZ/R9M408, R9M  
**2.0D CDTi:** M9R630, M9R700, M9R780, M9R782, M9R784, M9R786, M9R788  
**2.0dCi:** M9R, M9R610, M9R615, M9R630, M9R700, M9R720, M9R721, M9R722, M9R724, M9R740, M9R742, M9R744, M9R746, M9R748, M9R750, M9R754, M9R760, M9R761, M9R762, M9R763, M9R780, M9R782, M9R784, M9R786, M9R788, M9R800, M9R802, M9R805, M9R808, M9R812, M9R814, M9R815, M9R816, M9R820, M9R830, M9R832, M9R833, M9R834, M9R835, M9R836, M9R838, M9R845, M9R849, M9R855, M9R856, M9R858, M9R859  
**2.3D Bi-CDTi/Bi-CDTi ecoFlex:** LOD/M9T702, LOD/M9T708, LP6/M9T706, LW7/M9T706, LWK/M9T708  
**2.3D CDTi/ecoFlex:** LOB/N9T870, L2U/M9T680, L2U/M9T880, L2U/M9T896, L2U/M9T898, LWJ/M9T880, LWJ/M9T896, LWJ/M9T898, LWK/M9T870, LWK/M9T890, LWK/M9T892, LWL/M9T870, LWL/M9T890, M9T670, M9T672, M9T676, M9T678, M9T680, M9T686, M9T690, M9T692, M9T694, M9T698  
**2.3dCi:** LW7/M9T706, M9T670, M9T672, M9T676, M9T678, M9T680, M9T686, M9T690, M9T692, M9T694, M9T696, M9T698

C

DACIA  
MERCEDES  
RENAULT



Belt

**C VSE4810****Timing Tool Kit - Dacia, Mercedes, Renault, 1.5dCi - Belt Drive**

Essential tools for timing belt replacement on Dacia, Mercedes and Renault, 1.5dCi diesel engines. Supplied with a warning tag and instructions.

**OEM Tools:**  
**Mercedes:** 607.589.011.500, 607.589.001.500  
**Renault/Dacia:** Mot1430, Mot1489

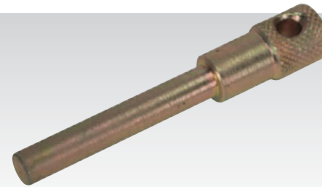
**Applications:**  
**Mercedes:** A180 (12-15), B160 (13-17), B180 (12-17), Citan (12-19), CLA (15-18), GLA (15-18)  
**Renault:** Bebop (12-13), Captur (13-15), Clio IV (12-15), Clio IV Grand Tour (13-15), Grand Kangoo II (13-16), Kangoo (13-16)  
**Dacia:** Dokker (12-15), Dokker Express (12-15), Duster (10-15), Lodgy (12-15), Logan (10-13), Logan Express (10-13), Logan Pick Up (10-13), Sandero II (10-13)  
**Engine Codes:** 607.951, K9K 608, K9K 609, K9K 612, K9K 796, K9K 846, K9K 856, K9K 858, K9K 884, K9K 892, K9K 894, K9K 898, K9K 896

B

RENAULT  
VAUX/OPEL  
DACIA



Belt

**B VSE1903****TDC Timing Pin - Dacia, Renault, Vauxhall/Opel - Belt Drive**

Used on a variety of diesel and petrol Dacia, Renault and Vauxhall/Opel engines.

**OEM Tools:** Mot1054, 861, 863

**Applications - Diesel:**  
**Dacia 1.2 16V:** Logan (09-17), Logan/MCV (13-17), Sandero (08-17)  
**Renault 1.9:** Avantime (05-07), Clio (99-08), Clio IV (12-18), Espace (97-08), Kangoo (99-08), Laguna (97-07), Master (00-06), Megane (95-08), Modus (04-08), Scenic (95-08), Trafic (01-08), Twingo (07-08), 2.5/2.8D Master (00-06) S8U S9W  
**Vauxhall/Opel 1.9:** Movano (00-08), Vivaro (01-08)

**Engine Codes - Diesel:**  
**Dacia:** D4F 732, D4F 734  
**Renault F8Q:** 600, 606, 610, 620, 622, 624, 630, 632, 640, 644, 646, 648, 662, 672, 676, 678, 680, 682, 684, 692, 696, 706, 710, 714, 722, 724, 730, 732, 740, 744, 764, 768, 776, 784, 786, 788, 790, P6  
**Renault F9Q 1.9:** 670, 674, 680, 718, 750, 752, 754, 717, 730, 731, 734, 736, 744, 780, 782, 820, 826, 870, 872  
**Vauxhall/Opel F9Q:** 724, 760, 762, 770, 774, W772  
**Vauxhall/Opel G9T:** 720, 750, F722

**Applications - Petrol:**  
**Renault:** 5 (90-96), Clio (97-03), Clio II (98-13), Clio III (02-15), Clio IV (12-16), Espace (98-07), Kangoo (98-05), Kangoo (98-04), Laguna (98-01), Laguna II (01-07), Megane (95-03), Megane II (02-12), Modus 1.2 (04-09), Grand Modus (04-13), Scenic (99-03), Grand Scenic (03-09), Megane Scenic (99-03), Twingo (10-14), Extra/Rapid/Rapid Express (97-01)

**Engine Codes - Petrol:**  
**Renault D4F:** 722, 728, 740, 764, 770, 772  
**Renault D7F:** 720  
**Renault D4P:** 720, 760, 770, 771  
**Renault F4R:** 700, 701, 720, 730, 740, 741, 744, 770, 771, 780  
**Renault F4Rt:** 776, 784, 786, 787  
**Renault F5R:** 700, 701, 740  
**Renault F8M:** 720, 730, 736, 760

D

RENAULT  
NISSAN  
SUZUKI  
DACIA



Belt

**D VSE1901A****Timing Tool Kit - Dacia dCi, Nissan 1.5D dCi, Renault, Suzuki DDiS Belt Drive**

Essential tools for timing belt replacement on Renault/Nissan 1.5D dCi diesels. Covers engine codes K9K. These engines are also fitted in Suzuki and Dacia models.

**OEM Tools:** Mot1489, KV113B0130, 09919-58110, Mot1054, Mot1430, KV113B0110, 09919-58120

**Applications:**  
**Dacia:** Dokker (12-15), Duster (10-14), Lodgy (12-15), Logan/MCV/Express/Pick Up (05-15), Logan Van (06-15), Sandero (08-11)  
**Nissan:** Cube Z12 (08-11), Juke F15 (10-17), Kubistar X76 (03-09), Micra K12 (03-10), Micra (17-19), Note E11 (06-12), NV200 M20 (09-16), Pulsar (14-15), Qashqai/+2 (07-15), Tiida C11 (07-11)  
**Renault:** Captur (13-17), Clio II/Clio Campus/Clio Storia (01-11), Clio III (05-15), Fluence (09-15), Kangoo (00-09), Kangoo II/Kangoo Be-Bop (08-13), Laguna III (07-15), Megane II (02-10), Megane III (08-15), Modus (04-08), Modus/Grand Modus II (08-11), Scenic/Grand Scenic II (03-15), Scenic/Grand Scenic III (09-15), Thalia (04-08), Twingo II (07-10)  
**Suzuki:** Jimny (03-11)

**Engine Codes:**  
**K9K 1.5D dCi:** 260, 270, 272, 274, 299, 612, 636, 646, 700, 702, 704, 706, 710, 712, 714, 716, 718, 722, 724, 728, 729, 732, 734, 740, 750, 752, 760, 762, 764, 766, 768, 770, 772, 774, 780, 782, 790, 792, 794, 796, 800, 802, 804, 806, 808, 816, 830, 832, 834, 836, 837, 846, 884, 892, 894, 896, 898  
**K9K 1.5D DDiS:** 262, 266, 299  
**F9Q 1.9D Di-D:** 1, 2

**A**



**Belt**



**RENAULT  
NISSAN  
VAUX/OPEL  
DACIA**

**A VSE5071**

**Timing Tool Kit - Dacia, Nissan, Renault, Vauxhall/Opel 1.4/1.6/1.8/2.0 16v - Belt Drive**

Suitable for timing belt replacement on the 1.4, 1.6, 1.8 and 2.0 engines fitted in Renault vehicles. Supplied in storage case.

**OEM Tools:** Mot1054, Mot1489, Mot1496

**Applications:**

**Dacia:** Logan/MCV (05-11)

**Renault:** Avantime (00-03), Clio II (99-06), Clio III/Sport (06-09), Espace/Grand Espace (98-02), Espace/Grand Espace IV (02-10), Kangoo/Trekka (01-09), Laguna (98-01), Laguna II (01-07), Laguna III (07-13), Megane (99-03), Megane II (02-10), Megane III/Sport (08-13), Megane/Scenic (99-00), Scenic/RX4 (99-03), Scenic/Grand Scenic II (03-09), Trafic II (01-11), Twingo II (08-14), Vel Satis (00-10), Wind (10-14)

**Nissan:** Kubistar X76 (03-09), Primastar (02-11)

**Vauxhall/Opel:** Vivaro (01-11)

**Engine Codes:**

**1.4 16v K4J:** 730, 732, 740

**1.6 16v K4M:** 752, 753, 760, 761, 764, 788, 812, 813, 854, 856

**1.8 16v F4P:** 720, 722, 760, 770, 771, 772, 773, 774, 775

**2.0 16v F4R:** 700, 701, 712, 713, 714, 715, 720, 722, 730, 732, 736, 738, 740, 741, 744, 746, 747, 762, 763, 764, 765, 766, 767, 770, 771, 780, 790, 791, 792, 820, 830, 832, 867

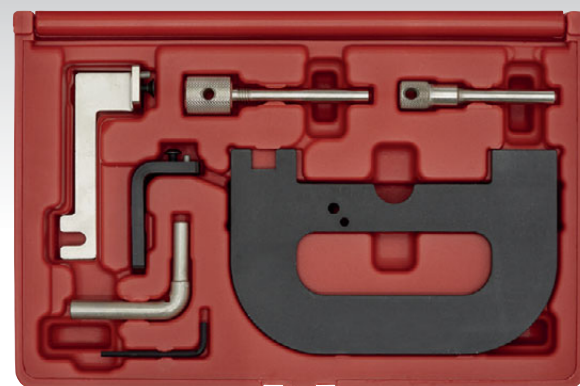
**2.0 16v F4R(t):** 720, 722, 764, 765, 774, 776, 784, 786, 787, 794, 795, 796, 797, 800, 802, 810, 811, 870, 872, 874, 886, 887, 896, 897

**B**



**Belt**

**RENAULT  
NISSAN  
VAUX/OPEL  
DACIA**



**B VSE5071A**

**Timing Tool Kit - Dacia, Nissan, Renault, Vauxhall/Opel, 1.4/1.6/1.8/2.0 K4J/K4M/F4P/F4R(t) - Belt Drive**

Suitable for timing belt replacement on the 1.4, 1.6, 1.8 and 2.0 engines fitted in Renault, Nissan, Vauxhall/Opel and Dacia vehicles. Kit features camshaft setting plate which avoids the camshaft position sensor on later 1.4 and 1.6 engines.

**OEM Tools:**

**Renault/Nissan:** Mot861, Mot1054, Mot1489, Mot1496, Mot1750

**Vauxhall/Opel:** KM-6031, KM-6233

**Applications:**

**Dacia:** Logan/MCV (05-11)

**Nissan:** Kubistar X76 (03-09), Primastar X83 (02-11)

**Renault:** Avantime (00-03), Clio II (99-06), Clio III/Sport (05-13), Espace/Grand Espace (98-02), Espace/Grand Espace IV (02-10), Kangoo/Trekka (01-09), Kangoo II/Be Bop (08-12), Laguna (98-01), Laguna II (01-07), Laguna III (07-13), Logan/MCV (05-11), Megane (99-03), Megane II (02-10), Megane III/Sport (08-15), Megane/Scenic (99-00), Modus (04-08), Modus/Grand Modus II (08-13), Scenic/RX4 (99-03), Scenic/Grand Scenic II (03-09), Scenic/Grand Scenic III (09-15), Trafic II (01-11), Twingo II/Sport (08-13), Vel Satis (00-10), Wind (10-14)

**Vauxhall/Opel:** Vivaro (01-11)

**Engine Codes:**

**1.4 16v K4J:** 700, 710, 711, 712, 713, 714, 715, 730, 732, 740, 750, 770, 780

**1.6 16v K4M:** 690, 700, 701, 704, 706, 708, 709, 710, 711, 712, 714, 716, 718, 720, 724, 730, 732, 734, 736, 740, 742, 743, 744, 745, 746, 748, 752, 753, 760, 761, 764, 766, 776, 782, 788, 790, 791, 792, 794, 800, 801, 802, 804, 812, 813, 824, 830, 831, 846, 848, 854, 856, 858, 862, 866

**1.8 16v F4P:** 720, 722, 760, 770, 771, 772, 773, 774, 775

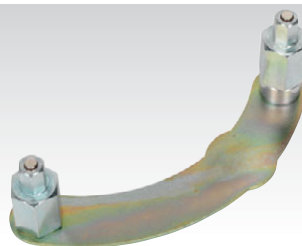
**2.0 16v F4R:** 700, 701, 712, 713, 714, 715, 720, 722, 730, 732, 736, 738, 740, 741, 744, 746, 747, 770, 771, 780, 790, 791, 792, 820, 830, 832

**2.0 16v F4R(t):** 720, 722, 762, 763, 764, 765, 766, 767, 774, 776, 784, 786, 787, 794, 795, 796, 797, 800, 802, 810, 811, 832, 870, 872, 874, 876, 886, 887, 896, 897

**C**



**Belt**



**SUBARU  
SAAB**

**C VSE5055**

**Camshaft Locking Tool Subaru, Saab - Belt Drive**

Useful time-saving tool designed to assist with the operation when replacing the timing belt on Subaru 2.0 and 2.5 litre engines and Saab 9-2X Aero DOHC Turbo engines. For use on hex key camshaft sprocket fixing bolts.

**Applications:**

**Subaru:** Impreza Turbo WRX (00-07), Impreza Turbo WRX Sti (01-05), Impreza WRX (05-07), Impreza WRX Sti (05-07), Forester (98-09), WRX (11-13), Baja Turbo (04-06), Legacy GT (05-10)

**Saab:** Saab 9-2X Aero (2005)

**Engine Codes:**

**2.0:** EJ205, EJ207

**2.5 Turbo:** EJ255, EJ257

**D**

**BULK  
PACK**



**D SEE BELOW**

**50ml Bearing Fit Retainer High Strength**

Retains bearings, even under high rotational loading. Keeps full strength with no fatigue under load stress and has low corrosiveness.

**Model No:** SCS601S

**Pack Quantity:** 1

**SCS601** 12

**E**



**Chain**

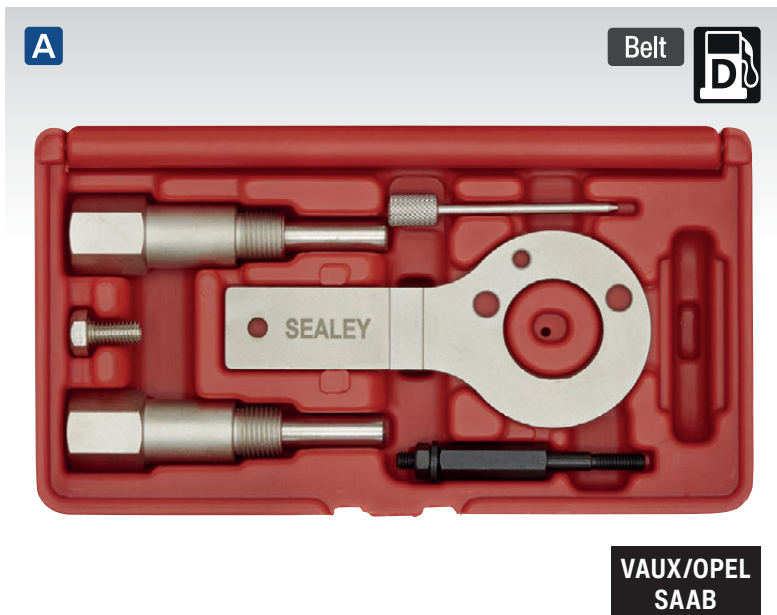
**NISSAN**



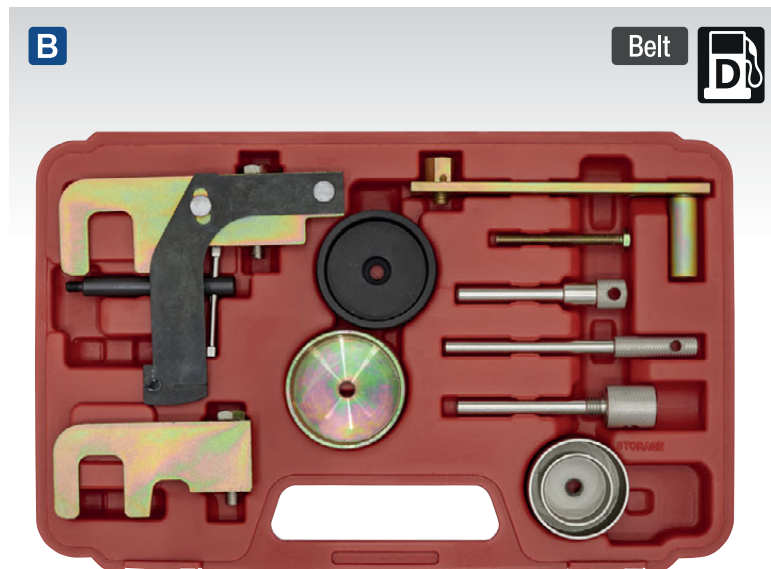
**E VSE1630**

**Injection Pump Sprocket Locking Pin Nissan 2.2D/2.5D**

Designed to lock the timing sprocket/injection pump sprocket on Nissan 2.2D, 2.5D chain driven diesel engines.



**VAUX/OPEL  
SAAB**



**DACIA  
MITSUBISHI  
NISSAN  
RENAULT  
SUZUKI  
VAUX/OPEL**

**A VSE5886A**

**Timing Tool Kit - Vauxhall/Opel, Saab  
1.9D CDTi/TiD/TTiD, 2.0D CDTi - Belt Drive**

Suitable for timing belt replacement on Vauxhall/Opel and Saab vehicles fitted with 1.9D CDTi/TiD/TTiD or 2.0D CDTi engines. Kit contains camshaft setting tools, crankshaft locking tool and tensioner pin. Supplied in storage case.

**OEM Tools:** EN-46788/32 025 009, EN-46789, 32 025 008, KM-6349/87 92 335

**Applications:**

**Vauxhall/Opel:** Astra-H (04-11), Astra-J (10-15), Cascada (13-15), Insignia (08-13), Signum (04-08), Vectra-C (04-08), Zafira-B (05-12), Zafira-C Tourer (11-15)

**Saab:** 9-3 (04-10), 9-5 (05-10)

**Engine Codes:**

**1.9D CDTi:** Z19DT, Z19DTH, Z19DTJ, Z19DTL

**1.9D TiD:** Z19DT, Z19DTH

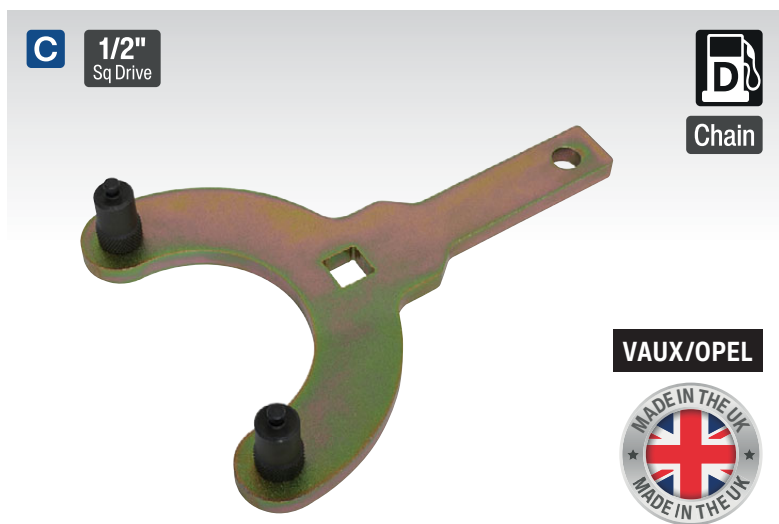
**1.9D TTTiD:** Z19DTR

**1.9D XTTiD:** A19DTR, Z19DTR

**2.0D CDTi/ecoFLEX:** LBQ/A20DTL, LBR/A20DT, LBS/A20DTH, LBX/A20DTJ, LBY/A20DTR, LCD/A20DTC

**2.0D TiD:** LBS/A20DTH

**2.0D TTTiD:** LBY/A20DTR



**C VS5254**

**Crankshaft Holding Wrench - Vauxhall/Opel 1.6D - Chain Drive**

Crankshaft pulley holding wrench. Suitable for Vauxhall/Opel 1.6 diesel engines.

**Applications:** Astra J (13-18), Astra K (15-18), GTC (15-18), Meriva B (13-17), Mokka (16-18), Mokka X (16-18), Insignia-B (15-17), Zafira-C (13-18)

**Engine Codes:** LVM/B16DTC, LWQ/B16DTE, LVL/B16DTH, LVL/B16DTJ, LVM/B16DTL, LVL/B16DTN, LVK/B16DTR, LWW/B16DTU

**B VSE5871A**

**Timing Tool Kit - Dacia, Mitsubishi, Nissan, Renault, Suzuki, GM  
1.5D/1.9D/2.2D/2.5D - Belt Drive**

Essential tools for timing belt replacement on Renault/Nissan 1.5D, 1.9D, 2.2D and 2.5D dCi diesel engines. Covers engine codes K9K, F9Q, G9T, G9U. These engines are also fitted in Vauxhall/Opel, Suzuki, Mitsubishi and Dacia models. Kit includes crankshaft locking pins, belt tensioner tools and camshaft setting plates.

**OEM Tools:**

**Renault:** Mot1054, Mot1430, Mot1489, Mot1534, Mot1536, Mot1537, Mot1538, Mot1543, Mot1705

**Nissan:** KV113B0110, KV113B0130, KV113B0360

**Vauxhall/Opel:** KM-6023, KM-6031, KM-6032, KM-6204, KM-6205, KM-6234

**Suzuki:** 09912-46510, 09919-58110, 09919-58120, 09919-76530

**Dacia:** Mot1430, Mot1489

**Mitsubishi:** MB996048

**Applications:**

**Renault:** Clio II/Clio Campus/Clio Storia (01-11), Clio III (05-11), Espace/Grand Espace (00-02), Espace/Grand Espace IV (02-09), Fluence (09-15), Kangoo (00-09), Kangoo Trekka (01-05), Kangoo II/Kangoo Be-Bop (08-13), Laguna (99-01), Laguna II (01-07), Laguna III (07-14), Master II (01-10), Megane (99-03), Megane II (02-10), Megane III (08-12), Modus (04-08), Modus/Grand Modus II (08-11), Scenic/RX4 (99-03), Scenic/Grand Scenic II (03-09), Scenic/Grand Scenic III (09-15), Thalia (07-08), Trafic II (01-12), Twingo II (07-14), Vel Satis (02-09)

**Nissan:** Cube Z12 (08-11), Interstar X70 (02-11), Juke F15 (10-12), Kubistar X76 (03-09), Micra K12 (03-10), Note E11 (06-12), NV200 M20 (09-12), Primastar X83 (02-12), Primera P12 (03-07), Pulsar (14-15), Qashqai/+2 J10 (10-14), Qashqai J11 (14-15), Tiida C11 (07-11)

**Vauxhall/Opel:** Movano-A (00-10), Vivaro (01-12)

**Suzuki:** Grand Vitara (05-15), Jimny (03-11)

**Dacia:** Duster (10-14), Logan/MCV/Express/Pick Up (05-13), Sandero (08-15)

**Mitsubishi:** Carisma (01-05)

**Engine Codes:**

**1.5D dCi K9K:** 612, 636, 700, 702, 704, 706, 710, 712, 714, 716, 718, 722, 724, 728, 729, 732, 740, 750, 752, 760, 762, 764, 766, 768, 772, 780, 782, 790, 792, 794, 796, 800, 802, 804, 806, 808, 830, 832, 834, 836, 837, 884, 892, 894, 896, 898

**1.5D DDiS K9K:** 262, 266, 299

**1.9D DDiS:** F9Q B2

**1.9D Di-D:** F9Q 1, F9Q 2

**1.9D dCi/CDTi F9Q:** 650, 660, 664, 670, 674, 680, 690, 718, 732, 733, 740, 748, 750, 751, 752, 754, 758, 759, 760, 762, 772, 774, 775, 790, 800, 803, 804, 808, 812, 814, 816, 818, 820, 826, 870, 872

**2.2D dCi/CDTi G9T:** 600, 605, 606, 607, 642, 700, 702, 703, 706, 707, 710, 720, 722, 742, 743, 750, 772

**2.5D dCi/CDTi G9U:** 630, 632, 650, 720, 724, 726, 730, 750, 754

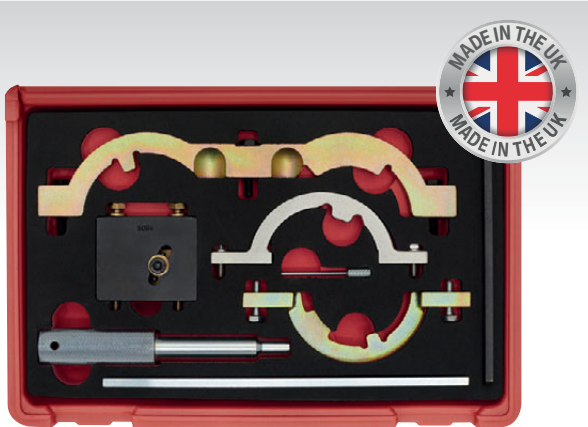


**A**



Chain

**VAUX/OPEL  
CHEVROLET  
SUZUKI**



**A VS5235**

**Timing Tool Kit - GM, Chevrolet, Suzuki 1.0/1.2/1.4/1.6 - Chain Drive**

Covers a wide range of Vauxhall/Opel and Chevrolet petrol engines. Includes the necessary tools for setting and locking the camshafts and crankshaft. Also includes the pins for locking the timing chain tensioner, locking tools for 1.0, 1.2, 1.4, 1.6 EcoTec/ EcoFLEX (codes X and Z) chain engines, and the timing disc position gauge for the timing sensor on the inlet camshaft. Supplied in storage case with instructions and a warning tag.

**OEM Tools:**

**GM:** EN-499-78, EN-49977-100, EN-49977-200, KM-6130, KM-952, KM-953, KM-953-A, KM-954, KM-955, KM-955-1, KM-955-2

**Suzuki:** 09919-08310, 09919-58310, 09912-38310, 09919-58320

**Applications:**

**Vauxhall/Opel:** Agila (00-08), Agila-B (08-10), Adam (12-18), Adam Rocks (14-18), Ampera (11-16), Astra-G (98-06), Astra G Classic II (03-10), Astra-H (04-11), Astra-J (09-18), Cascada (13-18), Combo (04-12), Corsa-B (97-00), Corsa-D (06-14), Corsa-C (00-14), Corsa-E (15-18), GTC (15-18), Insignia (11-17), Meriva-A (04-10), Meriva-B (10-17), Mokka (12-16), Mokka X (16-18), Tigra-B (04-10), Zafira-C Tourer (12-18)

**Chevrolet:** Aveo (11-15), Cruze (11-15), Orlando (11-15), Trax (13-15), Volt (12-14)

**Holden:** Volt (12-14)

**Cadillac:** ELR (14)

**Suzuki:** Wagon R (05-08)

**Engine Codes:**

**1.0:** A10XEP

**1.2:** A12XEL, A12XER, LWD/A12XEL, L2Q/A12XEL, LWD/B12XEL

**1.4:** A14XEL, A14XER, LUJ/A14NET, LDD/A14XEL, LDD/A14XER, L2Z/A14XEL, LDD/B14XEJ, LDD/B14XEL, LDD/B14XER, LUJ/B14NEH, LUH/A14NEL, LUJ/A14NEL, LUJ/B14NEL, LUJ/A14NET, LUJ/B14NET, LDD, LUU

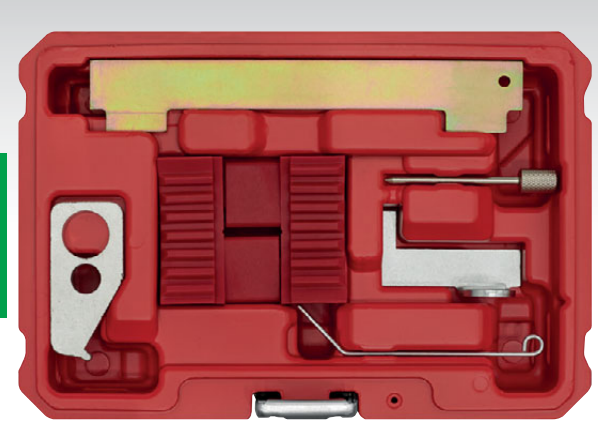
**1.6:** LDE/A16XER, LDE/B16XER

**B**



Belt

**VAUX/OPEL  
ALFA ROMEO  
CHEVROLET  
FIAT  
SAAB**



**B VSE5006**

**Timing Tool Kit - Alfa Romeo, Chevrolet, Fiat, GM, Saab 1.4/1.6/1.8 Twinport - Belt Drive**

Comprises camshaft setting tools and belt tensioner locking pins. Suitable for timing applications on all 1.4, 1.6 and 1.8 Twinport petrol engines with belt drive. Supplied in a storage case with instructions and a warning tag.

**OEM Tools:**

**Alfa Romeo/Fiat:** 2.000.012.000 2.000.012.100 2.000.012.800

**GM:** KM-911, KM-6625/EN-6625, KM-6340/EN-6340, KM-6349/KM-6130/EN-6349, KM-6333/EN-6333, KM-6628-A

**Applications:**

**Alfa Romeo:** 159 (05-10)

**Chevrolet:** Aveo (08-14), Cruze (09-15), Orlando (11-15)

**Fiat:** Croma (06-11), Stilo (05-08)

**Saab:** 9-5 (10-12)

**Vauxhall/Opel:** Astra-G (03-10), Astra-H (04-13), Astra-J (09-15), Corsa-D (07-14), Insignia (08-13), Meriva-A (06-10), Mokka (12-15), Signum (06-08), Vectra-C (06-08), Zafira-B (05-14), Zafira-C Tourer (11-15)

**Engine Codes:**

**1.4 16v:** G14D

**1.6:** A16LEL, A16LER, A16LET, A16XER, LDE/A16LER, LDE/A16XER, LLU/A16LET, Z16LEL, Z16LER, Z16LET, Z16XE1, Z16XEP, Z16XER

**1.6 ecoFLEX CNG:** A16XNT, LGE/A16XNT, Z16XNT

**1.8:** 2HO/A18XEL, 2HO/A18XER, A18XER, Z18XER, 939A4.000

**C VS1700**

**Timing Tool Kit - GM, Saab, Chevrolet EcoTec 1.4/1.6/1.8/2.0/ 2.2 16v - Belt Drive**

Designed to fit between camshaft sprockets to maintain camshaft timing position. Essential tools for timing belt replacement applications. Supplied as a pair.

**OEM Tools:**

**Vauxhall/Opel/Saab:** KM-852, KM-853

**Chevrolet:** EN-852

**Applications:**

**Vauxhall/Opel:** Astra-F (93-98), Astra-G (98-06), Astra-G Classic II (03-04), Astra-H (04-11), Kadett-E (88-91), Cavalier (90-95), Calibra (94-98), Combo-C (05-08), Corsa-B (94-00), Corsa-C (00-07), Frontera-A (95-98), Frontera-B (98-04), Meriva-A (03-10), Omega-B (94-03), Signum (03-07), Sintra (96-99), Tigra (95-00), Tigra-B (04-10), Vectra-B (95-02), Vectra-C (02-08), VX220/Speedster (03-06), Zafira-A (99-05), Zafira-B (05-13)

**Chevrolet:** Cruze (09-11)

**Saab:** 9-3 (03-10)

**Engine Codes:**

**1.4 16v:** X14XE

**1.6 16v:** Z16SE

**1.6 BiFuel CNG:** Z16YNG

**1.6 ecoFLEX CNG:** Z16YNG

**1.8 16v:** C18XE, C18XEL, X18XE, X18XE1, Z18XE, Z18XEL

**1.8 Dual Fuel:** Z18XE

**1.8i:** Z18XE

**1.8 16v:** Z18XE

**2.0 16v:** C20SEL, C20XE, X20XEV

**2.0 OPC/VXR:** X20XER, Z20LEH

**2.0 OPC/ZXR:** Z20LEH

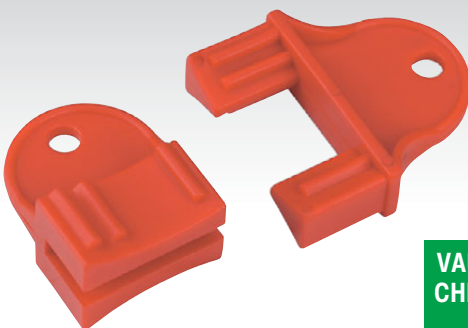
**2.0 Turbo:** Z20LEH, Z20LEL, Z20LER, Z20LET

**2.2 16v:** X22SE, X22XE, Y22SE, Y22XE, Z22XE

**C**



Belt



**VAUX/OPEL  
CHEVROLET  
SAAB**

**Timing Tool Kit Finder**

The Timing Tool Kit Finder lists all vehicle applications, date ranges and engine codes. Simply select the make and model of your vehicle from the drop down menus and click on the picture of the Timing Tool Kit for more information.

Vehicle REG:

**ENTER REG**

UK  EIRE

Search

Make

Select Make

Engine Code

Select Engine Code

Model

Select Model

Engine Size

Select Engine Size

Year From

Select Year From

Reset

Search

Use our online Timing Tool Kit Finder to search for kits, [www.sealey.co.uk](http://www.sealey.co.uk)

A



Chain

VAUX/OPEL  
SUZUKI**A VSE243****Timing Tool Kit - Vauxhall/Opel, Suzuki 1.0/1.2/1.4 - Chain Drive**

Includes locking tools for 1.0, 1.2, 1.4 EcoTec/EcoFLEX (codes X and Z) chain engines. Also includes the timing disc position gauge for the timing sensor on the inlet camshaft. Supplied in storage case.

**OEM Tools:** KM-952/09912-38310, KM-953/09919-58310, KM-954/09919-08310, KM-955/09919-58320, KM-6130

**Applications:**

**Suzuki:** Wagon R (05-08)  
**Vauxhall/Opel:** Agila (00-08), Astra-G (98-06), Astra G Classic II (03-10), Astra-H (04-11), Combo (04-12), Corsa-B (97-00), Corsa-C (00-07), Corsa-D (06-12), Meriva-A (04-10), Tigra-B (04-10)

**Engine Codes:**

**1.0 12v:** X10XE, Z10XE, Z10XEP  
**1.2 16v:** X12XE, Z12XE, Z12XEP  
**1.4 16v/ecoFLEX:** Z14XEL, Z14XEP

C



Belt

VAUX/OPEL  
CHEVROLET  
SAAB**C VSE5005****Timing Tool Kit - Chevrolet, GM, Saab - EcoTec 1.4/1.6/1.8 16v Belt Drive**

Set includes camshaft locking tool, designed to fit between camshaft sprockets to retain timing position on 1.4, 1.6 and later 1.8 16v EcoTec engines. Also includes flywheel holding tool (for crankshaft pulley removal) and auxiliary belt tensioner locking pin, which are required during timing belt replacement on these engines.

**OEM Tools:** KM-852/EN-852, KM-911, KM-6130

**Applications:**

**Chevrolet:** Cruze (09-11)  
**Saab:** 9-3 (02-12)  
**Vauxhall/Opel:** Astra-F (95-98), Astra-G (98-06), Astra-H (04-07), Combo-C (05-12), Corsa-B (94-00), Corsa-C (00-07), Meriva-A (03-10), Signum (03-07), Tigra (95-00), Tigra-B (04-10), Vectra-B (95-02), Vectra-C (02-08), Zafira-A (99-05), Zafira-B (06-13)

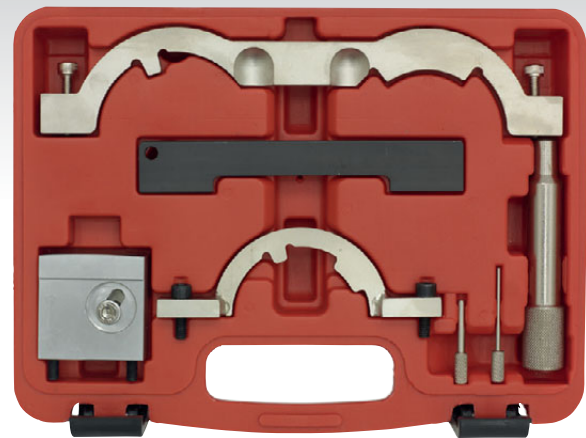
**Engine Codes:**

**1.4 16v:** X14XE, Z14XE  
**1.6 16v:** LXT, X16SEJ, X16XE, X16XEL, Y16XE, Z16XE  
**1.6 BiFuel CNG/ecoFLEX CNG:** Z16YNG  
**1.8 16v:** X18XE, X18XE1, Z18XE, Z18XEL  
**1.8 Dual Fuel:** Z18XE

B



Chain

VAUX/OPEL  
CHEVROLET  
HOLDEN  
CADILLAC**B VSE5007****Timing Tool Kit - Chevrolet, Vauxhall/Opel 1.0/1.2/1.4 - Chain Drive**

Covers a wide range of Vauxhall/Opel and Chevrolet petrol engines. Includes the necessary tools for setting and locking the camshafts and crankshaft, and pins for locking the timing chain tensioner. Supplied in a storage case with instructions and a warning tag.

**OEM Tools:** EN-49977-100, KM-953-A, KM-952, EN-499-78, EN-49977-200, KM-955-1, KM-955-2

**Applications:**

**Vauxhall/Opel:** Agila (00-03), Agila-B (08-10), Adam (12-19), Adam Rocks (14-19), Ampera (11-16), Astra-J (09-18), Cascada (13-19), Corsa-D (06-14), Corsa-C (00-14), Corsa-E (15-20), GTC (15-20), Insignia (11-17), Meriva-B (10-17), Mokka (12-16), Mokka X (16-20), Zafira-C Tourer (12-18)

**Chevrolet:** Aveo (11-15), Cruze (11-15), Orlando (11-15), Trax (13-15), Volt (12-14)

**Holden:**

Volt (12-14)

**Cadillac:**

ELR (2014)

**Engine Codes:**

**1.0/1.0 Ecoflex:** A10XEP  
**1.2/1.2 Ecoflex:** A12XEL, A12XER, LWD/A12XEL, L2Q/A12XEL, LWD/B12XEL  
**1.4/1.4 Ecoflex:** A14XER, LUJ/A14NET, LDD/A14XEL, LDD/A14XER, LDD/A14XEL, A14XEL, L2Z/A14XEL, LDD/B14XEJ, LDD/B14XEL, LDD/B14XER, LUJ/B14NEH, LUJ/B14NEL, LUJ/B14NET, LDD/D14XER, LDD/D14XEL, LUJ/D14NET  
**1.4 Turbo:** LUJ/A14NEL, LUJ/A14NET, LUJ/B14NET

D



Chain

VAUX/OPEL

**D VSE5067****Timing Tool Kit - GM 1.0/1.4 - Chain Drive**

Contains the essential tools required to set the camshafts into their timing position. Suitable for turbo and non-turbo 2014on engines. Supplied in a storage case with instructions and a warning tag.

**OEM Tools:** EN-51367, EN-51298, EN-51632

**Applications:**

Adam (14-18), Adam Rocks (14-18), Astra K (15-18), Corsa E (15-18), Mokka (16-18)

**Engine Codes:**

**1.0:** LE1/B10XFL, LE1/B10XFF, LE1/B10XHL, LE1/B10XFT  
**1.4:** LV7/B14XE, LE2/B14XFL, LE2/B14XFT

**A**



Belt

VAUX/OPEL



**A VS4620**

**Timing Tool Kit - GM, EcoTec/EcoFLEX 1.4-2.2 - Belt Drive**

Supplied in a convenient foam storage tray. See [www.sealey.co.uk](http://www.sealey.co.uk) for full details.

**B**

ALFA ROMEO  
FIAT  
FORD  
LANCIA  
PSA  
SUZUKI  
VAUX/OPEL



**B VSE5881A**

**Timing Tool Kit - Alfa Romeo, Fiat, Ford, GM, Lancia, Suzuki 1.3D JTD(M)/TDCi/DDiS/CDTi - Chain Drive**

Chain

Suitable for timing the camshaft and crankshaft, on chain drive 1.3 diesel engines. Set also includes a tensioner locking pin. Supplied in storage case.

**OEM Tools:**

Alfa Romeo/Fiat/Lancia:	1.871.00.900
Citroen:	104-A, 0198-J
Ford:	303-1472
Peugeot:	104-A, 0198-J
Suzuki:	09912-38300, 09916-98610, 09917-68610
Vauxhall/Opel:	EN-46781, EN-46785, KM-955

**Applications:**

Alfa Romeo:	MiTo (08-16)
Citroen:	Nemo (10-16)
Fiat:	500 (07-16), Doblo/Cargo (04-10), Fiorino (08-16), Grande Punto (05-11), Idea (04-12), Linea (07-11), Panda (03-16), Punto (03-11), Punto Evo (09-14), Qubo (08-16)
Ford:	Ka (09-15)
Lancia:	Musa (04-13), Ypsilon (03-15)
Peugeot:	Bipper (10-16)
Suzuki:	Ignis (03-09), Splash (08-11), Swift (06-14), Wagon R+ (03-08)
Vauxhall/Opel:	Agila (03-08), Agila-B (08-10), Astra-H (04-11), Astra-J (09-15), Combo-C (03-12), Corsa-C (03-12), Corsa-D (06-14), Meriva-A (04-10), Meriva-B (10-15), Tigra-B (04-10)

**Engine Codes:**

Alfa Romeo JTD Multijet:	199A3.000, 199B1.000
Citroen:	F13DTE5 (FHZ)
Fiat JTD Multijet:	169A1.000, 188A8.000, 188A9.000, 199A2.000, 199A3.000, 199A9.000, 199B1.000, 199B2.000, 223A9.000
Ford TDCi:	169A1.000(FD4)
Lancia JTD Multijet:	188A9.000, 199A3.000, 199B1.000
Peugeot:	(FHZ)F13DTE5
Suzuki DDiS:	D13A, Z13DT, Z13DTJ, Z13DTJ Eco
Vauxhall/Opel CDTi:	A13DTC, A13DTE, A13DTR, D13A, LDV/A13DTC, LSF/A13DTE, Y13DT, Y13DTH, Z13DT, Z13DTi, Z13DTH, Z13DTJ, Z13DTR

**C**



Chain

NISSAN  
RENAULT



**C VSE5032**

**Front Pulley & Flywheel Locking Tool Set - Chain Drive**

Suitable for a wide range of petrol and diesel engines fitted to Renault and Nissan vehicles. Contains a useful sump/cover separation tool.

**OEM Tools:** Mot1431, Mot1716, Mot2019, Mot1789, Mot919-02

**Applications:**

**Nissan:** Primastar (06-15), Qashqai/Qashqai+2 (07-14), X-Trail (07-14), Navara (15-16), NV400 (11-16)  
**Renault:** Espace V (15-16), Clio (06-16), Fluence (09-15), Laguna (05-15), Latitude (10-15), Megane (06-15), Scenic/Grand Scenic (06-15), Espace/Grand Espace IV (02-15), Koleos (08-16), Trafic II (07-15), Vel Satis (00-10), Master III (10-16)

**Engine Codes:**

1.4:	H4JT700
1.6:	M5M400, M5M450
2.0:	M4R700, M4R701, M4R704, M4R711, M4R713, M4R714
2.0D:	M9R726, M9R730, M9R735, M4R737, M9R740, M4R746, M9R742, M9R744, M9R746, M9R748, M4R750, M4R751, M4R752, M4R753, M4R754, M9R610, M9R613, M95615, M9R630, M9R750, M9R760, M9R761, M9R762, M9R763, M9R700, M9R721, M9R722, M9R724, M9R756, M9R780, M9R782, M9R800, M9R802, M9R803, M9R804, M9R805, M9R806, M9R808, M9R809, M9R811, M9R812, M9R814, M9R815, M9R816, M9R817, M9R820, M9R824, M9R828, M9R830, M9R832, M9R833, M9R834, M9R835, M9R836, M9R838, M9R839, M9R844, M9R845, M9R846, M9R849, M9R854, M9R855, M9R856, M9R857, M9R858, M9R859, M9R865, M9R866, M9R784, M9R786, M9R788
2.3D:	M9T670, M9T672, M9T676, M9T678, M9T680, M9T686, M9T690, M9T692, M9T694, M9T696, M9T698, M9T700, M9T702, M9T706, M9T708, M9T870, M9T880, M9T890, M9T896, M9T898, M9TC6, YS23DDT, YS23DDTT
2.5:	2TR700, 2TR702, 2TR703, 2TR704, 2TR705, 2ZV604, V4U604, VQ25
3.5:	V4Y701, V4Y711, V4Y713, V4Y715

**D**



Belt

VAUX/OPEL



**D VSE5009**

**Timing Tool Kit Chevrolet, Vauxhall/Opel 2.0D - Belt Drive**

Designed for Vauxhall/Opel/Chevrolet 2.0D common rail diesel engine. Locks the engine in the correct position whilst changing the timing belt on the SOHC 16v engine range. Supplied in storage case with instructions and warning tag.

**OEM Tools:** EN-48245, EN48246

**Applications:**

Chevrolet:	Captiva (07-11), Cruze (09-11), Epica (06-11), Lacetti (06-10), Nubira (07-10)
Vauxhall/Opel:	Antara (07-11)

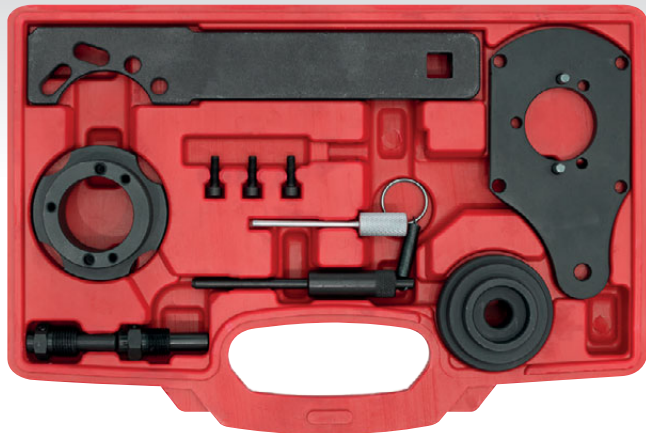
**Engine Codes:** Z20DM, Z20DMH, LLWZ20DMH, RA420, Z20S1

A

NEW



Chain



VAUX/OPEL

**A VSE5001****Timing Tool Kit - GM 1.3CDTi - Chain Drive**

Contains essential tools required when replacing the timing chain. Contents include crankshaft pulley hub holding tool and camshaft position sensor positioning tool. Supplied in a storage case with instructions and a warning tag.

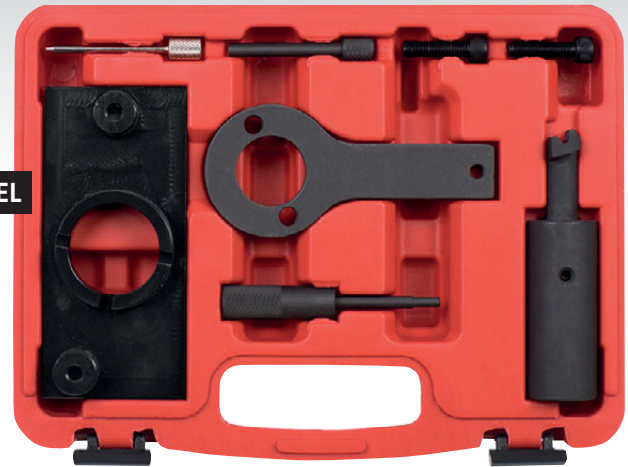
<b>OEM Tools:</b>	KM-662-C, EN-50515, EN-51500, EN-46775, KM-955-1
<b>Application:</b>	Corsa E (15-18)
<b>Engine Codes:</b>	LKU/B13DTR, LKU/B13DTE, LKV/B13DTC

B



Belt

VAUX/OPEL

**B VSE5740****Timing Tool Kit - Vauxhall/Opel 2.0CDTi - Belt Drive**

Suitable for Vauxhall/Opel 2.0 CDTi belt drive diesel engines. Essential tools required when replacing the camshaft drive belt. Contains a flywheel locking tool required on vehicles fitted with automatic transmission. Supplied in a storage case with full instructions.

<b>OEM Tools:</b>	EN 51413, EN 955-2, EN 51412, EN 51414, EN 51411
<b>Applications:</b>	Cascada (15-18), Insignia A (14-18), Insignia B (17-20), Zafira C (14-19)
<b>Engine Codes:</b>	LFS/B20DTH, LFS/D20DTH

C



Chain



VAUX/OPEL

**C VSE5741****Timing Tool Kit Chain in Cylinder Head - GM 2.0CTDi Chain Drive**

For the replacement of the timing chain within the cylinder head. Ensures the camshafts are locked into their timed position during timing chain replacement.

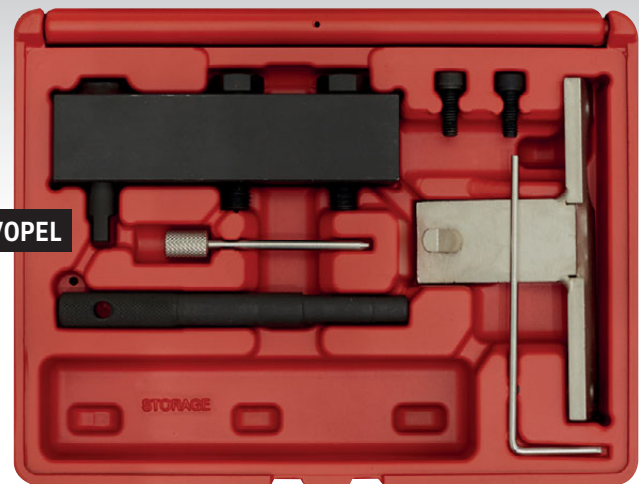
<b>OEM Tools:</b>	EN-51415, EN-51418
<b>Applications:</b>	Cascada (15-18), Insignia A (14-18), Insignia B (17-19), Zafira C (14-19)
<b>Engine Codes:</b>	LFS/B20DTH, LFS/D20DTH, LFS/D20DTH

D



Chain

VAUX/OPEL

**D VSE5020****Timing Tool Kit - GM 1.6CDTi - Chain Drive**

Suitable for 1.6 CDTi engine for timing chain removal and replacement of the timing chain. Includes the camshaft sprocket support bracket that will be required if removing the camshaft is required. Supplied in a storage case with comprehensive instructions.

<b>OEM Tools:</b>	EN6349, EN51143, EN51440, EN50513, EN51188
<b>Applications:</b>	Astra J (13-19), Astra K (15-19), GTC (15-18), Insignia A (15-17), Insignia B (18-20), Meriva B (13-17), Mokka (14-16), Mokka B (20-22), Mokka X (16-20), Zafira C Tourer (13-19)
<b>Engine Codes:</b>	LVM/B16DTC, LVL/B16DTE, LVL/B16DTH, B16DTJ, LVL/B16DTL, LVL/B16DTN, LVK/B16DTR, LVL/B16DTU, LVP/A16XHT, LVP/B16XHT, LWC/B16SHL, LVL/D16DTH, LVL/D16DTJ, LVL/D16DTN, LVK/D16DTR

E

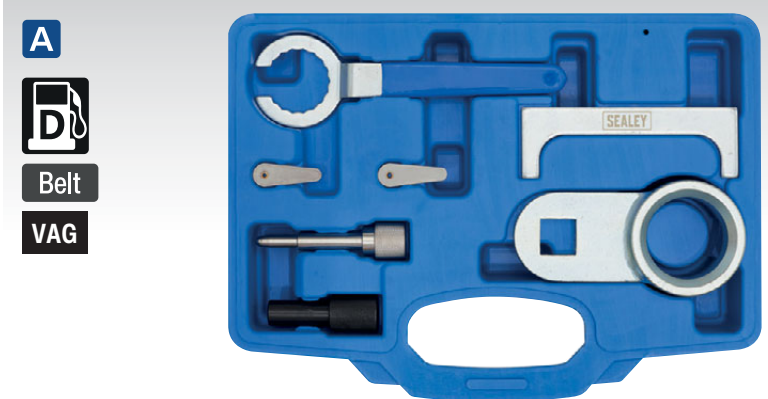
VAG

**E VSE5852****Service Position Front End Support Guide Set - VAG**

Suitable for extending the front panel of the vehicle to provide increased space in engine compartment for carrying out various service applications. These guides support the front end when it is extended out to "Service Position", which, on a number of models, is required as part of the timing belt replacement procedure.

<b>OEM Tools:</b>	3369, 3411, T10093, T20070, T30092
<b>Guide Sizes:</b>	M8 x 1.25mm Thread - Ø8mm M10 x 1.5mm Thread - Ø10mm M8 x 1.25mm Thread - Ø17mm

<b>Applications:</b>	
<b>Audi:</b>	A4, A5, A6, A8, Q5
<b>Skoda:</b>	Superb
<b>VW:</b>	Passat

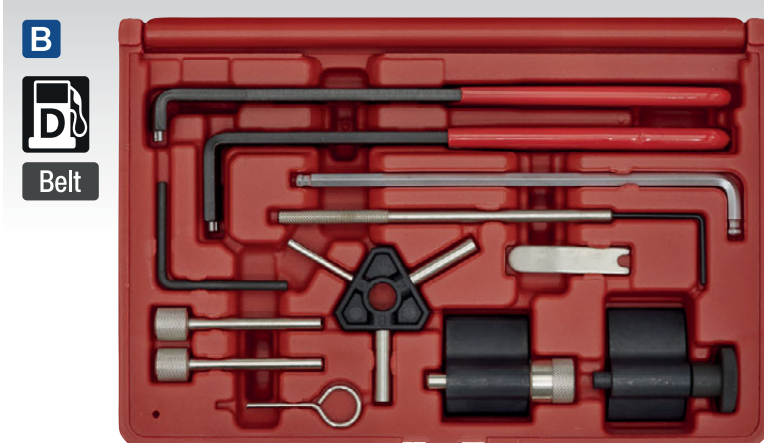


**A VSE5559**

**Timing Tool Kit - VAG 2.4/2.5D SDi/TDi/TDiCR - Belt Drive**

Specialised kit for timing belt replacement of VAG vans with 2.4/2.5D diesel engines, including the latest common rail engines. Kit includes crankshaft pulley holding tool, camshaft setting plate, injection pump and crankshaft locking pins and tensioner adjuster.

<b>OEM Tools:</b>	T10025/3248/3419, T50009, 2064, 2065A, 3355
<b>Applications:</b>	Crafter (06-13), LT (96-06), Transporter (90-03)
<b>Engine Codes:</b>	
<b>2.4D:</b>	AAB, AJA
<b>2.5D SDi:</b>	AGX
<b>2.5D TDi:</b>	ACV, AHD, AHY, AJT, ANJ, APA, AUF, AVR, AXG, AXL, AYC, AYY, BBE, BBF
<b>2.5D TDiCR:</b>	BJJ, BJK, B JL, BJM
<b>2.5D Blue TDiCR:</b>	CEBA, CEBB, CECA, CECB



**B VSE5951**

**Timing Tool Kit - VAG, Dodge, Ford, Mitsubishi 1.2D/1.4D/1.6D/1.9D/2.0D - Belt Drive**

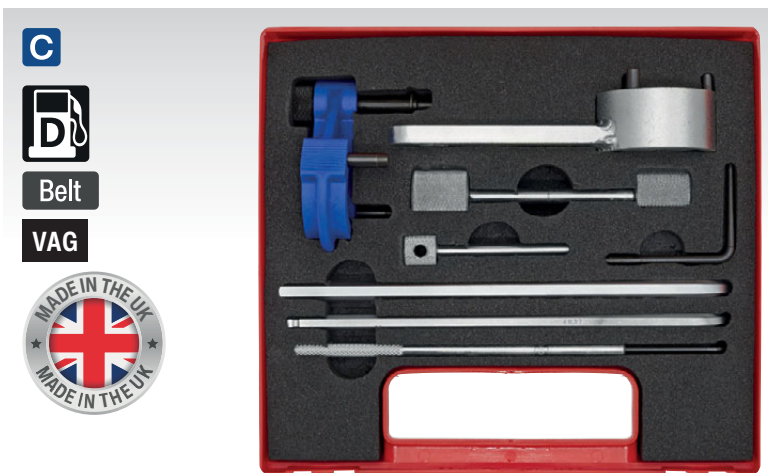
Comprehensive kit covering engine timing and belt replacement on VAG 1.2-2.0D Pumpe Duse and 1.2, 1.6, 2.0D common rail diesels. Also covers these engines fitted in Ford, Dodge and Mitsubishi models. Kit contains crankshaft locking tools for both oval and round crank gears, camshaft locking pins and tensioner adjustment tools. Supplied in storage case.

**VAG  
FORD  
DODGE  
MITSUBISHI**

<b>OEM Tools:</b>	
<b>VAG:</b>	T10008, T10020, T10050, T10060A/T40098, T10100, T10115, T10264, T10265, T20167, 3359/T20102, 3387/U-30009A
<b>Dodge:</b>	9882, 9883
<b>Ford:</b>	303-1053, 303-1054, 310-084/23-058, 310-085/23-059
<b>Mitsubishi:</b>	MB995206, MB995207, MB995209

<b>Applications:</b>	
<b>Audi:</b>	A1/Sportback (10-15), A2 (01-06), A3/Sportback (01-15), A4/Allroad (99-16), A5 (08-12), A5 Sportback (09-15), A5 Cabriolet (12-15), A6/Allroad (98-11), TT (08-14), Q3 (11-15), Q5 (08-15)
<b>Seat:</b>	Alhambra (99-15), Altea/Altea XL (04-15), Arosa (99-05), Cordoba (02-09), Exeo (09-14), Ibiza (02-15), Leon (00-12), Toledo (00-11)
<b>Skoda:</b>	Fabia (00-07), Fabia II (07-15), Octavia (00-10), Octavia II (04-13), Praktik (10-15), Rapid (12-15), Rapid Spaceback (13-15), Roomster (07-15), Superb (02-08), Superb II (08-15), Yeti (09-12)
<b>VW:</b>	Amarok (10-16), Beetle (00-11), Bora (98-08), Caddy/Maxi (03-15), Eos (06-15), Fox (05-11), Golf (98-12), Golf Plus (05-12), Jetta (05-11), Lupo (99-05), Passat/CC (98-15), Polo (99-12), Scirocco (08-12), Sharan (99-15), Tiguan (07-15), Touran (03-15), Transporter (03-19)
<b>Dodge:</b>	Caliber (06-11)
<b>Ford:</b>	Galaxy (99-06)
<b>Mitsubishi:</b>	Grandis (05-10), Lancer (05-10), Outlander (07-10)

<b>Engine Codes:</b>	
<b>Pumpe Duse:</b>	
<b>1.2D TDi PD:</b>	ANY, AYZ
<b>1.4D TDi PD:</b>	AMF, ATL, BAY, BHC, BMS, BNM, BNV, BWB
<b>1.9D TDi PD:</b>	AJM, ANU, ARL, ARX, ASZ, ATD, ATJ, AUY, AVB, AVF, AVG, AWX, AXB, AXC, AXR, BJB, BKC, BKE, BLS, BLT, BMT, BPX, BPZ, BRB, BRM, BRR, BRS, BRU, BSU, BSV, BSW, BTB, BUK, BVK, BXE, BXF, BXJ
<b>2.0D TDi PD:</b>	AZV, BEW, BKD, BDJ, BDK, BGW, BHW, BKP, BLB, BMA, BMM, BMN, BMP, BMR, BNA, BPW, BRC, BRD, BRE, BRF, BRT, BSS, BST, BUY, BUZ, BVA, BVE, BVF, BVG, BVH, BWV
<b>2.0D Di-D/CRD:</b>	ECD(BSY), ECD(BYL), ECE(BWD), BSY, BWC
<b>Common Rail:</b>	
<b>1.2D TDi CR:</b>	CFWA
<b>1.6D TDi CR:</b>	CAYA, CAYB, CAYC, CAYD, CAYE, CLNA
<b>2.0D TDi CR:</b>	CAAA, CAAB, CAAC, CAAE, CAGA, CAGB, CAGC, CAHA, CAHB, CBAA, CBAB, CBAC, CBBA, CBBB, CBDA, CBDB, CBDC, CBEA, CCHA, CCHB, CDBA, CDCA, CEFB, CFCA, CFFA, CFFB, CFFD, CFFE, CFFG, CFFH, CFFI, CFHA, CFHB, CFHC, CFHE, CFHF, CFJA, CGLA, CGLB, CJAA, CJCA, CJCC, CJCB, CJCD, CLCA, CLCB, CLJA, CMEA, CSHA
<b>Associated Tool:</b>	<b>VSE5852</b> - Service Position Front End Support Guide Set - VAG (see page 412)



**C VS5170**

**Timing Tool Kit - VAG 1.4D/1.6D/2.0D - Belt Drive**

Covers the new generation 3 and 4-cylinder common rail diesel engines. Includes the tools required for setting the camshaft drive gears within the cylinder head.

<b>OEM Tools:</b>	T10051, T10060A, T10264, T10265, T10409, T10490, T10492, VAG3359
<b>Applications:</b>	
<b>Audi:</b>	A1 (15-18), A1 Sportback (15-18), A3 (09-18), A3 Cabriolet (14-17), A4 (13-21), A4 Quattro (13-21), A4 Allroad (13-19), A5 (13-17), A5 Coupe (13-21), A5 Cabriolet (13-21), A5 Sportback (13-22), A6 (13-21), A6 Quattro (15-22), Q3 (11-18), Q5 (13-22)
<b>Seat:</b>	Alhambra (10-18), Ibiza (15-17), Leon (12-17), Leon ST (13-18), Toledo (15-18)
<b>Skoda:</b>	Fabia III (14-18), Octavia (13-15), Octavia III (15-18), Rapid (15-17), Superb III (15-18), Yeti (09-17), Yeti Outdoor (13-17)
<b>VW:</b>	CC (12-17), Caddy (98-21), Golf VI (09-13), Golf VII (12-17), Golf VII Estate (13-17), Golf VII SV/Sportsvan (14-17), Passat (11-18), Passat CC (10-12), Polo (14-18), Scirocco (14-18), Sharan (11-17), Tiguan (10-16), Transporter T6 (15-21)
<b>Engine Codes:</b>	
<b>1.4D TDi:</b>	CUSA, CUSB, CUTA
<b>1.6D TDi:</b>	CLHA, CLHB, CRKA, CRKB, CXMA, CXXA, CXXB
<b>2.0D TDi:</b>	BFSC, CFFA, CKFB, CKFC, CNHA, CNHC, CRBC, CRBD, CRFA, CRFC, CRKB, CRLB, CRLC, CRMB, CRVA, CRVC, CSUA, CSUD, CUNA, CUPA, CUVA, CUVV, CUWA, CXGA, CXGB, CXGC, CXGD, DETB, DEZB, DEZD, DEZE, DEZF, DETA, DEUA, DEUB, DEUC, DFBA, DFCA, DFLA, DFSB, DFSD, DFSE

**C**



**Belt**

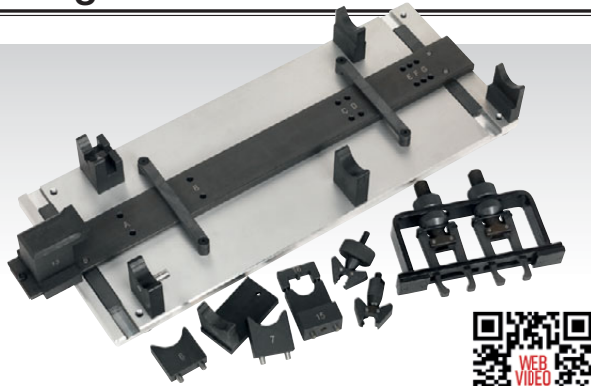
**VAG**



**A**

**Belt**  
**Chain**

**VAG**  
**PORSCHE**



**A VSE7171**

**Common Rail Camshaft Installation Kit**  
**Porsche, VAG 1.2D/1.6D/2.0D/2.7D/3.0D/4.0D/4.2D**

Camshaft installation kit for VAG/Porsche 1.2D, 1.6D, 2.0D, 2.7D, 3.0D, 4.0D, 4.2D common rail diesel engines. This range of engines has a belt or chain driving one camshaft with interconnecting spring loaded gears driving the second camshaft. This kit contains the essential tooling for correctly aligning the camshafts to each other and to their carrier. Kit is to be used in conjunction with Model No's VSE2090 and VSE2358 for 3 cylinder engines, VSE5951 and VSE5952 for 4-cylinder engines, and Model No. VSE6181 for V6 and V8 engines.

**OEM Tools:** T40094, T40094/1, T40094/2, T40094/9, T40094/10, T40094/11, T40095, T40096/1

**Applications:**

**Audi:** A1 (10-15), A1 Sportback (10-15), A3 (08-18), A3 Cabriolet (08-18), A3 Sportback (08-18), A4 (07-15), A4 Allroad (09-15), A4 Cabriolet (05-09), A4 Quattro (05-15), A5 (08-17), A5 Cabriolet (07-17), A5 Coupe (07-17), A5 Sportback (09-17), A6 (08-14), A6 Allroad (06-14), A6 Quattro (05-15), A7 (10-14), A8 (05-14), Q3 (11-15), Q5 (08-15), Q7 (07-17), TT (08-18)

**Porsche:** Cayenne (09-17), Macan (14-17), Panamera (13-17)  
**Seat:** Alhambra (10-15), Altea/Altea XL (09-15), Exeo (09-16), Ibiza (09-15), Leon (09-18), Leon ST (13-17)

**Skoda:** Fabia II (09-15), Octavia II (08-15), Octavia III (15-18), Praktik (10-15), Praktik Greenline (10-15), Rapid (12-15), Rapid Spaceback (12-15), Roomster (10-15), Superb II (08-15), Superb III (15-19), Superb II Greenline (10-15), Yeti (09-16), Yeti Greenline (10-16)

**VW:** Amarok (10-16), Crafter (11-18), Beetle (11-15), Beetle CC (12-15), Caddy/Caddy Maxi (09-17), EOS (08-15), Golf V Estate (07-11), Golf VI (08-13), Golf VI Bluemotion (09-13), Golf VI Cabriolet (11-15), Golf VI Estate (08-17), Golf VII (13-17), Golf Plus (08-14), Jetta (08-15), Passat (08-18), Passat Allroad (10-15), Passat Alltrack (12-15), Passat CC (09-15), Passat CC Bluemotion (09-15), Phaeton (07-14), Polo (09-14), Scirocco (08-14), Sharan (10-15), Tiguan (08-15), Touran (10-18), Touran Bluemotion (10-15), Touareg (08-15), Touareg Bluemotion (08-15), Transporter T5 (09-15), Transporter T5 Bluemotion (11-15), Transporter T6 (15-19)

**Engine Codes:**

**1.2D CR/Bluemotion:** CFWA  
**1.6D TDi CR/Bluemotion/Ecomotive:** CAYA, CAYB, CAYC, CAYD, CAYE, CEGA, CLNA, CRKB  
**1.6D TDi CR/Freetrack/Greenline:** CAYA, CAYB, CAYC, CAYD, CAYE, CEGA, CLNA, CRKB  
**2.0D BiTDi CR:** CDCA, CKTB  
**2.0D GTD CR:** CBAB, CBAC, CFFD, CFGB, CGLE, CKTB, CKUB, CKUC, CMEA, CMFA, CNEA  
**2.0D TDi CR/Bluemotion/Alltrack/Freetrack/TDie CR:** CAAA, CAAB, CAAC, CAAD, CAAE, CAGA, CAGB, CAGC, CAHA, CAHB, CAYA, CAYB, CAYC, CAYD, CBAA, CBAB, CBAC, CBBA, CBBB, CBDA, CBD, CBDC, CCHA, CCHB, CDBA, CDCA, CFCA, CEGA, CFFA, CFFB, CFFE, CFGB, CFGC, CFGD, CFHA, CFHB, CFHC, CFHD, CFHE, CFHF, CFJA, CGLA, CGLB, CGLC, CGLD, CJAA, CJCA, CJCB, CJCC, CJCD, CGLE, CKTB, CJGD, CKTC, CLCA, CLCB, CLJA, CLLA, CLLB, CNFA, CNFB, CRLB, CRLC, CRMB, CSHA, CUNA  
**2.7D TDi CR:** BPP, BSG, CANC, CAND, CAMA, CAMB, CANA, CGKA, CGKB  
**3.0D TDi CR/Bluemotion/Clean Diesel CR:** ASB, BKS, BMK, BNG, BUG, BUN, CASA, CASB, CASD, CASD, CAPA, CARA, CASD, CATA, CCLA, CCMA, CCWA, CCWB, CDUC, CDYA, CDYB, CDYC, CDTA, CDTB, CDUD, CEXA, CJGA, CJGC, CJGD, CJMA, CKVB, CKVC, CLAA, CLAB, CLZB, CMHA, CNEA, CNRB, CRCA, CTB, MCT.BA, MCR.CC, M059D, M059E

**4.0D TDi CR:** ASE  
**4.2D TDi CR:** CCFA, CCFC, CDSB, MCBU.DB

**Associated Tools:** VSE5951 - Timing Tool Kit - VAG, Dodge, Ford, Mitsubishi 1.2D, 1.4D, 1.6D, 1.9D, 2.0D - Belt Drive (see page 413), VSE5952 - Camshaft Sprocket Hub Remover/Installer Set - VAG - Belt Drive (see page 417), VSE6181 - Timing Tool & HP Pump Removal Kit - VAG 2.7D, 3.0D TDi V6, 4.0D, 4.2D TDi V8 - Chain Drive (see page 417)

**B**

**Belt**  
**Chain**

**Master Kit**

**Belt**

**Chain**

**VAG**



**B VSE5044**

**Timing Tool Master Kit - VAG - Belt/Chain Drive**

Comprehensive timing tool combination kit for 1.2, 1.4, 1.6, 1.7, 1.8, 1.9, 2.0, 2.4, 2.5 diesel and petrol engines fitted to Audi, Seat, Skoda and VW vehicles. Includes Service Position Support Guides required for service applications on some VAG vehicles. Supplied in storage case.

**OEM Tools:**

**VAG:** T10004, T10008, T10016/T10074, T10020/V159/U30009, T10050, T10092, T10098, T10115, T10120, T10121, T10123, T20038/MP1-312, T40011, 2064, 2065A/3418/U40021/U20006/MP1-300, 3242/T30052, 3359/T20102/U40074/MP1-301, 3366/T20044, 3369/T30092, 3387, 3411, 3458/T30094  
**Ford:** 21-105, 23-047

**Applications:**

**Audi:** 80 (91-96), 100 (91-94), A2 (00-06), A3 (96-12), A4 (94-09), A6 (94-05), A6 Allroad (00-05), A8 (97-02), S3 (99-03), TT (98-06)

**Ford:** Galaxy (95-06)

**Seat:** Alhambra (96-10), Altea/Altea XL (04-12), Arosa (98-05), Cordoba (93-09), Exeo (09-10), Ibiza (93-15), Inca (95-04), Leon (99-13), Toledo (94-09)

**Skoda:** Fabia (99-07), Fabia II (07-15), Felicia (95-01), Octavia/Octavia Tour (96-10), Octavia II (04-15), Roomster (06-15), Superb (02-08)

**VW:** Beetle (98-11), Bora (97-05), Caddy/Pick Up (95-14), Fox (05-12), Golf (93-12), Golf Plus (05-15), Jetta (05-11), Lupo (98-05), LT (77-96), Passat (96-10), Polo (98-12), Sharan (95-10), Touran (03-10), Transporter (90-13), Vento (94-98)

**Engine Codes - Diesel:**

**1.2D TDi PD:** ANY, AYZ  
**1.4D TDi PD:** AMF, ATL, BHC  
**1.7D:** AHG  
**1.7D SDi:** AHB, AKU, AKW  
**1.9D:** 1X, 1Y, ABL, AEF  
**1.9D Turbo:** AAZ  
**1.9D SDi:** AEY, AGD, AGP, AQM, ASX, ASY, AYQ  
**1.9D TDi:** 1Z, AFF, AFN, AGR, AHF, AHH, AHU, ALE, ALH, ASV, AVG  
**1.9D TDi PD:** AJM, ANU, ARL, ASZ, ATD, ATJ, AU, AVB, AVF, AWX, AXR, BSW, BTB, BVK, BKC  
**2.4D:** 1G, 1S, ACT, DW, DV  
**2.5D TDi V6:** AFB, APB, AKE, AKN, AYM, BAU, BCZ, BDG, BDH, BFC

**Engine Codes - Petrol:**

**1.2 3cyl 6v:** AWY, BBM, BMD, CHFA, CHFB  
**1.2 3cyl 12v:** AZQ, BME, BXV, BZG, CEVA, CGPA, CGPB, CJLA  
**1.4 16v:** AFK, AHW, AKQ, APE, AQQ, AUA, AUB, AXP, BBY, BBZ, BCA, BKY, BUD, BXW, CGGA, CGGB, CMAA  
**1.4 FSi:** ARR  
**1.6 16v:** AJV, ARC, ATN, AUS, AVY, AZD, BCB  
**1.6 FSi:** BAD  
**1.6:** 1F, ABM, ADA, ADP, AEH, AEK, AFT, AHL, AKL, AKS, ALZ, ANA, APF, ARM, AUR, AVU, AYD, BFQ, BFS, BGU, BSE, BSF, CCSA, CHGA, CMXA  
**1.8:** ABS, ADL, ADR, ADZ, AFY, AGN, AJP, APG, APT, ARG, AVV  
**1.8T:** AEB, AGU, AJH, AJL, AJQ, AMK, AMU, ANB, ANP, APP, APU, APY, AQA, AQX, ARX, ARY, ARZ, AUM, AUQ, AVC, AWC, AWT, AWU, AYP, BAM, BFV, BVP, BVR  
**2.0:** 2E, AAC, AAE, ABF, ABK, ABT, ACE, AWA, ADY, AEG, AGG, AKT, APK, AQY, ATM, ATU, AWF, AWG, AXA, AZG, AZH, AZJ, AZL, AZM, BBX, BEH, BSX



**A VSE2351**

**Timing Tool Kit - VAG 2.5D TDi V6 - Belt Drive**

Suitable for the VAG 2.5 V6 diesel engines first introduced in 1997. Includes front end support guides, crankshaft locking pin, camshaft setting plates, injection pump locking pin, tensioner socket and tensioner locking pin.

**OEM Tools:** 3078, 3242, 3359, 3369, 3458, T30052, T30092, T30094, T40011

**Applications:**

**Audi:** A4 (97-09), A6 (97-05), A6 Allroad (00-05), A8 (97-02)

**Skoda:** Superb (02-08)  
**VW:** Passat (98-05)

**Engine Codes:** AFB, AKE, AKN, AYM, BAU, BCZ, BDG, BDH, BFC



**D VSE2356**

**Timing Tool Kit - VAG, Ford 1.2D/1.4D/1.9D TDi Pumpe Duse - Belt Drive**

For VAG 1.2D, 1.4D and 1.9D TDi PD (Pumpe Duse) engines with Hydraulic Belt Tensioner. Kit includes crankshaft locking tool (round gears), plus camshaft and tensioner locking pins.

**OEM Tools:**

**Ford:** 310-084/23-058, 310-085/23-059

**VAG:** 3359/T20102/MP1-301, T10008, T10050

**Applications:**

**Audi:** A2 (01-06), A3 (01-03), A4 (99-04), A6 (98-05)

**Ford:** Galaxy (99-06)

**Seat:** Alhambra (99-10), Arosa (99-05),

Leon (00-05), Toledo (00-05)

**Skoda:** Fabia (00-01), Fabia II (07-10), Octavia

(00-06), Octavia Tour (05-10), Superb (02-08),

Roomster (06-07)

**VW:** Beetle (00-11), Bora (98-02), Golf (98-12), Lupo

(99-05), Passat (98-02), Polo (99-02), Sharan (99-10)

**Engine Codes:**

**1.2D TDi PD:** ANY, AYZ

**1.4D TDi PD:** AMF, ATL, BHC

**1.9D TDi PD:** AJM, ANU, ARL, ASZ, ATD, ATJ, AUJ, AVB, AVF, AWW, AXR, BSW, BTB, BVK

**Associated Tool:** **VSE5852** - Service Position Front End Support Guide Set - VAG (see page 412)



**B VSE6281**

**Timing Tool Kit - VAG 1.4D/1.6D/2.0D Common Rail - Belt Drive**

Covers the new generation 3 and 4-cylinder common rail diesel engines. Includes the tools required for setting the camshaft drive gears within the cylinder head.

**OEM Tools:** T10490, T10492, T10051, 3359, T10060, T10264, T10265

**Applications:**

**Audi:** A1 (15-18), A3 (09-16), A3 Sportback (09-16), A3 Cabriolet (09-16), A3 Saloon (13-16), A4 (13-21), A4 Allroad (13-19), A4 Quattro (13-15), A5 (13-15), A5 Coupe (13-21), A5 Cabriolet (13-21), A5 Sportback (13-22), A6 (11-21), Q3 (13-15), Q5 (13-15), TT (14-17)

**Seat:** Alhambra (10-17), Leon (12-17), Leon ST (13-17)

**Skoda:** Octavia III (13-17)

**VW:** CC (15-17), Golf VI (09-13), Golf VII (12-17), Golf VII Estate (13-17), Golf Alltrack (14-17), Golf SV/Sportsvan (14-17), Passat (11-17), Passat Alltrack (15-17), Sharan (11-17), Tiguan (10-15), Transporter T6 (15-21)

**Engine Codes:**

**1.4D TDi:** CUSA, CUSB, CUTA  
**1.6D TDi:** CLHA, CLHB, CRKA CRKB, CXMA CXXA, CXXB

**2.0D TDi:** BFSC, CFFA, CKFB, CKFC, CNHA, CNHC, CRBC, CRBD, CRFA, CRFC, CRKB, CRLB, CRLC, CRMB, CRVA, CRVC, CSUA, CSUD, CUNA, CUPA, CUVA, CUVC, CUWA, CXGA, CXGB, CXGC, CXGD, DETB, DEZB, DEZD, DEZE, DEZF, DETA, DEUA, DEUB, DEUC, DFBA, DFCA, DFLA, DFSB, DFSD, DFSE



**E VSE2092**

**Timing Tool Kit - 1.2D/1.4D/1.6D/2.0D VAG, Ford & Mitsubishi - Belt Drive**

Master timing tool kit for a wide range of VAG, Ford and Mitsubishi diesel engines. Suitable for 3 and 4-cylinder belt drive engines. Includes oil pump and belt tensioner locking pins. Supplied in a storage case with instructions and a warning tag. See www.sealey.co.uk for full list of OEM Tools and Engine Codes.



**C VSE2090**

**Timing Tool Kit - VAG 1.4D/1.6D/2.0D Common Rail - Belt Drive**

Covers the new generation 3 and 4-cylinder common rail diesel engines. Includes the tools required for setting the camshaft drive gears within the cylinder head. Supplied in a storage case with instructions and a warning tag.

**OEM Tools:** T10490, T10492

**Applications:**

**Audi:** A1 (15-18), A1 Sportback (15-18), A3 (09-17), A3 Sportback (09-18), A3 Saloon (12-18), A3 Cabriolet (09-18), A4 (13-21), A4 Quattro (13-21), A4 Allroad (13-19), A5 (14-17), A5 Sportback (13-22), A5 Coupe (13-21), A5 Cabriolet (13-21), A6 (13-21), A6 Quattro (15-22), TT (14-18), Q3 (11-18), Q5 (13-22)

**Seat:** Alhambra (10-18), Ibiza (15-17), Leon (12-18), Leon ST (13-18), Toledo (15-18)

**Skoda:** Fabia III (14-18), Fabia III Estate (14-18), Rapid (15-18), Rapid Spaceback (15-18), Octavia III (13-18), Superb III (15-20)

**VW:** CC (12-17), Golf VI (09-13), Golf VII (12-17), Golf VII Estate (13-17), Golf VII SV/Sportsvan (14-17), Passat (11-18), Passat CC (10-12), Polo (14-18), Sharan (11-18), Scirocco (14-18), Tiguan (10-16), Touran (15-18), Transporter T6 (15-21)

**Engine Codes:**

**1.4D:** CUSA, CUSB, CUTA

**1.6D:** CLHA, CLHB, CRKA, CRKB, CXMA, CXXA, CXXB

**2.0D:** BFSC, CFFA, CKFB, CKFC, CNHA, CNHC, CRBC, CRBD, CRFA, CRFC, CRKB, CRLB, CRLC, CRMB, CRVA, CRVC, CSUA, CSUD, CUNA, CUPA, CUVA, CUVC, CUWA, CXGA, CXGB, CXGC, CXGD, DETB, DEZB, DEZD, DEZE, DEZF, DETA, DEUA, DEUB, DEUC, DFBA, DFCA, DFLA, DFSB, DFSD, DFSE

**E VSE2092 Applications:**

**Audi:** A1 (10-15), A2 (00-06), A3 (01-13), A4 (01-16), A5 (08-15), A6 (10-14), TT (08-14), Q3 (11-15), Q5 (08-15)

**Chrysler:** Sebring (07-10)

**Dodge:** Caliber (06-11)

**Ford:** Galaxy (02-06)

**Mitsubishi:** Grandis (05-10), Lancer (05-10),

Outlander (07-10)

**Seat:** Alhambra (00-15), Altea/Altea XL (04-15),

Cordoba (02-09), Ibiza (02-15), Leon (00-13), Toledo

(04-11)

**Skoda:** Fabia (00-14), Fabia II (07-15), Octavia (00-10),

Octavia II (01-15), Praktik (10-15), Rapid (11-15),

Roomster (07-15), Superb (02-08), Superb II (08-15),

Yeti (09-14)

**VW:** Amarok (10-16), Beetle (02-15), Bora (02-08),

Caddy/Caddy Maxi (03-15), Crafter (11-17), Eos (06-15),

Fox (05-11), Golf (02-15), Golf Plus (05-15), Jetta (05-15),

Lupo (02-05), Passat (02-15), Polo (99-14), Scirocco

(08-14), Sharan (02-15), Tiguan (07-15), Touran (03-15),

Transporter (03-19)

**A VSE2358**
**Timing Tool Kit - Ford, Dodge, Mitsubishi, VAG  
1.2D/1.4D/1.6D/1.9D/2.0D TDi Common Rail - Belt Drive**

For VAG 1.4D, 1.9D, 2.0D TDi PD (Pumpe Duse) and 1.2D, 1.6D, 1.9D, 2.0D CR (Common Rail) engines with Mechanical (Friction Dampened) Belt Tensioner. Kit includes crankshaft locking tools (oval and round gears), plus camshaft and tensioner locking pins.

**OEM Tools:**

<b>Dodge:</b>	9882, 9883
<b>Ford:</b>	310-085/23-059, 303-1054
<b>Mitsubishi:</b>	MB995206, MB995208, MB995209
<b>VAG:</b>	T10100, T10050, 3359/T20102, T10115, T10060A/T40098, T20167

**Applications:**

**Audi:** A1 (10-15), A2 (00-06), A3 (01-15), A4 (01-16), A5 (09-16), A6 (05-15), TT (08-14), Q3 (11-15), Q5 (09-16)

**Dodge:** Calibre (06-11), Journey (08-11)

**Ford:** Galaxy (02-06)

**Mitsubishi:** Lancer (07-10), Grandis (05-10), Outlander (07-10)

**Seat:** Alhambra (99-15), Altea/Altea XL (04-15), Arosa (99-05), Cordoba (02-09), Exeo (09-16), Ibiza (02-15), Leon (05-13), Toledo (03-15)

**Skoda:** Fabia (03-07), Fabia II (07-15), Octavia (02-10), Octavia II (04-13), Praktik (07-15), Rapid (12-15), Roomster (06-15), Superb (02-08), Superb II (08-15), Yeti (09-14)

**Volkswagen:** Amarok (10-16), Beetle (02-15), Bora (02-06), Caddy/Caddy Maxi (03-15), CC (13-15), EOS (06-14), Fox (05-11), Golf (02-15), Golf Plus (05-14), Jetta (02-15), Lupo (99-05), Passat (02-15), Passat CC (08-15), Polo (02-14), Scirocco (08-12), Sharon (02-15), Touran (03-15), Tiguan (07-15), Transporter (03-19)

**Engine Codes:**

**1.2D TDi CR:** CFWA

**1.4D TDi PD:** AMF, BMS, BNM, BNV, BAY, BWB

**1.6D TDi CR:** CAYA, CAYB, CAYC, CAYD, CAYE, CLNA

**1.9D TDi PD:** AJM, ANU, ARL, ASZ, ATD, AUJ, AVB, AVF, AVQ, AWX, AXB, AXC, AXR, BJB, BKC, BKE, BLS, BLT, BMT, BPX, BPZ, BRB, BRM, BRR, BRS, BRU, BSU, BSV, BSW, BTB, BUK, BVK, BXE, BXF, BXJ

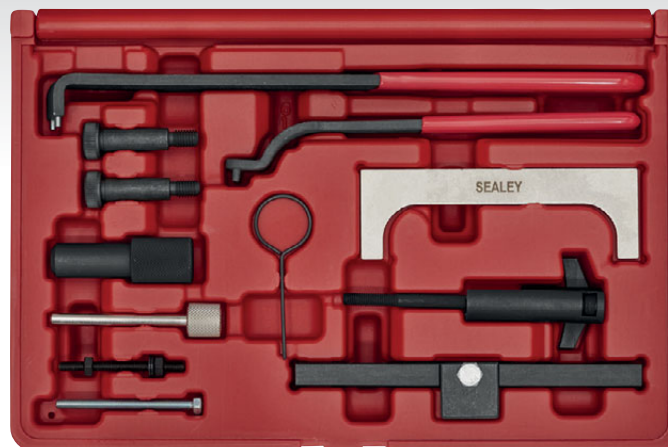
**2.0D TDi CR:** AZV, BDJ, BDK, BEW, BGW, BHW, BKD, BKP, BKQ, BLB, BMA, BMM, BMN, BMP, BMR, BNA, BPW, BRA, BRC, BRD, BRE, BRF, BRT, BSS, BST, BSY, BUY, BUZ, BVA, BE, BVF, BVG, BVH, BWC, BWV, CAAA, CAAB, CAAC, CAAD, CAAE, CAGA, CAGB, CAGC, CAHA, CAHB, CBAA, CBAB, CBAC, CBBA, CBBB, CBDA, CBDB, CBDC, CBEA, CCHA, CCHB, CDBA, CDCA, CEGA, CFCA, CFFA, CFFB, CFFD, CFFE, CFGB, CFGC, CFHA, CFHB, CFHD, CFHC, CFHF, CFHE, CFJA, CGLA, CGLB, CGLC, CGLD, CGLE, CJAA, CJCA, CJCB, CJCC, CLCA, CLCB, CLJA, CLLA, CMEA, CMGB, CNEA, ECD, ECD/BSY, ECD/BYL, ECE/BWD

**Associated Tool:** **VSE5852** - Service Position Front End Support Guide Set - VAG (see page 412)

**C**

Belt

VAG

**B**

Belt

Chain

VAG  
FORD

VSE5851 Kit also covers applications on a range of VAG Petrol Engines, see page 418.

**B VSE5851**
**Timing Tool/Chain in Head Service Kit  
VAG, Ford - 1.6D, 1.7D/SDi, 1.9D/Turbo/SDi/TDi - Belt/Chain Drive**

Essential timing tools for timing belt replacement on a huge range of VAG and Ford diesel or petrol engines. Also suitable for chain in head service and tensioner applications on 1.8, 1.8T engines. Includes camshaft, injection pump locking tools and cambelt tensioner tools.

**OEM Tools:**

U40021, 2065A, U20006, MP-1-300, 21-105, T20038, MP-1-312, 3418, T10098, 2064, U20003, 23-047, 3359, MP-1-301, U40074, T20102, MP-1-302, V159, U30009, T10020, 3387, T10092, T40011, T20044, 3366

**Applications:**

**Audi:** 80 (91-96), A3/Sportback (96-13), A4 (94-01), A6 (94-05), S3 (99-03), TT (98-06)

**Seat:** Alhambra (96-10), Altea/Altea XL (04-12), Arosa (98-05), Cordoba (93-06), Exeo (09-10), Ibiza (93-06), Inca (95-04), Leon (99-12), Toledo (94-09)

**Skoda:** Fabia (99-07), Felicia (95-01), Octavia/Octavia Tour (96-10), Octavia II (04-13), Superb (02-08)

**VW:** Beetle (98-11), Bora (97-06), Caddy/Pick Up (80-15), Fox (05-07), Golf (80-12), Golf Plus (05-15), Jetta (80-11), Lupo (98-05), Passat (80-10), Polo (95-06), Santana (80-88), Sharan (95-10), Touran (03-10), Transporter (80-13), Vento (94-98)

**Ford:** Galaxy (95-00)

**Engine Codes - Diesel:**

**1.6D:** CR, CY, CS, IV, JK, JP, JR, JX, ME, RA

**1.7D:** AHG, KY

**1.7D SDi:** AHB, AKU, AKW

**1.9D:** 1X, 1Y, ABL, AEF

**1.9D Turbo:** AAZ

**1.9D SDi:** AEY, AGD, AGP, AQM, ASX, ASY, AYQ

**1.9D TDi:** 1Z, AFF, AFN, AGR, AHF, AHH, AHU, ALE, ALH, ASV, AVG

**Associated Tool:** **VSE5852** - Service Position Front End Support Guide Set - VAG (see page 412)

**C VSE3142**
**Fuel Pump Drive Belt Kit - VAG 2.7D/3.0D**

Designed to lock the fuel pump into its timed position so that the fuel pump drive belt can be replaced or the fuel pump timing checked.

**OEM Tools:**

T40058, T40135, T10320, 3242

**Applications:**

**Audi:** A4 (07-12), A4 Quattro (08-12), A4 Allroad (09-12), A5 Coupe (07-12), A5 Sportback (09-12), A5 Cabriolet (08-12), A6 (08-18), A6 Allroad (08-18), A6 Quattro (08-18), A7 (14-18), Q5 (08-12), Q7 (07-10), TT (08-14)

**Porsche:** Cayenne (08-11)

**VW:** Phaeton (07-13)

**Engine Codes:**

**2.7D:** CAMA, CAMB, CANA, CANB, CANC, CAND, CGKA, CGKB

**3.0D:** CARA, CASA, CASB, CASD, CATA, CEXA, CEXB, CCMA, CCWA, CCWB, CCLA, CDYA, CDYB, CDYC, M05/9D, M059E



**A**



Chain

VAG



**A VSE6181**

**Timing Tool & HP Pump Removal Kit - VAG 2.7D/3.0D/4.0D/4.2D TDi Common Rail - Chain Drive**

Comprehensive kit required for service work on timing chain, cylinder head, HP pump and engine timing applications on VAG 2.7D, 3.0D TDi V6 and 4.0D, 4.2D TDi V8 common rail diesel engines. Kit includes HP pump remover and required locking pin. Kit also includes tools to cover the later 3.0D TDi V6 and 4.2D TDi V8 common rail second generation engines.

**OEM Tools:** T40058, T40060, T40061, T40062, T40049, T40071, T40064, T40135, 3242, 3359, T40237, T40245, T40246

**Applications:**

**Audi:** A4 (05-16), A5 (07-16), A5 Sportback (11-17), A6 (04-18), A6 Allroad (06-18), A7 (10-18), A8 (03-14), Q5 (08-17), Q7 (06-15), SQ5 (13-15)

**VW:** Phaeton (04-14), Touareg (05-14)

**Engine Codes:**

**2.7D TDi V6:** BPP, BSG, CAMA, CAMB, CANA, CANB, CANC, CAND, CGKA, CGKB

**3.0D TDi V6:** ASB, BKN, BKS, BMK, BNG, BUG, BUN, BWA, BWE, BWJ, BWT, BYD, BYK, BZC, CAPA, CARA, CASA, CASB, CASC, CASD, CATA, CCLA, CCMA, CCWA, CCWB, CDLA, CDLB, CDLC, CDLD, CDLF, CDMA, CDTA, CDTB, CDUC, CDYA, CDYB, CDYC, CEXA, CGQB, CJGA, CJGC, CJGD, CJMA, CKVB, CKVC, CLAA, CLAB, CLZB, CNRB, CPNB, CRCA, CRTC, CRTD, CRTE, CRTF, CTBA, CTBC, CTBB, CTCC

**4.0D TDi V8:**

ASE

**4.2D TDi V8:** BTB, BVN, CCF A, CCF C, CDSB, CKDA

**C**



Gear

VAG



**C VSE6000**

**Water Pump Removal Kit - VW 2.5D TDi PD - Gear Drive**

Suitable for removing the water pump on Pompe Duse, diesel, gear drive engines. Essential to align the engine in the TDC position. Supplied in a storage case.

**OEM Tools:** T10225, T10221A, T10222A

**Applications:** Touareg (03-10), Transporter T5 (03-09)

**Engine Codes:** AXD, AXE, BAC, BLJ, BLK, BNZ, BPC, BPD, BPE

**Associated Tool:** **VSE6146** - Timing Tool Kit - VW 2.5 TDi PD Gear Drive (see **B**)

**D**



Belt

VAG

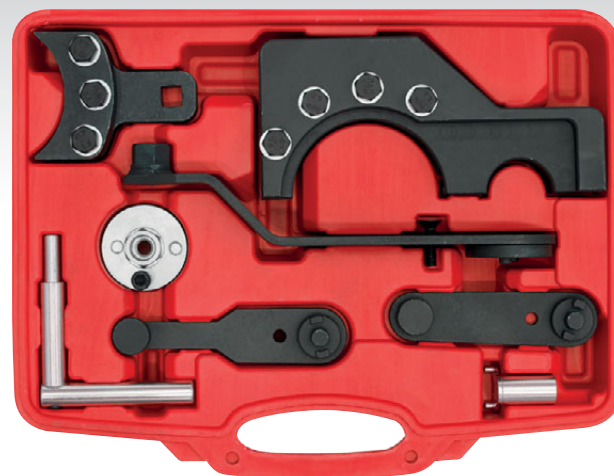


**B**



Gear

VAG



**B VSE6146**

**Timing Tool Kit - VW 2.5D TDi PD - Gear Drive**

Suitable for VW 2.5D TDi PD gear drive diesel engines where the camshaft, crankshaft and auxiliary shafts are all linked by a geared mechanism.

**OEM Tools:** T10193, T10199, T10199/01, T10225, T10226, T10234

**Applications:** Touareg (03-10), Transporter (03-09)

**Engine Codes:** AXD, AXE, BAC, BLJ, BLK, BNZ, BPC, BPD, BPE

**D VSE5952**

**Camshaft Sprocket Hub Remover/Installer Set - VAG - Belt Drive**

Essential tool required when removing the cylinder head/camshafts on VAG Pompe Duse and common rail diesels. Set comprises camshaft sprocket hub holding tool and hub remover.

**OEM Tools:** T10051, T10052

**Applications:**

**Audi:** A1 (10-12), A2 (00-06), A3 (01-12), A4 (99-14), A4 Allroad (07-14), A5 Sportback (09-12), A5 Coupe/Cabriolet (09-12), A6 (98-14), TT (08-14), Q5 (09-12)

**Dodge:** Caliber (06-11)

**Ford:** Galaxy (99-06)

**Mitsubishi:** Grandis (05-10), Lancer (07-10), Outlander (07-10)

**Seat:** Altea/Altea XL (04-12), Alhambra (99-14), Arosa (99-05), Cordoba (02-09), Exeo (09-13), Ibiza (02-14), Leon (00-13), Toledo (00-09)

**Skoda:** Fabia (03-07), Fabia II (07-14), Octavia (02-05), Octavia Tour (00-10), Octavia II (04-12), Praktik (10-14), Roomster (06-12), Superb (02-08), Superb II (08-14), Yeti (09-12)

**VW:** Amarok (10-14), Beetle (00-11), Bora (98-06), Caddy/Caddy Maxi (03-14), EOS (06-14), Fox (05-11), Golf (98-06), Golf /Golf Estate (04-13), Golf Plus (05-12), Jetta (05-11), Lupo (99-05), Passat (98-14), Passat CC (08-12), Polo (99-14), Scirocco (08-12), Sharan (99-14), Tiguan (07-14), Touran (03-14), Transporter (03-14)

**Engine Codes:**

**Pumpe Duse:**

**1.2D TDi PD:** ANY, AYZ

**1.4D TDi PD:** AMF, ATL, BAY, BHC, BMS, BNM, BNV, BWB

**1.4D TDi PD/Ecomotive/Bluemotion:** BMS

**1.9D TDi PD/TDie/vRS:** AJM, ANU, ARL, ASZ, ATD, ATJ, AUY, AVB, AVF, AVQ, AWX, AXB, AXR, BDK, BKC, BLS, BPX, BPZ, BRU, BSU, BSV, BSW, BTB, BKC, BKD, BKE, BLT, BMT, BRB, BRM, BRU, BLS, BUK, BVK, BXJ, BJB, BXE, BXF

**1.9D TDi PD/Greenline/Ecomotive/Bluemotion:** BLS

**2.0D TDi PD/PDFR/Freerack:** AXB, AXC, AZV, BDJ, BGW, BHW, BKD, BKP, BKQ, BMA, BMM, BMN, BMP, BMR, BRA, BSS, BUY, BUZ, BLB, BNA, BPW, BRC, BRD, BRE, BRF, BRR, BRS, BRT, BST, BVA, BE, BVF, BVG, BVH, BWV

**2.0D Di-D/CRD:** BWC, BSY, ECE(BWD), ECD(BYL), ECD(BSY), ECD

**Common Rail:**

**1.2D TDi CR/Ecomotive/Greenline:** CFWA

**1.6D TDi CR/Ecomotive/Greenline/Bluemotion:** CAYA, CAYB, CAYC, CAYD, CAYE, CLNA

**2.0D TDi CR/TDie/Bluemotion/GTD/BitDi/Freerack:** CAAA, CAAB, CAAC, CAAE, CAGA, CAGB, CAGC, CAHA, CAHB, CBAA, CBBA, CBAB, CBBB, CBDA, CBDB, CBDC, CBEA, CCHA, CCHB, CEGA, CFCA, CFGA, CFHA, CFHB, CFHC, CFHD, CFHF, CFHE, CFJA, CFFA, CFFB, CFFE, CFGB, CFJA, CJLA, CLJA, CJCJ, CJCJ, CLCA, CLCB, CMEA, CGLC, CGLD, CGLA, CGLB, CJCA, CLLA

**Associated Tool:** **VSE5951** - Timing Tool Kit - VAG Pompe Duse/Common Rail 1.2, 1.4, 1.6, 1.9, 2.0TDi - Belt Drive (see page 413)

A

VAG Belt

**A VSE5953****Balance Shaft Locking Set - VAG 2.0D Pumpe Duse - Belt Drive**

Special tools required during removal/installation of the balance shaft on certain VAG 2.0 Pumpe Duse diesel engines. Set comprises balance shaft locking tool and chain tensioner locking pin. Belt drive engines with the balance shaft driven separately by a chain.

**OEM Tools:** T10255, T10115

**Applications:**

**Audi:** A4 (04-09), A6 (05-08)  
**Seat:** Alhambra (05-10)  
**Skoda:** Superb (05-08), Superb II (08-10)  
**VW:** Passat (03-09), Sharan (05-10)

**Engine Codes:**

**2.0D TDi PD:** BGW, BHW, BKP, BLB, BMA, BMP, BMR, BNA, BPW, BRC, BRD, BRE, BRF, BRT, BSS, BUZ, BVA, BVE, BVF, BVG, BVH, BWV

**Associated Tool:** VSE5951 - Timing Tool Kit - VAG Pumpe Duse/Common Rail 1.2, 1.4, 1.6, 1.9, 2.0TDi - Belt Drive (see page 413)

C



AUDI Chain

**C VSE7407****Timing Tool Kit - Audi 4.2 V8 - Chain Drive**

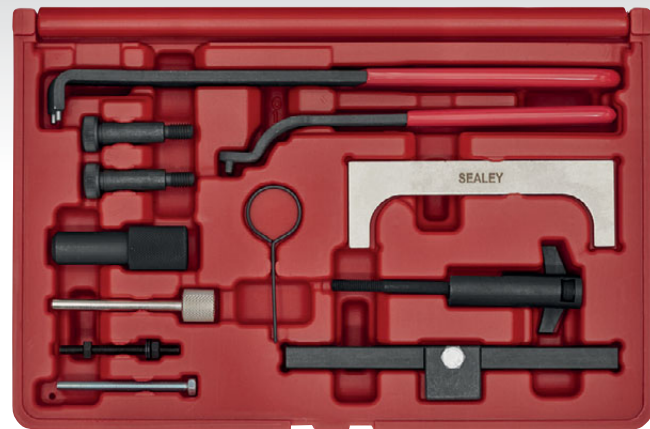
Kit includes camshaft setting plates, camshaft positioning sensor alignment tools and crankshaft locking pin. Supplied in a storage case with warning tag and comprehensive instructions.

**OEM Tools:** T40046, T40047, 3242

**Applications:** Allroad (02-15), S4 (03-08), S4 Cabriolet (03-09), A6 Quattro (04-08)

**Engine Codes:** BAS, BAT, BBK, BHF

B



VSE5851 Kit also covers applications on a range of VAG Diesel engines, see page 416.

VAG FORD

Chain Belt

**B VSE5851****Timing Tool/Chain in Head Service Kit VAG, Ford 1.6/1.8/1.8T/2.0 - Belt/Chain Drive**

Essential timing tools for timing belt replacement on a huge range of VAG and Ford diesel or petrol engines. Also suitable for chain in head service and tensioner applications on 1.8, 1.8T engines. Includes camshaft, injection pump locking tools and cambelt tensioner tools.

**OEM Tools:** U40021, 2065A, U20006, MP-1-300, 21-105, T20038, MP-1-312, 3418, T10098, 2064, U20003, 23-047, 3359, MP-1-301, U40074, T20102, MP-1-302, V159, U30009, T10020, 3387, T10092, T40011, T20044, 3366

**Applications:**

**Audi:** 80 (91-96), A3/Sportback (96-13), A4 (94-01), A6 (94-05), S3 (99-03), TT (98-06)

**Seat:** Alhambra (96-10), Altea/Altea XL (04-12), Arosa (98-05), Cordoba (93-06), Exeo (09-10), Ibiza (93-06), Inca (95-04), Leon (99-12), Toledo (94-09)

**Skoda:** Fabia (99-07), Felicia (95-01), Octavia/Octavia Tour (96-10), Octavia II (04-13), Superb (02-08)

**VW:** Beetle (98-11), Bora (97-06), Caddy/Pick Up (80-15), Fox (05-07), Golf (80-12), Golf Plus (05-15), Jetta (80-11), Lupo (98-05), Passat (80-10), Polo (95-06), Santana (80-88), Sharan (95-10), Touran (03-10), Transporter (80-13), Vento (94-98)

**Ford:** Galaxy (95-00)

**Engine Codes - Petrol:**

**1.6:** 1F, ADP, AEH, AEK, AFT, AHL, AKL, AKS, ALZ, ANA, APF, ARM, AUR, AVU, AWH, AYD, BFQ, BFS, BGU, BSE, BSF, CCSA, CHGA, CMXA

**1.8:** ABS, ADR, ADZ, AFY, AGN, AJP, APG, APT, AQE, ARG, ARH, AVV

**2.0:** 2E, AAC, AAE, ABF, ABK, ACE, ADY, AEG, AGG, AKT, APK, AQY, ATM, ATU, AWF, AWG, AXA, AZG, AZH, AZJ, AZL, AZM, BBX, BEH, BSX

**Engine Codes - Petrol - Chain in Head:**

**1.8:** AGN, AJP, APG, ADR, AFY, APT, ARG, AVV

**1.8T:** AEB, AGU, AJH, AJL, AJQ, AMK, AMU, ANB, APP, APU, APX, APY, AQA, AQX, ARX, ARY, ARZ, AUM, AUQ, AVC, AWC, AWU, AYP, BAM, BFV, BVP, BVR

**Associated Tool:** VSE5852 - Service Position Front End Support Guide Set - VAG (see page 412)

**Timing Tool Kit Finder**

The Timing Tool Kit Finder lists all vehicle applications, date ranges and engine codes. Simply select the make and model of your vehicle from the drop down menus and click on the picture of the Timing Tool Kit for more information.

Vehicle REG:  **ENTER REG**

UK  EIRE

**Make** Select Make   
**Engine Code** Select Engine Code   
**Model** Select Model   
**Engine Size** Select Engine Size   
**Year From** Select Year From

Use our online Timing Tool Kit Finder to search for kits, [www.sealey.co.uk](http://www.sealey.co.uk)



**A VSE5938**

**Timing Tool Kit - Audi, VW 3.7/4.2 V8 - Belt Drive**

Suitable for the 3.7 and 4.2 V8 engines in Audi and VW vehicles. Kit includes camshaft setting plate, crankshaft locking pin and tensioner tools. Supplied with a warning tag.

**OEM Tools:** T40005, T40009, 3242, T40011

**Applications:**

**Audi:** A6 (99-05), A6 Quattro (99-05), A8 (99-06), S6 (00-04), S8 (99-03), RS6 (03-05)

**VW:** Phaeton (02-16), Touareg (03-10)

**Engine Codes:**

**3.7 V8:** AKC, AQQ, BFL

**4.2 V8:** AKB, ANK, AQF, AQH, AQJ, ARS, ART, ARU, ASG, AUW, AUX, AVN, AVP, AWN, AXQ, AYS, BBD, BCS, BCY, BFM, BGH, BGJ, BGK, BHX, BRV

**Associated Tool:** **VSE5852** - Service Position Front End Support Guide Set - VAG (see page 412)



**B VS5138**

**Timing Tool Kit - VAG 2.8/3.2 - Chain Drive**

Suitable for VAG 2.8, 3.2 petrol engines, includes crankshaft holding wrench. Supplied in a storage case with a warning tag included.

**OEM Tools:** T10068A, T10069, T40098

**Applications:**

**Audi:** A3/A3 Sportback  
**Seat:** Alhambra, Leon

**VW:** Bora (00-04), EOS (06-09), Golf IV (00-04), Golf IV Estate (01-06), Golf V (05-08), Phaeton (02-09), Sharan (00-10), Touareg (03-07), Transporter T4 (99-03), Transporter T5 (03-09)

**Engine Codes:**

**2.8:** AMV, AUE, AYL, BDE

**3.2:** AYT, AZZ, BAA, BDB, BDL, BFH, BHE, BJS, BKJ, BKK, BKL, BMJ, BML, BMV, BMX, BRJ, BRK, BUB, CBRA



**C**



**Belt**

**Chain**

**VAG**

**C VSE6171**

**Belt Replacement & Chain in Head Service Kit VAG 1.8/1.8T, 2.0 FSi/TFSi/TSi, 2.0S/R - Belt/Chain Drive**

Suitable for belt tensioning the huge range of VAG 1.8/1.8T, 2.0 FSi/TFSi twin camshaft engines. These belt drive engines also have a chain in head, connecting the two camshafts. The kit includes the tools necessary for servicing the chain in head and establishing correct valve/camshaft timing.

**OEM Tools:** T10020, T10115, T10252, T40011, 3366, T10060, T10092

**Applications:**

**Audi:** A3 (96-09), A4 (94-09), A6 (95-11), S3 (99-13), TT (98-14)

**Seat:** Alhambra (97-10), Altea/Altea XL (06-09), Cordoba (99-02), Exeo (09-10), Ibiza (99-02), Leon (99-13), Toledo (99-09)

**Skoda:** Octavia/Octavia Tour (98-10), Octavia II (04-09)

**VW:** Beetle (99-11), Bora (97-04), EOS (06-10), Golf (97-12), Golf Plus (05-09), Jetta (05-09), Passat (96-10), Scirocco (09-14), Sharan (97-10), Touran (03-09)

**Engine Codes:**

**1.8:** ADR, AFY, AGN, AJP, APG, APT, AQE, ARG, ARH, AVV

**1.8T:** AEB, AGU, AJH, AJL, AJQ, AMK, AMU, ANB, APP, APU, APX, APY, AQA, AQX, ARX, ARY, ARZ, AUM, AUQ, AVC, AWC, AWT, AWU, AYP, BAM, BFV, BVP, BVR

**2.0 FSi:** AXW, BHD, BLR, BLX, BLY, BMB, BVX, BZY, BVZ

**2.0 TFSi/S/R/TSi:** AXX, BPY, BWA, BGB, BPG, BPJ, BUL, BWE, BWT, BYK, BHZ, BZC, BWJ, BYD, CDLA, CDLB, CDLC, CDLD, CDLF, CDMA

**Associated Tool:** **VSE5852** - Service Position Front End Support Guide Set VAG (see page 412)



**VAG**

**D VS754**

**24pc Pulley Holding/Turning Set - VAG**

Designed to counter-hold water pump, camshaft, crankshaft, oil pump, pulleys and sprockets when loosening and tightening the securing bolts. Supplied in storage case.

**OEM Tools:** T10172, T10172A, T10554

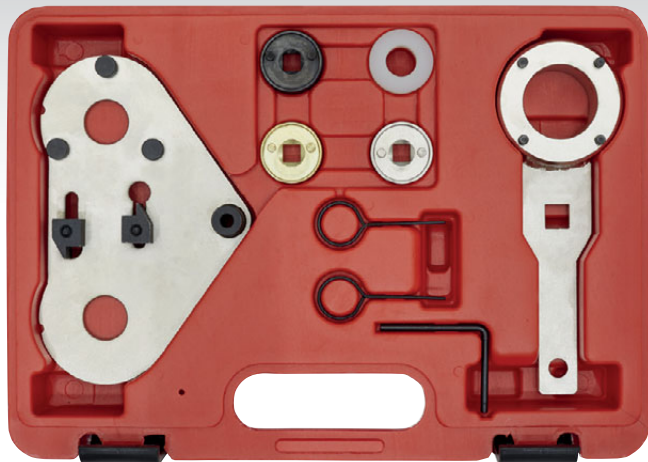
**Contents:** Ø4.8mm, Ø6mm, 15mm x 6mm Square, 15mm x 12mm Square, 13mm x 17mm Cup, 16mm x 20mm Cup, M10, M12 Spline, 6mm/10mm/12mm Stepped Adaptors, Adaptor Plate and Handle

A



Chain

VAG

**A VSE6236****Timing Tool Kit - VAG 1.8/2.0 TFi/TFSi - Chain Drive**

Kit fits a wide range of VAG group 1.8, 2.0 petrol engines. Includes essential tooling required to remove the camshaft adjuster valves, and a useful crankshaft pulley holding tool. Some applications and repair operations will require additional tools.

**OEM Tools:** T10355, T10368, T10352, T10352/1, T20208, T40011, T40267

**Applications:**

**Audi:** A3 Saloon (13-15), A3/A3 Sportback (07-16), A3 Cabriolet (08-16), A4 (07-15), A4 Allroad (09-15), A4 Quattro (08-15), A5 Coupe/Cabriolet (07-16), A5 Sportback (09-17), A6 (12-18), A6 Quattro (14-18), A7 (15-18), S3 (16-18), TT (08-18), Q3 (11-16), Q5 (08-16)

**Seat:** Alhambra (10-15), Altea (06-15), Altea Freetrack (09-15), Exeo (10-13), Leon (09-19), Leon ST (14-19), Toledo (09-09)

**Skoda:** Octavia II (07-13), Octavia III (13-19), Superb II (08-15), Superb III (15-19), Yeti (09-13)

**VW:** Amarok (10-16), Beetle (13-16), CC (12-15), EOS (08-15), Golf V (09-13), Golf VI (09-13), Golf VII (13-16), Golf VI Cabriolet (12-14), Golf VII (12-15), Jetta (05-11), Transporter T5 (11-15), Passat (07-11), Passat (11-18), Passat Alltrack (12-18), Passat CC (08-12), Scirocco (08-14), Sharan (11-18), Tiguan (07-18)

**Engine Codes:**

**1.8 TFi/TFSi:** BYT, BZB, CABA, CABB, CABD, CDA, CDAB, CDHA, CDHB, CJSA, CJSB, CJEB

**2.0 TFi/TFSi:** CAWA, CAWB, CBFA, CCTA, CCZA, CCZB, CCZC, CCZD, CDNB, CDNC, CDND, CESA, CETA, CFKA, CFPA, CHHA, CHHB, CJK, CJKB, CNCB, CNCD, CPLA, CPSA, CYNB

C

**C VS175****Flywheel Turning Wrench**

Locates in starter ring gear teeth. Spring loaded catch for ease of use.

B



Belt

VAG

**B VSE5760****Timing Tool Kit - VAG 1.0/1.2/1.4 TSi - Belt Drive**

Suitable for the latest generation VAG TSi petrol engines. Contains essential tools for camshaft and crankshaft locking. Supplied in storage case with full instructions and a warning tag.

**OEM Tools:** T10494, T10504, T10504/1, T10504/2, T10340, T10477, T10499, T10476/A, T10264

**Applications:**

**Audi:** A1 (12-18), A1 Sportback (12-18), A3 (13-18), A3 Sportback (13-18), A3 Saloon (13-16), A3 Cabriolet (14-16), Q3 (14-16)

**Seat:** Mii (12-19), Ibiza (15-19), Leon (12-18), Leon ST (13-18), Toledo (15-17)

**Skoda:** Citigo (1-19), Fabia III (14-19), Kodiaq (17-19), Rapid (15-19), Rapid Spaceback (15-17), Octavia III (13-18), Superb III (15-18), Yeti (15-17), Yeti Outdoor (15-17)

**VW:** Beetle (15-18), Caddy (15-19), Caddy Maxi (15-19), CC (15-17), Golf VI Cabriolet (15-16), Golf VII (12-19), Golf VII Cabriolet (15-18), Jetta (14-18), Passat (14-19), Polo (12-18), Scirocco (14-18), Sharan (15-18), SV/Sportsvan (14-18), Tiguan (15-18), Touran (15-19), Up! (14-19)

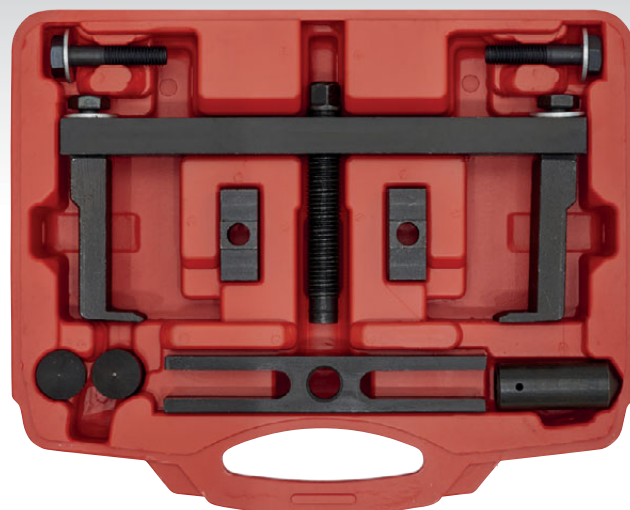
**Engine Codes:**

**1.0:** CHYA, CHYB, CHYC, CPGA

**1.2:** CJZA, CJZB, CJZC, CJZD, CYVA, CYVB, CYVD

**1.4 TSi:** CHPA, CHPB, CMBA, CPTA, CPVA, CPVB, CPWA, CRJA, CUKB, CUKC, CXSB, CXSA, CZCA, CZDA, CZEA

D

**D PS997****12pc Crankshaft Pulley Removal Tool Set**

Enables fast and simple removal of crankshaft and auxiliary pulleys - even in a confined space. Chrome Molybdenum legs with thin jaws allow removal of pulleys with narrow tolerance between pulley and block. Supplied in storage case.

**Depth Range:** 68-88mm

**Diameter Range:** Ø40-120mm, 132-195mm

**A**


Chain

VAG

**A VSE2359**
**Camshaft Control Valve Removal Set - VAG 1.8, 2.0 TSi/TFSi Chain Drive**

Contains the tools required for removal and installation of the central control valve for camshaft adjustment. Suitable for use on 1.8 and 2.0 TSi/TFSi 4-cylinder chain drive petrol engines fitted across a wide range of VAG vehicles.

**OEM Tools:** T10352, T10352/1

**Applications:**

**Audi:** A3 (07-13), A3 Cabriolet (08-16), A4 (07-15), A5 (09-14), A5 Coupe (08-17), A6 (12-18), A7 (15-18), TT (06-17), Q3 (11-16), Q5 (08-16)

**Seat:** Alhambra (10-15), Altea/Altea XL (06-15), Exeo (10-13), Leon (07-19), Toledo (07-13)

**Skoda:** Octavia II (07-13), Octavia III (13-15), Superb II (08-15), Yeti (09-15), Yeti Outdoor (13-15)

**VW:** Amarok (10-16), Beetle (11-16), CC (12-15), EOS (12-15), Passat (07-15), Golf V (07-08), Golf VI/VI Estate (09-13), Golf VI Cabriolet (12-15), Jetta (08-14), Passat (07-15), Passat Alltrack (09-15), Passat CC (08-12), Scirocco (08-14), Sharan (11-15), Tiguan (12-15)

**Engine Codes:**

**1.8 TSi/TFSi:** BYT, BZB, CABA, CABB, CABD, CDAA, CDAB, CDHA, CDHB, CGYA, CJEB, CJSA, CJSB

**2.0 TSi/TFSi:** CAWA, CAWB, CBFA, CCTA, CCZA, CCZB, CCZC, CCZD, CDNB, CDNC, CDND, CDLA, CESA, CETA, CFKA, CFPA, CGYA, CHHB, CJKA, CJKB, CJXA, CJXE, CJXH, CHHA, CMFA, CPLA, CPSA

**B**


Chain

VAG

**B VSE4242**
**Timing Tool Kit - VAG 1.8, 2.0 TSi/TFSi - Chain Drive**

Timing tool kit that covers a wide range of VAG petrol engines. Includes the necessary tools for setting the engine at TDC, the locking tools for both types of timing chain tensioner and a tool for the oil pump chain tensioner. Also includes the tool essential for removing the camshaft control valve.

**OEM Tools:** T40011, T40265, T40267, T40271-1, T40271-2, T10170A/1, T10352/T10352/1, VAS6079

**Applications:**

**Audi:** A3 Cabriolet (08-16), A3/A3 Sportback (07-16), A3/A3 Sportback (12-16), A4 (04-15), A4 Cabriolet (05-09), A4 Quattro (04-08), A4 Quattro (08-14), A5 Coupe/Cabriolet (07-17), A5 Sportback (09-17), A6 (05-14), Q3 (11-16), Q5 (08-16), S3 (06-08), TT (06-18)

**Seat:** Alhambra (10-15), Altea (06-15), Leon (06-19), Leon ST (13-19), Toledo (06-09)

**Skoda:** Octavia II (09-13), Octavia III (13-18), Superb II (08-15), Superb III (15-19), Yeti (09-13)

**VW:** Amarok (10-16), Beetle (13-16), Cabriolet (12-14), CC (12-15), Golf V (07-13), Golf VI Estate (09-14), Golf VII (13-15), Passat (15-18), Scirocco (08-14), Sharan (15-18), Tiguan (07-18), Touran (15-18), Transporter T5 (11-15)

**Engine Codes:**

**1.8 TSi/TFSi:** BYT, BXB, BZB, CABA, CABB, CABD, CDAA, CDAB, CDHA, CDHB, CGYA, CJEB, CJHA, CJSA, CJSB, CJSC, CJXA

**2.0 TSi/TFSi:** AXX, BGB, BHZ, BJP, BUL, BPG, BPJ, BPY, BWA, BWA1, BWA, BWE, BWJ, BWT, BYK, BZC, CAWA, CAWB, CBFA, CCTA, CCZA, CCZB, CCZC, CCZD, CDLA, CDLC, CDNB, CDNC, CDND, CESA, CETA, CFKA, CFPA, CHHA, CHHB, CHJA, CJKA, CJKB, CJSA, CJSC, CJXA, CJXB, CJXC, CJXE, CJXH, CNCD, CPLA, CPSA, DEDA

**C**


VAG

Chain


**C VSE5956A**
**Timing Tool Kit - VAG 1.2, 1.4 TFSi/1.4, 1.6 FSi - Chain Drive**

Timing kit suitable for 1.2, 1.4 TFSi and 1.4, 1.6 FSi engines. Kit contains essential tools for crank TDC positioning, camshaft setting and tensioner locking. Supplied in storage case.

**OEM Tools:** T10170, T10171A, T40011, T10340, T10414

**Applications:**

**Audi:** A1 (10-15), A3 (03-13)

**Seat:** Alhambra (10-15), Altea/Altea XL (08-15), Ibiza/Cordoba (08-12), Leon (07-13), Toledo (07-15)

**Skoda:** Fabia II (07-15), Octavia II (04-15), Praktik (10-15), Rapid (12-15), Roomster (06-15), Superb II (09-14), Yeti (09-14)

**VW:** Beetle (11-15), Caddy/Caddy Maxi (10-15), EOS (06-12), Golf (03-12), Golf Plus (03-14), Golf V Estate (07-13), Golf VI Cabriolet (10-15), Jetta (06-14), Passat (05-11), Polo (02-14), Scirocco (08-12), Tiguan (07-12), Touran (03-15)

**Engine Codes:**

**1.2 TFSi:** CBZA, CBZB, CBZC

**1.4 FSi:** AXU, BKG, BLN

**1.4 TFSi:** BLG, BMY, BWK, CAVA, CAVB, CAVC, CAVD, CAVE, CAVF, CAXA, CAXC, CDGA, CSMA

**1.6 FSi:** BAG, BLF, BLP, BTS

**Associated Tools:** **AK9634M** - Dial Gauge Metric 8mm (see page 377), **VSE23581** - Crankshaft Pulley Holding Tool - VAG (see page 425), **VS783** - Universal Pulley & Fan Clutch Holder Set (see page 426)

**D**


Chain

VAG

**D VSE5921**
**Timing Tool Kit - VAG 1.2 3-Cylinder (6v/12v) - Chain Drive**

Contains camshaft setting tools and flywheel locking pin for timing 1.2, 3-cylinder, 6 and 12 valve chain drive engines. These engines are fitted in Seat, Skoda and VW vehicles. Supplied in a storage case with instructions and a warning tag.

**OEM Tools:** T10120, T10121, T10123

**Applications:**

**Seat:** Ibiza/Cordoba (02-15)

**Skoda:** Fabia (02-07), Fabia II (07-15), Roomster (06-12), Praktik (09-15), Superb III (10-15)

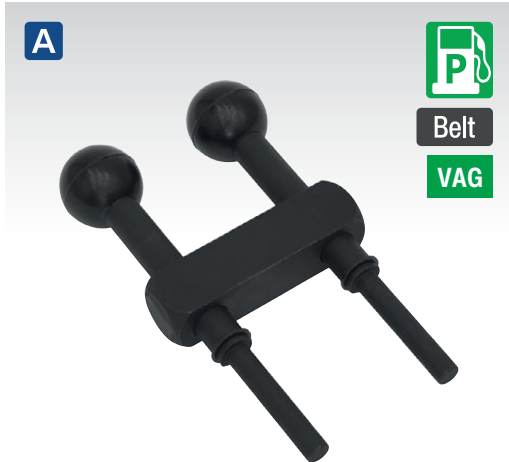
**VW:** Fox (05-12), Polo (02-12)

**Engine Codes:**

**1.2 6v:** AWY, BBM, BMD, CHFA, CHFB

**1.2 12v:** AZQ, BME, BXV, BZG, CEVA, CGPA, CGPB, CJLA

**Associated Tool:** **VSE23581** - Crankshaft Pulley Holding Tool - VAG (see page 425)



**A**

**Belt**

**VAG**

**A VSE2357A**  
**Camshaft Setting Tool - VAG 1.4, 1.6 16v/FSi Belt Drive**

Suitable for VAG 1.4, 1.6 twin camshaft, belt drive, petrol engines introduced in 1997. Dependant on the engine variant/sprocket position, either the complete tool or the pins alone may be required.

**OEM Tools:** T10016, T10074

**Applications:**

**Audi:** A2 (00-06)

**Skoda:** Fabia (99-07), Fabia II (07-12), Octavia (99-10), Octavia II (04-13), Roomster (06-12)

**Seat:** Altea (06-10), Arosa (99-05), Ibiza/Cordoba (99-13), Inca (00-04), Leon (99-10), Toledo (99-09)

**VW:** Beetle (01-11), Bora (97-10), Caddy/Caddy Maxi (99-10), Golf/Golf Estate (97-12), Golf Plus (05-12), Lupo (98-05), Polo (98-12)

**Engine Codes:**

**1.4 FSi:** AFK, AHW, AKQ, APE, AQQ, ARR, AUA, AUB, AXP, BBY, BBZ, BCA, BKY, BUD, BXW, CGGA, CGGB, CMAA

**1.6 FSi:** AJV, ARC, ATN, AUS, AVY, AZD, BAD, BCB



**B**

**Chain**

**VAG**

**B VSE5950**  
**Timing Tool Kit - VAG 1.2, 1.4 TFSi/1.4, 1.6 FSi - Chain Drive**

Timing kit suitable for 1.2, 1.4 TFSi and 1.4, 1.6 FSi engines. Kit contains essential tools for crank TDC positioning, camshaft setting and tensioner locking. Supplied in storage case.

**OEM Tools:** T10340, T10414, T10171A, T40011

**Applications:**

**Audi:** A1 (10-15), A3 (03-13)

**Seat:** Alhambra (10-15), Altea/Altea XL (08-15), Ibiza/Cordoba (08-12), Leon (07-13), Toledo (07-15)

**Skoda:** Fabia II (07-15), Octavia II (04-15), Praktik (10-15), Rapid (12-15), Roomster (06-15), Superb II (09-14), Yeti (09-14)

**VW:** Beetle (11-15), Caddy/Caddy Maxi (10-15), EOS (06-12), Golf (03-12), Golf Plus (03-14), Golf V Estate (07-13), Golf VI Cabriolet (10-15), Jetta (06-14), Passat (05-11), Polo (02-14), Scirocco (08-12), Tiguan (07-12), Touran (03-15)

**Engine Codes:**

**1.2 TFSi:** CBZA, CBZB, CBZC

**1.4 TFSi:** AXU, BKG, BLG, BLN, BMY, BWK, CAVA, CAVB, CAVC, CAVD, CAVE, CAVF, CAXA, CAXC, CDGA, CSMA

**1.6 FSi:** BAG, BLF, BLP, BTS



**C**

**Chain**

**VAG**

**C VSE5988**  
**Timing Tool Kit - VAG 1.2, 1.4 TFSi/1.4, 1.6 FSi - Chain Drive**

Timing kit suitable for 1.2, 1.4 TFSi and 1.4, 1.6 FSi engines. Kit contains essential tools for crank TDC positioning, camshaft setting and tensioner locking. Includes guide pins for aligning the supercharger. Supplied in storage case with instructions and a warning tag.

**OEM Tools:** T10340, T10414, T10171A, T40011, T10170, VAS6079, T10341

**Applications:**

**Audi:** A1 (10-15), A1 Sportback (10-15), A3 Cabriolet (10-13), A3 (10-15), A3 Sportback (03-13)

**Seat:** Altea/Altea XL (10-15), Ibiza (10-15), Leon (10-13), Toledo (12-15)

**Skoda:** Fabia II (10-15), Praktik (10-15), Rapid (12-15), Rapid Sportback (12-15), Octavia II (04-13), Yeti (09-15), Yeti Outdoor (13-15)

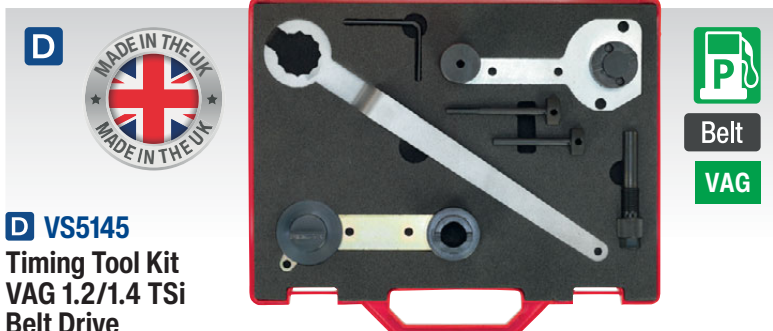
**VW:** Beetle (11-15), Caddy/Caddy Maxi (10-15), EOS (07-15), Golf V (03-13), Golf V Estate (07-09), Golf VI (10-13), Golf VI Estate (10-13), Golf VI Cabriolet (11-15), Golf Plus (05-14), Jetta (05-14), Passat (05-15), Polo (09-14), Scirocco (08-14), Tiguan (07-15), Touran (03-15)

**Engine Codes:**

**1.2 TFSi:** CBZA, CBZB, CBZC

**1.4 FSi/TFSi:** BLG, BMY, BWK, CAVA, CAVB, CAVC, CAVD, CAVE, CAVF, CAXA, CAXC, CDGA, CSMA

**1.6 FSi:** BAG, BLF, BLP



**D**

**Belt**

**VAG**

**D VS5145**  
**Timing Tool Kit VAG 1.2/1.4 TSi Belt Drive**

Suitable for the latest VAG 1.2, 1.4 TSi belt drive petrol engines including the 1.4 TSi ACT. Contains essential tools for camshaft locking, crankshaft replacement and timing belt replacement. Supplied in storage case.

**OEM Tools:** T10340, T10499, T10494, T10504, T10060A

**Applications:**

**Audi:** A1 (12-18), A1 Sportback (12-18), A3 (13-18), A3 Sportback (12-17), A3 Cabriolet (14-17), Q2 (16-18), Q3 (15-18)

**Seat:** Alhambra (15-17), Ateca (16-18), Ibiza (12-17), Leon (12-18), Leon ST (14-18), Tarraco (19-22), Toledo (12-17)

**Skoda:** Fabia (10-13), Fabia III (14-17), Kodiaq (17-21), Octavia II (10-13), Octavia III (10-18), Rapid (15-17), Rapid Spaceback (15-17), Yeti (15-17), Yeti Outdoor (15-17)

**VW:** Caddy/Caddy Maxi (15-21), Golf VII (08-17), Golf VII Estate (08-17), Golf Sportsvan (14-15), Jetta (12-17), Polo (12-17)

**Engine Codes:**

**1.2 TSi:** CJZA, CJZB, CJZC, CJZD, CYVA, CYVB

**1.4 TSi:** CGGA, CHPA, CHPB, CKSB, CMBA, CPVA, CPWA, CRJA, CUKB, CUKC, CYVB, CXSA, CZDA, CZDB, CZEA

**1.4 TSi ACT:** CPTA

**1.6:** CWVA, CWVB



**E**

**Belt**

**VAG**

**E VS5140**  
**Timing Tool Kit - VAG 1.0 - Belt Drive**

Covers the range of VAG 1.0 petrol engines. Includes the tools required to hold the camshaft sprockets and to adjust the timing belt tensioner.

**OEM Tools:** T10172, T10340, T10477, T10499

**Applications:**

**Audi:** A1 (15-18), A1 Sportback (15-18), A3 (16-18), A3 Sportback (16-18), A3 Saloon (16-18), Q2 (16-18)

**Seat:** Arona (17-19), Ateca (16-19), Ibiza (12-20), Mii (12-20), Toledo (17-19)

**Skoda:** Citigo (11-19), Fabia III (14-19), Octavia III (16-18)

**VW:** Caddy (15-18), Caddy/Caddy Maxi (15-21), Golf VII (15-18), Golf SV/Sportvan (15-17), Polo (15-22), Up! (11-20)

**Engine Codes:** CHYA, CHYB, CPGA, CWVA, CWVB



**A VSE4251**

**Vibration Damper Holding Tool - VAG 1.8/2.0 TFSi - Chain Drive**

Contains the essential tools required to maintain engine timing if the vibration damper has to be removed. Supplied in a storage case with full instructions.

**OEM Tools:** T10531/1, T10531/2, T10531/3, T10531/4

**Applications:**

**Audi:** A3/A3 Sportback (07-17), A3 Cabriolet (08-16), A3 Saloon (13-16), A4 (07-18), A4 Quattro (08-18), A4 Allroad (13-18), A5 (15-18), A5 Sportback (09-18), A5 Coupe (07-18), A5 Cabriolet (08-17), A6 (12-18), A6 Quattro (15-18), A7 (14-18), A8 (12-14), RSQ3 (15-18), S1/S1 Sportback (14-18), S3/S3 Sportback (13-16), S3 Saloon (13-16), S3 Cabriolet (14-16), Q3 (11-18), Q5 (09-17), Q7 (15-18), TT (08-18)  
**Seat:** Alhambra (10-18), Altea (06-15), Exeo (10-13), Ibiza (15-17), Leon (07-19), Leon ST (13-19), Toledo (07-09)  
**Skoda:** Octavia II (07-13), Octavia III (13-18), Superb II (08-15), Superb III (15-19), Yeti (09-15), Yeti Outdoor (13-15)  
**VW:** Amarok (10-16), Areton (17-19), Beetle (09-16), CC (12-15), EOS (08-15), Golf V (07-08), Golf VI (09-18), Golf VII (15-17), Golf Alltrack (14-17), Golf VI Estate (09-17), Jetta (08-15), Passat (07-18), Passat CC (08-12), Passat Alltrack (12-18), Polo (14-18), Scirocco (08-18), Sharan (11-18), Tiguan (07-18), Touran (14-15), Transporter T5 (11-15), Transporter T6 (15-19)

**Engine Codes:**

**1.8 TFSi:** BZB, BYT, CABA, CABB, CABD, CDHA, CDHB, CJED, CJEE, CJSJA  
**2.0 TFSi:** CAWA, CAWB, CBFA, CCTA, CCZA, CCZC, CDAA, CDNC, CDND, CCZB, CCZD, CDAB, CDNB, CESA, CETA, CFKA, CFPA, CGYA, CHHA, CHHB, CJKA, CHHC, CHJA, CJKB, CJSB, CJSC, CJXA, CJXB, CJXC, CJXE, CJXG, CJXH, CNCB, CNCD, CNCE, CPLA, CPSA, CULA, CULB, CULC, CYNB, CYP A, CYRB, CYRC, CWZA, CYBB, CYGA, DAJA, DAJB, DEDA



**C VSE7140**

**Timing Tool Kit - VAG 1.2/1.6 TFSi - Chain Drive**

Fits a wide range of 1.2 TFSi engines and the newer generation twin camshaft 1.6 TFSi engines. Contains guide pins for aligning the turbocharger. Supplied in a storage case with full instructions and a warning tag.

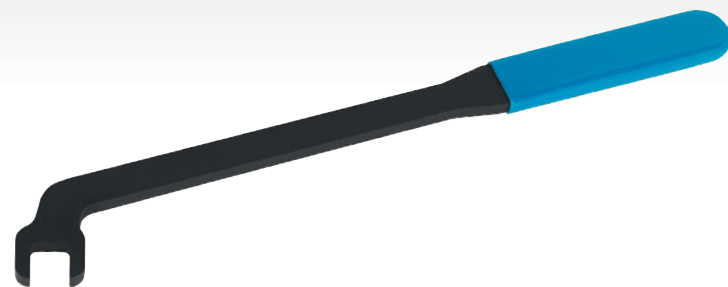
**OEM Tools:** T10414, T10340

**Applications:**

**Audi:** A1 (10-15), A1 Sportback (10-14), A3 (10-13), A3 Sportback (10-13), A3 Cabriolet (10-13)  
**Skoda:** Fabia II (10-19), Octavia II (10-13), Praktik (10-15), Rapid (12-19), Rapid Spaceback (13-19), Roomster (10-19), Yeti (09-13), Yeti Outdoor (13-15)  
**Seat:** Toledo (12-19), Ibiza (12-15), Leon (10-13), Altea/Altea XL (10-15)  
**VW:** Beetle (11-15), Caddy/Caddy Maxi (10-15), Golf VI (09-15), Golf Plus (10-14), Jetta (11-18), Polo (09-16)

**Engine Codes:**

**1.2 TFSi:** CBZA, CBZB, CBZC  
**1.6 TFSi:** CFNA, CFNB



**B VSE5047**

**Auxiliary Belt Tensioner Wrench - VAG 1.4 TSi/TFSi - Belt Drive**

Specially designed wrench to allow for access to the auxiliary belt tensioner where access is limited. For 1.4 direct injection 4-cylinder TSi and TFSi Bluemotion engines.

**OEM Tool:** T10447

**Applications:**

**Audi:** A1 Sportback (12-15), A3 (13-15), A3 Sportback (12-15)  
**Seat:** Ibiza (13-15), Leon (12-15), Leon ST (13-15), Toledo (12-14)  
**Skoda:** Octavia II (10-13), Octavia III (13-15)  
**VW:** Polo (12-14), Golf VII (12-15), Golf VII Estate (09-15), Golf Plus (09-14), Jetta (12-14)

**Engine Codes:**

**1.4 TSi ACT:** CPTA  
**1.4 TFSi:** CPTA, CMBA, CXSA, CHPA, CGGA, CPVA, CRJA



**D VSE5909**

**Belt Replacement & Chain in Head Service Set VAG 1.8/1.8T - Belt Drive**

Suitable for belt tensioning 1.8 and 1.8 Turbo twin camshaft engines. These belt drive engines also have a chain connecting the two camshafts. Includes a belt tensioner bolt, belt tensioner pin and chain tensioner retainer.

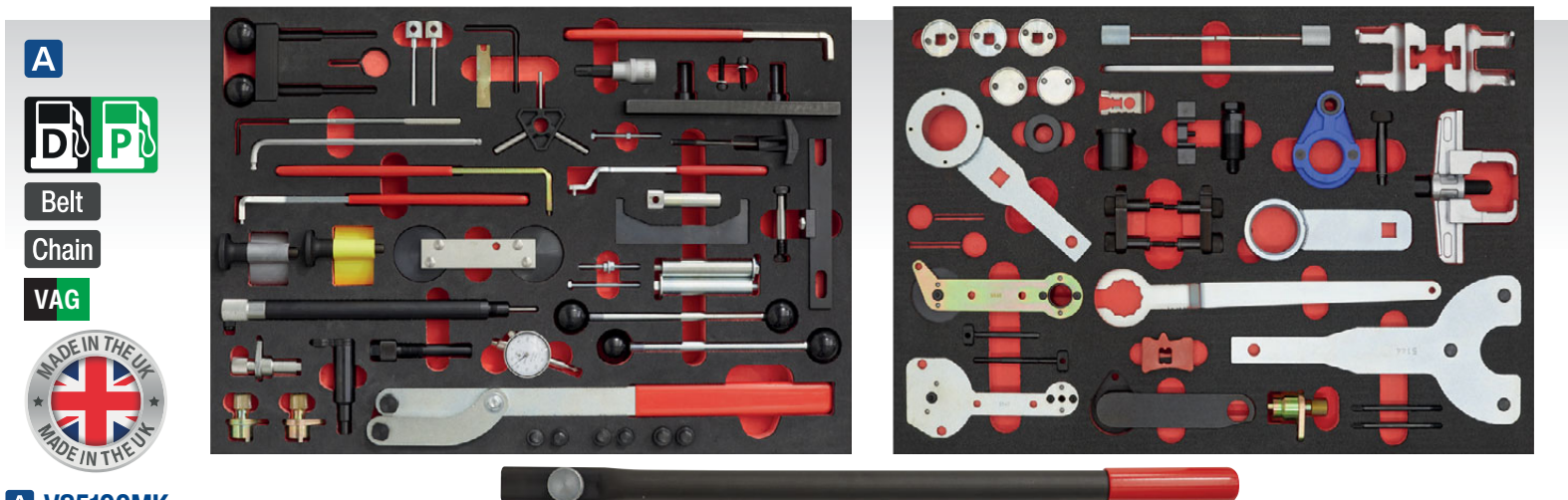
**OEM Tools:** T10092, T40011, T20044/3366

**Applications:**

**Audi:** A3 (96-03), A4 (94-01), A6 (95-05), S3 (99-03), TT (98-06)  
**Seat:** Alhambra (97-10), Cordoba (99-02), Ibiza (99-02), Leon (99-05), Toledo (99-05)  
**Skoda:** Octavia/Octavia Tour (98-10)  
**VW:** Beetle (99-11), Bora (97-04), Golf (97-04), Passat (96-00), Sharan (97-10)  
**Ford:** Galaxy (95-00)

**Engine Codes:**

**1.8i:** ADR, AFY, AGN, AJP, APG, APT, AQE, ARG, ARH, AVV  
**1.8T:** AEB, AGU, AJH, AJL, AJQ, AMK, AMU, ANB, APP, APU, APX, APY, AQA, AQX, ARX, ARY, ARZ, AUM, AUQ, AVC, AWC, AWU, AYP, BAM, BFV, BVP, BVR



**A VS5100MK**

**53pc Master Timing Tool Kit - VAG - Belt/Chain Drive**

Master timing tool kit for VAG vehicles. Covers a wide range of petrol and diesel engines. Suitable for popular VAG vehicles from 1995 to present. Applications include Gen III petrol engines featuring single or twin variable valve timing. Supplied in two high quality storage foams suitable for toolbox drawers. Foam size: 560 x 390 x 45mm.

**OEM Tools:** T10352, T10352C, T10355, T10368, T20208, T40011, T10492, 10409, T10490, T10051, T40001, T10494, T10504, T10499, T10476, T10477, T10475, T10414, T10016, T10115, T20102, T10265, T10264, T10008, T10060A, 3359, T10100, T10050, T10171A, T10170A, T10340, T10353, T10354, 6341, T10120, T10123, T10121, T10172, T10093, 3341, 3369, MP 1-300, 2064, 3418, VAG159, T20044, T10252, T40011, T40266, T40267, T40271, T10567, T20208, T40266, T10567, T40267, T40271

**Applications:**

**Audi:** A1 (10-18), A1 Sportback (10-18), A2 (00-01), A3 (96-18), A3 Sportback (03-18), A3 Cabriolet (08-18), A4 (95-16), A4 Quattro (90-16), A4 Cabriolet (06-09), A4 Allroad (07-16), A5 (08-17), A5 Sportback (09-17), A5 Coupe (09-17), A5 Cabriolet (09-17), A6 (97-18), A6 Quattro (01-18), A7 (15-18), Q2 (16-18), Q3 (11-21), Q5 (08-17), S3 (99-18), TT (99-18)

**Seat:** Alhambra (00-18), Altea (04-15), Altea XL (04-15), Arosa (99-05), Ateca (17-18), Cordoba (96-12), Exeo (09-16), Ibiza (99-17), Leon (99-20), Leon ST (13-20), Mii (12-20), Toledo (96-18)

**Skoda:** Fabia (99-10), Fabia II (07-15), Fabia III (14-18), Kodiaq, (17-21), Octavia (96-10), Octavia II (04-15), Octavia III (10-18), Praktik (07-15), Rapid (12-18), Rapid Spaceback (12-18), Roomster (06-15), Superb (02-08), Superb II (08-15), Superb III (15-19), Yeti (09-17), Yeti Outdoor (13-17)

**Volkswagen:** Amarok (10-16), Areton (17-19), Beetle (00-15), Beetle CC (12-15), Bora (00-06), Caddy (98-21), Caddy Maxi (00-15), CC (10-17), Citigo (12-19), Crafter (11-17), EOS (07-15), Fox (05-12), Golf (96-16), Golf Alltrack (14-17), Golf (11-15), Golf III (95-04), Golf III Cabriolet (95-98), Golf IV (97-05), Golf IV Cabriolet (98-04), Golf Plus (05-14), Golf V (03-08), Golf VI (08-13), Golf VI Cabriolet (11-15), Golf VI (08-19), Golf VI Plus (09-14), Golf VI Alltrack (14-17), Jetta (05-18), Lupo (98-05), Passat (95-19), Passat Allroad (12-15), Passat Alltrack (12-18), Passat CC (08-12), Polo (95-18), Polo Classic (95-02), Scirocco (08-17), Sharan (96-19), Sportsvan (14-17), Tiguan (07-15), Touran (03-17), Toureg (10-15), Transporter (92-18), Up! (12-20), Vento (96-98)

**Engine Codes:**

**1.0:** CHYA, CHYB, CPGA  
**1.2:** AWY, AZQ, BBM, BMD, BME, BXV, BZG, CBZA, CBZB, CBZC, CEVA, CGPA, CGPB, CGPC, CHFA, CHFB, CJZA, CJZB, CJZC, CJZD

**1.2D:** ANY, AYZ, CFWA

**1.4:** AFK, AHW, AKQ, APE, AQQ, ARR, AUA, AUB, AXP, AXU, BBY, BBZ, BCA, BKG, BKY, BLG, BLN, BMY, BUD, BWK, BXW, CAVA, CAVB, CAVC, CAVD, CAVE, CAVF, CAVG, CAXA, CAXC, CDGA, CGGA, CGGB, CHPA, CHPB, CKMA, CNVA, CMAA, CMBA, CPTA, CPVA, CPVB, CMSB, CPWA, CRJA, CTHA, CTHB, CTHC, CTHD, CTHE, CTHF, CTHG, CTJC, CTKA, CUKB, CUKC

**1.4D:** AMF, ATL, BAY, BHC, BMS, BNM, BNV, BWB, CUSA, CUSB, CUTA

**1.6:** 1F, AEH, AFT, AKL, AKS, ALZ, APF, ARC, AUR, AUS, AVU, AZD, BAD, BAG, BCB, BFQ, BFS, BGU, BLF, BLP, BSE, BSF, BTS, CLNA, CLRA, CNKA

**1.6D:** AYD, AYY, CAYA, CAYB, CAYC, CAYD, CAYE, CLHA, CLHB, CRKA, CRKB

**1.7D:** AKU

**1.8:** AEB, AGN, AGU, AJL, AJP, AJQ, AMK, AMU, ANB, APG, APP, APU, APX, APY, AQA, ARX, ARY, ARZ, AUM, AUQ, AWC, AWU, AYP, BAM, BFV, BVP, BVR, BYB, BYT, BZB, CABA, CABB, CABD, CDAA, CDAB, CDHA, CDHB, CGYA, CJEB, CJED, CJEE, CJSA, CJSB, CJSC, CYGA, DAJA, DAJB

**1.9D:** 1X, 1Y, ABL, AFN, AGR, AHF, AJM, ALH, ANU, ARL, ASV, ASZ, ATD, AUY, AVB, AVF, AVG, AVQ, AWT, AWX, AXB, AXC, AXR, BJB, BKC, BKE, BLS, BLT, BMT, BPX, BPZ, BRB, BRM, BRR, BRS, BRU, BSU, BSV, BSW, BTB, BUK, BVK, BXE, BXF, BXJ

**2.0:** AAC, APK, AQY, ATM, ATU, AWA, AWF, AWG, AXA, AXW, AXX, AZG, AZH, AZJ, AZM, BEH, BGB, BHD, BHZ, BLR, BLX, BLY, BMB, BPG, BPJ, BPY, BUL, BE, BVX, BVY, BVZ, BWA, BWA1, BWE, BWJ, BWT, BYD, BYK, BZC, CAWA, CAWB, CBFA, CCTA, CCZA, CCZB, CCZC, CCZD, CDBD, CDLA, CDLB, CDLC, CDLD, CDLK, CDMA, CFPA, CHHA, CHHB, CPLA, CRUA, CUA, CUN, CUUA, DNUE, DKTA, DJHC, DJHA, DEDA, CZPA, CZPB, CZPC, CPPA, CULA, CULC, CJSC, DAJA, DAJB, CJKA, CJKB, CJXA, CJXB, CJXC, CJXD, CJXE, CJXG

**2.0D:** AZV, BKD, BKQ, BMM, BMN, BNA, BPW, BRA, BRC, BRD, BRE, BRF, BVA, BVF, BVG, BUY, BLB, BRT, BVH, BEW, BDJ, BSS, BST, BMP, BDK, BGW, BHW, BKP, BMA, BMR, BUZ, BVE, BWV, CAGA, CAGB, CAGC, CAHA, CAHB, CBAA, CBAB, CBBB, CBEA, CEGA, CFHC, CFJA, CFFA, CFFB, CFFE, CFFG, CFGC, CFGD, CLCB, CFHA, CFHB, CFHD, CGLA, CGLB, CGLC, CGLD, CGLE, CJCA, CJCB, CJCC, CJCD, CKFB, CKFC, CRMB, CRVA, CRVC, CUPA, CRKB, CLCA, CFHF, CRCB, CFHJ, CDBA, CDCA, CNFA, CNFB, CNEA, CSHA, CUV, CLJA, CMGB, CSUE, CFHE, DFMA, CFFD, CKTB, CKUB, CKUC, CKTC, CBDA, CBDC, CJAA, CMEA, CMFA, CMFB, CNHA, CNHC, CUNA, CRFA, CRFC, CRLB, CRBD, CRBC, CRLC, CSUA, CBAC, CLLA, CUVA, DFLA, DFLD, CBBA, CFCA, CAAC, CAAA, CAAB, CAAD, CAAE, CCHA, CCHB, DFCA



**B VS2032 Turbo Adjustment Set - VAG**

Specially designed spanner and split deep socket to assist in the removal, fitting and adjusting the turbo pressure capsule and turbo actuator on VAG engines. Set includes 1/4" Sq Drive socket (10mm x 50mm) and spanner (10mm open-end & 12mm 12-point ring combination). Manufactured from Chrome Vanadium.

**OEM Tools:** T10422A, T10423

**Applications:** Golf V1 (5K), Golf Plus (52), Jetta (1K), Passat (3C), Passat CC (35), Scirocco (13), EOS (1F), Tiguan (5N), Transporter T5 (2010on) 7J, 7H, 7G, 7F

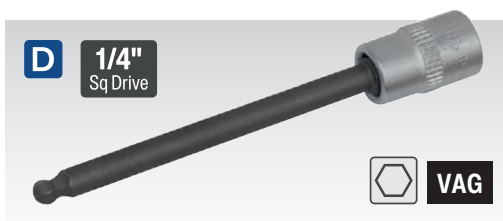


**C VS2541 Land Rover TD5 Injector Puller**

Includes a slide hammer.

**Applications:** Land Rover Defender (1999 - 2007), Discovery II (1998 - 2005)

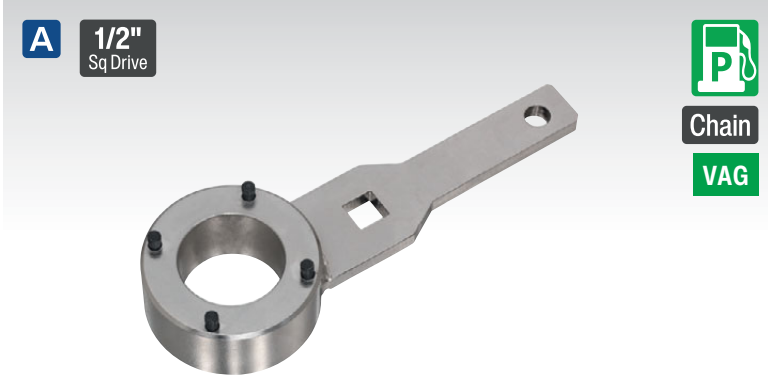
**Engine Codes:** 10P, 15P, 16P



**D VS0584 Crankshaft Sensor 4mm Ball-End Hex Key 80mm Long Reach - VAG**

Crankshaft sensor hex key 80mm long reach. Chrome Vanadium 4mm ball-end hex key. Fits a wide variety of VAG vehicles.





**A VSE6237**

**Crankshaft Pulley Holding Wrench - VAG 1.8/2.0 TFSi - Chain Drive**

Essential tool required to counter-hold the crankshaft pulley whilst removing/tightening the crankshaft pulley bolt.

**Applications:**

**Audi:** A3 Saloon (13-15), A3/A3 Sportback (07-16), A3 Cabriolet (08-16), A4 (07-15), A4 Allroad (09-15), A4 Quattro (08-15), A5 Coupe/Cabriolet (07-16), A5 Sportback (09-17), A6 (12-14), TT (08-17), Q3 (11-16), Q5 (08-16)

**Seat:** Alhambra (10-15), Altea (06-15), Altea Freetrack (09-15), Exeo (10-13), Leon (09-17), Toledo (09-09)

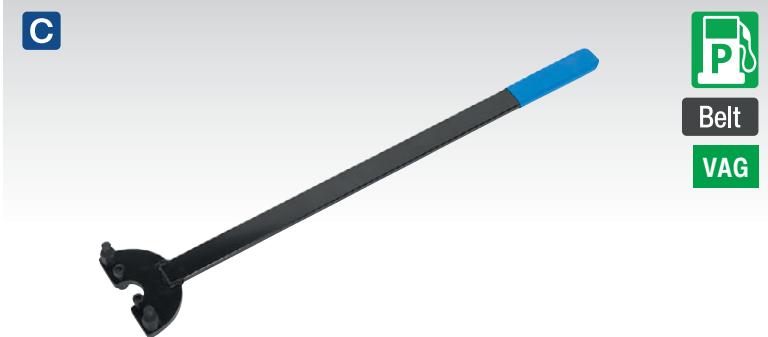
**Skoda:** Octavia II (07-13), Octavia III (13-17), Superb II (08-15), Superb III (15-19), Yeti (09-13)

**VW:** Amarok (10-16), Beetle (13-16), CC (12-15), EOS (08-15), Golf V (09-13), Golf VI (09-13), Golf VII (13-16), Golf VI Cabriolet (12-14), Golf VII (12-15), Jetta (05-11), Transporter T5 (11-15), Passat (07-11), Passat (11-17), Passat Alltrack (12-16), Passat CC (08-12), Scirocco (08-14), Sharan (11-15), Tiguan (07-15)

**Engine Codes:**

**1.8 TFSi:** BYT, BZB, CABA, CABB, CABD, CDAA, CDAB, CDHA, CDHB, CJSA, CJSB, CJEB

**2.0 TFSi:** CAWA, CAWB, CBFA, CCTA, CCZA, CCZB, CCZC, CCZD, CDNB, CDNC, CDND, CESA, CETA, CFKA, CFPA, CHHA, CHHB, CJKA, CJKB, CNCB, CNCD, CPLA, CPSA, CYNB



**C VSE23581**

**Crankshaft Pulley Holding Tool - VAG - Belt Drive**

Suitable for VAG 1.2 6v, 1.2 12v, 1.4 and 1.6 16v twin cam petrol engines.

**OEM Tool:** T30004/3415

**Applications:**

**Audi:** A2 (00-06)

**Seat:** Cordoba (06-08), Ibiza (02-08)

**Skoda:** Fabia (99-07), Fabia II (07-12), Praktik (07-09), Roomster (06-09), Octavia (00-02), Octavia II (04-09)

**VW:** Beetle (01-11), Caddy (99-10), Golf/Bora (97-11), Golf Plus (05-09), Lupo (98-05), Polo (97-09)

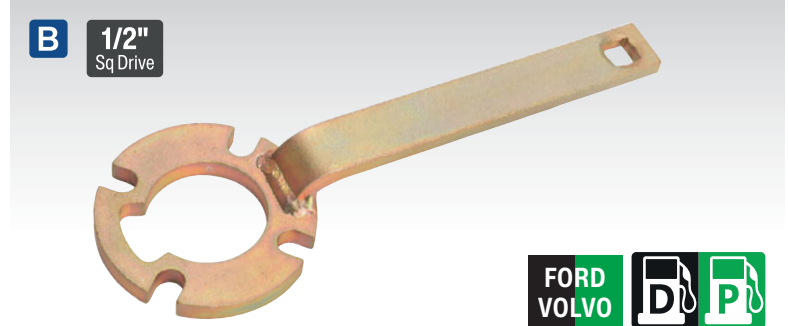
**Engine Codes:**

**1.2 6v:** AWY, BBM, BMD, CHFA, CHFB

**1.2 12v:** AZQ, BME, BXV, BZG, CEVA, CGPA, CGPB, CJLA

**1.4/1.6 16v:** AFK, AHW, AJV, AKQ, APE, AQQ, ARR, AUA, AUB, AXP, BAD, BBY, BBZ, BCA, BKY, BUD

**Associated Tool:** **VSE2357A** - Camshaft Setting Tool - VAG 1.4, 1.6 16v/FSi Belt Drive (see page 422)



**B VSE6140**

**Crankshaft Holding Tool - Ford, Volvo**

Used to counter-hold the crankshaft pulley to release and tighten the centre bolt. Suitable for a wide range of Ford and Volvo models and engine sizes.

**OEM Tools:**

**Ford:** 303-1179  
**Volvo:** 999 5433

**Applications:**

**Ford:** Focus (05-11), Galaxy (06-10), Kuga (11-13), Mondeo (07-10), S-Max (06-10)

**Volvo:** C30 (06-13), C70 (98-13), S40 (96-12), S60 (00-15), S70 (98-00), S80 (98-15), V40 (96-99), V50 (04-12), V60 (10-15), V70 (98-15), XC60 (08-15), XC70 (02-15), XC90 (02-13)

**Engine Codes - Diesel:**

**2.0D:** D5204T, D5204T2, D5204T3, D5204T5

**2.4D:** D5244T, D5244T2, D5244T3, D5244T5, D5244T6, D5244T7, D5244T8, D5244T9, D5244T10, D5244T11, D5244T13, D5244T14, D5244T15, D5244T16, D5244T17, D5244T18, D5244T19

**Engine Codes - Petrol:**

**1.6:** B4164S

**1.8:** B4184S

**1.9:** B4194T

**2.0:** B4204S, B4204T, B4204T3, B4204T4, B4204T5

**2.3:** B5234FS, B5234T3, B5234T7, B5234T8, B5234T9

**2.4:** B5244SG, B5244SG2, B5244S, B5244S2, B5244S4, B5244S5, B5244S7, B5244T, B5244T2, B5244T3, B5244T4, B5244T5, B5244T7

**2.5:** B5254FS, B5254T, B5254T2, B5254T3, B5254T4, B5254T5, B5254T6, B5254T7, B5254T8, B5254T10, B5254T11, HUBA, HUWA, HYDA, HYDC, JDZA

**2.8:** B6284T/T2

**2.9:** B6294S, B6294S2, B6294S3, B6294T



**D VSE6255**

**Crankshaft Pulley Holding Tool - VAG 1.0/1.2/1.4 TSi - Belt Drive**

Suitable for VAG 1.0, 1.2 and 1.4 TSi petrol engines. Counter-holding tool used when removing or tightening crankshaft pulley bolt. 1/2" Sq Drive for use with a conventional breaker bar.

**OEM Tool:** T10475

**Applications:**

**Audi:** A1/A1 Sportback (12-15), A3/A3 Sportback (12-15), A3 Saloon (13-15), A3 Cabriolet (13-15)

**Seat:** Ibiza (12-19), Leon (12-15), Leon ST (13-15), Mii (12-19), Toledo (15-17)

**Skoda:** Citigo (11-19), Fabia (11-14), Fabia III (14-21), Octavia II (10-13), Octavia III (13-15), Rapid (15-17)

**VW:** Golf VI (08-13), Golf VI Plus (09-14), Golf VI Estate (09-13), Golf VII (12-15), Golf VII Estate (13-14), Golf SV/Sportsvan (14-16), Jetta (12-18), Polo (14-18), Up! (11-20)

**Engine Codes:**

**1.0 TSi:** CPGA, CYHA, CYHB

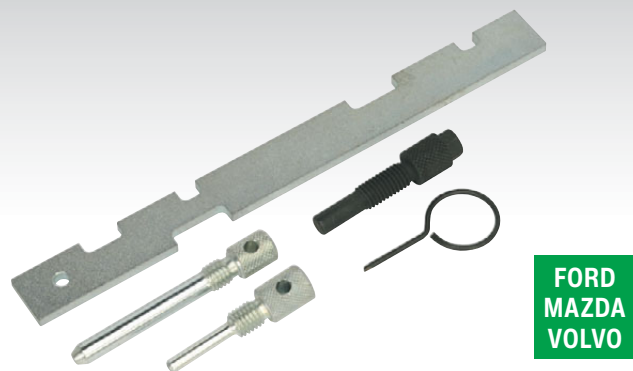
**1.2 TSi:** CJZA, CJZB, CJZC, CJZD

**1.4 TSi:** CGGA, CHPA, CMBA, CPTA, CPVA, CPVB, CRJA, CXSA

A



Belt  
Chain



FORD  
MAZDA  
VOLVO

### A VSE5515

#### Timing Tool Kit - Ford, Mazda, Volvo 1.25/1.4/1.6/1.8/2.0/2.3 16v Duratec - Belt/Chain Drive

Covers the complete range of Ford Duratec engines 1.25, 1.6, 1.8, 2.0, 2.3 16v in both belt and chain drive variants.

##### OEM Tools:

**Ford:** 303-1054, 303-507 (21-210), 303-620 (21-163), 303-574, 303-748, 303-376 (21-162B), 303-376B

**Mazda:** 49 JE01061, 303-574, 49 JE02061, 303-465, 49 JE01054

**Volvo:** 999-7152, 999-7151

##### Applications:

**Ford:** B-Max (15-17), C-Max (07-10), Cougar (98-01), Fiesta (95-17), Focus (98-11), Focus C-Max (03-07), Fusion (02-12), Galaxy (06-15), Maverick (01-07), Mondeo (93-15), Puma (97-02), S-Max (06-15), Tourneo Connect (02-06), Transit (06-12), Transit Connect (02-06)

**Mazda:** 121ZQ (95-00), 2DY (02-07), 3BK (03-09), 3BL (09-15), 5CR (05-10), 5CW (10-12), 6GG/GY (02-07), 6GH (07-15), MPV LW (02-05), MX-5 NC (05-16), Tribute EP (04-06)

**Volvo:** C30 (06-13), S40 (06-12), S80 (07-11), V50 (04-12)

##### Engine Codes:

**1.25 16v Belt:** DHA, DHB, DHC, DHD, DHE, DHF, DHG, F8JA, F8JB, FUJA, FUJB, M7JA, M7JB, SNJA, SNJB, SNJC, SNJD, STJA, STJB, STJC, STJD

**1.4 16v Belt:** ASDA, ASDB, FHA, FHB, FHD, FHE, FHF, FXDA, FXDB, FXDC, FXDD, FXJA, FXJB, FXJC, RTJA, RTJB, SPJA, SPJC, SPJE, UTJA

**1.6 16v Belt:** B4164S3, FYDA, FYDB, FYDC, FYDD, FYDH, FYJA, FYJB, FYJC, HWDA, HWDB, IQJA, IQJC, L1F, L1J, L1L, L1N, L1Q, L1T, L1V, L1W, SHDA, SHDB, SHDC

**1.8 16v Belt:** EYDB, EYDC, EYDD, EYDE, EYDF, EYDG, EYDI, EYDJ, EYDL, EYPA, EYPC, RKA, RKB, RKF, RKH, RKJ, RKK

**1.8 16v Chain:** CDBB, CGBA, CGBB, CHBA, CHBB, CSDA, CSDB, Q7DA, QQDA, QQDB, QQDC, L8, B4184S11, B4184S, B4184S8

**2.0 16v Belt:** ALDA, EDBA, EDBB, EDBC, EDBD, EDDB, EDDC, EDDD, EDDF, HMDA, NGA, NGB, NGC, NGD, YF

**2.0 16v Chain:** B4204S3, B4204S4, AOBA, AOBC, AODA, AODB, AODE, AOWA, AOWB, CJBA, CJBB, LF, N4JB, SYDA, TBBA, TBBB, TBWA, TBWB

**2.3 16v Chain:** GZ, GZFA, GZFB, GZFC, L3, SEBA, SEWA

D



### D VSE888

#### Universal Twin Camshaft Locking Tool

Designed to lock twin camshaft in the timed position when replacing the timing belt. Huge range of application coverage from closely positioned sprockets on many twin cams to more widely spaced cam/injector pump sprockets on certain diesel engines. Features fine tooth adjustment and extension bar for increased applications. Supplied in storage case.

**Reach:** 35-120mm

B



Belt  
FORD  
VOLVO



### B VSE6562

#### Camshaft Locking Tool - Ford, Volvo 1.6 EcoBoost - Belt Drive

Used to set and lock the camshafts into their timing position when the variable valve timing sprockets have to be removed. To be used in conjunction with Model No. VSE6560 Timing Tool Kit.

##### OEM Tool:

**Ford:** 303-1552

##### Applications:

**Ford:** B-Max (12-17), C-Max (03-18), Fiesta (08-17), Focus (04-18), Galaxy (10-15), Grand C-Max (10-18), Grand Tourneo Connect (13-15), Kuga (13-15), Mondeo (07-15), S-Max (10-15), Tourneo Connect (13-15), Transit Connect (13-16)

**Volvo:** S60 (11-15), S80 (10-15), V40 (10-15), V60 (11-15), V70 (10-15)

##### Engine Codes:

**Ford:** HXDA, HXDB, HXJA, HXJB, IQDA, IQDB, IQDC, IQJA, JJMA, JQDA, JQDB, JQGA, JQMA, JQMB, JTBA, JTBB, JTDA, JTDB, JTWA, JTWB, KGBA, MUDA, MUDD, PNBA, PNDA, PNDD, RHBA, SIDA, XTDA, XTDB, RVJA, U5JA

**Volvo:** B4164T, B4164T2, B4164T3, B4164T4

C



### C VS4844

#### Universal Pulley & Fan Clutch Holder Set

Designed to remove and install fan clutch and rotate or restrain the camshaft pulley. Adjustable jaw spread and interchangeable pins.

E



### E VS783

#### Universal Pulley & Fan Clutch Holder Set

Designed to remove and install fan clutch and rotate or restrain the camshaft pulley. Adjustable jaw spread and interchangeable pins. Supplied in storage case.

**Jaw Spread Range:** 33-243mm

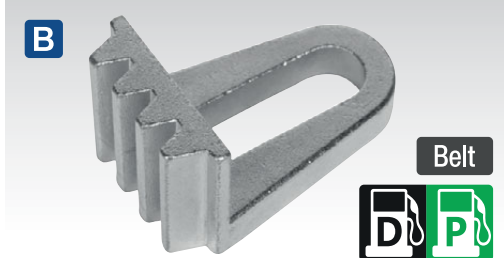
**Pin Sizes:** Ø5.5, 7.5, 9.5, 16mm (2 of each)



**A SCS574**  
**50ml Multi Gasket Sealant Orange**

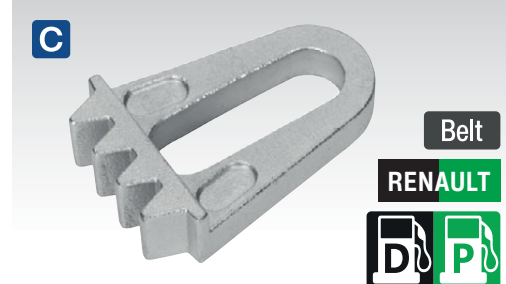
Immediate low resistance on assembly and cures once confined in the absence of air in close fitting joints. High oil resistance with water and glycol tolerance. Supplied in an easy-to-use concertina applicator. See page 1305 for bulk pack option.

Size: 50ml Concertina Applicator



**B VSE2394**  
**Flywheel Locking Tool**

Applications: Citroen, Fiat, FSO, LDV, Mercedes, Peugeot



**C VSE2395**  
**Flywheel Locking Tool - Renault**

Applications: D7F Petrol, F8Q/F9Q Diesel



**D VS175**  
**Flywheel Turning Wrench**

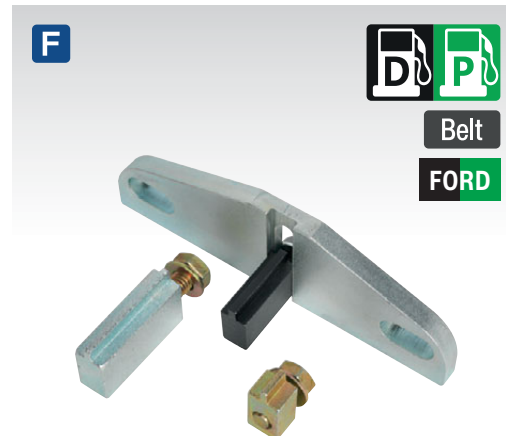
Locates in starter ring gear teeth. Spring loaded catch for ease of use.



**E VSE2242**  
**10pc Fuel Pump Timing Kit - Belt Drive**

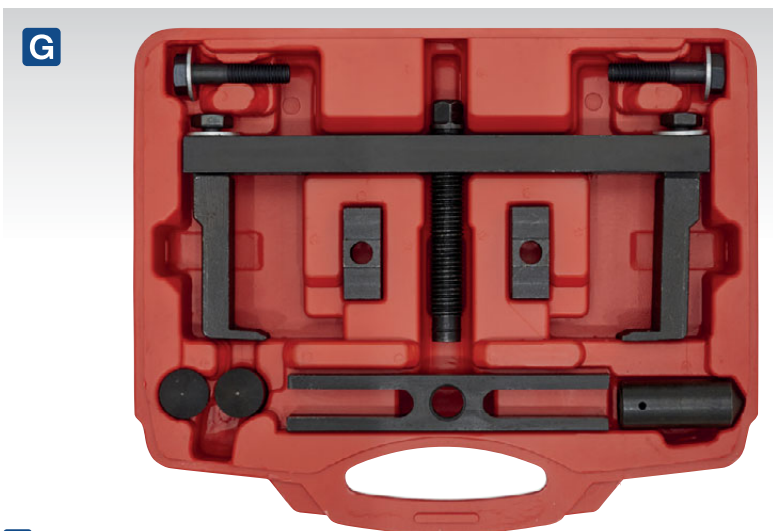
Suitable for timing distributor type diesel fuel pumps on engines fitted with Bosch VE Rotary, Kiki, Nippon Denso, CAV Rotodiesel - top entry port. These systems are mainly found on cars and light commercial vehicles. Supplied with dial gauge in storage case.

Entry Port Sizes: M8, M10, M12, M14



**F VSE5945**  
**Flywheel Locking Tool Set Ford - Belt Drive**

Associated tool for use in conjunction with a number of Ford timing tool kits for locking the crankshaft in timed position by locating into flywheel. Also suitable for counter-holding crankshaft when releasing or tightening crankshaft pulley bolts. Used on a wide range of Ford engines, particularly diesel 1.8TDdi/TDCi and 2.0TDCi, petrol 1.6Ti-VCT and later 1.25/1.4 16v Duratec. See our website for full details, [www.sealey.co.uk](http://www.sealey.co.uk).



**G PS997**  
**12pc Crankshaft Pulley Removal Tool Set**

Enables fast and simple removal of crankshaft and auxiliary pulleys - even in a confined space. Chrome Molybdenum legs with thin jaws allow removal of pulleys with narrow tolerance between pulley and block. Supplied in storage case.

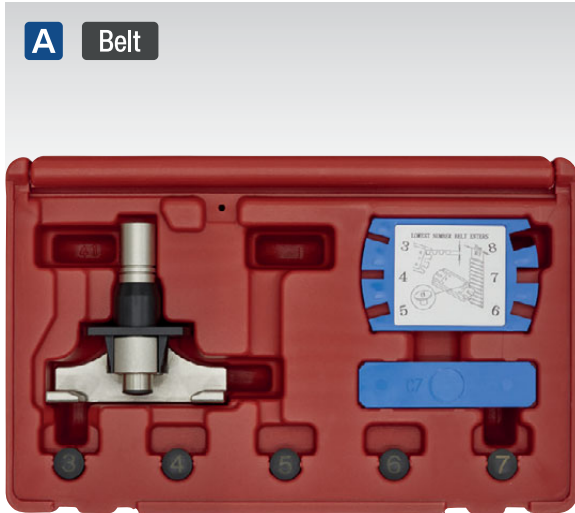
Depth Range: 68-88mm  
Diameter Range: Ø40-120mm, 132-195mm



**H VS786**  
**550mm 1/2" Sq Drive Impact Bar**

Specially designed for use where nuts/bolts are not easily accessible for air impact tools, or air is not available. Ideal tool for loosening crankshaft pulley bolts. Simply fit the required impact socket, keeping the arm at a right angle to the shaft for maximum torque, and strike the top of the tool with a hammer to shock the nut or bolt loose. Features hand guard for extra safety.

Drive: 1/2" Sq  
Length: 550mm



**A VSE120**  
**Universal Belt Tension Tester**

Ensures accurate and consistent assessment of timing belt tension. Simple-to-use, full instructions included. Suitable for all common types of timing belt. Set includes belt gauge, tension gauge, tension buttons and calibration strip. Supplied in storage case.



**B VSE110**  
**Belt Tensioning Gauge**

Ensures accurate measurement of belt tension. Clear increment and dual scale for ease of use. Tension chart guide is included. Suitable for belts of varying thickness.



**C VS788**  
**Auxiliary Stretch Belt Removal/Installation Tool**

Prevents damage to the pulley and prolongs the life of the belt. Presented in an interlocking lightweight and compact design. Suitable for most leading brands and models.



**D VS784**  
**Ratchet Action Auxiliary Belt Tension Tool Kit**

Tool kit for releasing the tensioner load from auxiliary belts when removing/installing the belt. Ratchet wrench with multi-positional extension handle for improved access to tensioner. Kit includes sockets, hex bits and square drives. Covers a wide range of spring loaded tensioner applications.

**Contents:** Ratchet Wrench, Multi-Positional Extension Handle, Sockets; 8, 12, 13, 14, 17, 18, 24mm, 5/8", Hex Bits; 6, 8, 10mm, Adaptors; 3/8", 1/2" Sq Drive



**E VS787**  
**Auxiliary Stretch Belt Removal/Installation Tool**

Designed for the recommended removal and installation of elasticated or stretch drive belts fitted to modern auxiliary drive systems, such as the alternator or power steering. Prevents damage to the pulley and prolongs the life of the belt. Two tools included, one for installation and one for removal. Fits most crankshaft pulleys. Supplied in storage case.






**A VSE300D**  
**6pc Compression Tester**  
 Deluxe   
 Features 300psi gauge with large rubber bumper. Includes extension for deep-seated plugs and flexible extension hose. Suitable for petrol engines with 10, 12, 14, 18mm spark plug threads.



**B CT955**  
**8pc Compression Test Kit**  
 Compression tester fitted with Ø63mm gauge reading up to 300psi(20kg/cm<sup>2</sup>). Kit includes 130mm straight and angled push-on connectors, 300mm flexible extension with 10, 12, 14, 18mm adaptors.




**C VSE206**  
**10pc Compression Test Kit**  
  
 Ø59mm Gauge fitted with 250mm hose and quick connect. Scale reads from 0-21bar(0-300psi). Kit includes four extension hoses, seven plug thread adaptors from 10 to 18mm and a self-sealing quick connector. Suitable for most petrol engine cars and light commercials. Supplied in storage case.




**D CT951**  
**3pc Compression Test Kit**  
  
 Large easy-to-read gauge with Metric and Imperial readings. Side release valve and 12" flexible hose for easy reach. Pressure range 0-300psi/0-2000kpa. Screw in 14 and 18mm adaptors and 150mm rigid stem cone adaptor fits most spark plug holes.

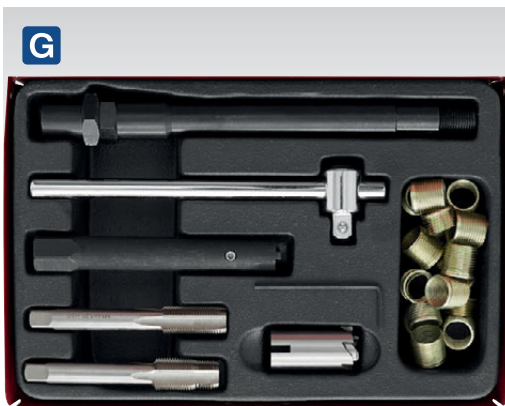


**E VSE2020**  
**Cylinder Leakage Tester - 2-Gauge**  
  
 Designed to detect a variety of common engine faults including; worn piston rings, worn valves, cylinder head cracks and blown head gaskets. Twin gauge manifold shows percentage of cylinder leakage and cylinder pressure. Supplied in storage case with instructions. For spark plugs fitted into a deep recess, VS200/A, Long Reach Compression Tester Adaptor may be required (see **H**).

<b>Spark Plug Suitability:</b>	10, 12, 14mm
<b>Number of Gauges:</b>	2
<b>Reading:</b>	Cylinder Leakage %, Cylinder Pressure psi/bar




**F AK65561**  
**4pc 3/8" Sq Drive Spark Plug Socket Set - Magnetic**  
  
 Forged, Chrome Vanadium steel, 3/8" Sq drive WallDrive<sup>®</sup> sockets with magnetic plug retention, external hex and polished chrome finish. Set includes thin walled 16mm socket, for where clearance is tight.



**G VS301**  
**Spark Plug Thread Repair Kit**  
 Comprehensive and time-saving kit of spark plug thread repair tools. Especially suitable for the repair of deep-seated plug configurations. Incorporates taper and plug taps together with integrated ream. Stepped tap ensures correct alignment of cutter in existing spark plug hole. Extension tools allow easy-access to the bottom of the plug recess. Includes set of plug inserts.

<b>Tap:</b>	M14 x 1.25mm
<b>Step Taps:</b>	M14 x 1.25, M16 x 1.25mm
<b>Insert Lengths:</b>	9.4, 15mm
<b>Replacement Inserts</b>	
<b>(Packs of 10):</b>	<b>VS301.9</b> (9.4mm), <b>VS301.15</b> (15mm)

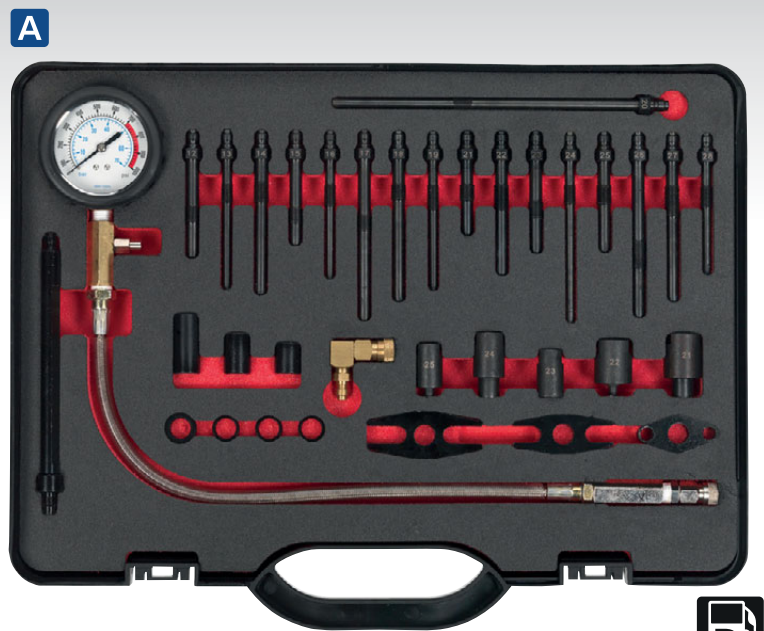


**H VS200/A**  
**Long Reach Compression Tester Adaptor**  
  
 Valved extension enables access to deep-seated plugs. Features M14 thread and two thread adaptors M10 and M12 that allow compression testing on most modern engines.



**I VS8233A**  
**Ø6mm Video Borescope - Articulated**  
 Portable articulated borescope supplied with 70mm TFT colour display. Mini waterproof (IP67) camera with integral light (Ø6mm) mounted on 800mm flexible 2-way articulated probe. Using an attached dial, the camera head angle can be changed by up to 350° without having to remove camera from inspection area. Using 8GB micro SD card (supplied) up to 9hrs of video and 20000 still images can be recorded. Videos and still images can be downloaded to a PC via USB data cable (supplied). CMOS camera with six LED probe light and a focus distance of 20-50mm for fine control of light output and clear pictures. Potential applications; automobile maintenance, engine inspection, pipe line exploration etc. Powered by 4 x AA batteries (not included).

<b>Camera Probe Length:</b>	800mm
<b>Camera:</b>	Ø6mm
<b>Mirror Flip/Rotate Function:</b>	✓
<b>Pod Length:</b>	20mm
<b>Power Source:</b>	4 x AA Batteries (not included)



**A VSE3158**  
**Compression Test Kit**

Up-to-date kit for compression testing on diesel vehicles. Contains 17 of the most common dummy glow plugs, covering 29 glow plug types, 33 manufacturers and over 500 model/engine variants from 1999 to 2015. Also includes a set of injector adaptors if an alternative method of testing is required. See instructions on Sealey website, [www.sealey.co.uk](http://www.sealey.co.uk), for complete vehicle applications.

<b>Glow Plug Adaptors:</b>	Alfa Romeo, Audi, BMW, Cadillac, Chrysler, Citroen, Dacia, Dodge, Fiat, Ford, Honda, Jaguar, Jeep, Lancia, Land Rover, Mazda, Mercedes, MG, Mini, Mitsubishi, Nissan, Peugeot, Porsche, Renault, Rover, Saab, Seat, Skoda, Suzuki, Toyota, Vauxhall/Opel, Volvo, VW
<b>Injector Adaptors:</b>	M17, M20, M24
<b>Gauge Pressure Range:</b>	0-70bar(0-1000psi)

**VSE3155, VSE3156 & VSE3158 INJECTOR ADAPTORS**

These kits contain a full range of injector and glow plug adaptors. Also included is a set of bridge and claw adaptors allowing the user to build a dummy injector with the same profile as the original injector. Ideal for commercial, agricultural, marine and static diesel engines.



**B VSE3155**  
**Master Compression Test Kit**

A comprehensive kit for testing the compression on both diesel and petrol vehicles. Features 600psi gauge with large rubber bumper, straight and right angled quick connect fittings and an extensive range of spark/glow plug and injector adaptors. This kit will cover most modern car, van, truck, bus, agricultural and marine engines. Supplied in storage case. See instructions on Sealey website for complete vehicle applications.

<b>Spark Plug Sizes:</b>	10, 12, 14, 18mm
<b>Glow Plug Adaptors:</b>	Alfa Romeo, BMW, Chrysler, Citroen, Daewoo, Fiat, Ford, Honda, Hyundai, Isuzu, Jeep, Kia, Lada, Lancia, Land Rover, LDV, Mazda, Mercedes, MG, Mitsubishi, Nissan, Peugeot, Renault, Rover, Saab, SsangYong, Suzuki, Toyota, VAG, Vauxhall/Opel, Volvo
<b>Injector Adaptors:</b>	M20, M22, M24, Ford Stanadyne Injectors plus Clamp-On Injectors



**C VSE3156**  
**Compression, Leakage & TDC Kit**

A comprehensive kit for testing the compression and leakage on both diesel and petrol vehicles. Features 600psi gauge with large rubber bumper, straight and right angled quick connect fittings and an extensive range of spark/glow plug and injector adaptors. Includes TDC finder, ideal for use when the engine has no crankshaft timing marks. Supplied in storage case. See instructions on Sealey website for complete vehicle applications.

<b>Spark Plug Sizes:</b>	10, 12, 14, 18mm
<b>Glow Plug Adaptors:</b>	Alfa Romeo, BMW, Chrysler, Citroen, Daewoo, Fiat, Ford, Honda, Hyundai, Isuzu, Jeep, Kia, Lada, Lancia, Land Rover, LDV, Mazda, Mercedes, MG, Mitsubishi, Nissan, Peugeot, Renault, Rover, Saab, SsangYong, Suzuki, Toyota, VAG, Vauxhall/Opel, Volvo
<b>Injector Adaptors:</b>	M20, M22, M24, Ford Stanadyne Injectors plus Clamp-On Injectors 10, 12, 14, 18mm



**D SX0408**  
**8 & 10mm Damaged Glow Plug Removal Set**

Designed to remove damaged/broken glow plugs from cylinder heads. Suitable for glow plugs with an M8 x 1mm and M10 x 1mm thread. Set includes all required adaptors for drilling, centring and pulling for the safe removal of glow plug. Supplied in storage case.

<b>Tap Dimensions:</b>	1/4NF28, M8 x 1mm, M10 x 1mm
<b>Glow Plug Applications:</b>	M8 x 1mm, M10 x 1mm

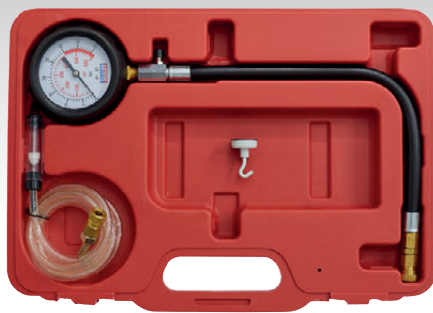


**E VS311**  
**33pc Glow Plug Thread Repair Set**

Fast and effective remedy for damage to cylinder head glow plug threads. Set includes tools for the precise insertion of threaded inserts into the head, and features a unique tap guide system to ensure their correct alignment. Includes four sizes of threaded adaptors suitable for common sizes of glow plug. Supplied in storage case. See page 479 for full details.



**A**



**A VSE3157**

**Compression Gauge, Hose & TDC Base Kit**

Diesel engine compression gauge, which reads up to 600psi. Used in conjunction with Sealey glow plug adaptor kits (Model No's VSE3151, VSE3152, VSE3153). Features TDC finder which connects onto glow plug adaptors. Supplied in storage case with extra storage space.

**Associated Tools:** VSE3151, VSE3152, VSE3153

**B-D Diesel Compression Adaptor Kits**

Diesel engine glow plug compression test adaptor kits that cover a wide range of modern vehicles. For use in conjunction with Sealey Diesel Compression Gauge, Hose & TDC Base Kit Model No. VSE3157 (see **A**). See Sealey website for complete vehicle applications.

**B VSE3151**

**Applications:** BMW, Mercedes, Rover, VAG

**C VSE3152**

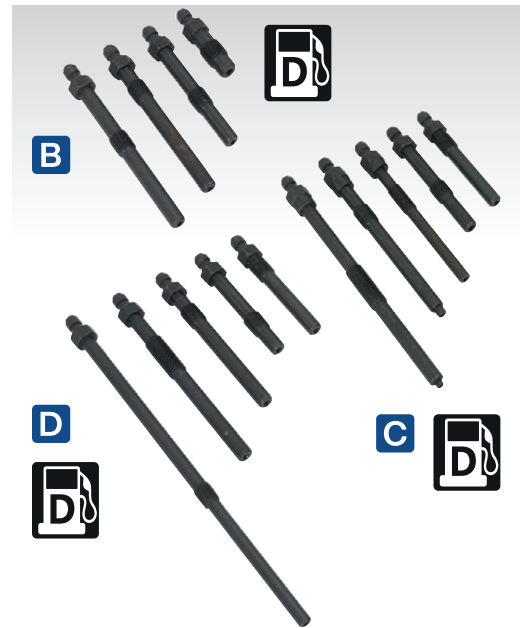
**Applications:** Ford, Mazda, PSA

**D VSE3153**

**Applications:** Alfa Romeo, Fiat, Honda, Vauxhall/Opel

**SELECT YOUR OWN MIX OF INJECTOR ADAPTORS**

The three adaptor kits above are designed to be used in conjunction with Sealey Diesel Compression Gauge, Hose & TDC Base Kit (Model No. VSE3157). Simply buy the base kit and order as many or as few of the adaptor kits as you need.



**E**



**E VSE204**

**Compression Test Kit**

Ø60mm Gauge with heavy-duty rubber bumper, 400mm of hose and quick connector. Suitable for testing cars and light commercial vehicles with direct or indirect injection. Pressure relief valve allows repeated on-vehicle tests. Includes 90° coupling adaptor for limited access applications. Supplied in storage case.

**Applications:** Audi, Citroen, Dacia, Daihatsu, Fiat, Ford, Isuzu, Lancia, Land Rover, Leyland/DAF, Mazda, Mercedes, Mitsubishi, Nissan, Peugeot, Renault, Rover, Seat, Toyota, Vauxhall/Opel, Volvo, VW



**F VS2044**

**Master Compression Test Kit**

The extensive range of glow plug and injector adaptors enable this kit to cover the vast majority of car, van, truck, bus, agricultural and marine diesel engines. Supplied in storage case with preformed liner and foam filled lid.

**Applications:**

**Glow Plug Adaptors:** Alfa Romeo, BMW, Chrysler, Daewoo, Fiat, Ford, Hyundai, Isuzu, Land Rover, LDV, Mazda, Mercedes, Mitsubishi, Nissan, PSA, Renault, Saab, Suzuki, Toyota, VAG, Vauxhall/Opel, Volvo Diesel Engines

**Injector Adaptors:** M20, M22, M24 & Ford Stanadyne Injectors plus Clamp-On Injectors

**G**



**G VS216**

**Diesel High Pressure Pump Test Kit**

Essential tool for accurately measuring the high pressure fuel circuit of diesel common rail systems. Features 2,000bar gauge, pressure relief valve and high pressure flexible hoses. The kit also includes a set of dummy pump regulator and injector pipe blanks. Kit allows for a variety of tests to be conducted:

- ✓ Engine cranking/running pressure test
- ✓ Maximum pump pressure test
- ✓ Pump pressure regulator test
- ✓ Injector leakage test

**Gauge Pressure Range:** 0-2000bar

**Hose Length:** 500mm (x6)

**Hose Fittings:** M12 x 1.5 (x2), M14 x 1.5 (x2), M14 x 1.0 (x1), M16 x 1.0 (x1)

**Hose Fitting Adaptors:** M12 x 1.25 (x2), M14 x 1.25 (x2)

**Dummy Regulator Applications:** Bosch CP1, Bosch CP3, Bosch CP4, Delphi DFP1/DFP3, Denso HP1/HP2, Denso HP3, Siemens DCP1, Siemens DCP2

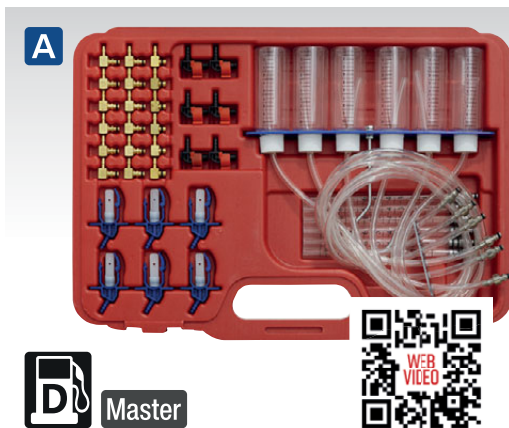
**Injector Pipe Blanks:** M12 x 1.5 (x6), M14 x 1.5 (x6), M14 x 1.0 (x6)

**Pump Outlet Blank:** M12 x 1.0 (x1)



**F**



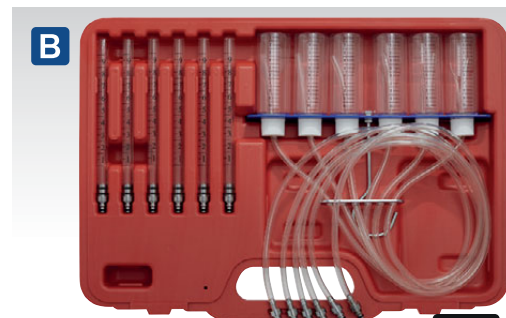


**A** Master



**A VS2048**  
**Injection Leak Back Master Kit - Bosch/ Delphi/Denso**

Updated kit designed to measure return fuel flow on diesel vehicles up to 6-cylinders, fitted with common rail injection system. Identifies worn, blocked or inoperative injectors quickly and easily. Contains measurement tubes for short term tests and measurement bottles for long term, more accurate evaluation. Master kit includes range of adaptors to suit Bosch, Delphi, New Delphi and Denso injectors for comprehensive coverage of common rail diesel vehicles. Supplied in storage case.



**B VS2046**  
**Injector Flow Test Kit - Common Rail**

Designed to measure return fuel flow on diesel vehicles up to 6-cylinders fitted with common rail injection system. Identifies worn, blocked or inoperative injectors quickly and easily. Supplied with measurement tubes for short term tests and measurement bottles for long term, more accurate evaluation. Supplied in storage case.



**C VS2058**  
**Injector Nozzle Tester**

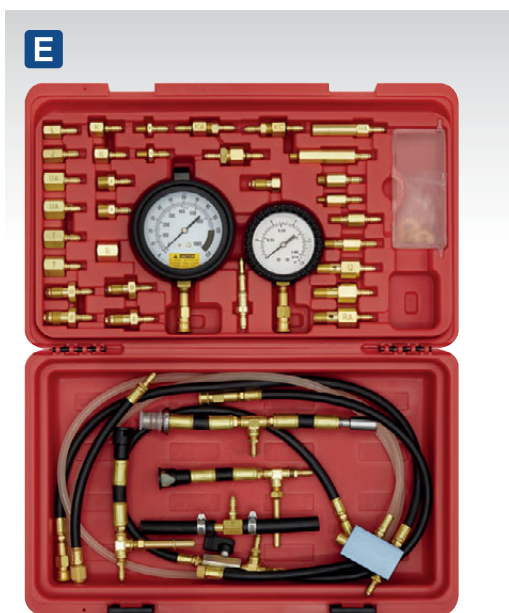
Enables the testing of injectors under pressure. Fitted with Ø88mm gauge with rubber bumper reading both psi and bar. Ideal for checking of atomisation pattern and opening pressure. Transparent reservoir fitted with fine filter. Supplied with two injector connection pipes.

Gauge Scale:	0-600bar/0-8700psi
Connecting Pipework:	M12/M14



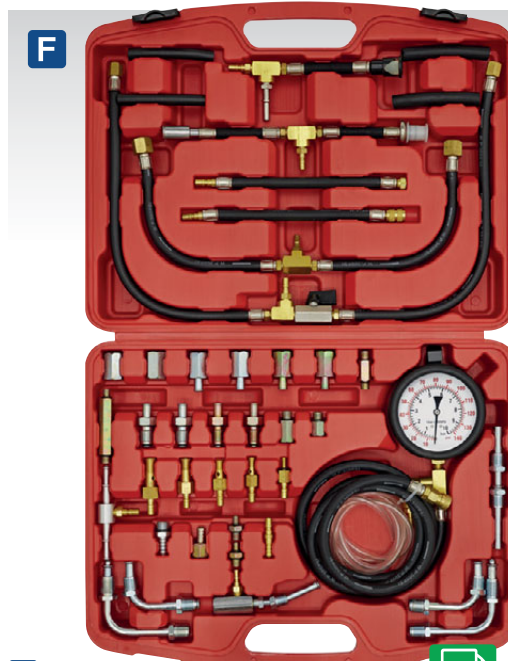
**D VS557**  
**12pc Fuel Line Blanks Set**

Set of 12 diesel fuel line blanks, mainly fitted to Ford, PSA and Renault. Contains six pairs of male and female connectors covering three connector types. Ideal for stopping the flow of fuel after pipework has been disconnected.



**E VSE210**  
**Fuel Injection Pressure Test Kit**

Comprehensive kit of adaptors and fittings for modern petrol fuel injection systems. Components fitted with quick coupling system and safety valve to prevent inadvertent discharge of fuel under pressure. Supplied with large high pressure gauge reading 0-145psi and 0-1000kPa and a small low pressure gauge for accurate low pressure readings. Pressure release valve fitted with long drain hose allows safe recovery of fuel. Supplied in storage case.



**F VSE212**  
**Fuel Injection Pressure Test Kit**

Comprehensive kit of hoses, adaptors and fittings for testing the pressure on modern petrol fuel injection systems. Fitted with quick couplings and safety valve to prevent inadvertent discharge of fuel under pressure. Supplied with Ø92mm single high pressure gauge with rubber bumper, reading 0-140psi and 0-10bar. Pressure release valve fitted with long drain hose allows safe recovery of fuel. Supplied in storage case.



**G VSE211**  
**Fuel Injection Pressure Test Kit - Test Port**

Comprehensive kit of adaptors and fittings for modern Schrader test port fuel injection systems. Components fitted with quick coupling system and safety valve to prevent inadvertent discharge of fuel under pressure. Supplied with large high pressure gauge reading 0-145psi and 0-1000kPa. Gauge has hanging hook and protective bumper. Pressure release valve fitted with long drain hose allows safe recovery of fuel. Supplied in storage case.





**A**

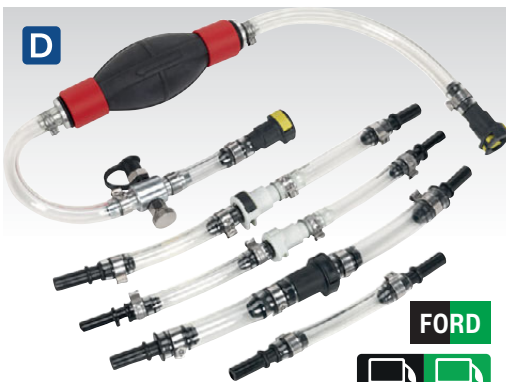


**VAUX/OPEL**

**A VS055 Fuel Priming Kit - Vauxhall/Opel**

Essential for reintroduction of fuel into fuel pump following maintenance such as fitting of new diesel filter, or following drainage of fuel tank. Must be used whenever fuel system is disturbed.

**Applications:** Vauxhall/Opel; 2.0Di, 2.2Di  
**Hose Bore:** Ø9mm



**D**



**D VS552 Fuel Priming Kit - Ford**

Designed to work in conjunction with the low pressure fuel circuit, to reintroduce fuel back up to the fuel line after maintenance. Clear pipes allow visual detection of any air within the fuel system or being inadvertently drawn into the fuel line. Fitted with a valve to work in conjunction with Ford IDS diagnostic equipment, allowing the vacuum to be monitored.



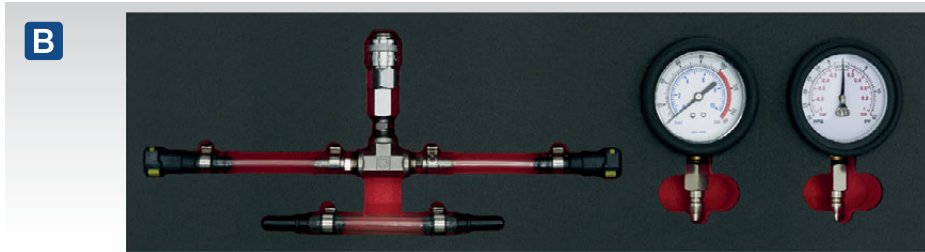
**G**



**G VS560 Oil/Petrol/Diesel Transfer Syphon Pump**

Suitable for the syphoning of oil, petrol, diesel and non-aggressive fluids. Supplied with intake and discharge hose sets. Delivers approximately 9L/min.

**Hose Sizes:** Ø13mm x 1m (x2), Ø18mm x 1m (x2)

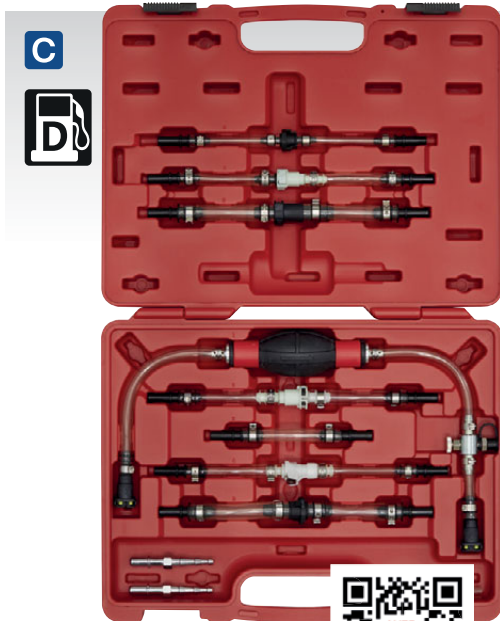


**B**



**B VS550 Fuel Pressure Gauge Set**

Comprising of two gauges for positive/negative and main pressure testing on low-pressure delivery fuel circuit found on common rail systems. Compatible with 9.98mm button type connection system. Suitable for use with Model No's VS555 and VS552 for those systems not supported by 9.98mm button type connections. Can be connected in situ with fuel line for real time running pressure. Quickly identifies fuel related problems.



**C**



**C VS555 Diesel Fuel Priming Set**

A comprehensive fuel priming set fitted with the latest male and female quick connectors found on Fiat, Ford, Land Rover, Mercedes, PSA, Renault, Rover and Vauxhall/Opel vehicles. Designed to work in conjunction with the low pressure fuel circuit, to reintroduce fuel back up to the fuel line after maintenance. Clear pipes allow visual detection of any air within the fuel system or being inadvertently drawn into the fuel line. Two universal connectors and one clear pipe allow connection to older vehicles not fitted with quick release connectors.

**Applications:** Fiat, Ford, Land Rover, Mercedes, PSA, Renault, Rover, Vauxhall/Opel



**H 1.5L**



**H VS556 1.5L Fuel Retriever**

Designed for both petrol and diesel vehicles, to retrieve excess fuel from fuel lines before maintenance. Eliminates the risk of fuel spills and damage to pipes if clamped. Supplied with quick release connectors, commonly found on PSA and Vauxhall/Opel vehicles, plus two universal connectors for older vehicles.

**Applications:** PSA, Vauxhall/Opel  
**Capacity:** 1.5L



**E**



**E VS070 Large Fast Flow Fluid Transfer Tool**

Extra-large 175cc bulb for fast fluid transfer. One-way ball valve draws fluid up, starting syphon process for continuous flow. Fitted with two Ø14mm hose connection points. Ideal for transferring large volumes of fluids. Suitable to use with petrol, diesel, AdBlue®, low viscosity oils, antifreeze, screenwash and water.

**Hose Bore:** Ø14mm



**F**



**F VS071 Fuel Pump Priming Tool**

Designed to be used on the low pressure fuel circuit on commercial vehicles, to reintroduce fuel back up to the fuel line after maintenance.

**Hose Bore:** Ø10-14mm



**I**



**I VSE055 Fuel Pump Priming Tool**

Required for priming injection pump following petrol or diesel filter change, drainage of fuel tank or any other disturbance of the fuel system. Supplied with two fuel pipe clips.

**Hose Bore:** Ø9mm



**A VS6421**  
**9pc Fuel Tank Sender Spanner Set**  
 Set of three different size spanners for removing and refitting fuel tank sender mounting rings. Includes 2-leg and 3-leg configurations ranging from Ø85mm to Ø170mm.

Drive:	24mm Hex
Legs:	2, 3
Capacity:	2-Leg; Small - Ø85-125mm, Large - Ø112-170mm, 3-Leg; Ø110-170mm



**D VS6423**  
**Fuel Tank Sender Spanner 3-Leg**  
 For removing and refitting fuel tank sender mounting rings.

Drive:	24mm Hex
Capacity:	Ø70-165mm



**G VS0453**  
**Fuel Feed Pipe Pliers**  
 Suitable for releasing connections on fuel pipes during maintenance or when replacing fuel filters. Designed to compress the quick connect lugs for easy removal without damaging the connector.

Applications:	Audi, Ford, Mercedes (M-Class), Vauxhall/Opel, VW
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**J VS0458**  
**Fuel Feed Pipe Pliers**  
 Aluminium alloy construction with profiled head. Suitable for releasing connections on in-line fuel line filters during servicing and maintenance.

Applications:	Alfa, Audi, Fiat, Lancia, Seat, Skoda, VW, Volvo
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**M VS6430**  
**Ø108mm 3/8" Sq Drive Fuel Filter Wrench Peugeot/Citroen/Renault**  
 Suitable for PSA and Renault vehicles fitted with HDI diesel engines. This filter key is required when replacing the fuel filter cartridge.



**B FORD**  
**1/2" Sq Drive**  
**B VS6428**  
**Fuel Filter Key Ford Transit**  
 For removing and refitting fuel filter bowl when replacing the fuel cartridge.

Drive:	1/2" Sq
Flutes:	6
Size:	Ø115mm
Applications:	Ford Transit 2.2TDCi (12on)



**E VS0427**  
**Fuel Line Pliers - VAG**  
 Suitable for fuel lines on VAG group vehicles with sprung hose clips. Rotating jaws for easy-access to hose clips in confined spaces. Spring loaded jaws.



**H VSE5330**  
**17mm Multi-Angle Fuel Pipe Wrench - VAG**  
 Fuel pipe wrench, 17mm multi-angle with offset design. Suitable for removing and installing the fuel pipes on VAG TDi engines. Manufactured from Chrome Vanadium.



**K VS551**  
**Remote Action Button Clip Pliers**  
 Long reach tool designed for awkwardly positioned button clips found on fuel circuits, power steering, brake fluid, air conditioning and gear boxes. Flexible cable and compact head help operation in confined spaces.

Length:	650mm
---------	-------



**C NEW**  
**3/8" Sq Drive**  
**C AK6900**  
**17mm Multi-Point 3/8" Sq Drive Fuel Pipe Socket**  
 Fuel pipe socket, 3/8" Sq Drive 17mm multi-point end. Suitable for removing and installing high pressure fuel pipes. Manufactured from Chrome Vanadium.



**F VS6427**  
**Fuel Filter Key - VW, Volvo 2.0/2.4D, 2.5TDI**  
 For removing and refitting the fuel filter cap when replacing the fuel cartridge on 2.0D, 2.4D, 2.5TDi diesel engines found in VW and Volvo vehicles.

OEM Tool:	T50011/9997084
Applications:	VW; Crafter (06-13), Volvo; C30 (06-10), C70 (07-10), S40 (04-10), S60 (01-14), S80 (01-14), V50 (04-10), V60 (10-14), V70 (01-14), XC60 (08-14), XC70 (02-14), XC90 (02-15)



**I VS6450**  
**32mm 1/2" Sq Drive Fuel Filter Socket Ford 2.0TDCi**  
 Fits Ford Transit MK8 2.0TDCi (2016on). Manufactured from Chrome Vanadium steel. Cutout in the socket clears the fuel drain valve.

Drive:	1/2" Sq
Size:	32mm
Applications:	Ford Transit MK8 2016 onwards



**L VS6429**  
**Ø119mm x 6-Point Diesel Fuel Filter Wrench**  
 Fuel filter wrench designed for Fiat, Alfa Romeo, Lancia, Vauxhall/Opel with Diesel engines. Use with a 3/8" Sq Drive torque wrench.

Drive:	3/8" Sq
Size:	119mm x 6-point Profile
Applications:	Alfa Romeo, Lancia, Vauxhall; Vectra C, Signum, Astra H, Corsa C, Combo



**A VS0457**  
**21pc Fuel & Air Conditioning Disconnection Tool Kit**

Comprehensive kit for separating automotive air conditioning hoses and fuel lines. Suitable for a wide variety of vehicles including, amongst others, Ford and Vauxhall/Opel. Supplied in storage case.

**Contents:** Spring Lock Couplings; 3/8", 1/2", 5/8", 3/4", Colour-Coded Disconnecting Set; 5/16", 3/8", 1/2", 5/8", 3/4", 7/8", Fuel Line Disconnect Tool, Ford Oil Cooling Line Disconnect Tool, Ford Fuel Line Coupling Tool, Ford/Vauxhall/Opel Quick Disconnect Tool, 7pc Disconnecting Set, Spare Rubber Bands



**B VS0557**  
**27pc Fuel & Air Conditioning Disconnection Tool Kit**

Comprehensive automotive fuel line and air conditioning hose disconnection kit. Suitable for a wide variety of vehicles. Designed for radiators, transmissions, oil coolers and power steering lines. Compatible with low profile fuel lines on a range of Ford and Vauxhall/Opel models. Supplied in storage case.

**Contents:** Colour-Coded Fuel/Air Conditioning Disconnecting Set; 5/16"/8mm, 3/8"/9.5mm, 3/8"/9.5mm Cooler Line, 3/8"/9.5mm Oil Cooler Line, 2 x 1/2"/13mm, 1/2" Oil Line, 5/8"/16mm, 3/4"/19mm, 7/8"/22mm, Fuel Line/Air Conditioning Disconnect Set; 1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 7/8", Air Line Disconnect; 1/4"/6mm, 3/8"/9mm, 1/2"/12mm, 5/8"/16mm, Ford/Vauxhall/Opel Low Profile Fuel Line Disconnect Tools; 5/16", 3/8", Universal Connectors for Radiators, Transmission, Oil Cooler & Power Steering Lines



**C-E See Below**  
**Individual Composite Hose Pinch Tools**

Smooth rounded jaw edges prevent damage to internal hose reinforcement. Quick and simple, one-handed use. Made from durable glass reinforced nylon. Material properties include lightweight, non-conductive and high-visibility colour to prevent accidental loss of clamp in the engine bay.

Model No:	Application:	Size:	Maximum Jaw Opening:
<b>C VS030</b>	Brake & Fuel Hoses	Small	18mm
<b>D VS031</b>	Heater Hoses	Medium	36mm
<b>E VS032</b>	Radiator Hoses	Large	67mm



**F VS0455**  
**Fuel Line Disconnection Set**

Suitable for breaking into fuel lines and hoses fitted with quick release couplings. Three sizes fit popular makes of vehicle.

**Applications:** Petrol Engines: Ford, Renault, Diesel Engines: Ford, Renault Vauxhall/Opel



**G VS0454**  
**4pc Air Conditioning Spring Lock Coupling Tool Set**

Spring type coupling connectors for air conditioning lines. Locking action prevents spray when disconnecting lines. Suitable for most Chrysler, Ford and Vauxhall/Opel vehicles.

**Contents:** 3/8", 1/2", 5/8", 3/4"



**H VS0555**  
**Air Conditioning & Fuel Line Disconnection Set**

Automotive fuel line and air conditioning hose disconnection set. Suitable for a wide variety of vehicles with quick disconnect couplings. Compatible with low profile fuel lines on a range of Ford, Vauxhall/Opel, Mazda and Chrysler. Designed for automotive fuel, A/C and transmission cooler lines. Made from a tough durable plastic that's resistant to fuel and solvents. Offset handles are ideal to access fittings in tight spaces.

**Contents:** 1/4"/6mm, 5/16"/8mm, 3/8"/9.5mm, 1/2"/13mm, 5/8"/16mm, 3/4"/19mm, 7/8"/22mm



**I VS045**  
**2pc Air Conditioning & Fuel Disconnection Tool Set**

Die-cast tools suitable for press-type quick disconnection joints found on Chrysler, Ford and Vauxhall/Opel vehicles. Swivel action allows quick selection of correct sized tool.

**Contents:** Fuel Line Tool; 5/16", 3/8", Air Conditioning Tool; 3/8", 1/2", 5/8", 3/4"



**A VS4022**  
**Vacuum Tester & Brake Bleeding Kit**

A multifunction vacuum diagnostic tool with robust compact design. Used for diagnosing faults commonly found on vehicle systems including fuel, ignition, transmission and emissions. Kit includes reservoir, hoses and adaptors for bleeding brake and clutch systems on cars, commercials and motorcycles. Supplied in storage case.

**Contents:** Vacuum Pump, Fluid Container, Transfer Cap, Vacuum Hoses, Assorted Vacuum Hose Fittings (x8)



**B VS403**  
**Vacuum & Pressure Test/Bleeding Kit**

Professional vacuum/pressure diagnostic tool helps identify a variety of faults on vehicle systems including fuel, ignition, transmission, emission and air conditioning/heating. Kit also includes reservoirs, hoses and adaptors for bleeding brake and clutch systems. Features simple push/pull function for choice of pressure or vacuum testing. Large rubber easy-to-read gauge. Supplied in storage case.

**Contents:** Vacuum Pump, Fluid Container (x2), Transfer Cap, Vacuum Hoses; 65mm (x1), 80mm (x2), 600mm (x2), Assorted Connectors & Blanking Caps (x19)



**C VS209**  
**Carburettor Synchronizer**

One of the most comprehensive balancer sets available on the market. Features a bank of four mini-gauges with lockable valves enabling user to hold vacuum values in use. Supplied with set of long and short carburettor adaptors for easy access amongst the tubes and wires around the carburettor. Includes four 1500mm delivery tubes and hanging loop for the gauge bank. Supplied in storage case.

<b>Maximum Vacuum:</b>	76cmHg
<b>Adaptors:</b>	
<b>Long (170mm):</b>	M5
<b>Medium (100mm):</b>	M5
<b>Short (53, 60mm):</b>	M5, M6, Push-on Ø6mm



**D VS402**  
**Vacuum Tester & Brake Bleeding Kit**

Multifunction diagnostic tool used to test a variety of essential engine and associated functions including fuel, ignition, transmission and emissions. Kit also includes reservoir, hoses and adaptors for bleeding brake and clutch systems on cars, commercials and motorcycles. Brass-bodied vacuum pump features large, easy-to-read vacuum gauge calibrated in both inches and millimetres of mercury. Supplied in storage case.

**Contents:** Vacuum Pump, Fluid Container, Transfer Cap, Vacuum Hoses; 560mm (x2), 80mm (x4), Assorted Vacuum Hose Fittings (x5), Bleed Nipple Adaptors (x3)



**E VS4021**  
**Vacuum Tester & Brake Bleeding Kit**

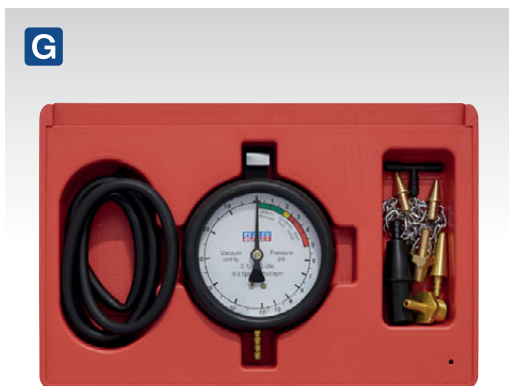
Multifunction diagnostic tool used to test a variety of essential engine and associated functions including fuel, ignition, transmission and emissions. Kit also includes reservoir, hoses and adaptors for bleeding brake and clutch systems on cars, commercials and motorcycles. Brass-bodied vacuum pump features large, easy-to-read vacuum gauge displayed in both inches and millimetres of mercury.

**Contents:** Vacuum Pump, Fluid Container, Transfer Cap, Vacuum Hoses; 560mm (x2), 80mm (x4), Assorted Vacuum Hose Fittings (x5), Bleed Nipple Adaptors (x3)



**F VSE952**  
**Vacuum & Fuel Pump Pressure Test Gauge Set**

Ø80mm Gauge with protective rubber bumper and hanging hook. Checks for leaks in fuel line, vacuum chokes and heating. Also suitable for diagnosing valve problems. Includes long flexible hose and adaptors. Supplied in storage case.



**G VSE953**  
**Catalytic Converter Back Pressure Test Kit**

Used to establish the working condition of the catalytic converter and silencer by measuring the relative back pressure of the system. For full details, see page 497.

**H CT952**  
**Vacuum & Fuel Pump Tester**

Fitted with Ø63mm gauge. Checks for leaks in fuel line, vacuum chokes and heating. Also suitable for diagnosing valve problems. Includes long flexible hose with universal cone adaptor.





**A**

8L

Antifreeze

Oil



**A TP204**

**8L Vacuum Fuel/Fluid Extractor**

8L Capacity device constructed from composite materials. Suitable for the extraction of all types of engine, transmission and lubricating oils from vehicles and machinery. Also suitable for the extraction of petrol/diesel and low viscosity fluids such as water. Supplied with 1.5m main hose, with interchangeable Ø6.7 x 700mm dipstick oil probe and Ø7 x 400mm universal fluid probe. Supplied with 240mm fuel system adaptor (FSA) for use in conjunction with fuel kit Model No's VS552 and VS555 (see page 433). Can also be used for draining fish tanks, basins and sinks.

Capacity:	8L
Extension Tube:	240mm Fuel System Adaptor
Suction Probes:	Ø6.7 x 700mm Dipstick, Ø7 x 400mm Universal



**F SAS10**

**80mm x 1.2m Spill Absorbent Sock Pack of 10**

For more information, see page 663.



**B**

40L

AIR Operated



STAINLESS STEEL

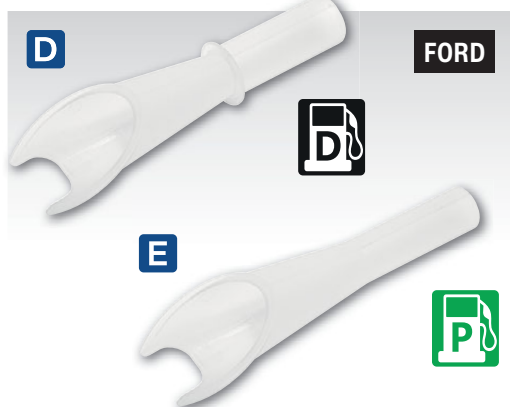


**B TP200S**

**40L Air Operated Fuel Drainer Stainless Steel**

Stainless steel fuel drainer with venturi type suction. 40L Capacity tank suitable for petrol or diesel. Supplied with suction tubes and adaptors for breaking into vehicle fuel system. CE Certified (ATEX 2014/34/EU).

Tank Capacity:	40L
Air Consumption:	6cfm
Recommended Air Pressure:	72-100psi



**D-E SEE BELOW**

**Ford Emergency Fuel Funnels**

Fuel funnels for capless filler systems found on Ford vehicles. Securely fits in filler neck, opening 2-valve security system.

	<b>D</b>	<b>E</b>
Model No:	VS71	VS72
Application:	Diesel	Petrol



**C**

90L

AIR Operated



STAINLESS STEEL

**C TP201**

**90L Stainless Steel Fuel Tank Drainer**

Stainless steel fuel drainer with venturi type suction. 90L Capacity tank suitable for petrol or diesel. Supplied with suction tubes and adaptors for breaking into vehicle fuel system. CE Certified (ATEX 2014/34/EU).

Tank Capacity:	90L
Air Consumption:	12cfm
Recommended Air Pressure:	70-100psi
Weight:	31.2kg

**Safe Handling of Fuel**

The Health & Safety Executive issue detailed guidelines and safety advice on the correct procedures for the handling and storage of petrol in the garage environment. We recommend you follow this guidance and in addition refer to the operating instructions issued with any Sealey product (primarily designed for use with petrol and fuel related applications). For a copy of the HSE leaflet, visit [www.hse.gov.uk](http://www.hse.gov.uk).



NEW 12V



**A-B SEE RIGHT**  
**Smoke Diagnostic Tools**

Allows the technician to pinpoint all manner of system leaks including the air intake, cooling, evaporation, fuel, exhaust and vacuum systems. Fast and simple-to-use, maximising earning potential. System is clean and quick to use and connects to a 12V vehicle battery. VS868 Features air and smoke mode with pressure gauge display. VS869 Features EVAP and smoke mode with flow control valve. EVAP function delivers low pressure and controlled smoke delivery, avoiding damage to sensitive EVAP components. Both supplied with cone adaptor, power cord clamp, valve core wrench, test oil refill bottle, smoke hose, EVAP connector, universal airbag adaptor, rubber blanking cones (x8). Mineral oil not included.

	<b>A</b>	<b>B</b>
<b>Model No:</b>	VS868	VS869
<b>Hose Length:</b>	1600mm	1600mm
<b>EVAP:</b>	✗	✓
<b>Maximum Input Pressure:</b>	15psi	15psi
<b>Weight:</b>	2.78kg	3.14kg
<b>Oil Reservoir Capacity:</b>	10ml	10ml
<b>Rubber Cone Sizes:</b>	Ø5-10, 9-15, 14-19, 18-26, 25-35, 32-45, 45-60, 60-75mm.	



**C VS870**  
**Smoke Diagnostic Tool - Leak Detector**

Allows the technician to pinpoint all manner of system leaks including the air intake, cooling, evaporation, fuel, exhaust and vacuum systems. Fast and simple-to-use, maximising earning potential. Features single button operation, flow control valve and auto-power-off. Uses mineral oil and workshop air to generate smoke at low pressure while connected to a vehicle. System is clean and quick to use and connects to a 12V vehicle battery. Supplied with four different sizes of blanking cones. Mineral oil not included.

<b>Rubber Cone Sizes:</b>	Ø10-45, 30-65, 50-85, 70-100mm
<b>Hose Length:</b>	2600mm
<b>Machine Weight:</b>	7.2kg
<b>Maximum Input Pressure:</b>	14psi(1bar)
<b>Oil Reservoir Capacity:</b>	75ml



**D VS2030**  
**Turbo System Leakage Tester**

Designed to charge the turbo system with a low pressure of regulated workshop air to show the presence of leaks within the system. Kit supplied with four pairs of stepped adaptors to fit most sizes of hose. Features a pressure gauge, shut-off valve and pressure release valve. Can also be used on cooling system hoses. Supplied in storage case.

<b>Adaptor Sizes:</b>	35-90mm (5mm increments)
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**E CV2030**  
**Turbo System Leakage Tester - Commercial**

Designed to charge the turbo/intercooler system with a low pressure of regulated workshop air to show the presence of leaks within the system. Kit supplied with three pairs of stepped adaptors to fit most sizes of hose found on heavy commercial vehicles. Features a pressure gauge, shut-off valve and pressure release valve. Supplied in storage case.

<b>Adaptor Sizes:</b>	105-130mm (5mm increments)
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**A VS8812**  
**EOBD Code Reader - Live Data**

Save time and money and take the guesswork out of your fault-finding and diagnosis. Allows interrogation of the vehicle's ECU to determine the performance of essential emission-based information, to read and clear Diagnostic Trouble Codes (DTCs) and to obtain vital performance data from the vehicle's engine and transmission (Petrol 2000 onwards and Diesel 2003 onwards).

**Features Include:**

- Works with all (Petrol 2000 onwards and Diesel 2003) OBDII / EOBD compliant vehicles
- Scans for Diagnostic Trouble Codes (DTC) - The cause of the 'Engine and Transmission' Malfunction Indicator Light' (MIL)
- Scans for pending DTCs
- Retrieves generic (P0, P2, P3, U10) and manufacturer specific (P1, P3, U1) DTCs
- Turns off MIL light, clears DTCs and resets monitors
- Displays DTC definitions on screen
- View freeze-frame data
- Displays monitor and I/M readiness status (emissions)
- Patented One-Click I/M readiness button (emissions)
- Retrieves vehicle information (VIN, CID, CVN)
- Supports CAN and other current EOBD Protocols
- Supports the new extended sensor list (SAE J1979-2007)
- Reads live ECU/PCM data stream
- Displays live O2 sensor data
- Performs 'modules present' test



**B VS211**  
**12V Fuel Injector Tester - Petrol**

Operates injectors individually to diagnose fuel delivery problems on petrol vehicles with electronic fuel injection. Works with engine off and pulse timer may be used with fuel pressure gauge. Powered by vehicle's 12V battery.

Can be used to locate fuel system faults such as:

- Clogged or leaking fuel injectors
- Sluggish or sticky fuel injectors
- Wiring harness faults
- Fuel injector driver signal faults



**D TA060**  
**Sound Level Meter**

High quality meter suitable for measurement of environmental and mechanical noise. Conforms to IEC61672-1 class 2 for sound meters. Features min./max. measurements, over and under range, A and C weighting, fast and slow response, data hold, record, digital read-out and bar graph with backlight. Supplied in storage case.

<b>Accuracy:</b>	±1.4dB
<b>Frequency:</b>	31.5Hz-8kHz
<b>Battery:</b>	9V (supplied)



**C TA070**  
**Anemometer**

Wind speed measuring device featuring live/maximum/average/wind chill and Beaufort scale. Ideal for checking workshop dust/fume extraction devices. Also reads temperature which can be measured in either °C or °F. Readings are displayed on a 24mm high back-lit LCD screen. Features a battery indicator and auto/manual power off.

<b>Wind Speed Measurement:</b>	m/s, km/h, ft/min, knots, mph
<b>Wind Speed Accuracy:</b>	±5%
<b>Temperature Range:</b>	-10 to +45°C/14 to 113°F
<b>Battery:</b>	CR2032 3V (supplied)



**E VS921**  
**IR & RF Key Fob Tester**

Detects and confirms radio frequency and/or infrared emission from key fobs and remote controls. Helps diagnose faults quickly and easily without the need to dismantle the fob, remote or vehicle. Magnetic backing sticks to the side of any ferrous surface for testing the range of the transmitter. Suitable for a wide variety of vehicle manufacturers.

<b>Detects:</b>	Infrared or Radio Frequency
<b>RF Ranges:</b>	418MHz, 433-434MHz, 868MHz
<b>Battery:</b>	9V (not included)

# A V-Scan

**1 YEAR**  
FREE UPDATES



Manage Live Diagnostics from your Android Phone or Tablet.

## A VSCAN V-Scan Multi-Manufacturer Diagnostic Tool - Android

The V-Scan multi-manufacturer diagnostic tool is a wireless Android based system, enabling near OE-level diagnostics. Extremely well priced mid-range tool, which allows you to use a mobile phone or tablet to diagnose cars, SUVs and vans. Connects to the vehicle using a standard 16-pin EOBD connector and includes extension cable for hard-to-access diagnostic sockets. Used in conjunction with a compatible Android device (2.3 and later). All software (supplied) is downloaded and stored on the mobile phone or tablet. Supplied with 1 year of updates and does not lockout when updates have expired.

- Software features:**
- Read/clear codes
  - Live data
  - Actuation tests
  - Special functions; Battery Configuration, DPF, Electronic Parking Brake, Injector Programming, Key Programming, Odometer Adjustment, Oil Service Reset, Steering Angle, Throttle Reset, TPMS

Wireless VCI:	✓
Subscription Based On-Line Updates:	✓
<b>Mobile Phone/Tablet Requirements:</b>	
Operating System:	Android 2.3 and Later
Wi-Fi:	✓
Bluetooth:	✓
Software Storage Space:	50MB
Updates (12 months):	VSCAN-U

# B V-Scan Pro

**2 YEARS**  
FREE UPDATES



## B VSCANP V-Scan Pro Multi-Manufacturer Diagnostic Tool

The V-Scan Pro diagnostic tool is a fast wireless multitasking operating system. Includes the most extensive coverage of OE-level diagnostics, allowing independent garages to provide a complete diagnostic service for cars, SUVs and vans.

- Software features:**
- Read/clear codes
  - Live data
  - Actuation tests
  - ECU and key coding (some vehicles)
  - Special functions; Battery Configuration, DPF, Electronic Parking Brake, Oil Service Reset, Throttle Reset, TPMS and more
  - Maintenance functions; Technical information and data management

**Optional 12 months of updates:**  
VSCANP-UPDATE

VSCANP TECHNICAL SPECIFICATION	
Central Processing Unit (CPU):	Intel Quad-Core Processor 1.86GHz
Operating System:	Android 4.4
Hard Drive:	32GB
Touch Screen Display:	8" - 1280 x 800
Wi-Fi:	✓
Wireless VCI:	✓
Internal Battery:	3.7V 8500mAH Li-Poly
Camera (Rear):	5.0 Megapixel
Camera (Front):	2.0 Megapixel
Boot-Up Time:	25 Seconds
Subscription Based Online Updates:	✓
Weight:	0.70kg

SPECIFICATION:	A V-Scan	B V-Scan Pro
OE-level Diagnostics	Near	Complete
Diagnostic Tablet	✗	✓
Free Updates	1 year	2 years
Continued Use After Updates Expired	✓	✓
Read/Clear Codes	✓	✓
Live Data	✓	✓
Actuation Tests	✓	✓
Battery Configuration	✓	✓
DPF	✓	✓
Electronic Parking Brake	✓	✓
Injector Programming	✓	✓
Key Programming	✓	✓
Odometer Adjustment	✓	✓
Oil Service Reset	✓	✓
Steering Angle	✓	✓
Throttle Reset	✓	✓
TPMS	✓	✓
STORAGE FACILITY		
Maintenance Functions	✗	✓
Technical Information	✗	✓
Data Management	✗	✓



**A-B SEE RIGHT**  
**EOBD Code Readers**

Save time and money and take the guess-work out of your fault-finding and diagnosis with these CAN enabled EOBD diagnostic tools. Every technician should have one! They allow the interrogation of the vehicle's ECU to determine the performance of essential emission-based information, to read and clear Diagnostic Trouble Codes (DTCs) and to obtain vital performance data from the vehicle's engine and transmission (Petrol 2001 onwards and Diesel 2004 onwards). The competitively priced AL301 EOBD tool works with OBDII / EOBD compliant vehicles and is supplied with a code reference manual with over 7,000 DTC definitions.

The sophisticated AL419 EOBD tool delivers in-depth data with added features not found on other tools at the same price. The unit is loaded with troubleshooter code tips and repair information to help the technician fault find and diagnose problems more quickly and effectively. There is also a built-in data library lookup. All can be updated via web-based downloads using the USB cable supplied.



**A AL301**  
**EOBD Code Reader**

SPECIFICATION:	<b>A</b> AL301	<b>B</b> AL419
Works with all (Petrol 2001 and Diesel 2004 onwards) OBDII / EOBD compliant vehicles	✓	✓
Scans for Diagnostic Trouble Codes (DTC) - The cause of the 'Engine and Transmission' Malfunction Indicator Light (MIL)	✓	✓
Scans for pending DTCs	✓	✓
Retrieves generic (P0, P2, P3 & U10) and manufacturer specific (P1, P3 & U1) DTCs	✓	✓
Turns off MIL light, clears DTCs and resets monitors	✓	✓
Displays DTC definitions on screen	✗	✓
View freeze-frame data	✗	✓
Displays monitor and I/M readiness status (emissions)	✓	✓
Patented One-Click I/M readiness button (emissions)	✗	✓
Retrieves vehicle information (VIN, CID & CVN)	✓	✓
Supports CAN and other current EOBD Protocols	✓	✓
Supports the new extended sensor list (SAE J1979 - 2007)	✗	✓
Reads live ECU/PCM data stream	✗	✓
Displays live O2 sensor data	✗	✓
Graphing function for live data	✗	✓
Read, store and playback live sensor data	✗	✗
Performs 'modules present' test	✗	✓
Print out data via PC - Compatibility: Win7, 8 & 10	✗	✓
Update software via the internet - Compatibility: Win7, 8 & 10	✗	✓
Built-in EOBD library lookup	✗	✓
Troubleshooter code tips and repair information guide	✗	✓
Multimeter (Voltage & Resistance)	✗	✗
Multimeter (Amps)	✗	✗
Scope with Max, Min, Frequency, Duty Cycle	✗	✗
12V Charging and battery starter test	✗	✗
Battery test ranges CCA: DIN, SAE, IEC, EN	✗	✗

**AUTEL** Official Suppliers of Autel in the UK



**B AL419**  
**EOBD Code Reader**  
**Live Data, Tech Tips**



Official Suppliers of Autel in the UK

**AUTEL**®



For concise model applications visit [www.sealey.co.uk](http://www.sealey.co.uk)



**A OLS301**  
**EOBD Code Reader Oil & Service Reset Tool**

Combines an EOBD code reader and oil service tool in one unit. Extensive vehicle coverage for resetting the oil service/inspection lights. Suitable for setting inspection 1 or 2 service intervals and inspection mileage. Also includes manual reset using clear step-by-step on-screen instructions. Suitable for any EOBD compliant vehicle and reads EOBD diagnostic codes (Engine/Transmission) and enables the cause of the illuminated engine check light (MIL) to be established. Includes all the usual features expected in a quality EOBD code reader. The tool is updateable via web-based downloads. Supplied with operating instructions, CD and USB cable in storage pouch. Visit [www.sealey.co.uk](http://www.sealey.co.uk) and download the instruction manual for concise model applications.

**B EU908PRO**  
**MOT Pro II® - Multi-Manufacturer Diagnostic Tool**

Highly functional, the MOT Pro II® provides 40+ manufacturer coverage offering diagnostics on the most common modules such as EOBD, Transmission, ABS, Airbag, Battery testing/coding, DPF service and regeneration, Electronic Parking Brake (EPB), Oil Service Reset, some TPMS, some steering control sensors, climate, audio and more. The tool can be updated via web-based downloads. Supplied with operating instructions and USB cable in storage case. Visit [www.sealey.co.uk](http://www.sealey.co.uk) and download the instruction manual for concise model applications.

SPECIFICATION	A OLS301	B EU908PRO
Works with all (Petrol 2001 and Diesel 2004 onwards) OBDII/EOBD compliant vehicles	✓	✓
Scans for Diagnostic Trouble Codes (DTC) - The cause of the 'Engine and Transmission' Malfunction Indicator Light (MIL)	✓	✓
Scans for pending DTCs	✓	✓
Retrieves generic (P0, P2, P3, U10) and manufacturer specific (P1, P3, U1) DTCs	✓	✓
Turns off MIL light, clears DTCs and resets monitors	✓	✓
Displays DTC definitions on screen	✓	✓
View freeze-frame data	✓	✓
Displays monitor and I/M readiness status (emissions)	✓	✓
Retrieves vehicle information (VIN, CID, CVN)	✓	✓
Supports CAN and other current EOBD Protocols	✓	✓
Supports the new extended sensor list (SAE J1979 - 2007)	✓	✓
Reads live ECU/PCM data stream	✓	✓
Displays live O2 sensor data	✓	✓
Graphing function for live data (OLS301 Dual Graphing function for live data)	✓	✓
Read, store and playback live sensor data	✓	✓
Performs 'modules present' test	✓	✓
Print out data via PC Compatibility - Win7, 8, 10	✓	✓
Update software via the internet Compatibility - Win7, 8, 10	✓	✓
Built-in EOBD library lookup	✓	✓
Free updates when available	✓	✓
Patented One-Click I/M readiness button (emissions)	✗	✓
Visit <a href="http://www.sealey.co.uk">www.sealey.co.uk</a> to see what vehicles are covered	✓	✓
Troubleshooter code tips and repair information guide	✗	✓
Cover 40+ vehicle manufacturers	✗	✓
Reset oil service/inspection light application	✓	✓

**AUTEL®** Official Suppliers of Autel in the UK

Contact your Sealey Dealer for more information or to arrange a demonstration on Model No. MS906.

**EOBD Code Reader**

This state-of-the-art tool is engineered and built by Autel® who are now recognized by the automotive after market industry as one of the fastest growing scan tool companies, providing the most extensive and best price to performance ratio of high-level diagnostic products and first-class customer support.



**A MS906**  
**Autel MaxiSys® - Multi-Manufacturer Diagnostic Tool**

The MaxiSys® MS906 is designed for ultra mobility but with price in mind. This design features a high resolution 8.0 Megapixel camera and Micro USB.

SPECIFICATION	
Central Processing Unit (CPU)	Samsung Exynos Quad-Core Processor 1.3GHz
Operating System	Android 4.4 Kitkat
SSD Hard Drive	32GB
Touchscreen Display	8.0" 1024 x 768 LED Capacitive Touchscreen
Connectivity	Micro USB Wi-Fi
Dual Band 802.11n Wi-Fi	2.4GHz, 5GHz
Internal Battery	3.7V 5000mAh Lithium Polymer
Weight	0.96kg
Camera (rear)	8.0 Megapixel, AF with Flashlight
Wireless VCI	✗
Boot-Up Time	20 Seconds
Complete OEM-Specific Coverage	✓
Auto VIN Technology	✓
MaxiFix Cloud-Based Information System	✓
Workshop Manager Software	✓
ECU Coding	Advanced
Subscription Based Online Updates	✓



**A-C SEE BELOW**  
Video Borescopes

A range of three high performance pistol grip borescopes with 85mm colour TFT screen, waterproof probe pod with IP67 rating. Each having the same main unit, but with a choice of camera probe diameters (Ø3.9mm, 5.5mm or 9mm).

- Ø3.9mm Camera is small enough to fit into a diesel combustion chamber through the glow plug hole.
- Ø5.5mm Camera gives extremely crisp image quality.
- Ø9mm Camera is ideal if restricted access is not an issue, is competitively priced, with crisp image quality.

All units feature video record/playback, still images and stream live video via the AV out connection. Videos and images are stored on a 4GB micro SD card (supplied) allowing up to 4.5hrs of video and 10,000 images, which can be transferred to a PC via the USB connection. Also features digital zoom control and rotate/flip control of image. Powered by lithium-ion battery pack giving up to 4hrs continuous use. AV and USB cables supplied.

Model No.	A VS8230	B VS8231	C VS8232
Camera Diameter:	Ø9mm	Ø5.5mm	Ø3.9mm
Optional Probes:	✓	✓	✓
Viewing Angle:	53°	60°	80°
Pod Length:	50mm	30mm	20mm
Camera Probe Length:	1m	1m	1m
Adjustable Light Control:	✓	✓	✓
Screen Size:	85mm	85mm	85mm
Screen Resolution:	320 x 240 pixels	320 x 240 pixels	320 x 240 pixels
Mirror Flip/Rotate Function:	✓	✓	✓
Record Function (Video & Still):	✓	✓	✓
AV Out:	✓	✓	✓
USB Connection:	✓	✓	✓
SD Memory Slot:	✓	✓	✓
Accessories:	45° Mirror, Magnetic Pick-Up, Hook, AV & USB Cables	45° Mirror, Magnetic Pick-Up, AV & USB Cables	AV & USB Cables
Power Source:	3.7V Li-ion Rechargeable	3.7V Li-ion Rechargeable	3.7V Li-ion Rechargeable

**E-F SEE BELOW**

Camera Probes for VS8230, VS8231 & VS8232

Borescope probes, waterproof probe pods with IP67 rating. Features lighting LEDs for a clear image in dark areas. Use with Model No's VS8230, VS8231 and VS8232.

Model No:	E VS8290	F VS8239
Probe Size:	Ø9mm x 1m	Ø3.9mm x 1m
Viewing Angle:	53°	80°
Pod Length:	50mm	20mm
Adjustable Light Control:	✓	✓
Resolution:	640 x 480 pixels	320 x 240 pixels



**D VS8233A**

Ø6mm Video Borescope - Articulated

Portable articulated borescope supplied with 70mm TFT colour display. Mini waterproof (IP67) camera with integral light (Ø6mm) mounted on 800mm flexible 2-way articulated probe. Using an attached dial, the camera head angle can be changed by up to 350° without having to remove camera from inspection area. Using 8GB micro SD card (supplied), up to 9hrs of video and 20,000 still images can be recorded. Videos and still images can be downloaded to a PC via USB data cable (supplied). CMOS camera with six LED probe light and a focus distance of 20-50mm for fine control of light output and clear pictures. Potential applications; automobile maintenance, engine inspection, pipe line exploration etc. Powered by 4 x AA batteries (not included).

Camera:	Ø6mm
Optional Probes:	✗
Viewing Angle:	60°
Pod Length:	20mm
Camera Probe Length:	800mm
Screen Size:	70mm
Screen Resolution:	640 x 480 pixels (Colour)
Mirror Flip/Rotate Function:	✓
AV Out:	✗
USB Connection:	✓
SD Memory Slot:	✓
Power Source:	4 x AA Batteries (not included)
Record Function (Video & Still):	✓



**A-C NEW**



**A-C SEE BELOW**

**Camera Tablet Video Borescopes**

Large 110mm LCD screens with a resolution up to 1080p full HD for video recording, playback and still images. Tablet design makes the image incredibly clear but also very portable. Features controls for light intensity, digital zoom and image rotation. Waterproof probe pod with IP67 rating. Powered by rechargeable 2600mAh Lithium-ion battery with 5 hour working time (USB Charging cable supplied). SD card can be installed to achieve file storage (not supplied). Kit includes 45° mirror, hook and magnetic pick-up.

	<b>A</b>	<b>B</b>	<b>C</b>
<b>Model No:</b>	<b>VS8114</b>	<b>VS8115</b>	<b>VS8116</b>
<b>Camera:</b>	Ø3.9mm	Ø5.5mm	Ø8mm
<b>Viewing Angle:</b>	70°	70°	70°
<b>Pod Length:</b>	45mm	45mm	45mm
<b>Camera Probe Length:</b>	2m	2m	2m
<b>Adjustable Light Control:</b>	✓	✓	✓
<b>Screen Size:</b>	110mm	110mm	110mm
<b>Screen Resolution:</b>	1920 x 1080 pixels	1920 x 1080 pixels	1920 x 1080 pixels
<b>Mirror Flip/Rotate Function:</b>	✓	✓	✓
<b>Record Function (Video &amp; Still):</b>	✓	✓	✓
<b>AV Out:</b>	✗	✗	✗
<b>Power Source:</b>	5V - 2600mAh Li-ion battery	5V - 2600mAh Li-ion battery	5V - 2600mAh Li-ion battery
<b>SD Memory Slot:</b>	✓	✓	✓

**D-E NEW**

**Camera Ø8mm**



**D-E SEE BELOW**

**Ø8mm Camera Video Borescopes**

High performance handheld borescopes with 60mm colour LCD screen and waterproof probe pod with IP67 rating. Features video record/playback and still images. Videos and images are stored on a micro SD card (not supplied). 2.5Ah Lithium-ion battery capacity allowing up to 10hrs working time. Kit includes 45° mirror, hook and magnetic pick-up. USB Charging cable supplied.

	<b>D</b>	<b>E</b>
<b>Model No:</b>	<b>VS8111</b>	<b>VS8112</b>
<b>Camera:</b>	Ø8mm	Ø8mm
<b>Viewing Angle:</b>	178°	178°
<b>Pod Length:</b>	50mm	50mm
<b>Camera Probe Length:</b>	2m	10m
<b>Adjustable Light Control:</b>	✓	✓
<b>Screen Size:</b>	60mm	60mm
<b>Screen Resolution:</b>	1920 x 1080 pixels	1920 x 1080 pixels
<b>Mirror Flip/Rotate Function:</b>	✓	✓
<b>Record Function (Video &amp; Still)</b>	✓	✓
<b>Power Source:</b>	3.7V 2.5Ah Li-ion battery	3.7V 2.5Ah Li-ion battery
<b>SD Memory Slot:</b>	✓	✓
<b>Accessories:</b>	45° Mirror, Magnetic Pick-Up & Hook	45° Mirror, Magnetic Pick-Up & Hook



**F VS8113**

**Ø8mm Wi-Fi Borescope**

Ø8mm Wi-Fi Borescope, compatible with iOS, Android and Windows operating system. IP67 Rated camera and cable up to LED light control switch. Up to 720HD resolution. 2m Pixel camera with 6 LEDs and a 3.7V 800mAh battery. The kit includes charging cable, hook, magnet and side mirror. Probe length of 5m. Transmission distance within 5-30m.

<b>Camera:</b>	Ø8mm
<b>Viewing Angle:</b>	70°
<b>Pod Length:</b>	45mm
<b>Camera Probe Length:</b>	5m
<b>Adjustable Light Control:</b>	✓
<b>Screen Resolution:</b>	640 x 480, 1280 x 720 pixels
<b>Mirror Flip/Rotate Function:</b>	✓
<b>Record Function (Video &amp; Still):</b>	✓
<b>Power Source:</b>	3.7V 800mAh Battery
<b>Accessories:</b>	45° Mirror, Magnetic Pick-Up & Hook
<b>Weight:</b>	0.18kg

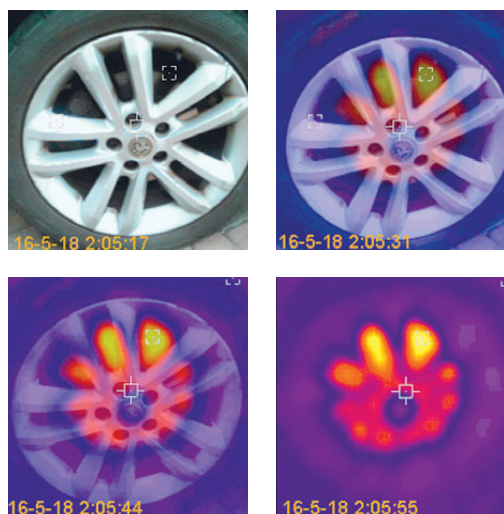


**A VS913**  
**Thermal Imaging Camera**  
 Thermal imaging camera for the detection of high and low temperature. Heat-mapped colour palettes and temperature reading. Includes on-screen cursor to accurately locate minimum/maximum temperature variation. Suitable for many industries including automotive, building and electrical.

Colour Palette:	3
Emissivity:	On-Screen
Field of Vision:	33° x 33°
Image Mix (Camera to Thermal):	Thermal
Memory Capacity:	4MB SD Memory Card
Power Source:	4 x AAA (not included)
Resolution:	32 x 32 pixels
Screen Size:	1.8" 128 x 160mm TFT
Temperature Range:	-20°C - +650°C



Manual adjustment of colour scale.



**B VS912**  
**Thermal Imaging Camera**  
 Combines the function of surface temperature measurement and real-time thermal imaging. Features a traditional image camera to pinpoint test area with the ability to mix the thermal image over the top at varying intensities. Includes on-screen cursor to accurately locate temperature hotspots. Suitable for many industries including automotive, construction and electrical.

**Automotive**

- Heated seats and windows
- High resistance in high current wiring
- Overheating wiring or components
- Heat distribution and hotspots
- Identification of hot/cold pipework

**Construction/Electrical/Plumbing**

- Energy loss from seals, frames or windows
- Detection of damp/moisture
- Electrical faults including overheating wires or fixings
- Radiators and under floor heating
- Identification of hot/cold pipework

Focal Distance:	50cm (Min. 20cm, Max. 1m)
Temperature Range:	-20°C to +300°C (±2°C)
Field of Vision:	65°
Screen Size:	52mm
Resolution of Infrared Image:	60 x 60 (3600 Pixels) - Camera Image 0.3 Mega Pixels
Resolution of Camera Image:	0.3 Mega Pixels
Colour Palette:	Iron Red, Rainbow, Rainbow High Contrast, Greyscale (White Glow), Greyscale (Black Glow)
Emissivity:	0.1 to 1 Adjustable
Image Mix (Camera to Thermal):	0%, 30%, 60%, 80%, 100%
Power Source:	4 x AA (supplied)
Battery Life:	6hr
Memory:	Micro 4GB SD Card (Max. 25,000 Images)
Weight:	0.320kg



**C VS260**  
**1750W Induction Heater**

Mobile induction heater for fast heat delivery. Install appropriate coil and place over or around ferrous metal. Ideal for loosening stubborn and seized fixings. Supplied with two attachable front coils, flexible coil for a customized fit, also a flat coil for heating flat metal and straightening small dents in car bodies and plastic trim/sticker removal. Induction element delivers high heat fast and effectively. Supplied in carry-case.

Power:	1750W
Frequency:	50/60Hz
Contents:	Direct Coil; Ø20, Ø30mm, Pad Coil; Ø65mm, Flex Coil; 785mm





**A VS900**  
**Infrared Laser Digital Thermometer 12:1**

Detects energy emission in the infrared spectrum and converts reading into a display of temperature. Features laser pointer, data-hold and auto-power-off. Temperature is displayed on a large 23mm LCD HD colour screen with back-lit display for use in low light areas. Temperature can be shown in either °C or °F. Powered by 2 x AAA batteries (not included).

<b>Accuracy:</b>	±1.5%
<b>Focal Ratio:</b>	12:1
<b>Temperature Range:</b>	-50°C to +400°C (-58°F to +752°F)



**B VS904**  
**Infrared Laser Digital Thermometer 12:1**

Detects energy emission in the infrared spectrum and converts reading into a display of temperature. Features laser pointer, data-hold and auto-power-off. Temperature is displayed on a large 23mm LCD HD colour screen with back-lit display for use in low light areas. Temperature can be shown in either °C or °F. Powered by 2 x AAA batteries (not included).

<b>Accuracy:</b>	-50°C to 0°C; ±3°C, 0°C to +530°C; ±1.5°C or ±1.5% whichever is greater
<b>Focal Ratio:</b>	12:1
<b>Temperature Range:</b>	-50°C to +530°C (-58°F to +986°F)



**C VS907**  
**Infrared Laser Digital Thermometer 12:1**

High resolution laser thermometer that detects energy emission in the infrared spectrum and converts reading into a display of temperature. Features laser pointer, Maximum/Minimum/Average/Difference readings, data storage and data-hold function, high/low alarm setup, auto-power-off. Temperature is displayed on a large 29mm LCD panel with back-lit display for use in low light areas. Temperature can be shown in either °C or °F. Powered by 9V battery (supplied). Storage case included.

<b>Accuracy:</b>	-50°C to -0°C; ±3°C, 0°C to +700°C; ±1.5°C or ±1.5% whichever is greater
<b>Focal Ratio:</b>	12:1
<b>Temperature Range:</b>	-50°C to +700°C (-58°F to +1292°F)



**D VS940**  
**Infrared Twin-Spot Laser Digital Thermometer 12:1**

Detects energy emissions in the infrared spectrum and displays the temperature on an 18mm LCD back-lit display. Twin-spot laser guides user to the unit's optimum targeting distance - when the two laser dots merge into one, unit is reading a 13mm disc of temperature. Features data-hold and auto-power-off. Temperature can be shown in either °C or °F. Powered by 9V battery (supplied).

<b>Accuracy:</b>	±2°C or ±2% whichever is greater
<b>Focal Ratio:</b>	12:1
<b>Temperature Range:</b>	-50°C to +650°C (-58°F to +1202°F)



**E VS941**  
**Infrared Twin-Spot Laser Digital Thermometer 12:1 High Temperature**

Detects energy emissions in the infrared spectrum and displays the temperature on an 18mm LCD back-lit display. Twin-spot laser guides user to the unit's optimum targeting distance - when the two laser dots merge into one, unit is reading a 13mm disc of temperature. Features data-hold and auto-power-off. Temperature can be shown in either °C or °F. Powered by 9V battery (supplied).

<b>Accuracy:</b>	±2°C or ±2% whichever is greater
<b>Focal Ratio:</b>	12:1
<b>Temperature Range:</b>	-50°C to +1050°C (-58°F to +1922°F)



**F VS906**  
**Mini Digital Thermometer**

High precision digital thermometer with the sensor located in the tip of the stainless steel probe. Compact and lightweight, measuring both °C and °F with hold function. Ideal for testing automotive air conditioning output. Powered by 1.5V battery (supplied).

<b>Accuracy:</b>	±3%
<b>Temperature Range:</b>	-40°C to +250°C (-40°F to +482°F)



## Entry Level Range



Feature packed units with clear LCD display. Suitable for a wide variety of simple electrical testing such as voltage presence, resistance and continuity. TM103 can also check capacitance and temperature.

## Technician's Range



Suitable for the professional vehicle technician. Large easy-to-read displays and fast processing speeds for accurate readings. Ideal for a wide range of uses including component testing. Supplied with a cable for connecting to a PC for recording meter readings.

## Advanced Range



High performance automotive multimeters with large backlit displays. Suitable for a wide range of uses including advanced automotive testing. The graph displays make these units ideal for checking and testing items such as oxygen sensors. Durable double-moulded soft cases with soft touch. TA304 features an infrared thermocouple for accurate non-contact temperature measurement.

## Hybrid Range



For testing systems on high voltage vehicles, where CAT III equipment is required. This range is compliant with EN 61010 to meet this requirement. A wide variety of in-depth checks and testing can be quickly and safely carried out. TA320 Can perform insulation tests on high voltage cables and high voltage load testing on components such as hybrid motor generator units.

A



### A TA101 12-Function Digital Automotive Analyser

Durable case and integral stand suitable for the toughest workshop conditions. Large, high-contrast LCD display with 18mm high digital read-out and analogue bar graph. Includes auto-ranging, data-hold, auto-polarity, auto-power-off and low battery display functions. Bar graph simplifies lambda sensor testing. Supplied with capped test probes and K-type thermocouple.

B



### B TA102 11-Function Digital Automotive Analyser

Durable case and integral stand suitable for the toughest workshop conditions. Large, high-contrast LCD display with 34mm high digital read-out. Includes over-range indication, auto-zeroing, data-hold, auto-polarity, auto-power-off and low battery display functions. Supplied with capped test probes and K-type thermocouple.

C



### C TA201 13-Function Digital Automotive Analyser with Inductive Coupler

Compact size meter with 4-digit 22mm, high-contrast LCD display and back light. Features auto-ranging, data-hold and auto-power-off functions. Includes inductive coupler (IC) for fast reading of engine rpm. Supplied with probe, crocodile clip and thermocouple leads for easy hook-up.

D



### D TA202 14-Function Digital Automotive Analyser with Inductive Coupler

Extra-large, high-contrast LCD display with 36mm high digital read-out and back light. Durable case and integral stand suitable for the toughest workshop conditions. Features millisecond pulse-width function for accurate measurement of fuel injection systems. Includes auto-ranging, data-hold and auto-power-off. Supplied with inductive coupler (IC), test probes, thermocouple and storage case.

E



### E TA203 15-Function Digital Automotive Multimeter with Bar Graph/PC Link

Extra-large, high-contrast LCD display with 36mm high digital read-out, bar graph and back light. Durable case with probe storage and integral stand, suitable for the toughest workshop conditions. Features millisecond pulse-width function for accurate measurement of fuel injection systems. Includes auto-ranging, data-hold and auto-power-off. Bar-graph is essential for the correct testing of lambda sensors. Supplied with inductive coupler (IC) with adjustable sensitivity, for fast reading of engine rpm, test leads (probe and clip) and thermocouple plus USB interface cable and Windows ME/XP/Vista software for downloading data to PC.







**A TA302**  
**12-Function Digital Automotive Analyser with Inductive Coupler**

12-Function, auto-ranging automotive diagnostic multimeter. Combination digital/bar graph display gives accurate indication of component outputs. Large, easy-to-read high contrast display with bright, white back light. Workshop-tough, durable case with integral stand. Reads standard automotive parameters including duty cycle. Features auto-ranging and data-hold functions with overload protection on all ranges. Supplied with inductive coupler, test probes and thermocouple.



**B TA304**  
**15-Function Digital Automotive Analyser with Inductive Coupler/Infrared Temperature Probe**

15-Function, auto-ranging automotive diagnostic multimeter with IR thermometer attachment. Combination digital/bar graph display gives accurate indication of component outputs. Large, easy-to-read high contrast display with bright, white back light. Workshop-tough, durable case with integral stand and auto-power shut-off. High-speed processing circuitry reads standard automotive parameters including duty cycle and pulse width making this tool ideal for testing fuel injection systems. Features auto-ranging and data-hold functions with overload protection on all ranges. Includes relative functions including min./max. and peak hold. Supplied with inductive coupler, infrared temperature probe, test probes and thermocouple in storage case.



**C TA320**  
**Digital Automotive Analyser/Insulation Tester - Hybrid/Electric Vehicles**

Specially designed for hybrid vehicles and conforms to EN61010 CAT III (1000V) and CAT IV (600V). Unlike other multimeters this unit has an insulation test function that allows testing of the insulation of the high voltage cables and motor generator units found on hybrid vehicles. Can be used as a stand-alone device or linked wirelessly with a USB interface to a PC or laptop enabling results to be graphed, saved or printed. Supplied with high voltage probes, thermocouple soft storage bag and wireless USB cable. The unit also has the usual functions expected on a high quality multimeter including true RMS (Root-Mean-Square) and IP67 waterproof rating.



**D TA305**  
**AC/DC Clamp Meter & Multimeter**

Designed for the automotive electrician and conforms to EN61010 CAT III 600V. Ideal for measuring current draw from vehicle components in situ. Features 10mm clamp. Supplied in pouch.

**Measures:**

- ✓ AC/DC Voltage
- ✓ AC/DC Current
- ✓ Resistance
- ✓ Audible Continuity
- ✓ Diode Test



**E VS913**  
**Thermal Imaging Camera**

Thermal imaging camera for the detection of high and low temperature. Heat-mapped colour palettes and temperature reading. Includes on-screen cursor to accurately locate minimum/maximum temperature variation. Suitable for many industries including automotive, building and electrical. For full specification, see page 446.



TA320 accessories include USB cable which converts to wireless operation.

Accessory Kits



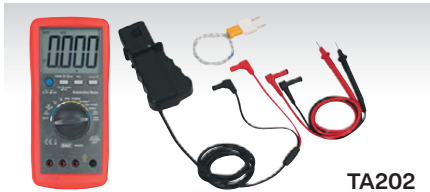
TA101



TA102



TA201



TA202



TA203



TA302



TA304



TA320



TA305

Automotive  
Analyser/Multimeter  
Specifications



TA101



TA102



TA201

Tach (rpm)	0-3260 (x1)rpm, 0-3260 (x10)rpm	3/4/5/6/8Cyl 180-10000 (x10)rpm	4-Stroke; 600-4000 (x1)rpm, 600-12000 (x10)rpm 2-Stroke; 300-4000 (x1)rpm, 300-6000 (x10)rpm
Dwell	2Cyl 0-180°, 3Cyl 0-120°, 4Cyl 0-90°, 5Cyl 0-72°, 6Cyl 0-60°, 8Cyl 0-45°	3Cyl 0-120°, 4Cyl 0-90°, 5Cyl 0-72°, 6Cyl 0-60°, 8Cyl 0-45°	2Cyl 0-180°, 3Cyl 0-120°, 4Cyl 0-90°, 5Cyl 0-72°, 6Cyl 0-60°, 8Cyl 0-45°, 10Cyl 0-36°
AC Voltage	326mV, 3.26V, 32.6V, 326V, 600V (Auto-Ranging)	200-750V	400mV, 4V, 40V, 400V, 600V (Auto-Ranging, except 400mV)
DC Voltage	326mV, 3.26V, 32.6V, 326V, 600V (Auto-Ranging)	200mV, 2V, 20V, 200V, 1000V	400mV, 4V, 40V, 400V, 600V (Auto-Ranging)
AC Current	326µA, 3260µA, 32.6mA, 326mA, 10A (Auto-Ranging for µA & mA)	×	400µA, 4000µA, 40mA, 400mA, 4A, 10A (Auto-Ranging for µA & mA)
DC Current	326µA, 3260µA, 32.6mA, 326mA, 10A (Auto-Ranging for µA & mA)	20mA, 200mA, 10A	400µA, 4000µA, 40mA, 400mA, 4A, 10A (Auto-Ranging for µA & mA)
Capacitance	×	×	40nF, 400nF, 4µF, 40µF, 100µF (Auto-Ranging)
Frequency	320Hz, 3200Hz, 32kHz (Manual Range)	20kHz	4V Range; 5Hz-10kHz, 40 & 400V Ranges; 5Hz-200kHz, 600V Range; 50Hz-1kHz, 400mA Range; 5Hz-5kHz, 10A Range; 5Hz-1kHz
Duty Cycle	0.1-99.9%	×	0.1-99.9%
Pulse Width	×	×	×
Resistance	326Ω, 3.26kΩ, 32.6kΩ, 326kΩ, 3.26MΩ, 32.6MΩ (Auto-Ranging)	200Ω, 2kΩ, 20kΩ, 200kΩ, 2MΩ, 20MΩ	400Ω, 4kΩ, 40kΩ, 400kΩ, 4MΩ, 40MΩ (Auto-Ranging)
Continuity	<50Ω	<30Ω	<150Ω
Temperature	-20 to +750°C -4 to +1400°F	-20 to +750°C -4 to +1382°F	-20 to +760°C -4 to +1400°F
IR Temperature	×	×	×
Insulation Test	×	×	×
Diode Check	✓	✓	✓
Transistor Test	×	Vce=3V, Ib=10µA	×
Back Light	×	×	✓
Bar Graph Display	✓	×	×
Display Hold	✓	✓	✓
Auto-Ranging	✓	×	✓
Inductive Coupler	×	×	✓
PC Interface	×	×	×
Digits Height	18mm	34mm	22mm
Auto-Power-Off	✓	✓	✓
Low Battery Indicator	✓	✓	✓
Battery (supplied)	9V (PP3)	9V (PP3)	9V (PP3)
High-Impact Case	✓	✓	✓
Size (L x W x D)	200 x 93 x 50mm	200 x 97 x 48mm	146 x 66.2 x 41.5mm
Weight	0.400kg	0.495kg	0.330kg

					
TA202	TA203	TA302	TA304	TA320	TA305
4-Stroke; 600-4000 (x1) rpm, 600-12000 (x10) rpm 2-Stroke; 300-4000 (x1) rpm, 300-6000 (x10) rpm	4-Stroke; 600-4000 (x1) rpm, 600-12000 (x10) rpm 2-Stroke & DIS; 300-4000 (x1) rpm, 300-6000 (x10) rpm	4-8Cyl, 2 & 4-Stroke 600-4000 (x1) rpm, 600-12000 (x10) rpm	2-10Cyl, 4-Stroke 600-4000 (x1) rpm, 600-12000 (x10) rpm	×	×
4Cyl 0-90°, 5Cyl 0-72°, 6Cyl 0-60°, 8Cyl 0-45°	1Cyl 0-360°, 2Cyl 0-180°, 3Cyl 0-120°, 4Cyl 0-90°, 5Cyl 0-72°, 6Cyl 0-60°, 8Cyl 0-45°, 10Cyl 0-36°, 12Cyl 0-30°	4Cyl 0-90°, 5Cyl 0-72°, 6Cyl 0-60°, 8Cyl 0-45°	4Cyl 0-90°, 5Cyl 0-72°, 6Cyl 0-60°, 8Cyl 0-45°	×	×
400mV, 4V, 40V, 400V, 700V (Auto-Ranging, except 400mV)	400mV, 4V, 40V, 400V, 750V (Auto-Ranging, except 400mV)	3.2V, 32V, 320V, 600V (Auto-Ranging)	400mV, 4V, 40V, 400V, 700V (Auto-Ranging)	400mV, 4V, 40V, 400V, 1000V	400mV, 4V (±1.2%), 40V, 400V, 600V (±1.5%)
400mV, 4V, 40V, 400V, 1000V (Auto-Ranging)	400mV, 4V, 40V, 400V, 1000V (Auto-Ranging)	320mV, 3.2V, 32V, 320V, 600V (Auto-Ranging)	400mV, 4V, 40V, 400V, 1000V (Auto-Ranging)	400mV, 4V, 40V, 400V, 1000V	400mV (±0.8%), 4V, 40V, 400V, 600V (±1.0%)
400µA, 4000µA, 40mA, 400mA, 4A, 20A (Auto-Ranging for µA & mA)	400µA, 4000µA, 40mA, 400mA, 4A, 20A (Auto-Ranging for µA & mA)	320µA, 3200µA, 32mA, 320mA, 10A (Auto-Ranging)	400µA, 4000µA, 40mA, 400mA, 4A, 20A (Auto-Ranging)	400µA, 4000µA, 40mA, 400mA, 10A	40A, 100A (±2.5%)
400µA, 4000µA, 40mA, 400mA, 4A, 20A (Auto-Ranging for µA & mA)	400µA, 4000µA, 40mA, 400mA, 4A, 20A (Auto-Ranging for µA & mA)	320µA, 3200µA, 32mA, 320mA, 10A (Auto-Ranging)	400µA, 4000µA, 40mA, 400mA, 4A, 20A (Auto-Ranging)	400µA, 4000µA, 40mA, 400mA, 10A	40A, 100A (±2.5%)
40nF, 400nF, 4µF, 40µF, 100µF (Auto-Ranging)	40nF, 400nF, 4µF, 40µF, 100µF (Auto-Ranging)	×	40nF, 400nF, 4µF, 40µF, 400µF, 4mF, 40mF (Auto-Ranging)	40nF, 400nF, 4µF, 40µF, 400µF, 4000µF, 40mF	×
5Hz, 50Hz, 500Hz, 5kHz, 50kHz, 500kHz, 10MHz (Auto-Ranging)	5Hz, 50Hz, 500Hz, 5kHz, 30kHz (Auto-Ranging)	320Hz, 3200Hz, 32kHz (Auto-Ranging)	0.001Hz - 9.99MHz (Auto-Ranging)	40Hz - 10KHz	40Hz-400Hz
0.1-99.9%	0.1-99.9%	0.1-99.9%	0.1-99.9%	0.1-99.9%	×
1-10ms	2-20ms	×	0.1-10ms	100µs-100ms	×
400Ω, 4kΩ, 40kΩ, 400kΩ, 4MΩ, 40MΩ (Auto-Ranging)	400Ω, 4kΩ, 40kΩ, 400kΩ, 4MΩ, 40MΩ (Auto-Ranging)	320Ω, 3.2kΩ, 32kΩ, 320kΩ, 3.2MΩ, 32MΩ (Auto-Ranging)	400Ω, 4kΩ, 40kΩ, 400kΩ, 4MΩ, 40MΩ (Auto-Ranging)	400Ω, 4kΩ, 40kΩ, 400kΩ, 4MΩ, 40MΩ	400Ω (±1.2%), 4kΩ, 40kΩ, 400kΩ (±1.0%), 4MΩ (±1.2%), 40MΩ (±1.5%)
<150Ω	<150Ω	<35Ω	<30Ω	<35Ω	<50Ω
-20 to +760°C -4 to +1400°F	-20 to +760°C -4 to +1400°F	-20 to +760°C -4 to +1400°F	-20 to +760°C -4 to +1400°F	-50 to +1000°C -58 to +1832°F	×
×	×	×	-20 to +280°C, -4 to +536°F	×	×
×	×	×	×	125V, 250V, 500V, 1000V	×
✓	✓	✓	✓	✓	✓
×	×	×	×	×	×
✓	✓	✓	✓	✓	×
✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	×	×
×	✓	×	×	✓	×
36mm	36mm	18mm	20mm	20mm	11mm
✓	✓	×	✓	✓	✓
✓	✓	✓	✓	✓	✓
9V (PP3)	9V (PP3)	9V (PP3)	9V (PP3)	6 x 1.5V AA	2 x 1.5V
✓	✓	✓	✓	✓	×
195 x 92 x 36mm 0.394kg	215 x 100 x 60mm 0.605kg	167 x 79 x 50mm 0.366kg	182 x 82 x 55mm 0.360kg	220 x 95 x 56mm 0.700kg	226 x 71 x 38mm 0.185kg



**A MM18**  
**Pocket Multimeter**

Handy compact unit, small enough to fit in your pocket, making it ideal for basic circuit testing whilst on the move. Features flip lid for added screen protection and storage of leads. Conforms to EN 61010-1 CAT II safety requirements. Supplied with test leads.

**Measures:**

- ✓ AC and DC Voltage
- ✓ Resistance
- ✓ DC Current
- ✓ Audible Continuity



**B MM19**  
**7-Function Multimeter**

High quality general-purpose multimeter with a large, LCD display. Supplied with test leads.

**Measures:**

- ✓ AC and DC Voltage
- ✓ Resistance
- ✓ Diode/Transistor Verification Mode
- ✓ DC Current
- ✓ Audible Continuity



**C MM102**  
**Professional Auto-Ranging Digital Multimeter**

Lightweight, auto-ranging digital multimeter with double moulded plastic housing and a 2000 counts LCD display. Features forward facing worklight, data-hold and non-contact voltage detection. Conforms to EN 61010-1 CAT IV 600V safety standard.

**Measures/Function:**

- ✓ AC and DC Voltage
- ✓ Resistance
- ✓ Continuity Test
- ✓ Non-Contact Voltage Detection (NCVD)
- ✓ AC and DC Current
- ✓ Diode Test
- ✓ Forward Facing Worklight

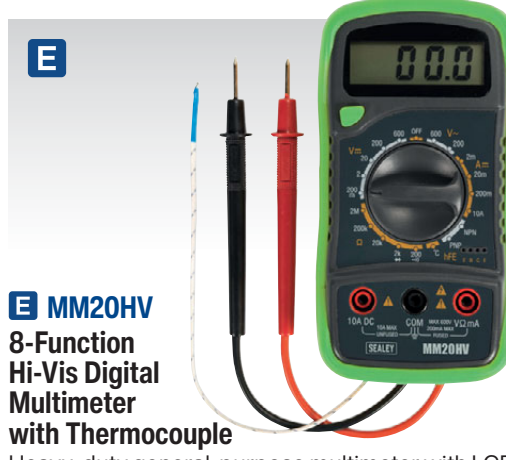


**D MM20**  
**8-Function Digital Multimeter with Thermocouple**

Heavy-duty general-purpose multimeter with clear and easy-to-read LCD display. Features data-hold function, temperature probe and diode test facility. Supplied with full set of leads and probes.

**Measures:**

- ✓ AC and DC Voltage
- ✓ Resistance
- ✓ Audible Continuity
- ✓ Diode/Transistor Verification Mode
- ✓ DC Current
- ✓ Temperature



**E MM20HV**  
**8-Function Hi-Vis Digital Multimeter with Thermocouple**

Heavy-duty general-purpose multimeter with LCD display. Features data-hold function, temperature probe and diode test facility. Supplied with leads and probes.

**Measures:**

- ✓ AC and DC Voltage
- ✓ Resistance
- ✓ Audible Continuity
- ✓ Diode/Transistor Verification Mode
- ✓ DC Current
- ✓ Temperature



**F MM104**  
**Professional Auto-Ranging Digital Multimeter**

Lightweight, compact digital multimeter with double moulded plastic housing and a 4000 counts LCD display. Drop-proof up to 2m. IP65 rated as "dust tight" and protected against low pressure water jets (all directions). Features display back light and forward facing worklight. Conforms to EN 61010-1 and EN 61010-2-033 CATIII 600V safety requirements.

**Measures/Function:**

- ✓ AC and DC Voltage
- ✓ Resistance
- ✓ Continuity Test
- ✓ Forward Facing Worklight
- ✓ AC and DC Current
- ✓ Frequency
- ✓ Diode Test
- ✓ Capacitance



**G TA319**  
**Digital Insulation Tester**

Specially designed for testing insulation on high voltage cables. Suitable for hybrid and electric vehicles. Supplied with test leads, batteries and storage case. Conforms to EN61010 CAT III (1000V).

- Voltage AC:** Range; 750V, Max Resolution; 1V, Accuracy; ( $\pm 1.2\% \pm 10$ -digits)
- Voltage DC:** Range; 1000V, Max Resolution; 1V, Accuracy; ( $\pm 0.8\% \pm 3$ -digits)
- Resistance:** Range; 200 $\Omega$ , 2000 $\Omega$ , Max Resolution; 0.1 $\Omega$ , 1 $\Omega$ , Accuracy; ( $\pm 1\% \pm 2$ -digits)
- Insulation Resistance:** Range; 200M $\Omega$ , 2000M $\Omega$ , Max Resolution; 100k $\Omega$ -1M $\Omega$ , Accuracy; ( $\pm 3.5\% \pm 5$ -digits)
- Test Voltage:** 250V/200M $\Omega$ , 500V/200M $\Omega$ , 1000V/2000M $\Omega$
- Continuity Test:** Active Sound Level;  $\leq 40\Omega$ , Test Current;  $\leq 200\text{mA}$
- Operating Temperature:** 0 $^{\circ}\text{C}$  to +40 $^{\circ}\text{C}$ , (<80%R.H)
- Storage Temperature:** -10 $^{\circ}\text{C}$  to +60 $^{\circ}\text{C}$ , (<70%R.H)
- Batteries:** 6 x 1.5V (supplied)



MM102 & MM104 feature forward facing worklight.



**A TM100**  
**6-Function Professional Digital Multimeter**  
 High precision multimeter. Conforms to EN 61010-1 CATIII 600V. Double moulded housing with soft grip case and large display for ease of use. Probe and lead storage. Integral upright stand for use on the workbench.

- Measures:**
- ✓ AC and DC Voltage
  - ✓ Resistance
  - ✓ Audible Continuity
  - ✓ DC Current
  - ✓ Diode Test



**D MM405**  
**Mini AC/DC Clamp Meter**  
 Durable composite housing with rubber grip around handle for comfort and control. Designed to verify the presence of AC and DC current and with non-contact voltage detection with flashlight and non-contact frequency measurement. Perfect for the automotive electrician. Features 18mm clamp, a backlit LCD display and an LED light at the front of the unit for use when working in dark areas. Supplied with storage case.

- Measures:**
- ✓ AC and DC Current
  - ✓ Non-Contact Voltage Detection (NCVD)
  - ✓ Frequency



**B TM102**  
**8-Function Professional Auto-Ranging Digital Multimeter**  
 High precision auto-ranging multimeter. Conforms to EN 61010-1 CATIII 600V safety requirements. Features temperature measurement capability, max./data-hold and auto-power-off function. Soft grip case and large display for ease of use. Practical probe and lead storage and integral upright stand for use on the workbench.

- Measures:**
- ✓ AC and DC Voltage
  - ✓ Resistance
  - ✓ Audible Continuity
  - ✓ AC and DC Current
  - ✓ Diode Test
  - ✓ Temperature



**E TM105**  
**6-Function Professional Auto-Ranging Digital Clamp Meter NCVD**  
 High precision clamp meter. Conforms to EN 61010-1 CATIII 600V safety requirements for electrical equipment for measurement, control and laboratory use. Features non-contact AC voltage detection function while controls are laid out to enable use with one-hand. Includes data and maximum hold functions. Double moulded housing with soft grip case, large display for ease of use and 30mm clamp. Supplied in zipped pouch with carry strap.

- Measures:**
- ✓ AC and DC Voltage
  - ✓ Resistance
  - ✓ Continuity Audible
  - ✓ Non-Contact Voltage Detection (NCVD)
  - ✓ AC Current
  - ✓ Diode Test



**C TM103**  
**11-Function Professional Auto-Ranging Digital Multimeter**  
 High precision auto-ranging multimeter. Conforms to EN 61010-1 CATIII 600V safety requirements. Features temperature measurement capability, max./data-hold and auto-power-off function. Soft grip case and large display for ease of use. Practical probe and lead storage and integral upright stand for use on the workbench.

- Measures:**
- ✓ AC and DC Voltage
  - ✓ Frequency
  - ✓ Resistance
  - ✓ Audible Continuity
  - ✓ Capacitance
  - ✓ AC and DC Current
  - ✓ Duty Cycle
  - ✓ Diode Test
  - ✓ Temperature

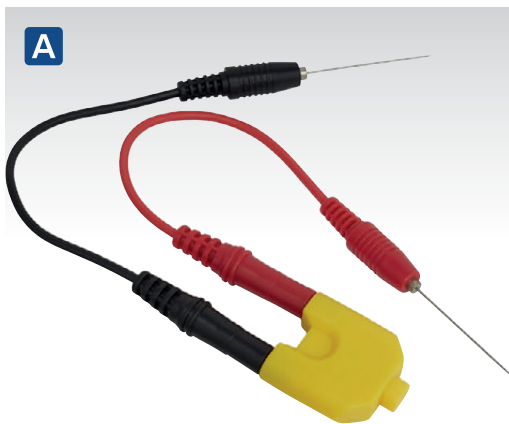


**F TA050**  
**Digital Tachometer - Contact/Non-Contact**  
 Professional quality laser instrument for fast and accurate measurement of rotational speed with or without contact. Will also measure total revolutions, frequency, surface speed and distance. 10 Selectable data set memories each with maximum, minimum and average or single value reading, as appropriate. Supplied with reflective tape, for non-contact measurement, and three heads for contact measurement. Powered by 9V battery (supplied) and has jack socket for 6V DC supply.

Measures:	Range/Units:
<b>Rotation Speed - Contact:</b>	2-20,000rpm
<b>Rotation Speed - Non-Contact:</b>	2-99,999rpm
<b>Total Revolutions:</b>	1-99,999
<b>Sampling Time:</b>	0.5s @ >120rpm
<b>Accuracy:</b>	± (0.05% + 1 digit)
<b>Surface Speed:</b>	m/min, in/min, ft/min, yd/min
<b>Distance:</b>	m, in, ft, yd
<b>Frequency:</b>	Hz
<b>Battery:</b>	PP3
<b>External Power:</b>	6V DC

MULTIMETER SPECIFICATION					
	MM18	MM19	MM102	MM104	MM20
AC Voltage (Accuracy)	250V (±1.2%)	200V, 750V (±2%)	2V, 20V (±1%), 200V, 600V (±2.3%)	4V, 40V, 400V, 600V (±1.2%)	200V, 600V (±2%)
DC Voltage (Accuracy)	2V, 250V (±1%)	200mV, 2000mV, 20V, 200V (±1.5%), 1000V (±1.8%)	200mV (±0.5%), 2V, 20V, 200V, 600V (±1.2%)	0-400mV (±1.0%), 4V, 40V, 400V, 600V (±1%)	200mV (±0.5%), 2V, 20V, 200V, 600V (±0.8%)
AC Current (Accuracy)	×	×	200µA, 2000µA, 20mA, 200mA (±2.5%)	400µA, 4000µA, 40mA, 400mA (±1.2%), 4A, 10A (±1.8%)	×
DC Current (Accuracy)	200mA (±1.2%)	200µA, 2000µA, 20mA (±2%), 200mA (±2.2%), 10A (±2%)	200µA, 2000µA, 20mA, 200mA (±2%)	400µA, 4000µA, 40mA, 400mA (±1%), 4A, 10A (±1.2%)	2mA, 20mA (±1%), 200mA (±1.2%), 10A (±2%)
Resistance (Accuracy)	2kΩ, 20kΩ, 200kΩ, 2000kΩ (±1.2%)	200Ω, 2000Ω, 20kΩ, 200kΩ (±1.8%), 2000kΩ (±2%)	200Ω (±0.8%), 2KΩ, 20KΩ, 200KΩ (±1.2%), 2MΩ (±5%), 20MΩ (±10%)	0-400Ω, 4kΩ, 40kΩ, 400kΩ, 4MΩ (±1.5%), 40MΩ (±2.5%)	200Ω, 2kΩ, 20kΩ, 200kΩ (±0.8%), 2MΩ (±1.2%)
Capacitance (Accuracy)	×	×	×	40nF, 400nF (±4.5%), 4µF, 40µF, 400µF (±3.0%), 4000µF (±5.0%)	×
Temperature (Accuracy)	×	×	×	×	-40°C to 1000°C, (±1% up to 400°C), (±2% over 400°C)
Frequency (Accuracy)	×	×	×	10kHz (±1.5%)	×
Duty Cycle	×	×	×	99.9% (±1.2%)	×
Continuity Audible	✓	✓	✓	✓	✓
Diode Test	×	✓	✓	✓	✓
Transistor Test	×	✓	×	×	✓
High-Impact Rubber Case	×	✓	×	✓	✓
Digits x Height	5 x 11mm	3.5 x 22mm	4 x 14mm	4 x 14mm	6 x 12mm
Low Battery Indicator	×	×	✓	✓	✓
Battery (Supplied)	2 x 1.5V	1 x 9V	2 x 1.5V	2 x 1.5V	1 x 9V
Information	-	-	Non-Contact Voltage Detection (NCVD), Forward Facing Worklight	Forward Facing Worklight	Integral Stand
Size (L x W x D)	114 x 56 x 23mm	130 x 70 x 14mm	105 x 57 x 34mm	117 x 62 x 45mm	140 x 70 x 35mm
Weight	0.101kg	0.240kg	0.160kg	0.260kg	0.260kg
Conformity	EN 61010-1	IEC 1010	EN61010-1	EN 61010-1, EN 61010-2-033	IEC 1010

					
MM20HV	TM100	TM102	TM103	TM105	MM405
200V, 600V (±2%)	200V, 600V (±1.2%)	200mV (±1.5%), 2V (±1.2%), 20V, 200V (±1.5%), 600V, 1000V (±2%)	400mV (±1.5%), 4V (±1.2%), 40V, 400V (±1.5%), 600V (±2%)	200mV (±1.5%), 2V, 20V, 200V (±1.8%), 600V (±2.5%)	×
200mV (±0.5%), 2V, 20V, 200V, 600V (±0.8%)	0-200mV, 2000mV, 20V (±0.5%), 200V, 600V (±0.8%)	0-200mV (±0.5%), 2V, 20V, 200V (±1.2%), 600V, 1000V (±1.5%)	0-400mV (±0.5%), 4V, 40V, 400V (±1.2%), 600V (±1.5%)	0-200mV (±0.8%), 2V, 20V, 200V (±1.5%), 600V (±2%)	×
×	×	200µA (±1.5%), 2000µA, 20mA, 200mA (±1.8%), 10A (±3%)	400µA (±1.5%), 4000µA, 40mA, 400mA (±1.8%), 10A (±3%)	2A, 20A, 200A (±2.5%), 400A (±3%)	0-200A (±2.8%)
2mA, 20mA (±1%), 200mA (±1.2%), 10A (±2%)	0-2000µA, 20mA (±1%), 200mA (±1.2%), 10A (±2%)	200µA (±1%), 2000µA, 20mA, 200mA (±1.5%), 10A (±2.5%)	400µA (±1%), 4000µA, 40mA, 400mA (±1.5), 10A (±2.5%)	×	0-200A (±2.8%)
200Ω, 2kΩ, 20kΩ, 200kΩ (±0.8%), 2MΩ (±1.2%)	0-200Ω, 2000Ω, 20kΩ, 200kΩ (±0.8%), 2000kΩ (±1%)	0-200Ω (±1.2%), 2kΩ (±1%), 20kΩ, 200kΩ, 2MΩ (±1.2%), 20MΩ (±2%)	0-400Ω (±1.2%), 4kΩ (±1%), 40kΩ, 400kΩ, 4MΩ (±1.2%), 40MΩ (±2%)	0-200Ω (±1%), 2kΩ, 20kΩ, 200kΩ (±1.5%), 2MΩ (±2.5%), 20MΩ (±3.5%)	×
×	×	×	4nF, 40nF (±5%), 400nF, 4µF, 40µF (±3%), 200µF (±5%)	×	×
-40°C to 1000°C, (±1% up to 400°C), (±2% over 400°C)	×	-50°C to 1000°C (±3%), -58°F to 1832°F (±3%)	-20°C to 760°C (±3%), -4°F to 1400°F (±5%)	×	×
×	×	×	9.999Hz to 9.999MHz	×	40-51, 51-510Hz, 0.51-1kHz (all ±1.2%)
×	×	×	0.1% to 99.9% (±1.2%)	×	×
✓	✓	✓	✓	✓	×
✓	✓	✓	✓	✓	×
✓	×	×	×	×	×
✓	✓	✓	✓	×	×
6 x 12mm	3.5 x 27mm	3.5 x 14mm	4 x 14mm	3.5 x 14mm	4 x 11mm
✓	✓	✓	✓	✓	✓
1x 9V	1x 9V	1x 9V	1x 9V	1x 9V	2 x 1.5V
Integral Stand	Battery Test 1.5V, 9V (±1%)	Data-Hold Auto-Power-Off, Non-Contact Voltage Detection (NCVD)	Data-Hold, Auto-Power-Off	Data-Hold, Auto-Power-Off, Non-Contact Voltage Detection (NCVD)	Voltage Detection: 100 to 600VAC, Soft Padded Storage Case
140 x 70 x 35mm	145 x 68 x 35mm	150 x 70 x 48mm	150 x 70 x 48mm	197 x 70 x 40mm	155 x 66 x 31mm
0.260kg	0.260kg	0.255kg	0.255kg	0.345kg	0.160kg
IEC 1010	EN 61010-1	EN 61010-1	EN 61010-1	EN 61010-1	IEC 1010



**A ABTR01**  
**Airbag Test Resistor Set**

Assists in the diagnosis of airbag units and seat belt pretensioners. Connect in place of an airbag or seat belt pretensioner unit to test for component failure. Contains a two ohm resistor and two probe leads. Always follow manufacturer's instructions when testing SRS systems and components.



**B TA114**  
**0-50V Automotive Wire Piercing Test Lead Probes**

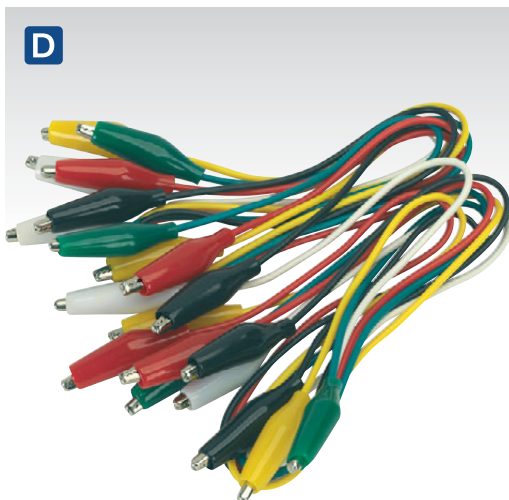
Fully insulated probes have a spring loaded clamp with stainless steel pin that self centres and punctures the insulation. Fitted with Ø4mm banana style connectors and suitable for use with most multimeters and analysers. Suitable for automotive use only, with a maximum input of 50V DC.

**Maximum Wire Size:** Ø3.5mm



**C TATL**  
**6pc Automotive Test Lead & Crocodile Clip Set**

Set of 1.35m automotive test leads with Ø4mm banana style connectors. Used for testing and diagnosing faults in electronic circuits. Suitable for use with most multimeters and analysers.



**D VS222**  
**Jumper Test Lead Set - 5 Pairs x 450mm**

Five pairs of coloured cables. Each cable has shrouded crocodile clips at each end. Use as extensions to multimeter leads, to bridge suspected open-circuit cables and as temporary wiring.

**Colours:** Red, Black, Green, White, Yellow



**E TA112**  
**15pc Test Lead Set**

Professional set of test leads and components suitable for testing and evaluating automotive electronic circuits on modern vehicles. Features 0.7mm back probes ideal for testing vehicle sensors and dual colour LEDs for directional polarity testing. Set includes standard Ø4mm banana style plugs and sockets suitable for use with most diagnostic multimeters and test equipment.

**Contents:** LED Leads (x2), Back Probes (x4), Alligator Clips (x2), Standard Probes (x2), Connector/Cables (Piggy-Back) (x4), Spring Loaded Piercing Clip



**F TA111**  
**92pc Test Lead Set**

Comprehensive set of test leads and components suitable for testing, isolating and evaluating automotive electronic circuits. Includes standard Ø4mm banana style plugs and sockets suitable for use with most diagnostic multimeters and test equipment. Supplied in sectioned storage case for quick location of components.

**Contents:** Potentiometer; 5kΩ (x2), Alligator Clip (x2), Back Probe (x4), LED 2 Colour Strobes (x2), SRS Connector (x2), 1:2 Connector (x2), 1:1 Connector/Cables (Piggy-Back) (x4), Probe (x2), Round Terminals with Banana Socket; Male (x3)/Female (x3) - 1.5, 2, 3.5, 4mm, Flat Terminals with Banana Socket; Male (x3)/Female (x3) - 0.7, 0.8, 1.2, 2, 2.5, 3, 5, 6mm



**G TLCS01**  
**16pc Test Lead Connector Set**

Connector set containing seven common sizes of male and female connectors and two earth lead connectors. Provides a time-saving solution and accurate connections for testing a wide variety of electrical components and connectors. Designed for use with a multimeter with banana type connectors. For automotive use, not suitable for use on high voltages.

**H**

**H SCS021S**  
**500ml Electrical Contact Cleaner**

For more information, see page 1118.



**A**



**30A**  
Clips  
Mini  
Standard

**A TA126**  
**30A Automotive Current Tester**

Fast, accurate and safe current measurement at the fuse box or battery. Ideal for fault-finding on car and commercial vehicle electrical circuits. Features large LCD display with numeric and bar-type functions. Plugs directly into the vehicle's fuse board. Supplied with mini, standard adaptors and fused crocodile clips. Compatible with alternative probes using the standard Ø4mm banana adaptors.

Range:	0-30A - 0-48V
Accuracy:	± 2%
Fuse Type:	Mini, Standard

**B**



**20A**

Standard

**C**



**20A**

Mini

**B-C SEE BELOW**  
**20A Automotive Current Testers**  
Standard/Mini Blade Fuse

Fast, accurate and safe current measurement at the fuse box. Ideal for fault-finding on car and commercial vehicle electrical circuits. Features large LCD display. Plugs straight into the vehicle's fuse board.

	<b>B</b>	<b>C</b>
Model No:	TA120	TA121
Range:	0-20A - 0-48V	0-20A - 0-48V
Accuracy:	± 2%	± 2%
Fuse Type:	Standard	Mini

**D**



**80A**

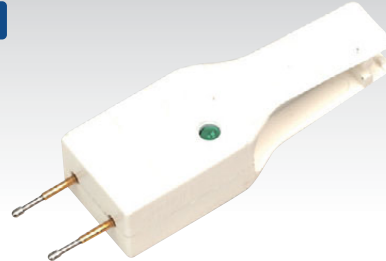
Mini  
Standard  
Maxi

**D TA125**  
**80A Automotive Current Tester**  
Mini, Standard & Maxi Blade Fuses

Fast, accurate and safe current measurement at the fuse box. Ideal for fault-finding on car and commercial vehicle electrical circuits. Includes hold and peak functions for detecting current surges. Features large LCD display with digital and graphical current read-out. Plugs straight into the vehicle's fuse board and supplied with Mini, Standard and Maxi style blade adaptors.

Range:	0-80A - 0-48V
Accuracy:	± 2%
Fuse Type:	Mini, Standard, Maxi

**E**



**E CFT1**  
**Automotive Fuse Checker & Puller**

Checks continuity of blade-type automotive fuses, in or out of fuse holder. Green LED indicates fuse is OK. Also simplifies the removal of faulty fuses.

**E**



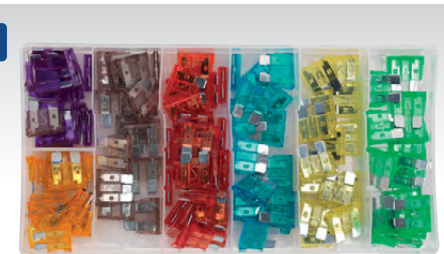
**G**



**G TA131**  
**Relay Tester**

Health test for 4 and 5-pin electro-mechanical relays commonly found on modern vehicles. Test feature will cycle the relay 10 times, testing the resistance, contacts and consistency within each cycle. If a cycle fails on the test then this will be indicated by a red LED and alternatively a green LED if relay works.

**F**



**F BCF120**  
**120pc Automotive Standard Blade Fuse Assortment**

Contents: (Approximate Quantity) 3A, 5A, 7.5A, 15A, 20A, 30A (15 of each), 10A (x30)

**D**





**A AK415**  
**3-28V Cordless Circuit Tester Buzzer/LED**  
 Suitable for testing DC circuits with voltages between 3 and 28V. No earth clips to get tangled - simply contact the wire to be tested and touch your finger on bare metal ground to get a reading. Tester illuminates LED, buzzes and vibrates on contacting live wire. Computer-safe for use around delicate engine management systems. Supplied fitted with two long-life N-sized batteries.



**B AK4008**  
**6-24V Circuit Tester**  
 Suitable for 6-24V DC circuits. Knurled brass body with test light. Probe tip is covered with protective brass screw cap. Tester illuminates when voltage is present. Supplied with cable and alligator earth clip.



**C AK407**  
**6/12/24/48V LED Circuit Tester**  
 Suitable for 6, 12, 24 and 48V DC circuits. LED array indicates polarity and voltage range. Supplied with 850mm cable and crocodile earth clamp.



**D AK402**  
**6/12/24V Circuit Tester with Test Light**  
 Suitable for testing 6, 12 and 24V DC circuits. Insulated, pointed probe tests through wire insulation. Supplied with 1.5m cable and crocodile earth clamp.



**E AK4030**  
**6/12/24V Circuit Tester with Polarity Test**  
 Probe tool allows continuity and polarity tests to be carried out quickly and efficiently on 6, 12 and 24V systems. Polarity indicated by red/green LEDs respectively. Supplied with 1.5m cable and shrouded earth clip.



**F AK4051**  
**3-48V Circuit Tester**  
 Suitable for testing electrical circuits from 3 to 48V DC. Integral, spring loaded, pointed probe for testing through insulation. Twin LEDs indicate live circuit and polarity. Supplied with 0.9m cable and insulated crocodile earth clamp.



**G AK4012**  
**3-48V Integrated Test Light/Voltmeter**  
 Identifies polarity of circuit being tested on LCD display, red for positive and green for negative. LCD meter draws minute currents making this tool safe to use around delicate electronic components. With a range of 3-48V DC, this tool is suitable for motorcycle, car, hybrid and commercial vehicles. Supplied with 3m coiled cable and insulated crocodile earth clamp. Do not use on air bags.



**H PP5**  
**3-48V Integrated Test Light/Voltmeter**  
 LCD meter draws minute currents making this tool safe to use around delicate electronic components. With a range of 3-48V DC, this tool is suitable for motorcycle, car and commercial applications. Includes interchangeable 65 and 175mm probes, leads and clips with Ø4mm banana coupling.



**I AK5000**  
**6-24V Circuit Tester**  
 Suitable for 6-24V DC circuits. Insulated body with test light. Probe tip is covered with protective plastic cap. Tester illuminates when voltage is present. Supplied with cable and alligator earth clip.



**A** 0V to 30V



**A PP100**

**0-30V Power Scope Automotive Probe**

One of the most advanced automotive probes on the market, with a huge range of functions for effective automotive diagnostics, making short circuits and bad earths easy to find. Features a scope function to visually test component signals, with the added benefit of maximum/minimum volts, frequency and duty cycle displayed. Allows components to be activated in situ or prior to installation. The fly lead allows continuity and polarity testing with a high-contrast colour LCD display giving a 7mm high read-out. Features audible and positive/negative voltage indicator and two integral work lights. 6m Lead connects to the battery supply and reaches to all areas of the vehicle. Includes a vehicle accessory socket adaptor and 6m extension cable. Supplied in storage case.

DC Voltage:	0-30V
Frequency:	0-10kHz
Duty Cycle:	1-99%
Resistance:	50Ω-199KΩ
Continuity Audible:	<50Ω
Scope Function:	✓
Back Light:	✓
Circuit Breaker Reset:	✓

**B**

3V to 42V



**B PP7**

**3-42V DC Auto Probe**

A range of functions allow automotive electricians and mechanics the ability to effectively diagnose short circuits and bad earths. The 4.6m lead connects to a 12V battery supply and reaches to all areas of the vehicle. Fly lead allows continuity and polarity testing with a high-contrast LCD display with 9mm high (3V to 42V) read-out. Activate components in situ or prior to installation. Features audible and positive/negative voltage indicator plus two integral worklights. Kit includes three probe extension leads, two wire piercing probes, two lead adaptors and a crocodile clip. Supplied in a storage case.

**C**

6V to 24V



**C PP1**

**6-24V Auto Probe with 4.8m Cable**

A brilliant tool for the auto electrician and mechanic. Fitted with 4.8m cable allowing access to the rear of the vehicle and supplied with instructions. Carry out the following tests on systems from 6V up to 24V quickly and efficiently.

**Polarity test**

**Power up components prior to fitting including:**

- Cooling fan motors
- Fuel pumps
- Window/Sunroof motors
- Relays and Lamps
- Wiper motors

**Tests continuity in:**

- Switches
- Diodes and Fuses
- Relays
- Wiring harnesses

Detect short circuits. Locate bad earths quickly

**D**

6V to 24V



**D PPLK**

**6-24V DC Auto Probe Excel Kit**

Comprehensive 6-24V DC test kit. Find bad earths, breaks in continuity and short circuits quickly and easily. Can even power up components on and off the vehicle. Kit includes flexible extension cable, crocodile clip, wire probe and back-probe.

**E**

6V to 24V



**E PPX**

**6-24V Auto Probe Plus**



6-24V Auto Probe with an integral worklight to aid use in dark engine bays plus an audible circuit tester for when the LED on the probe cannot be seen.

**F**



2V to 24V



**F PPVT**

**2-24V Automotive Test Probe**

Time-saving tool ideal for the automotive electrician and mechanic. Connects to the vehicle's own battery and reaches all corners of the vehicle with 5m cable. Checks for short circuits and bad earths quickly and easily. Tests continuity and polarity using flying lead and also indicates voltage (2V to 24V) of system on test using an LED array. Power-up components prior to installation and check in situ function of components and accessories allowing fast problem diagnosis. Features integral worklight with touch sensitive control.

**E**





**A-B SEE BELOW**  
**AC/DC Current Clamps**

Designed for use with a standard multimeter and measures current draw from vehicle components in situ. Suitable for measuring both AC and DC current, without breaking into the circuit. Fitted with 4mm banana connectors and supplied in storage pouch. Powered by 9V battery (supplied). Can also be used with an oscilloscope using a suitable BNC conversion adaptor.

	<b>A</b>	<b>B</b>
<b>Model No:</b>	TA310	TA311
<b>Clamp Size:</b>	Ø12mm	Ø28mm
<b>Current:</b>	20A(AC), 80A(DC)	40A(AC), 400A(DC)



**C VS270**  
**Multi Voltage Glow Plug Tester**

Designed to test low voltage glow plug operation on modern diesel engines. Prevents glow plug damage caused by testing with the vehicle battery. Glow plugs can be tested whilst in situ. Supplied in storage case with instructions. Requires 9V battery (not included).



**D VS5261**  
**4pc HT Tester Set**

Set allows single or multiple testing. Simply fit tester between spark plug and HT lead and then run engine. Regular flashing of the testers indicates a good HT supply. Not suitable for engines with deeply recessed plugs.



**E VS526**  
**In-Line Ignition/HT Spark Tester**

Tests HT supply to spark plug. Suitable for spark ignition engines. Quick and simple fault diagnosis.

<b>Probe Length:</b>	55mm
<b>Lead Length:</b>	100mm



**F PPHY**  
**CAT IV 1000V High Voltage Tester Hybrid/Electric Vehicles**

For full specification, see page 473.



**G VS925**  
**Lambda Sensor Tester/Simulator**

Tests Zirconia and Titania lambda sensors and ECU. Suitable for 1, 2, 3 and 4 wire sensors, heated and unheated. LED display shows crossover signal from sensor. Simulates rich or lean mixture signals to check ECU response. Insulation-piercing clip for quick and easy connection plus display to confirm wire identity. Features a low battery indicator and powered by 9V battery (supplied).



**H VS212**  
**Glow Plug Analyser**

Enables fast diagnosis of glow plug failure or degradation without the need to disassemble the plug from the engine. Suitable for use on any 12V DC glow plugs and connects directly to the vehicle's battery. Features six LED read-out which indicates glow plug status and also whether battery contains enough charge to power the plugs.



**I VS211**  
**12V Fuel Injector Tester - Petrol**

Operates injectors individually to diagnose fuel delivery problems on petrol vehicles with electronic fuel injection. Works with engine off and pulse timer may be used with fuel pressure gauge. Powered by vehicle's 12V battery.

**Can be used to locate fuel system faults such as:**

- Clogged or leaking fuel injectors
- Sluggish or sticky fuel injectors
- Wiring harness faults
- Fuel injector driver signal faults

**A**

6V to 42V



**A FF400**  
**6-42V Open & Short DC Circuit Detector**

Find short and open circuits fast and easily. Simply attach the sender unit to the circuit and follow the wires using the detector. Ideal for automotive repairs. Suitable for all DC circuits up to 42V. Supplied in storage case. Powered by two 9V batteries.



**B**

**B VS0071**  
**Electronic Stethoscope**

Accurately pinpoints automotive noises and vibrations, which are converted into an electrical signal and amplified. Long pick-up shaft allows use in hard-to-reach places. Features a volume control and supplied with headphones. Powered by 9V battery (supplied).



**C**

**C VS213**  
**6pc Noid Light Set**

Check fuel injector signal faults fast. Simply disconnect injector harness and plug in noid light. Turn the ignition on - if the light is steady or absent, then signal from ignition system is at fault. Easy-to-use and fits a wide variety of injector harnesses.

**Applications:** GM PFI, Ford TBI, GEO TBI, Bosch PFI, GM TBI, GM SCPI



**D**

**D AK871**  
**Technician's Stethoscope**

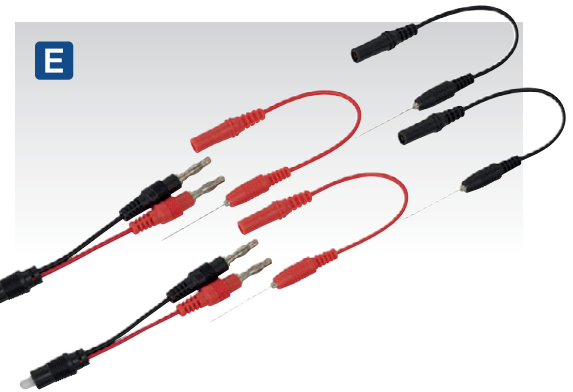
Quickly locate the source of engine noise such as piston slap, worn gears and bearings, damaged valves, water pump failure and blown gaskets. Also useful for tracking down dashboard rattles and squeaks. Plastic ear pieces and 300mm probe with sound amplifying chamber.



**E**

**E NLTS01**  
**6pc Noid Light Test lead Set**

Noid Test Light Kit is used to provide an easy-to-use, universal method for diagnostic testing on automotive 12V actuator low tension switching circuits. Bright clear LED lights give a clear indication of switching on low tension circuits and relays. The 4mm female sockets allow the probes to be used on any multimeter with 4mm male leads. Fine probe pins offer universal connectivity.



**C**



**F**

**F VS2131**  
**11pc Noid Light/IAC Test Set**

Locate and isolate ECU signal faults fast. Noid and idle air control valve indicator lights test for control signal from ECU. Simply disconnect harness and plug in appropriate light to see if the component is being fed a trigger signal. Set includes 1.3m fibre optic cable to allow light to be viewed from the driver's seat. Simple-to-use and has a wide vehicle application.

**Noid Light Applications:** GM TBI, GM SCPI, GM FPI, GM MULTEC 2, Bosch 2, Bosch PFI, Ford TBI, GEO TBI  
**IAC Light Applications:** GM 700 TBI/FPI with Flat or Square 4-pin Connectors



**G**

**G VS9203**  
**23pc Terminal Tool Kit**

For more information, see page 466.





**A TL85**  
Timing Light with Advance

Composite cased Xenon timing light with inductive impulse pick-up. 8000rpm Maximum. Measures timing advance range 0-60° BTDC. Supplied with 1.5m coiled 12V power lead, inductive coupler and operating instructions.



**B TL93**  
Digital Timing Light with Tach/Dwell/Advance/Volt

Composite cased Xenon timing light with inductive impulse pick-up and 4-digit LED read-out. Includes mode for 2-stroke and distributorless 'lost spark', 4-stroke engines. Supplied with 1.5m coiled 12V power lead, inductive coupler and operating instructions.

Measures:	Range:
Advance:	0-60° BTDC
Tach:	200-9990rpm
Dwell Accuracy:	99.9%
Voltage Range:	0-16V DC



LED Display on TL93 reads rpm, advance, dwell and voltage.



**C-D SEE BELOW**  
Replacement 1.5m Lead Sets with Inductive Pick-Up

	<b>C</b>	<b>D</b>
Model No:	TL80/L	TL93/08
Applications:	TL85	TL93
Length:	1.5m	1.5m



**G VS2057**  
Remote Starter Switch  
One-person operation, suitable for turning the engine over for various diagnostic tasks such as compression testing. Connects to the starter system with push-button activation. Features a connectivity LED and 1.5m cable.



**E VS316**  
Glow Plug Connector Pliers  
Pliers for removing sheathed glow plug connectors. Angled jaws. Soft grip handles.



**H VS205**  
Remote Starter Switch  
Makes one-person operation possible for a variety of under the bonnet tasks. Connects to starter system with leads provided and allows push-button turnover of engine. Supplied with 1.5m cable.



**F TL95**  
Timing Light Diesel Converter Box  
Used to detect the pulse from the fuel pipes of diesel fuel injectors. Works on most direct injection diesel engines fitted with 6mm(1/4") to 10mm(3/8") external fuel pipes. Suitable for use with most timing lights, engine analysers and multimeters that have an inductive pick-up.

Clamp Size:	6mm(1/4")-10mm(3/8")
Input Power:	6-30V DC
Trigger Point:	15% of the highest pressure in the injector pipe



**I VS5272**  
Automotive Induction Probe  
Quick and easy-to-use. Ideal for testing ignition coils, fuel injectors and relays. Powered by 2 x AA batteries (not included). Not suitable for piezo energised fuel injectors.



**A AK3850**

**Non-Ratcheting Crimping Tool**

3mm Steel construction with safety grips. Crimps non-insulated terminals 10-14, 16-18 and 20-22 AWG wire. Crimps open barrel connectors 14-18 and 20-22 AWG wire. Crimps computer pins and sockets D-Sub 26-28 AWG wire. Crimps butt-insulated connectors 22-26 AWG wire. Crimps telephone piercing spade lugs 22-26 AWG wire. Hardened cutting edge for soft wire and cables.

**Length:** 185mm



**D AK3863**

**Angled Head Ratchet Crimping Tool Insulated Terminals**

All steel construction with large comfort grip handles, angled head and hardened and tempered jaws. Ratchet action ensures consistent crimping.

**Terminal Suitability:** 0.5-1mm<sup>2</sup>, 1.5-2.5mm<sup>2</sup>, 4-6mm<sup>2</sup>

**Length:** 230mm



**F AK3852**

**Ratchet Crimping Tool Non-Insulated Terminals**

All steel construction with large vinyl grip handles and hardened and tempered jaws. Ratchet action ensures consistent crimp tension.

**Terminal Suitability:** 0.5-1mm<sup>2</sup>, 1.5-2.5mm<sup>2</sup>, 4-6mm<sup>2</sup>

**Length:** 220mm



**B S0604**

**Ratchet Crimping Tool - Insulated Terminals**

All steel construction with vinyl grip handles and hardened and tempered jaws. Ratchet action ensures consistent crimp tension.

**Terminal Suitability:** 0.5-1mm<sup>2</sup>, 1.5-2.5mm<sup>2</sup>, 4-6mm<sup>2</sup>

**Length:** 220mm



**E AK386**

**552pc Ratchet Crimping Tool Kit**

Ratchet crimping tool with laminated steel jaws and insulated grips. Suitable for 1.5, 2.5 and 6mm<sup>2</sup> insulated terminals. Approximately 500 assorted terminals supplied, with 50 cable ties and insulating tape, in storage case.

**Contents:** Crimping Tool, Assorted Insulated Terminals (x500), Cable Ties (x50), Insulating Tape



**C AK385**

**Ratchet Crimping Tool - Insulated Terminals**

All steel construction with large comfort grip handles and plate stamped jaws. Ratchet action ensures consistent crimping.

**Terminal Suitability:** 0.5-1mm<sup>2</sup>, 1.5-2.5mm<sup>2</sup>, 4-6mm<sup>2</sup>

**Length:** 220mm



Supplied with set of approx. 500 insulated terminals and storage case.



**G AK3857**

**Ratchet Crimping Tool with Interchangeable Jaws**

All steel construction with large soft grip handles. Quick change hardened and tempered jaws to suit insulated and non-insulated terminals. Ratchet action ensures consistent crimping.

**Insulated Terminal Suitability:** 0.5-1mm<sup>2</sup>, 1.5-2.5mm<sup>2</sup>, 4-6mm<sup>2</sup>

**Non-Insulated Terminal Suitability:** 1.5mm<sup>2</sup>, 2.5mm<sup>2</sup>, 6mm<sup>2</sup>, 10mm<sup>2</sup>

**Length:** 220mm

**Optional Storage Case:** AK3858/CASE

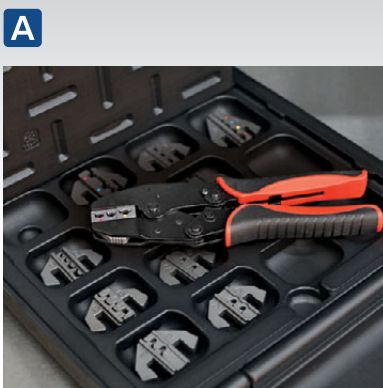


**H AK3870**

**7pc Deutsch Connector Plier Set**

The adjustable ratchet mechanism releases only after the correct crimp force has been applied to ensure a reliable connection. Ergonomic handle designed for comfort. Suitable for AWG cable sizes 10, 12, 14, 16, 18, 20. Supplied in a storage case with six sets of interchangeable jaws.

**Terminal Suitability:** Jaws: K1; 14-12 AWG for Size 12 (DTP), K2; 12-10 AWG for Size 12 (DTP), K3; 18-14 AWG for Size 16 (DT), K4; 20-16 AWG for Size 16 (DT), K5; 20-16 AWG for Size 20 (DTM), K6; 16-12 AWG for Size 16 (DT)



**A AK3858COMBO**  
Ratchet Crimping Tool with Jaws and Storage Case

Crimps are all steel construction with large soft grip handles. Supplied with a set of 12 interchangeable jaws and convenient storage case. Allows selection of specific jaws for the large variety of crimping terminals used today.

Contents:



B-O



**B AK3858**  
Ratchet Crimping Tool without Jaws

All steel construction with large soft grip handles. Supplied without the required jaws which are sold separately, this allows selection of specific jaws for the large variety of crimping terminals used today.



C

C AK3858/CASE

Available Jaws:	Applications	Available Jaws:	Applications
AK3858/A:	Insulated Terminal	AK3858/C1:	Open Barrel
AK3858/A1:	Heat Shrink Butt Connector	AK3858/H:	Open Barrel & D-Sub
AK3858/A4:	Insulated Flag Terminal	AK3858/H2:	Superseal Series 1.5
AK3858/A5:	Closed End & Heat Shrink	AK3858/H3:	Superseal Series 1.5
AK3858/B:	Non-Insulated Terminal	AK3858/H6:	Delphi Weather Pack
AK3858/C:	Open Barrel	AK3858/H7:	Delphi Weather Pack



**D AK3858/A**  
Insulated Terminal Crimping Jaws

Terminal Suitability: 0.5-1mm<sup>2</sup>, 1.5-2.5mm<sup>2</sup>, 4-6mm<sup>2</sup>



**E AK3858/A1**  
Heat Shrink Butt Connector Crimping Jaws

Terminal Suitability: 0.5-1mm<sup>2</sup>, 1.5-2.5mm<sup>2</sup>, 4-6mm<sup>2</sup>, 10mm<sup>2</sup>



**F AK3858/A4**  
Insulated Flag Terminal Crimping Jaws

Terminal Suitability: 0.5-1mm<sup>2</sup>, 1.5-2.5mm<sup>2</sup>



**G AK3858/A5**  
Closed End & Heat Shrink Crimping Jaws

Terminal Suitability: 0.5-1.5mm<sup>2</sup>, 1.5-2.5mm<sup>2</sup>, 4-6mm<sup>2</sup>



**H AK3858/B**  
Non-Insulated Terminal Crimping Jaws

Terminal Suitability: 1.5mm<sup>2</sup>, 2.5mm<sup>2</sup>, 6mm<sup>2</sup>, 10mm<sup>2</sup>



**I AK3858/C**  
Open Barrel Crimping Jaws

Terminal Suitability: 0.5-1mm<sup>2</sup>, 1.5-2.5mm<sup>2</sup>, 4-6mm<sup>2</sup>



**J AK3858/C1**  
Open Barrel Crimping Jaws

Terminal Suitability: 0.1-0.25mm<sup>2</sup>, 0.25-0.5mm<sup>2</sup>, 0.5-1mm<sup>2</sup>



**K AK3858/H**  
Open Barrel & D-Sub Crimping Jaws

Terminal Suitability: 0.5mm<sup>2</sup>, 2.5mm<sup>2</sup>, 8-10mm<sup>2</sup>



**L AK3858/H2**  
Superseal Series 1.5 Crimping Jaws

Terminal Suitability: 0.35-0.5mm<sup>2</sup>, 1.5mm<sup>2</sup>



**M AK3858/H3**  
Superseal Series 1.5 Crimping Jaws

Terminal Suitability: 0.75mm<sup>2</sup>, 1mm<sup>2</sup>



**N AK3858/H6**  
Delphi Weather Pack Crimping Jaws

Terminal Suitability: 0.35mm<sup>2</sup>, 0.5-0.8mm<sup>2</sup>



**O AK3858/H7**  
Delphi Weather Pack Crimping Jaws

Terminal Suitability: 1-2mm<sup>2</sup>, 3mm<sup>2</sup>





**A AK3851**

**Stripping & Crimping Tool**

3mm Steel construction with safety insulated handgrips. Crimps insulated terminals 0.5-6mm<sup>2</sup>. Crimps non-insulated terminals 1.5-6mm<sup>2</sup>. Crops threaded terminals M2.6-M5. Strips wires 0.75-6mm<sup>2</sup>. Also fitted with wire cutters for soft cables and wires.

**Length:** 250mm



**B S0536**

**Crimping Tool Set**

230mm Long, 4-way crimping tool crimps terminals, strips wires, cuts screws and wires. Handles both insulated and non-insulated terminals 1.5, 2.5 and 6mm<sup>2</sup>. Strips wires 0.75, 1, 1.5, 2.5, 4 and 6mm<sup>2</sup>. Screw cutting capacity from M2.6-M5. Safety insulated handle grips. Supplied with approximately 50 assorted terminals and connectors in a handy storage case.



**C AK3859**

**Crimping Tool - Superseal Series 1.5**

All steel construction with anti-slip handles and hardened and tempered jaws. For use on Superseal Series 1.5 terminals. Parallel jaw movement ensures consistent crimp tension.

**Terminal Suitability:** 0.35-0.5mm<sup>2</sup>, 0.75mm<sup>2</sup>, 1mm<sup>2</sup>, 1.5mm<sup>2</sup>

**Length:** 210mm



**D AK3860**

**Crimping Tool - Delphi Weather Pack**

All steel construction with anti-slip handles and hardened and tempered jaws. For use on Delphi Weather Pack terminals. Parallel jaw movement ensures consistent crimp tension.

**Terminal Suitability:** 0.35mm<sup>2</sup>, 0.5-0.8mm<sup>2</sup>, 1-2mm<sup>2</sup>, 3mm<sup>2</sup>

**Length:** 215mm



**E AK225**

**Automatic Wire Stripping Tool**

Plate-steel construction, chemically blackened with oversize vinyl grips. 5-in-1 Wire stripper suitable for wires from 0.13-6mm<sup>2</sup> (26-10AWG). Crimping attachment suitable for non-insulated terminals including 1.5, 2.5, 4 and 6mm<sup>2</sup>, also insulated auto-ignition terminals 7 and 8mm. Crimps insulated terminals 1.5, 2.5 and 6mm<sup>2</sup>. Includes wire cutters hardened to 40-50 HRC.

**Stripping Capacity:** 0.13-6mm<sup>2</sup> (26-10 AWG)

**Length:** 215mm



**F AK2255**

**Heavy-Duty Automatic Wire Stripping Tool**

Heavy-duty, professional automatic wire stripper with alloy steel jaws. Fully automatic, single action, grips and strips all types of wire 0.2-6mm<sup>2</sup> with minimal pressure to handles and no damage to the inner core of the wire. Adjustable length stop is easily swivelled to allow longer stripping. Precision machined wire cutting blades for long-life. Features three crimping elements for insulated, non-insulated (1.5-6mm<sup>2</sup>) and auto-ignition terminals (7-8mm).

**Stripping Capacity:** 0.2-6mm<sup>2</sup>

**Length:** 200mm



**G AK2252**

**Automatic Wire Stripping Tool**

One-handed, compound action grips and strips electric cables 1-3.2mm<sup>2</sup> automatically. Jaw action prevents crushing or cutting even the finest wires. Supplied with length gauge and fitted with vinyl grips.

**Stripping Capacity:** 1, 1.6, 2, 2.6, 3.2mm<sup>2</sup>

**Length:** 175mm



**H AK2269**

**Automatic Pistol Grip Wire Stripping Tool**

Automatic wire stripper and cutter operates in one easy single-handed operation. Handle lock with automatic adaption to different wire sizes.

**Stripping Capacity:** 0.2-6mm<sup>2</sup>

**Maximum Cutting Capacity:** 4mm<sup>2</sup>

**Maximum Stripping Length:** 15mm



**I AK2265**

**Automatic Pistol Grip Wire Stripping Tool**

Automatic wire stripper and cutter operates in one easy single-handed operation. Features a handle lock and adjustable wire stop. Manufactured from reinforced fibreglass and nylon with hardened steel blades.

**Stripping Capacity:** 0.2-6mm<sup>2</sup>

**Maximum Cutting Capacity:** 2mm<sup>2</sup>

**Maximum Stripping Length:** 12mm



**A AK2254**  
**110mm Cutting Nippers**

Manufactured from high quality stainless steel with spring-return. Suitable for cutting soft wires and plastic e.g. cable ties. Sturdy handles for added grip and comfort.

<b>Maximum Cutting Capacity:</b>	Ø4.5mm
<b>Length:</b>	110mm



**B AK2266**  
**Wire Stripping & Cutting Pliers**

Manufactured from high carbon steel with precision dual ground cutting blades. Features spring loaded handles with soft grip and safety lock.

<b>Stripping Capacity:</b>	0.5-6mm <sup>2</sup>
<b>Maximum Cutting Capacity:</b>	Ø10.7mm
<b>Length:</b>	170mm



**C AK2290**  
**Pocket Wire Stripping Tool**

Pocket wire stripping tool suitable for automotive and electrical trades. Features a spring loaded safety lock.

<b>Stripping Capacity:</b>	10-20 AWG, 0.5-6mm <sup>2</sup>
<b>Length:</b>	122mm



**D AK2291**  
**Pocket Wire Stripping Tool with Retractable Blade**

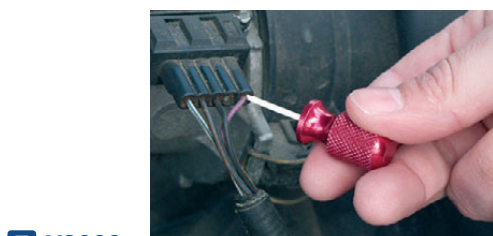
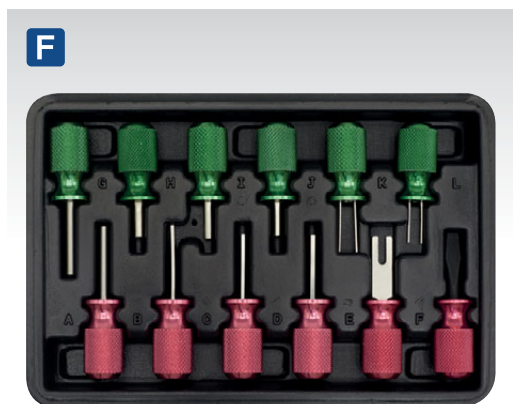
Pocket wire stripping tool suitable for automotive and electrical trades. Built-in retractable knife. Features a spring loaded safety lock.

<b>Stripping Capacity:</b>	10-20 AWG, 0.5-6mm <sup>2</sup>
<b>Length:</b>	130mm



**E VS9200**  
**Terminal Tool - VAG**

Designed to remove terminals frequently used on many VAG group vehicles.



**F VS920**  
**12pc Terminal Tool Set**

Suitable for the removal of vehicle computer connectors and terminals. Designed for GM C3 systems, this 12-piece kit has a general application for safe and fast removal of terminals on a wide range of vehicles. Colour-coded aluminium handles make for easy identification. Supplied in storage case.

<b>Contents:</b>	Red Handled - Spring Loaded Tube; 3.3 x 28mm, Square Blade; 1.4 x 28mm, Flat Blade; 1.5 x 24.75mm, 2 x 23mm, Fork Blade; 8 x 24mm, Screwdriver; 3/16" x 1", Green Handled - Tube; 3.3 x 28mm, 4.3 x 13mm, 3.75 x 13mm, 3 x 13mm, Flat Twin Blade; 3mm, 1.6mm
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**G VS9201**  
**15pc Universal Cable Ejection Tool Set**

Reduce time spent on, and damage to, vehicle electrical systems with these connector tools. Set consists of cable extraction, contact ejection and contact dismantling tools covering a wide range of connectors, including Kabelex, Micro-Timer II and III, Maxi-Power Timer and Pit-Pod.

<b>Applications:</b>	BMW, Daimler/Chrysler, Fiat, Ford, MAN, Mazda, Porsche, PSA, Renault, Saab, Seat, Skoda, VAG, Vauxhall/Opel
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**H VS9203**  
**23pc Terminal Tool Kit**

Comprehensive kit, suitable for the removal of terminals on most wiring connectors. Reduce time spent on, and damage to, vehicle electrical systems. Features soft grip handles with number identification.

<b>Applications:</b>	BMW, Chrysler, Citroen, Fiat, Ford, Honda, Jaguar, Mazda, Mercedes, Mitsubishi, Porsche, Renault, Saab, Toyota, VAG, Vauxhall/Opel
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**A VS8181**  
**12pc Cable Management Tool**

Designed for professional installers and vehicle technicians. Capable of overcoming most day-to-day cable installation problems, particularly in domestic and commercial buildings. Ideal for installing wires through vehicle bodywork. Includes a hook and flexible joint with eye and 320mm screw-in polyester rods (x10) with a total length of 3.2m. Supplied in storage tube.

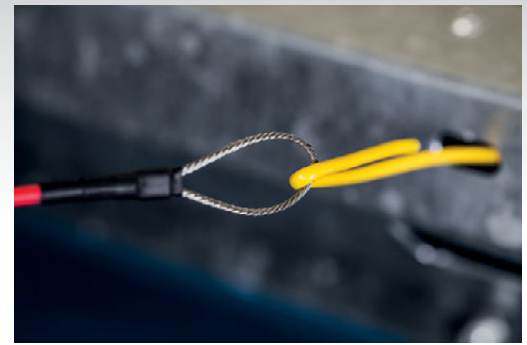
<b>Attachments:</b>	Hook, Eye
<b>Section Lengths:</b>	10 x 320mm (3.2m)



**B RT1**  
**Wire Guide Tool**

Flexible plastic covered wire with attachment loop. For guiding/pulling replacement automotive wiring into position through confined spaces. Suitable for use with insertion tools.

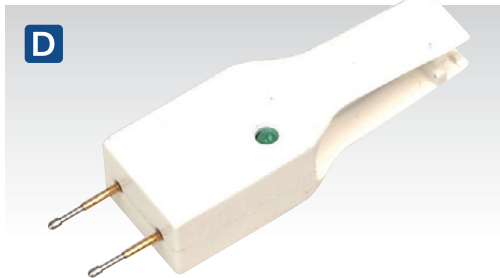
<b>Section Length:</b>	1m
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**C VS9202**  
**3pc Terminal Cleaner Set - Diamond Grip**

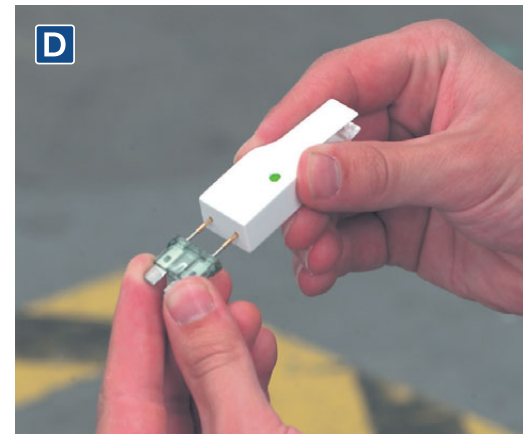
Suitable for removing corrosion and enhance connectivity of wiring terminals. Durable abrasive diamond cleaning ends, for male/female blade type terminal connectors. Features a pivoting handle to allow tweezer action or single blade use. Set contains three sizes of blade.

<b>Contents:</b>	113mm Blade Terminal Cleaner; Small, Medium, Large
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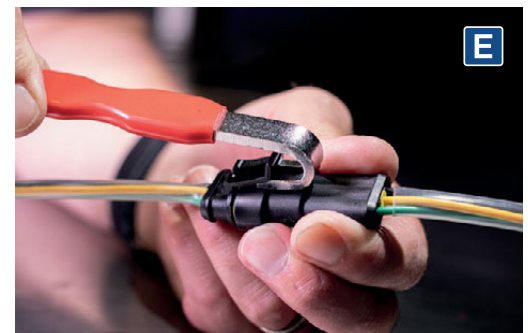
**D CFT1**  
**Automotive Fuse Checker & Puller**

Checks continuity of blade-type automotive fuses, in or out of fuse holder. Green LED indicates fuse is OK. Also simplifies the removal of faulty fuses.



**E VS2031**  
**Automotive Electrical Connector Separator Tool**

Enables user to disconnect electrical connectors quick and easy without causing damage. Double ended design allows access at different angles. Can be used with most car and commercial vehicle electrical connectors.



**F SEE BELOW**  
**Thick Wall Automotive Cable**

Thick wall single core PVC insulated automotive cable. Ideal for most popular vehicle applications. Always check the required amperage and mm<sup>2</sup> cable for your application before fitting. If in doubt consult a qualified automotive electrician.

Temperature Range: -20°C to +80°C					
Model No:	Amps:	Core Type:	Length:	Section:	Colour:
AC0507B	5A	Single	7m	0.5mm <sup>2</sup>	Black
AC0507G	5A	Single	7m	0.5mm <sup>2</sup>	Green
AC0507R	5A	Single	7m	0.5mm <sup>2</sup>	Red
AC0806B	8A	Single	6m	0.8mm <sup>2</sup>	Black
AC0806G	8A	Single	6m	0.8mm <sup>2</sup>	Green
AC0806R	8A	Single	6m	0.8mm <sup>2</sup>	Red
AC1704B	17A	Single	4m	2mm <sup>2</sup>	Black
AC1704G	17A	Single	4m	2mm <sup>2</sup>	Green
AC1704R	17A	Single	4m	2mm <sup>2</sup>	Red
AC2725B	27A	Single	2.5m	3mm <sup>2</sup>	Black
AC2725G	27A	Single	2.5m	3mm <sup>2</sup>	Green
AC2725R	27A	Single	2.5m	3mm <sup>2</sup>	Red



A

**A SX400****6pc Alternator Freewheel Pulley Removal Set**

Permits easy removal of freewheel pulley from alternator either on or off the vehicle. Insert allows alternator shaft to be held while the pulley retainer is removed with the key nut.

**Applications:** Audi, BMW, Citroen, Ford, Mercedes, Peugeot, Porsche, Renault, Skoda, Vauxhall/Opel

**Contents:** Spline Adaptor - 22mm x 33T, Hex Adaptor - 22 x 28mm, Socket Bits - 1/2" Sq Drive; M10 x 140mm, M10 x 100mm, 10mm Hex Drive; TRX-Star\* - T50 x 65mm, Spline - M10 x 65mm

D

**D SX404****35pc Alternator Freewheel Pulley Removal Set**

Comprehensive set for easy removal of freewheel alternator pulley, either on or off the vehicle. Allows alternator shaft to be held while pulley retainer is removed.

**Combined Socket Bits:** 1/2" Sq Drive; TRX-Star\* - T50-31T Ø13.60 x 113mm, T50-33T Ø19.40 x 65mm, T50-33T Ø19.40 x 113mm, Spline - M10-31T Ø13.60mm x 112mm, M10-33T Ø14mm x 83mm, M10-33T Ø19.40 x 65mm, M10-33T Ø19.40 x 112mm, 10mm Hex Drive; 10mm Socket-33T Ø19.40, 10mm Socket - 21mm Hex

**Hex Adaptors:** 17 (x2), 22, 19 x 28, 21 x 28, 22 x 28mm

**Spline Adaptors:** 33T-Ø17.90mm, 33T-Ø19.40mm (x3)

**Hex/Pin Adaptors:** 38mm - 3-pin

**Round Pin Adaptors:** Ø35mm - 4-pin, Ø40mm - 3-pin

**Bits:** Hex; M8, M10 x 75mm, M10 x 100mm, Socket; 10mm x 75mm, Spline; M10 x 65mm, M8, M10 x 75mm, M10 x 100mm, M10 x 140mm, TRX-Star\*; T40, T50 x 75mm, T50 x 100mm

**Adaptor:** 1/2" Sq Drive x 10mm Hex

B

**B SX401****13pc Alternator Freewheel Removal Set**

Permits easy removal of over running alternator pulley either on or off the vehicle. Insert allows alternator shaft to be held while the pulley retainer is removed with the key nut.

**Applications:** Alfa Romeo, Audi, BMW, Citroen, Fiat, Mercedes, Mitsubishi, Renault, Seat, Skoda, Vauxhall/Opel, Volvo, VW

**Combined Socket Bits:** 1/2" Sq Drive; TRX-Star\* - T50-33T x 113mm, Spline - M10-33T x 113mm

**Spline Adaptors:** 15mm x 33T, 22mm x 33T

**Hex Adaptor:** 22 x 28mm

**Round Adaptor:** 35mm - 4-pin

**Bits:** 10mm Hex Drive; TRX-Star\* - T40, T50, Spline - M8, M10, Hex - 8, 10mm, Adaptor; 1/2" Sq Drive x 10mm Hex

E



F

**F VS2073****Diagnostic Socket Memory Safe - EOBD**

Professional low cost tool saves all the vehicle settings to prevent loss and expensive reprogramming not just for radio codes but for immobilisers, traction control, engine management and satellite navigation. Bright, easy-to-read LEDs for at-a-glance confirmation of connection. Can be used with any existing booster packs with a vehicle accessory power socket or even vehicle-to-vehicle.

**Cable Length:** 1.8m

**Connection:** EOBD

C

**C SX402****18pc Alternator Freewheel Pulley Removal Set**

Enables easy removal of freewheel alternator pulley, either on or off the vehicle. Allows alternator shaft to be held while the pulley retainer is removed. Incorporates a complete range of combination TRX-Star\*, spline and hex adaptors to fit most alternators. Supplied in storage case.

**Combined Socket Bits:** 1/2" Sq Drive; TRX-Star\* - T50-33T x 113mm, Spline - M10-33T x 113mm, 3/8" Sq Drive; Spline - M10-33T x 80mm,

**Socket Bit:** 1/2" Sq Drive Spline; M10 x 140mm

**Spline Adaptors:** 15mm x 33T, 22mm x 33T

**Hex Adaptors:** 22, 22 x 28, 19 x 28mm

**Round Adaptor:** 35mm - 4-pin

**Bits:** 10mm Hex Drive; TRX-Star\* - T40, T50, Spline - M8, M10, Hex - 8, 10mm, 12mm Hex; Spline - M10

**Adaptor:** 1/2" Sq Drive x 10mm Hex

**E VS2076****12V Diagnostic Socket Memory Safe - EOBD**

Used to preserve the memory to on-board electronics whilst vehicle's own battery is disconnected. Saves valuable time spent re-programming lost codes. Can be connected via the vehicle's EOBD or vehicle accessory power socket. Unit features an internal 12V 7Ah sealed battery and LEDs provide battery condition and charge indicator. Supplied with mains charger.

**Cable Length:** 1.3m

**Connection:** EOBD/Vehicle Accessory Socket

G

**G VS2072****Diagnostic Socket Memory Safe - EOBD**

Attaches to a 12V slave battery and provides power via the EOBD socket to on-board electronics whilst vehicle's own battery is disconnected. Features LED to indicate back-up battery power supply status. Saves valuable time spent re-programming lost codes.

**Cable Length:** 1.35m

**Connection:** EOBD



6V  
12V

**A BT91/7**  
**6/12V Battery Drop Tester**

American-style drop tester. Load applied by internal switchgear - no sparking. Suitable for 6 and 12V batteries. Applies load across cells and measures output on meter. Accurate indication of battery voltage and faulty or short circuited cell.



6V  
12V

**B BT91/7PF**  
**6/12V Professional Battery Drop Tester**  
**Polarity Free**

American-style drop tester. Polarity protected cables, impossible to damage unit by incorrect connection. Load applied by internal switchgear - no sparking! Suitable for 6 and 12V batteries. Applies load across cells and measures output on meter. Accurate indication of battery voltage and faulty or short circuited cell.



12V

**C BT91/3**  
**12V Battery Drop Tester**

Traditional style drop tester for all 12V automotive batteries. Applies load across cells and measures output on meter. Accurate indication of battery voltage, faulty cell and short circuited cell.



D  
6V  
12V

**D BT91/10**  
**6/12V Handheld Battery Tester**

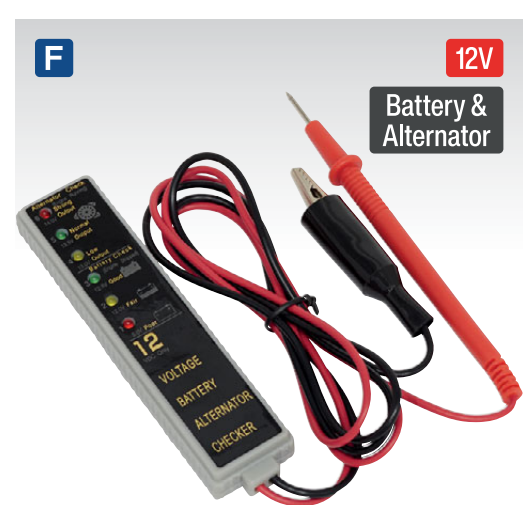
Tests 6 and 12V batteries. Applies load across terminals and reads voltage performance. Also checks charging voltage. Fitted with moving-coil meter. Features a pistol grip handle for ease of use.



E  
12V  
Battery & Alternator

**E AK500**  
**12V Battery & Alternator Tester**  
**LCD Screen**

LCD Display verifies the condition of battery and alternator output. Suitable for 12V DC systems and connects to vehicle via the vehicle accessory power socket. Fitted with 250mm cable and powered by connection to vehicle.



F  
12V  
Battery & Alternator

**F AK400**  
**12V LED Battery & Alternator Tester**

LED Indicators verify condition of battery and alternator. Suitable for 12V DC systems. Magnetic backing sticks to metal surfaces for hands-free operation. Fitted with 900mm cable, probe and crocodile clips.



G  
30A

**G BT98/10**  
**30A Clip-On Ammeter**

Moving-coil style meter suitable for testing DC current and direction without breaking circuit. Ø55mm Dial face with spring loaded induction clip.

Scale Range: 0-30A (either direction)



H  
75A

**H BT98/11**  
**75A Clip-On Ammeter**

Moving-coil style meter suitable for testing DC current and direction without breaking circuit. Ø55mm Dial face with spring loaded induction clip.

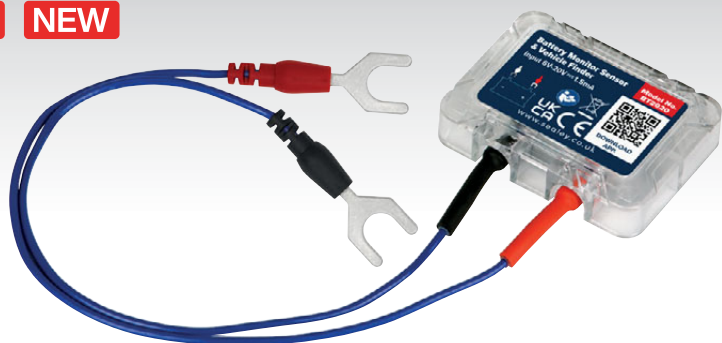
Scale Range: 0-75A (either direction)



**I AK422**  
**Battery Terminal Crimping Tool**

For more information, see page 472.

**A NEW**



**A BT2020**

**Battery Monitor Sensor & Vehicle Finder**

Displays real time battery power, voltage and temperature. Wireless connection with dedicated App which supports up to 4 devices (iOS & Android compatible). Guide user back to the vehicle by automatically recording the last parking location. Record the route, cost and driving habits of each trip, which can be exported to Excel. Automatically monitor the starting and charging system of the vehicle and notify if abnormal. Compatible with most batteries including lead sealed, AGM and Gel. Supports up to 4 devices. Store historical data in device for up to 30 days.

<b>Average Current:</b>	1.5mA
<b>Waterproof:</b>	IP67
<b>Input Voltage:</b>	6-20V
<b>Short Circuit Protection:</b>	Built-in
<b>Voltage Accuracy:</b>	(9-16V) ±0.03V
<b>Reverse Connection Protection:</b>	Built-in
<b>Operating Temperature:</b>	-20°C - 40°C
<b>Physical Dimensions:</b>	55 x 41 x 12.5mm
<b>Voltage Range:</b>	6-20V

**B**



6V  
12V  
24V

**Battery & Alternator**

**B BT2002**

**6/12/24V Digital Battery & Alternator Tester**

Professional diagnosis of battery and alternator faults. Test battery condition with as little as 1V of residual charge. No heat, no sparks and no misdiagnosis. Checks condition of starter - no complicated connections or interpretation required. Analyse the vehicle's charging system at rest and under load to determine condition of alternator. Connect and follow the prompts on the LCD screen for straightforward answers. Incorporates simple voltmeter for voltage tests and additional system diagnostics. Rugged construction with protective cover.

<b>Rated Battery Voltage:</b>	6/12V
<b>Charging System Capability:</b>	12/24V
<b>Rating Systems:</b>	SAE, DIN, EN, IEC
<b>Test Ranges:</b>	40-2100 CCA* EN, 40-2000 CCA* SAE, 30-1500 CCA* IEC, 25-1300 CCA* DIN
<b>Minimum Power Requirement:</b>	1.5V

\*CCA - Cold Cranking Amps.

**C**



12V

**Battery & Alternator**

**C BT01**

**12V Digital Battery & Alternator Tester**

Compact device which accurately tests battery, cranking and alternator. No heat, no sparks and no misdiagnosis. Just key in the battery rating from the top of the battery and results are displayed on an LED control panel. No internal battery and will test batteries with a residual charge of just 7V.

<b>Rated Battery Voltage:</b>	12V
<b>Rating Systems:</b>	DIN, EN, IEC, MCA, SAE
<b>Test Ranges:</b>	55-670 CCA* DIN, 90-1125 CCA* EN, 65-790 CCA* IEC, 120-1440 CCA* MCA, 100-1200 CCA* SAE
<b>Voltage Range:</b>	7-15V
<b>Minimum Power Requirement:</b>	7V

\*CCA - Cold Cranking Amps.

**D**



12V

**Battery**

**D BT2101**

**12V Digital Battery Tester**

Fast and accurate assessment of battery condition, even with the battery partially discharged. No heat, no sparks and no misdiagnosis. Tests battery in accordance with rated output based on SAE, DIN or ENC2 criteria and displays results on LCD screen. Diagnose battery faults at the trade counter, service reception or workshop with confidence. Rugged construction.

<b>Rated Battery Voltage:</b>	12V
<b>Rating Systems:</b>	DIN, EN, IEC, SAE, CA(MCA)
<b>Test Ranges:</b>	110-670 CCA* DIN, 185-1125 CCA* EN, 130-790 CCA* IEC, 200-1200 CCA* SAE, 240-1440 CA(MCA)
<b>Minimum Power Requirement:</b>	1.5V

\*CCA - Cold Cranking Amps.

**E BT2003**

**6/12/24V Digital Battery & Alternator Tester with Printer**

Professional diagnosis of battery and alternator faults with the added facility to print the results. Test battery condition with as little as 1V of residual charge. No heat, no sparks and no misdiagnosis. Checks condition of alternator, no complicated connections or interpretation required. Analyse the charging system at rest and under load to determine condition of the alternator. Connect and follow the prompts on the 2-line/16 character LCD screen for straightforward answers. Incorporates simple voltmeter for voltage tests and additional system diagnostics. Rugged construction. Supplied in storage case, two rolls of printing paper and instruction manual.

<b>Rated Battery Voltage:</b>	6/12V
<b>Rating Systems:</b>	DIN, EN, IEC, JIS, SAE
<b>Charging System Capability:</b>	12/24V
<b>Test Ranges:</b>	40-2100 CCA* EN, 40-2000 CCA* SAE, 30-1500 CCA* IEC, 25-1300 CCA* DIN, By Battery Type JIS
<b>Minimum Power Requirement:</b>	1V

\*CCA - Cold Cranking Amps.

**E**



6V  
12V  
24V

**Battery & Alternator**

**F**



**F BT2003.V2-01**

**Printing Roll for BT2003 & BT2014 - Pack of 2**  
Suitable for Model No. BT2003, BT2014 and other leading brands of battery tester.

<b>Roll Size:</b>	38mm
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**A**

**12V**

**Battery & Alternator**



**A BT105**

**12V Digital Battery & Alternator Tester**

Compact device which accurately tests battery, cranking and alternator. Just key in the battery rating from the top of the battery and results are displayed on an LCD screen. Includes a facility to print results via PC. No internal battery and will test batteries with a residual charge of just 8V. Supplied with PC software and instruction manual in storage pouch.

<b>Rated Battery Voltage:</b>	12V
<b>Rating Systems:</b>	CCA, BCI, CA, DIN, EN, GB, IEC, MCA, SAE
<b>Test Ranges:</b>	100-2000 CCA* CCA, 100-2000 CCA* BCI, 100-2000 CCA* CA, 100-1400 CCA* DIN, 100-2000 CCA* EN, 100-1400 CCA* GB, 100-1400 CCA* IEC, 100-2000 CCA* MCA, 100-2000 CCA* SAE, By Battery Type JIS
<b>PC Compatibility:</b>	Windows 7, 8, 10
<b>Languages:</b>	English, Danish, Norwegian, Polish, Romanian

\*CCA - Cold Cranking Amps.

**B**

**12V/24V**



**B BT2011**

**12/24V Digital Start/Stop Battery & Alternator/Starter Tester**

Robust and simple-to-use design offers a full in-vehicle diagnosis of the vehicle battery, starter motor and alternator in seconds. Professional tool supports all 12V batteries including standard Lead-Acid, VRLA, GEL plus AGM and EFB found on all Start/Stop vehicles. The in-vehicle test mode allows diagnosis of battery health, state of charge, internal resistance, cranking voltage and a comprehensive charging system voltage at rest and under load. No heat, no sparks and no misdiagnosis. Equipped with reverse polarity protection and a battery temperature compensation feature. A 4-Line/16 character LCD display gives easy to follow prompts and accurate results. Fitted with a heavy-duty rubber protection cover.

<b>Rated Battery Voltage:</b>	12V
<b>Charging System Capability:</b>	12/24V
<b>Languages:</b>	English, French, Spanish, German, Italian, Portuguese, Dutch, Russian, Turkish, Czech

\*CCA - Cold Cranking Amps.

**Battery & Alternator**



**C**



**6V  
12V  
24V**

**Battery & Alternator**

**C BT2015**

**6/12/24V Digital Start/Stop Battery & Alternator Tester with Printer**

Professional diagnosis of battery and alternator faults with the added facility to print the results. Tests batteries up to 3000 CCA\* SAE with as little as 1.5V of residual charge. No heat, no sparks and no misdiagnosis. Checks condition of alternator, no complicated connections or interpretation required. Analyse the charging system at rest and under load to determine condition of the alternator. Suitable for use on motorcycles, cars (including Start/Stop), and commercial vehicles. Connect and follow the prompts on the 4-line/16 character LCD screen for straightforward answers. Supplied in storage case with batteries, two rolls of printing paper, PC software and instruction manual.

<b>Rated Battery Voltage:</b>	6/12V
<b>Charging System Capability:</b>	12/24V**
<b>Rating Systems:</b>	DIN, EN, IEC, JIS, SAE
<b>Test Ranges:</b>	40-2830 CCA* EN, 40-3000 CCA* SAE, 30-1985 CCA* IEC, 25-1685 CCA* DIN, By Battery Type JIS
<b>Minimum Power Requirement:</b>	1.5V
<b>Voltage Range:</b>	1.5-30V
<b>Consumable Parts:</b>	BT2012.V2-01 - Printing Roll Pack of 2 <b>F</b>
<b>Compatibility:</b>	Windows XP, 7, 8, 10
<b>Battery:</b>	6 x AA (not included)

\*CCA - Cold Cranking Amps, \*\*24V Alternator Test only.

**D**

**6V  
12V  
24V**



**Battery & Alternator**

**D BT2014**

**6/12/24V Digital Start/Stop Battery & Alternator Tester with Printer**

Professional diagnosis of battery and alternator faults with the added facility to print the results. Test battery condition with as little as 1.5V of residual charge. No heat, no sparks and no misdiagnosis. Checks condition of alternator, no complicated connections or interpretation required. Analyse the charging system at rest and under load to determine condition of the alternator. Suitable for use on motorcycles, cars (including start/stop) and commercial vehicles. Connect and follow the prompts on the 2-line/16 character LCD screen for straightforward answers. Rugged construction. Supplied in storage case with batteries, two rolls of printing paper and instruction manual.

<b>Rated Battery Voltage:</b>	6/12V
<b>Charging System Capability:</b>	12/24V**
<b>Rating Systems:</b>	DIN, EN, IEC, JIS, SAE
<b>Test Ranges:</b>	40-2100 CCA* EN, 40-2000 CCA* SAE, 30-1500 CCA* IEC, 25-1300 CCA* DIN, By Battery Type JIS
<b>Minimum Power Requirement:</b>	1.5V
<b>Voltage Range:</b>	1.5-30V
<b>Consumable Parts:</b>	BT2003.V2-01 - Printing Roll Pack of 2, see page 470
<b>Battery:</b>	4 x AA (not included)

\*CCA - Cold Cranking Amps, \*\*24V Alternator Test only.

**E**

**12V**



**E BT2012**

**12V Digital Battery & Alternator Tester with Printer**

Fast and accurate diagnosis of battery and alternator faults with facility to print the results. Large LCD display shows charging and starting system status and returns decision making information in seconds. Results need no interpretation and the tester will work on batteries with as little as 1.5V of residual charge.

<b>Rated Battery Voltage:</b>	12V
<b>Charging System Capability:</b>	12V
<b>Test Ranges:</b>	50-1400 CCA* EN, 50-800 CCA* DIN, 50-1400 CCA* EN, 50-800 CCA* IEC, 50-1400 CCA* SAE, By Battery Type JIS
<b>Voltage Range:</b>	1.5-17V
<b>Consumable Parts:</b>	BT2012.V2-01 - Printing Roll Pack of 2 <b>F</b>
<b>Battery:</b>	1 x 9V (not included)

\*CCA - Cold Cranking Amps.

**F**





**A AK410**  
**6/12/24V Battery Fluid Tester - Dial Type**  
 Tests 6, 12 and 24V batteries. Composite body and rubber bulb for workshop durability.



**B AK414**  
**6/12/24V Battery Fluid Tester - Tube Type**  
 Professional battery hydrometer. Tests 6, 12 and 24V batteries. Float gauge and thermometer built-in. Tube construction with thermometer for temperature compensation.



**C AK4124**  
**Battery Fluid Filler**  
 Fluid transfer tool suitable for battery top-up and level adjustment of coolant and screenwash.

<b>Spout Length:</b>	130mm
<b>Capacity:</b>	150ml



**D BT91/9**  
**Battery Carrier**  
 Tubular steel handle with comfort grip. Enables fast, safe handling of batteries. Fully adjustable for battery size.

<b>Minimum Battery Size:</b>	100mm
<b>Maximum Battery Size:</b>	180mm



**E AK419**  
**Battery Terminal Puller**  
 Mini puller with spring loaded jaws designed for removal of corroded battery clamps from terminals. Also suitable for removal of small gears, pulleys and bearings.

<b>Jaw Depth:</b>	50mm
<b>Jaw Spread:</b>	64mm



**F AK417**  
**Battery Post & Terminal Cleaner**  
 Wire brushes remove corrosion build-up on battery posts and terminals for improved electrical contact.

<b>Length:</b>	80mm
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**G AK120B**  
**10-120mm<sup>2</sup> Copper Lug Terminal Crimping Tool**  
 Range is 10-120mm<sup>2</sup>. BS Standard type terminal. Manufactured from SCM-40 hard tool steel. Accurate bore diameter and good crimping effect.

<b>Crimp Range:</b>	10-120mm <sup>2</sup>
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**H AK418**  
**4-Way Battery Post & Terminal Cleaner**  
 Removes heavy corrosion build-up on battery posts and terminals for improved electrical contact. Features clamp reamer and terminal scrapers.

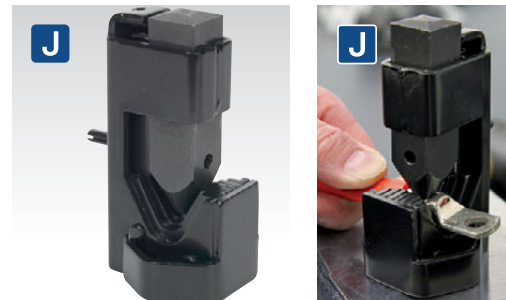
<b>Length:</b>	125mm
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**I VS005**  
**Refractometer Antifreeze/Battery Fluid/Screenwash**  
 Accurately measures the strength of battery fluid, screenwash and antifreeze by measuring the refractive index of light passing through the mixture. Suitable for synthetic antifreeze mixtures including long life OAT (Organic Acid Technology) and G13. Temperature corrected prism ensures accuracy. Eyepiece with adjustable focus. Supplied with pipette and storage case.

**J AK422**  
**Battery Terminal Crimping Tool**  
 A quick and effective way of crimping battery terminals using either a hammer or vice. Wide throat and spring controlled punch securely holds terminal in place for added security.

<b>Crimp Range:</b>	6, 10, 16, 25, 35, 50mm <sup>2</sup>
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**A PPHY**  
**CAT IV 1000V High Voltage Tester - Hybrid/Electric Vehicles**

Professional 2-pole voltage tester CAT IV 1000V for checking high voltage on electric/hybrid vehicles. Suitable for checking AC mains and DC power supplies between 6-1000V DC and 24-1000V AC. Can also be used for checking voltage and polarity on car batteries and continuity testing of DC circuits. Includes a self-test function and illumination light. EN 61243-3, IP65, CE certified. Requires 2 x AAA 1.5V batteries (not included).

<b>CAT Category:</b>	CAT IV 1000V
<b>IP Rating:</b>	IP65
<b>Maximum Current:</b>	<3.5mA @ 1000V
<b>Power:</b>	2 x AAA Batteries (not included)
<b>Voltage:</b>	6-1000V DC, 24-1000V AC



**B GT117**  
**Pneumatic Glove Tester**

Pneumatic glove tester used to carry out a pressure test on electrician's high voltage gloves. Suitable for use with Model No. HVG1000VL (see C).



**C HVG1000VL**  
**1kV Electrician's Safety Gloves - Pair**

Electrician's gloves suitable for use on hybrid and electric vehicles. Class 0 gloves suitable for working on systems up to 1kV AC in accordance with EN 60903.

<b>Suitability:</b>	<1kV AC
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**D HVM17K02**  
**Electrician's Insulating Rubber Safety Mat**

Class 2 High voltage insulating rubber floor mat. Essential item required to protect vehicle technicians from the risk of electric shock when working on electric or hybrid vehicles. Independently tested and certified as offering safe protection up to 17kV AC in accordance with BS EN 61111.

<b>Size:</b>	1 x 1m
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**E HRP45**  
**High Voltage Rescue Pole**

High voltage rescue pole suitable for use up to 45kV AC in dry conditions, in accordance with EN 50508. Supplied with wall mounting brackets and instructions for use. Suitable for hybrid and electric vehicle applications.

<b>Diameter:</b>	Ø32mm
<b>Length:</b>	1.79m
<b>Materials:</b>	Fibreglass

**F HP55K2COMBO**  
**Personal Protection Kit**

Model No:	Description:	Qty:
HRP45	High Voltage Rescue Pole.	1
HVG1000VL	1kV Electrician's Safety Gloves	1
HVM17K02	1 x 1m Electrician's Insulating Rubber Safety Mat.	1



**G-H SEE BELOW**  
**High Voltage Warning Signs**  
 Electrical hazard warning signs.

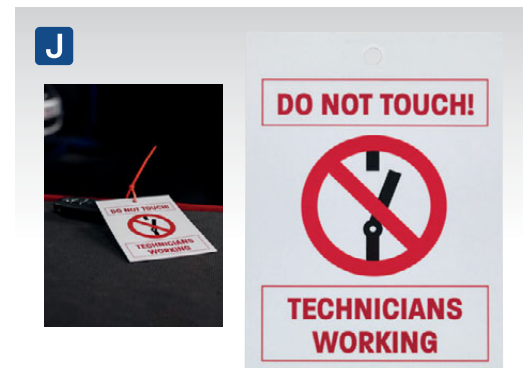
	<b>G</b>	<b>H</b>
<b>Model No:</b>	HVSA4	HVS1
<b>Size (W x H):</b>	200 x 300mm	210 x 300mm
<b>Suction Cups:</b>	✗	✓



**I HYBRIDSIGN**  
**Hybrid/Electric Vehicle Warning Sign**

Essential safety warning sign for placing on a hybrid or electric vehicle whilst service or repair operations are being carried out. A4 300gsm paper with wipeable gloss finish. Includes a box for the technician's name, to clearly identify who is working on the vehicle.

<b>Size (W x H):</b>	295 x 210mm
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**J HYBRIDTAG**  
**Hybrid/Electric Vehicle Keyring Warning Tag**

Safety warning tag for placing with hybrid or electric vehicle keys whilst service or repair operations are being carried out. It is essential that the vehicle keys are kept secure and away from the vehicle during service or repair work. 400gsm Paper with gloss finish.

<b>Size (W x H):</b>	80 x 110mm
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**A**



**B NEW**



**A-B SEE BELOW**

**Posts with Base**

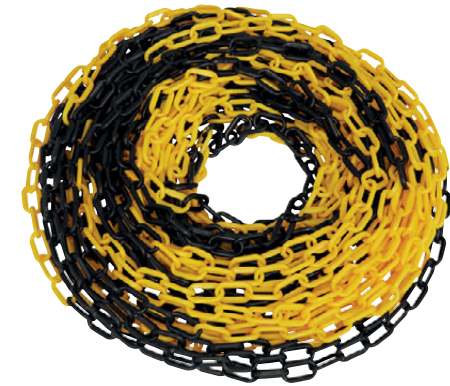
Highly visible posts with base. Base can be filled with dry sand for added stability. Suitable for extending the safety barrier when working on hybrid or electric vehicles.

Model No:	Size:	Colour:
<b>A</b> RWPB01	850mm	Red/White
<b>B</b> BYPB01	850mm	Yellow/Black

**C**



**D NEW**

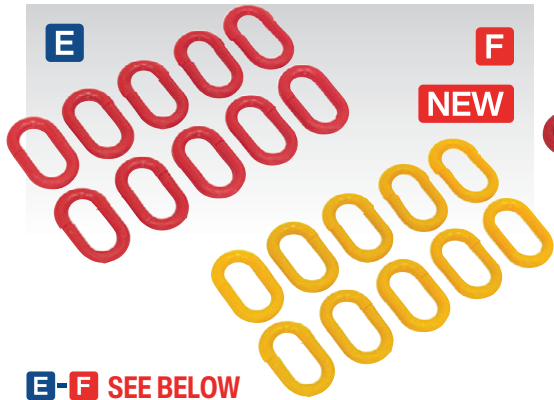


**C-D SEE BELOW**

**25m x 6mm Plastic Chains**

Essential for creating an exclusion zone when working on high voltage vehicles.

Model No:	Size:	Colour:
<b>C</b> HSC25M	25m x 6mm	Red/White
<b>D</b> BYC25M	25m x 6mm	Yellow/Black



**E**

**F NEW**

**E-F SEE BELOW**

**Plastic Chain Connector - Pack of 10**

Plastic connectors suitable for joining 6mm chain. For use with Model No's HSC25M and BYC25M Safety Chains and RWPKIT and BYSBKIT Post Kits.

Model No:	Pack Qty:	Colour:
<b>E</b> RCC10	10	Red
<b>F</b> YCC10	10	Yellow



**G**

**H NEW**

**G-H SEE BELOW**

**Plastic Chain S-Hooks - Pack of 10**

Plastic S-hooks suitable for attaching 6mm chain to posts.

Model No:	Pack Qty:	Colour:
<b>G</b> RSH10	10	Red
<b>H</b> BSH10	10	Black



**I**



**I RWSBKIT**

**25m Red/White Post & Chain Kit**

Highly visible post and chain kit ideal for creating a temporary safety barrier when working on hybrid and electric vehicles. Post base can be filled with dry sand for extra stability.

**Contents:** Red/White Posts (x6), Bases (x6), 25m x 6mm Red/White Plastic Chain and Chain Securing Hooks (x1)

**J NEW**



**J BYSBKIT**

**25m Black/Yellow Post & Chain Kit**

Highly visible post and chain kit ideal for creating a temporary safety barrier when working on hybrid and electric vehicles. Only fill post base with dry sand when working around electricity.

**Contents:** Black/Yellow Posts (x6), Bases (x6), 25m x 6mm Black/Yellow Plastic Chain and Chain Securing Hooks (x1)

**K**



**K RWPB01CS**

**12pc Cap & Bung Set**

Replacement caps and bungs for Model No. RWPB01 Red/White Post with Base and RWSBKIT bases.

**A**

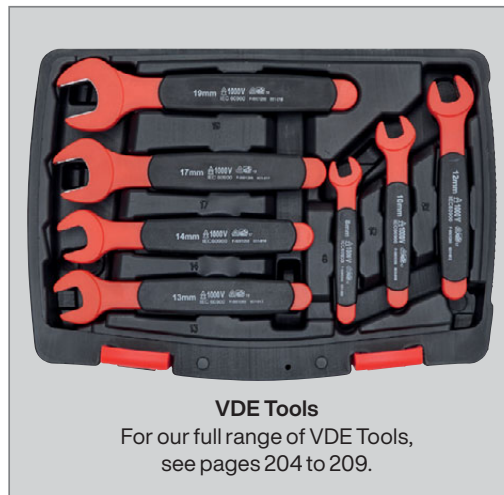


**A HP55K1COMBO**

**Exclusion Zone Kit**

For extension kit see **B**.

Model No:	Description:	Qty:
RWSBKIT	25m Red/White Post & Chain Kit	1
HVSA4	200 x 300mm High Voltage Warning Sign	1
HYBRIDSIGN	Hybrid/Electric Vehicle Warning Sign	2
HYBRIDTAG	Hybrid/Electric Vehicle Keyring Warning Tag	1



**VDE Tools**

For our full range of VDE Tools, see pages 204 to 209.

**B**



**B HP55KECOMBO**

**Exclusion Zone Extension Kit**

For use in conjunction with Model No. RWSBKIT (see page 474) when a larger exclusion zone is required.

Model No:	Description:	Qty:
HSC25M	25m x 6mm Safety Chain Red/White	1
RCC10	Plastic Chain Connector Pack of 10	1
RSH10	Plastic Chain S-Hook Pack of 10	1
RWPB01	Red/White Post with Base (x2)	2



**C**



**C HP55KITCOMBO**

**Hybrid Workshop Tool Kit**

Independent garages are now seeing a marked increase in hybrid and electric vehicles being presented to them for service and repair work. With the rapid change in the design of vehicle power trains in recent years, motor vehicle technicians are having to adapt to new technologies and working practices to be able to safely work on these types of vehicle. This kit contains a comprehensive range of tools and equipment that will be required to enable vehicle technicians to carry out work on these types of vehicle safely.

Contents:	
RWSBKIT	25m Red/White Post & Chain Kit
HYBRIDTAG	Keyring Warning Tag
HYBRIDSIGN	Warning Sign (x4)
HVSA4	200 x 300mm High Voltage Warning Sign
HRP45	High Voltage Rescue Pole
GT117	Pneumatic Glove Tester
HVG1000VL	1kV Safety Gloves
HVM17K02	1x 1m Insulating Rubber Safety Mat
AK7942	9pc 3/8" Sq Drive Insulated VDE Socket Set
AK6124	8pc Screwdriver Set VDE
AK83452	3pc VDE Pliers Set
AK63171	7pc Insulated Open End VDE Spanner Set
TA320	Digital Automotive Analyser/Insulation Tester

**A-B**

**EV/Hybrid Workshop Tool Kits**

Garages are now seeing a marked increase in hybrid and electric vehicles being presented to them for service and repair work. With the rapid change in the design of vehicle power trains in recent years, motor vehicle technicians are having to adapt to new technologies and working practices to be able to safely work on these types of vehicle. These kits contain a comprehensive range of tools and equipment that will be required to enable vehicle technicians to carry out work on these types of vehicle safely.

**A HVPDCOMBO**

**High Voltage Maintenance Combo**

You may also refer to the individual Model No's for full specification.

**Contents:** PPHY, RWSBKIT, HVG1000VL, HVSA4, HYBRIDSIGN, HYBRIDTAG

**B HVCOM1**

**EV/Hybrid Master Tool Kit**

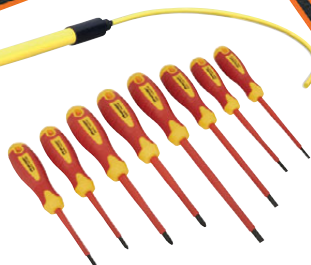
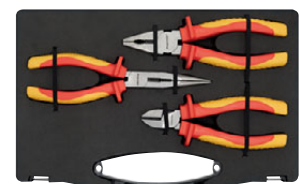
You may also refer to the individual Model No's for full specification.

**Contents:** APPD70, SF300R (x3), SF500R (x3), PPHY, BYSBKIT, HVG1000VL, HVM17K02, TA319, HVSA4, HYBRIDTAG, HYBRIDSIGN, AK83452, AK6124, AK63171, AK7940, STW803, AK7177, AK7178, HRP45

**A NEW**

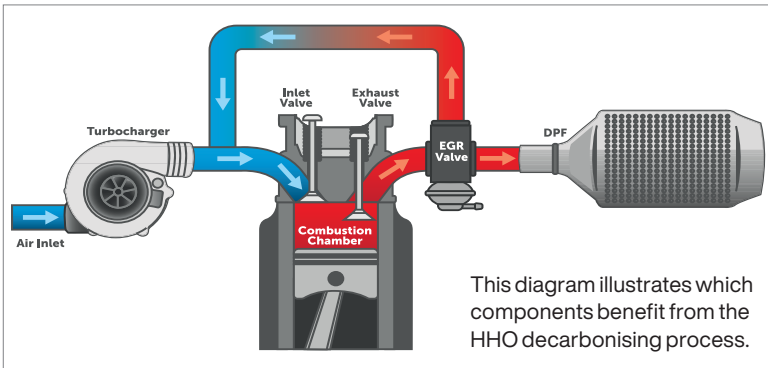


**B NEW**



**CC230V - HHO ENGINE CARBON CLEANER**

Carbon build-up is becoming a huge issue, not only in diesel engines but also in modern petrol engines. It can make the engine work much harder, increasing chance of engine faults or even failure, increased emissions and even fuel consumption. Oxyhydrogen is created by the electrolysis of water which also has potassium hydroxide added to catalyse this process. When fed into the air inlet of a running vehicle, it will increase the temperature within the combustion chamber and remove excess carbon build-up, giving you a thorough internal clean. Immediate results are noticeable and the feedback we have seen is overwhelming. This procedure doesn't even take a technician away from another job as you can leave it in a well-ventilated area working its magic. Garages are already starting to invest in this technology to increase revenue of up to £99.00+VAT per job, which can take anywhere up to an hour, depending on the severity and engine size. With no expensive additives needed, the running costs are practically nil, giving the potential to earn 100% profit on every job!

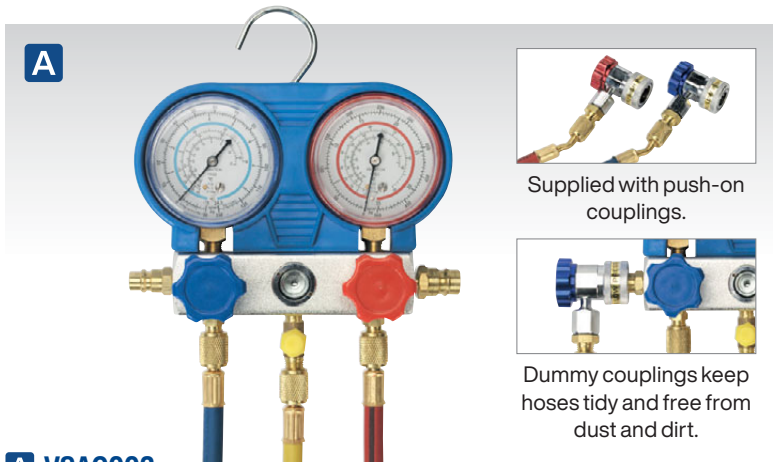


**A CC230V HHO Engine Carbon Cleaner 230V**

The Sealey CC230V uses cutting edge HHO engine cleaning technology. Each unit uses electrolysis to split water molecules into the composite elements of oxygen and hydrogen to produce oxyhydrogen or HHO gas. This simple-to-use machine feeds HHO into the engine through the vehicle air inlet, breaking down any carbon build-up on its way. Carbon builds up layer-on-layer when fuel combusts in the engine cylinders which can affect the smooth running of any engine. Removing carbon build-up from the engine can improve performance, raise mpg, reduce emissions and oil consumption. The CC230V runs on tap water with no expensive refills making the process a great revenue boost for any workshop. Fitted with CAMS (Charge Activated Machine Shutdown) designed to safely cut-out if the engine stops running during treatment. This meaning the unit can be left to run without supervision, allowing the user to continue with other work.

<b>Cells:</b>	3 x 3 Raid Technology (Generators)
<b>Flow Rate:</b>	600L/hr
<b>Power:</b>	1.4kW
<b>Dimensions (W x L x H):</b>	350 x 650 x 860mm
<b>Plug Type:</b>	3-Pin
<b>Power Supply Cable Length:</b>	2.6m





**A VSAC002**

**Air Conditioning System Manifold with Sight Glass**

Designed for refrigerant testing, charging and evacuation. Can be used on automotive, commercial and domestic A/C and domestic refrigeration systems. Gauges marked for R134a and R12 pressure reading. Colour-coding on gauges, valves and hoses for easy operation. Features 2-way manifold and sight glass for monitoring refrigerant flow. Quick couplings included and hanging hook.

<b>Applications:</b>	R134a, R12
<b>Hose Length:</b>	1550mm



Supplied with push-on couplings.



Dummy couplings keep hoses tidy and free from dust and dirt.



**B VS0557**

**27pc Fuel & Air Conditioning Disconnection Tool Kit**

For full details, see page 435.



**C VSAC135**

**13pc Air Conditioning Pressure Test Connector Kit**

Designed to suit a wide variety of vehicle air conditioning systems. Allows systems to be pressured for the purposes of leak testing prior to repair and re-gassing. Connectors included for both high and low pressure fittings.



**D VS045**

**2pc Air Conditioning & Fuel Disconnection Tool Set**

Die-cast tools suitable for press-type quick disconnection joints found on Chrysler, Ford and Vauxhall/Opel vehicles. Swivel action allows quick selection of correct sized tool.

<b>Contents:</b>	Fuel Line Tool; 5/16", 3/8", Air Conditioning Tool; 3/8", 1/2", 5/8", 3/4"
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**E VS0454**

**4pc Air Conditioning Spring Lock Coupling Tool Set**

Spring type coupling connectors for air conditioning lines. Locking action prevents spray when disconnecting lines. Suitable for most Chrysler, Ford and Vauxhall/Opel vehicles.

<b>Contents:</b>	3/8", 1/2", 5/8", 3/4"
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**F SEE BELOW**

**150ml Air Conditioning Refresher**

Air conditioning refresher with an apple fresh fragrance, eliminates odours from air-con and heating systems, leaving the system clean and free of germs.

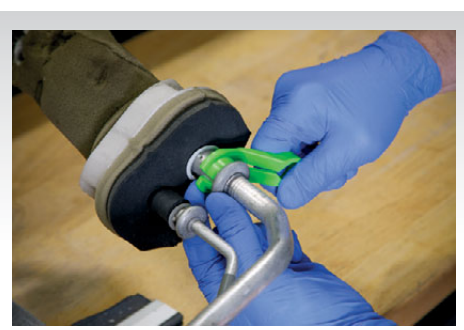
<b>Model No:</b>	<b>Pack Quantity:</b>
SCS023	6
SCS023S	1



**G VS0555**

**Air Conditioning & Fuel Line Disconnection Set**

Automotive fuel line and air conditioning hose disconnection set. Suitable for a wide variety of vehicles with quick disconnect couplings. Compatible with low profile fuel lines on a range of Ford, Vauxhall/Opel, Mazda and Chrysler. Designed for automotive fuel, A/C and transmission cooler lines. Made from a tough durable plastic that's resistant to fuel and solvents. Offset handles are ideal to access fittings in tight spaces. For full specification, see page 435.





**A SX0408**  
**8 & 10mm Damaged Glow Plug Removal Set**

Designed to remove damaged/broken glow plugs from cylinder heads. Suitable for glow plugs with an M8 x 1mm and M10 x 1mm thread. Set includes all required adaptors for drilling, centring and pulling for the safe removal of glow plug. Supplied in storage case.

**Contents:** Taps; 1/4NF28, M8 x 1mm, M10 x 1mm, Glow Plugs; M8 x 1mm, M10 x 1mm



**B VS315**  
**8 & 10mm Glow Plug Heater Element Removal Set**

For removing the heater element that can break off during glow plug removal. Saves time not having to remove the cylinder head. Works by drilling/tapping a thread into the broken element so the supplied glow plug adaptors can be used to extract. Supplied with seven drilling/tapping guides and five glow plug extraction adaptors with either a M8 or M10 thread.

**Contents:**  
**Drilling/Tapping Guide:** M8 x 1, M10 x 1, M10 x 1.25mm  
**Extraction Adaptors:** M8 x 1, M10 x 1, M10 x 1.25mm  
**Tap & Threaded Rod Sizes:** M3 x 0.5, M4 x 0.7mm  
**Drill Size:** Ø2.5, 3.3mm



**C VS311**  
**33pc Glow Plug Thread Repair Set**

Fast and effective remedy for damage to cylinder head glow plug threads. Set includes tools for the precise insertion of threaded inserts into the head and features a unique tap guide system to ensure their correct alignment. Includes four sizes of threaded adaptors suitable for common sizes of glow plug.

**Inserts:** M8 x 1mm, M10 x 1mm, M10 x 1.25mm, M12 x 1.25mm

**Tap Dimensions:** M8 x 1mm, M10 x 1mm, M10 x 1.25mm, M12 x 1mm, M12 x 1.25mm, M14 x 1.25mm

**Replacement Inserts (Packs of 5):**

VS311.01	M8 x 1mm
VS311.02	M10 x 1mm
VS311.03	M10 x 1.25mm
VS311.04	M12 x 1.25mm



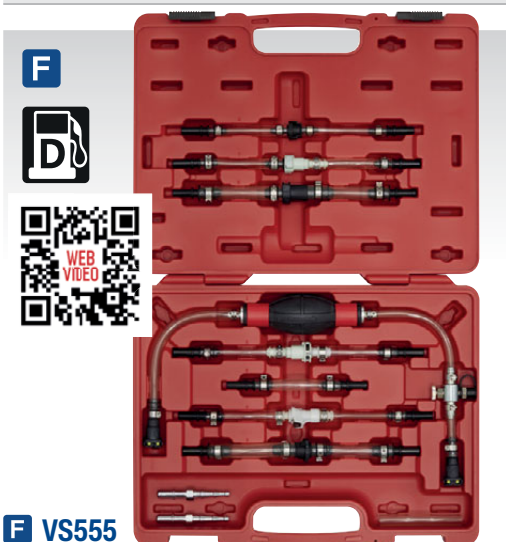
**D SX4033**  
**3pc Glow Plug Socket Set**

Specialised socket set consisting of 8, 9 and 10mm sockets. Designed to remove and install glow plugs without having to cut the power lead off. Applications include Alfa Romeo, Fiat, GM and PSA engines.



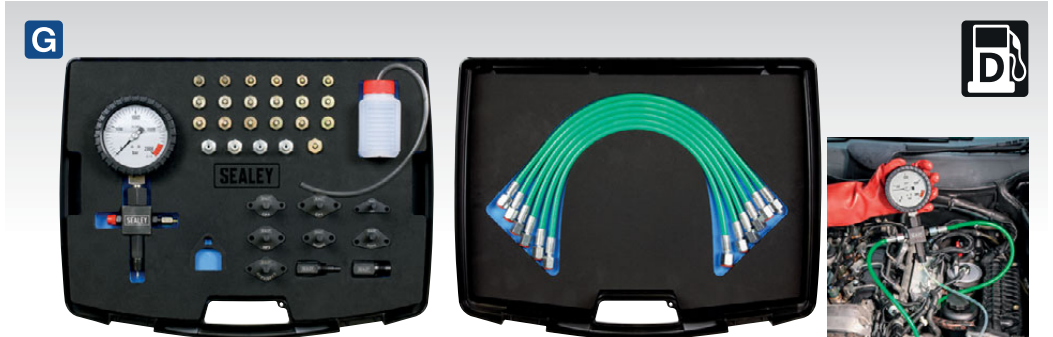
**E SA141**  
**1/4" Sq Drive Air Impact Wrench Diesel Glow Plug Kit**

Reduced torque impact wrench suitable for the removal of seized glow plugs on diesel engines. Features a 4-position air regulator which provides limited torque settings to suit. One-hand operation for trigger and forward/reverse control. Soft grip reduces vibration, chill effect and adds comfort. Handle exhaust helps to lower noise level during use. Supplied with foam insert and metal storage case. For more details, see page 802.



**F VS555**  
**Diesel Fuel Priming Set**

For full details, see page 433.



**G VS216**  
**Diesel High Pressure Pump Test Kit**

Essential tool for accurately measuring the high pressure fuel circuit of diesel common rail systems. Features 2,000bar gauge, pressure relief valve and high pressure flexible hoses. The kit also includes a set of dummy pump regulator and injector pipe blanks. Kit allows for a variety of tests to be conducted:

- ✓ Engine cranking/running pressure test
- ✓ Maximum pump pressure test
- ✓ Pump pressure regulator test
- ✓ Injector leakage test

**Gauge Pressure Range:** 0-2000bar  
**Hose Length:** 500mm (x6)  
**Hose Fittings:** M12 x 1.5 (x2), M14 x 1.5 (x2), M14 x 1 (x1), M16 x 1 (x1)  
**Hose Fitting Adaptors:** M12 x 1.25 (x2), M14 x 1.25 (x2)  
**Dummy Regulator Applications:** Bosch CP1, Bosch CP3, Bosch CP4, Delphi DFP1/DFP3, Denso HP1/HP2, Denso HP3, Siemens DCP1, Siemens DCP2  
**Injector Pipe Blanks:** M12 x 1.5 (x6), M14 x 1.5 (x6), M14 x 1 (x6)  
**Pump Outlet Blank:** M12 x 1 (x1)



**A AK6570**  
**14mm 3/8" Sq Drive 12-Point Spark Plug Socket with Universal Joint**

Designed for use where plug clearance is tight. Standard depth, thin wall, Chrome Vanadium steel 12-point 3/8" Sq drive 14mm socket with magnetic insert to retain spark plug. Features a universal joint with a built-in 85mm extension for ease of access.

Drive:	3/8" Sq
Size:	14mm
Length:	150mm



**B AK6556**  
**4pc 3/8" Sq Drive Spark Plug Socket Set**

Forged, Chrome Vanadium steel, 3/8" Sq drive WallDrive® sockets with rubber plug retention, external hex and polished chrome finish. Set includes thin walled 16mm socket, for where clearance is tight.

Drive:	3/8" Sq
Sizes:	14, 16, 21mm, 16mm Thin Wall



**C AK65561**  
**4pc 3/8" Sq Drive Spark Plug Socket Set - Magnetic**

Forged, Chrome Vanadium steel, 3/8" Sq drive WallDrive® sockets with magnetic plug retention, external hex and polished chrome finish. Set includes thin walled 16mm socket, for where clearance is tight.

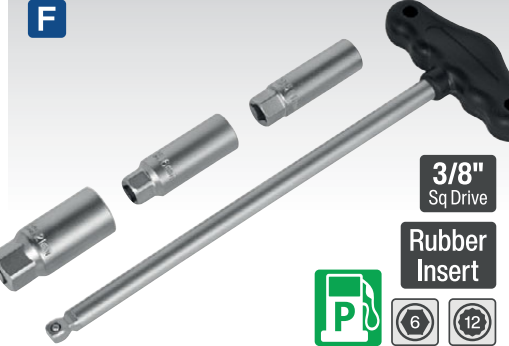
Drive:	3/8" Sq
Sizes:	14, 16, 21mm, 16mm Thin Wall



**D-E SEE BELOW**  
**3/8" Sq Drive Thin Wall Spark Plug Sockets**

Designed for use where plug clearance is tight. Standard depth, thin wall, 3/8" Sq drive WallDrive® sockets.

Model No:	Drive:	Size:	Type:
<b>D AK6557</b>	3/8" Sq	14mm	6-point
<b>E AK6558</b>	3/8" Sq	16mm	12-point



**F AK6550**  
**4pc 3/8" Sq Drive T-Bar & Spark Plug Socket Set with Rubber Inserts**

Comfort grip T-handle 3/8" Sq drive. Features 2-in-1 wobble and rigid bar. Simply push the socket further onto the bar to fasten in the rigid position. Includes 14mm Bi-hex, 16 and 21mm 6-point Chrome Vanadium spark plug sockets with rubber inserts.

Drive:	3/8" Sq
Sizes:	14, 16, 21mm



**G SEE BELOW**  
**Magnetic Spark Plug Sockets**

Magnetic spark plug sockets. Forged Chrome Vanadium steel, hardened, tempered and chrome plated.

Model No:	Drive:	Size:
<b>AK654</b>	3/8" Sq	16mm
<b>AK6541</b>	3/8" Sq	21mm
<b>AK6543</b>	1/2" Sq	16mm
<b>AK6544</b>	1/2" Sq	21mm



**H AK1621**  
**16 & 21mm Long Reach Double End Spark Plug Socket**

Designed for either 16mm or 21mm deep-seated spark plugs.

Sizes:	16, 21mm
Length:	300mm



**I-J SEE BELOW**  
**3/8" Sq Drive 12-Point Spark Plug Sockets**

Designed for use with deep-seated spark plugs. 250mm Long, 3/8" Sq drive, 12-point sockets.

Model No:	Size:	Length:
<b>I AK6551</b>	14mm	250mm
<b>J AK6552</b>	16mm	250mm



**K-L SEE BELOW**  
**14mm 3/8" Sq Drive 12-Point Magnetic Spark Plug Sockets**

Designed for use where plug clearance is tight. Standard depth, thin wall, 12-point 3/8" Sq drive 14mm sockets with magnetic insert to retain spark plug. Model No. AK6569 features a universal joint for ease of access.

Model No:	Drive:	Size:	Application:
<b>K AK6569</b>	3/8" Sq	14mm	BMW
<b>L AK6568</b>	3/8" Sq	14mm	BMW





**A NEW**

**3/8" Sq Drive Rubber Insert**

**A SMC57**

**16/21mm Flexi T-Bar Spark Plug Wrench**

3/8" Sq Drive 16 and 21mm Chrome Vanadium mirror finish spark plug sockets, suitable for 10 and 14mm spark plugs. Rubber sleeved T-Handle Bar is designed to allow maximum leverage to be applied. Ideal for use in confined areas with the 360° Universal Joint. Internal rubber sleeves in the sockets hold and prevent damage to the spark plugs.



**B 3/8" Sq Drive 12mm**

**B VS724**

**12mm Spark Plug Thread Chaser**

Suitable for cleaning corrosion and carbon build-up from spark plug threads. Also possible to restore minor cross threading damage. Designed for deep-seated plugs where a slim profile drive is necessary to fit down into the head. Features shank above threads for recessed threads.

Drive:	3/8" Sq
Size:	12mm (1.25mm pitch)
Thread Length:	20mm
Maximum Drive Diameter:	Ø18mm

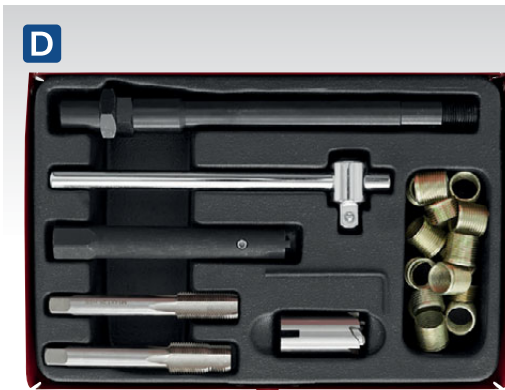


**C VS525**

**14 & 18mm Spark Plug Thread Chaser**

Suitable for cleaning corrosion and carbon build-up from spark plug threads. Also possible to restore minor cross threading damage. Use with a 21mm spark plug socket.

Size:	14, 18mm
Thread Lengths:	15mm, 18mm
Maximum Drive Diameter:	Ø21mm



**D**



**D VS301**

**Spark Plug Thread Repair Kit**

Comprehensive and time-saving kit of spark plug thread repair tools. Especially suitable for the repair of deep-seated plug configurations. Incorporates taper and plug taps together with integrated ream. Stepped tap ensures correct alignment of cutter in existing spark plug hole. Extension tools allow easy-access to the bottom of the plug recess. Includes set of plug inserts.

<b>Contents:</b>	
Tap:	M14 x 1.25mm
Step Taps:	M14 x 1.25, M16 x 1.25mm
Insert Lengths:	9.4, 15mm
<b>Replacement Inserts (Packs of 10):</b>	
VS301.9 (9.4mm), VS301.15 (15mm)	



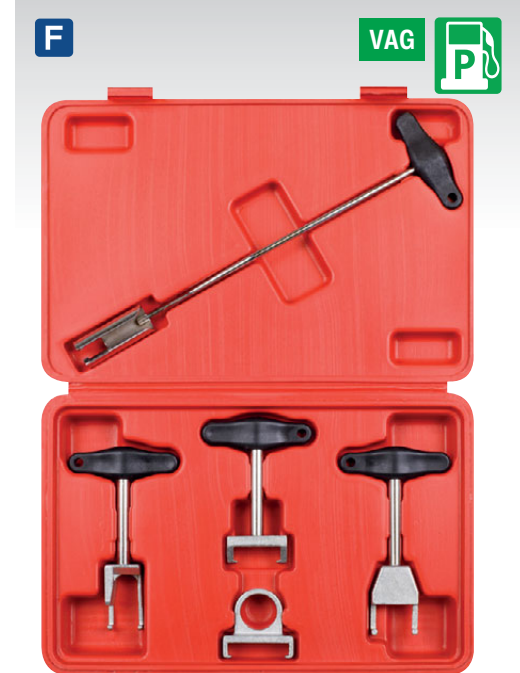
**E**

**E VS867**

**300mm Spark Plug Pliers**

Suitable for removal of spark plug boot on deep-seated engine applications. Composite handles provide insulation from HT shock and give added comfort and control.

Length:	300mm
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**F**



**F VS5294**

**5pc Ignition Coil Puller Set - VAG**

Suitable for installation/removal of ignition coils and separating the HT leads from deep-seated spark plugs on VAG vehicles. Long shafts with composite T-style handle for added control and stability. Prevents damage to ignition coils whilst allowing faster removal.



**G MM**

**G VS518**

**Spark Plug Feeler Gauge**

Specially designed for gapping spark plugs and suitable for both traditional copper and precious metal plugs. Features an electrode adjuster allowing the electrode to be adjusted without levering against the core which can be easily damaged. Blade dimensions 75 x 13mm.

Blade Sizes:	0.5, 0.6, 0.7, 0.8, 0.9, 1, 1.1mm
--------------	-----------------------------------



**H**

**H VS5293**

**Spark Plug Lead Tool - VAG**

Essential tool for spark plug removal. Separates the HT leads from the deep-seated spark plugs fitted to VAG vehicles.

Length:	290mm
---------	-------



**F**



**A SX032**  
7pc 3/8" & 1/2" Sq Drive Oxygen Sensor Socket Set

3/8" & 1/2" Sq Drive

Suitable for Titania and Zirconia oxygen sensors found on most modern vehicles. Windows and slots enable sockets to be fitted over wiring harness.

**Contents:** 3/8" Sq Drive; 22mm (7/8") Offset Oxygen Sensor Socket - 30mm, 3/8" Sq/1" Wrench Drive; 22mm (7/8") Wide Slot Oxygen Sensor Socket - 90mm, Narrow Slot Vacuum Sensor Socket - 80mm, 3/8" Sq Drive/1-1/8" Wrench; 27mm (1-1/16") Oil Sender Unit Socket - 74mm, 1/2" Sq Drive; 27mm (1-1/16") Injector Socket - 85mm, 29mm Oxygen Sensor Socket - 90mm, 1/2" Sq Drive (8-Point); 22mm (7/8") Offset Heated Oxygen Sensor Socket - 50mm



**D SX022**  
22mm 3/8" Sq Drive Oxygen Sensor Socket

Hardened and tempered Chrome Vanadium steel socket with blackened finish. Suitable for heated and unheated oxygen sensors. Cut-out section allows socket to pass over wiring.

<b>Drive:</b>	3/8" Sq
<b>Size:</b>	22mm
<b>Length:</b>	90mm



**I VS925**  
Lambda Sensor Tester/Simulator



**B SX032O**  
5pc 3/8" & 1/2" Sq Drive Oxygen Sensor & Thread Chaser Set

3/8" & 1/2" Sq Drive

Suitable for oxygen sensors found on most modern vehicles. Cut-out and slots enable sockets to be fitted over wiring harness. Includes two chasers for cleaning and repairing damaged threads. Supplied in storage case.

<b>Sockets:</b>	3/8" Sq Drive; Straight - 80mm, Deep - 22mm, Offset - 31mm High - 22mm, 1/2" Sq Drive; Offset - 50mm, High - 22mm
<b>Thread Chasers:</b>	M12 x 1.25mm, M18 x 1.5mm



**E SX0221**  
22mm 1/2" Sq Drive Extra-Long Oxygen Sensor Socket

Extra-Long

Suitable for deep-seated and longer type oxygen sensors found on modern vehicles. Cut-out section enables socket to be fitted over wiring harness.

<b>Drive:</b>	1/2" Sq
<b>Size:</b>	22mm
<b>Length:</b>	150mm



**G-H SEE BELOW**  
Oxygen Sensor Port Thread Chasers

Suitable for cleaning and repairing damaged threads on the exhaust oxygen sensor port. Use with 21mm socket.

<b>Model No:</b>	VS527	VS528
<b>Drive:</b>	21mm	21mm
<b>Thread Size:</b>	M12 x 1.25mm	M18 x 1.5mm

**I VS925**  
Lambda Sensor Tester/Simulator

Tests Zirconia and Titania lambda sensors and ECU. Suitable for 1, 2, 3 and 4 wire sensors, heated and unheated. LED display shows crossover signal from sensor. Simulates rich or lean mixture signals to check ECU response. Insulation-piercing clip for quick and easy connection plus display to confirm wire identity. Features a low battery indicator and powered by 9V battery (supplied).



**C VS5281**  
Oxygen Sensor Thread Repair Kit

Time and money saving kit for replacing damaged oxygen sensor threads with a new threaded insert. Kit includes installation tool, reamer, two taps and five inserts in storage case.

<b>Insert Thread Size:</b>	M18 x 1.5mm
<b>Tap Sizes:</b>	M18 x 1.5, M20 x 1.5mm
<b>Replacement Inserts:</b>	VS5281R (Pack of 5)



**F SX0222**  
22mm Oxygen Sensor Wrench with Flexi-Handle

Hardened and tempered Chrome Vanadium steel socket head with polished chrome finish. Flexible joint with off-set grip for maximum access. Suitable for heated and unheated oxygen sensors. Cut-out section allows socket to pass over wiring.

<b>Size:</b>	22mm
<b>Socket Depth:</b>	30mm

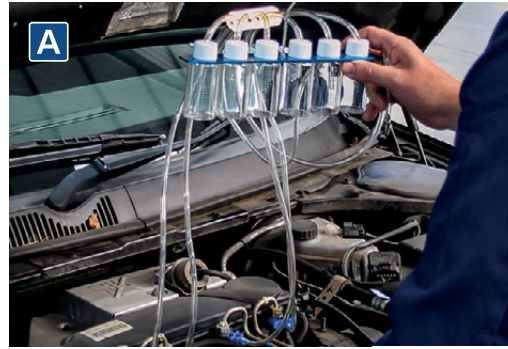
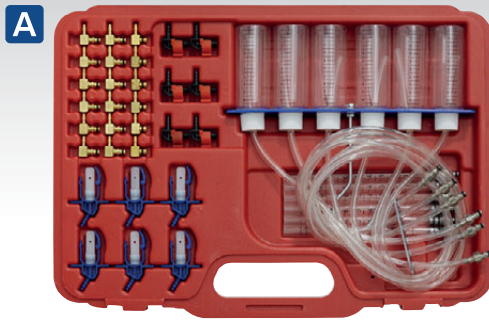


**J SX0321**  
6pc EGT Sensor Socket Set

3/8" Sq Drive

EGT (Exhaust Gas Temperature) sensor socket set includes both straight and offset versions. Specially designed to reach 13, 14 and 17mm EGT sockets. 6-Point 3/8" Sq Drive with a black phosphate finish.

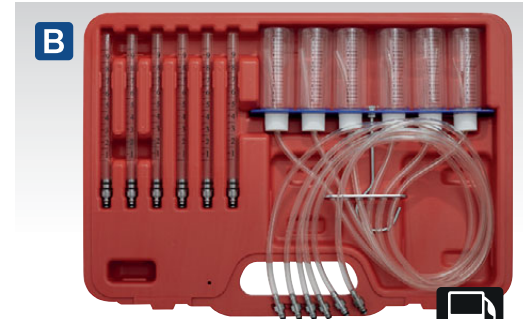
<b>Contents:</b>	6-point 3/8" Sq Drive Sockets; Straight and Offset (one of each); 13, 14, 17mm
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**A VS2048**  
**Leak Back Master Kit**  
**Bosch/Delphi/Denso**



Updated kit designed to measure return fuel flow on diesel vehicles up to 6-cylinders, fitted with common rail injection system. Identifies worn, blocked or inoperative injectors quickly and easily. Contains measurement tubes for short term tests and measurement bottles for long term, more accurate evaluation. Master kit includes range of adaptors to suit Bosch, Delphi, New Delphi and Denso injectors for comprehensive coverage of common rail diesel vehicles. Supplied in storage case.



**B VS2046**

**Injector Flow Test Kit - Common Rail**

Designed to measure return fuel flow on diesel vehicles up to 6-cylinders fitted with common rail injection system. Identifies worn, blocked or inoperative injectors quickly and easily. Supplied with measurement tubes for short term tests and measurement bottles for long term, more accurate evaluation. Supplied in storage case.



**C VS2058**  
**Injector Nozzle Tester**

Enables the testing of injectors under pressure. Fitted with Ø88mm gauge with rubber bumper reading both psi and bar. Ideal for checking of atomisation pattern and opening pressure. Transparent reservoir fitted with fine filter. Supplied with two injector connection pipes.

<b>Gauge Scale:</b>	0-600bar/0-8700psi
<b>Connecting Pipework:</b>	M12/M14



**D VS557**

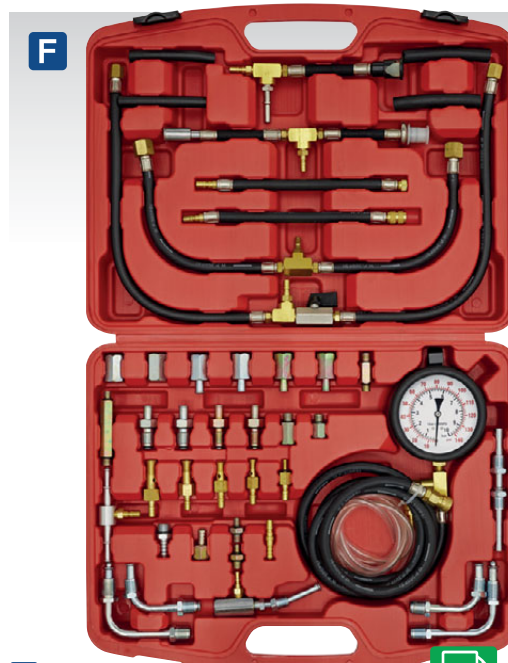
**12pc Fuel Line Blanks Set**

Set of 12 diesel fuel line blanks, mainly fitted to Ford, PSA and Renault. Contains six pairs of male and female connectors covering three different connector types. Ideal for stopping the flow of fuel after pipework has been disconnected.



**E VSE210**  
**Fuel Injection Pressure Test Kit**

Comprehensive kit of adaptors and fittings for modern petrol fuel injection systems. Components fitted with quick coupling system and safety valve to prevent inadvertent discharge of fuel under pressure. Supplied with large high pressure gauge reading 0-145psi and 0-1000kPa and a small low pressure gauge for accurate low pressure readings. Pressure release valve fitted with long drain hose allows safe recovery of fuel. Supplied in storage case.



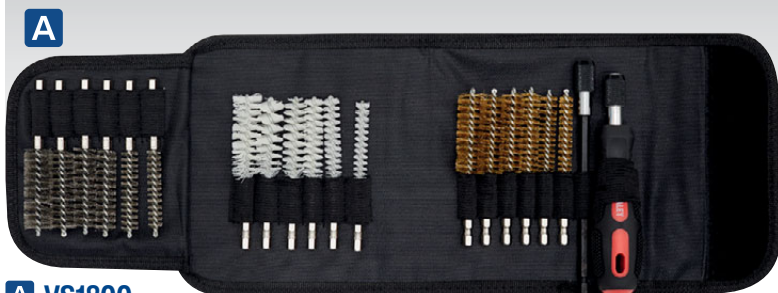
**F VSE212**  
**Fuel Injection Pressure Test Kit**

Comprehensive kit of hoses, adaptors and fittings for testing the pressure on modern petrol fuel injection systems. Fitted with quick couplings and safety valve to prevent inadvertent discharge of fuel under pressure. Supplied with Ø92mm single high pressure gauge with rubber bumper, reading 0-140psi and 0-10bar. Pressure release valve fitted with long drain hose allows safe recovery of fuel. Supplied in storage case.



**G VSE211**  
**Fuel Injection Pressure Test Kit - Test Port**

Comprehensive kit of adaptors and fittings for modern Schrader test port fuel injection systems. Components fitted with quick coupling system and safety valve to prevent inadvertent discharge of fuel under pressure. Supplied with large high pressure gauge reading 0-145psi and 0-1000kPa. Gauge has hanging hook and protective bumper. Pressure release valve fitted with long drain hose allows safe recovery of fuel. Supplied in storage case.



**A VS1800**

**20pc Cleaning & Decarbonising Brush Set**

Ideal for cleaning and decarbonising areas with limited access, especially injector apertures before refitting. Supplied in sizes from Ø9-19mm in brass, nylon and steel. Features quick release extension bar for increased reach.

Brush Fill/Overall:	50/100mm
Brush Sizes:	Ø9, 11, 13, 15, 17, 19mm
Brush Type:	Brass, Steel, Nylon
Extension Bar Length:	150mm
Quick Release Coupling Diameter:	Ø14mm



**B NEW**

**B VS1910**

**38pc Injector Bore Cleaning Brush Set**

Ideal for cleaning and decarbonising areas with limited access, especially injector apertures before refitting. One-Piece 150mm extension. Supplied in storage case.

Brush Sizes:	Ø8-19mm
Brush Type:	Brass, Steel, Nylon
Extension Bar Length:	150mm



**C NEW**

**C VS1900**

**14pc Injector Bore Cleaning Brush Set**

Ideal for cleaning and decarbonising areas with limited access, especially injector apertures before refitting. Set includes three brass brushes, two end brushes 15/19mm, one extension bar, one steel rod and six blanking plugs.

Brush Sizes:	Ø18, 20, 25mm
Brush Type:	Brass, Steel
Extension Bar Length:	200mm



**D NEW**

**D VS1920**

**2pc Injector Bore Cleaning Brush**

2-Piece injector bore cleaning brush set. Ideal for cleaning and decarbonising areas with limited access, especially injector apertures before refitting.

Brush Sizes:	Ø10-34.5mm, 15mm
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**E**

**E VS2055**

**10pc Diesel Injector Seat Cleaner Set**

Set of seven diesel injector seat cleaners, ream, centring pilot and T-handle. Used to clean/decarbonise injector seats when changing injectors. Helps to avoid blow-back due to poorly seated injectors. Suitable for a wide range of vehicles.

Centring Pilot:	7mm
Reamer Sizes & Applications:	15mm Flat; Various Vehicles, 17mm Flat (x2); Delphi/Bosch (BMW, PSA, Ford), Bosch (Mercedes CRD), 17mm Angled (x2); (Fiat, Iveco), 18mm Flat; Various Vehicles, 20mm Flat; Various Vehicles, 15.5mm Side Ream

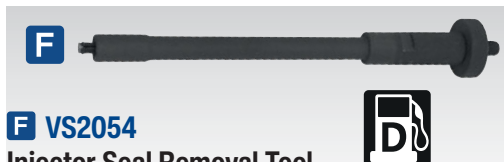


**G-I SEE BELOW**

**1/2" Sq Drive Injector Sockets**

Chrome Vanadium steel sockets for diesel injector removal and installation. Suitable for injectors fitted to Ford, Mitsubishi, Nissan, Vauxhall/Opel, VW and commercial vehicles.

	<b>G</b>	<b>H</b>	<b>I</b>
Model No:	SX024	SX041	SX042
Size:	27mm	22mm	21mm
Depth:	80mm	100mm	84mm



**F**

**F VS2054**

**Injector Seal Removal Tool**

Designed to remove the copper injector seal when it has stuck into the head. Adjusts to allow seals with Ø6.7-8.7mm internal diameter to be removed. Simply drop the tool into the hole left by the injector, tighten the handle and lift out the seal.

Minimum/Maximum Internal Size:	Ø6.7/8.7mm
Length:	265mm



**J**

**1/2" Sq Drive**

**J VS2061**

**4pc Injector Socket Set - Commercial**

Suitable for the removal and installation of truck and bus diesel injectors. Castellated socket fits common injectors on MAN, Mercedes, Neoplan and Setra. Also suitable for some Iveco, Renault and Scania vehicles.

Sizes:	1/2" Sq Drive x 72mm x 4-Tooth, 1/2" Sq Drive x 120mm x 3-Tooth, Hex 32mm x 70mm x 4-Tooth (M14 x 1.5mm Receiver Thread), Hex 32mm x 122mm x 4-Tooth for MAN, Mercedes, Neoplan, Setra
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**K**

**1/2" Sq Drive**

**K SX0401**

**6pc 1/2" Sq Drive Injector Window Socket Set**

Six, Chrome Molybdenum, open-sided, 1/2" Sq drive sockets for injector removal and installation.

Drive:	1/2" Sq
Sizes:	90 x 21mm, 80 x 22mm, 110 x 22mm, 80 x 27mm, 80 x 28mm, 83 x 28mm

**A**



**A VS2059**

**Injector Puller Set**

Suitable for the fast and safe removal of Bosch, Delphi, Denso and Siemens diesel injectors. Set includes keys and deep open profile sockets, used to dismantle injectors, plus adaptors for attaching the slide hammer securely to the body of the injector. Ball joint allows hammer to be used in confined areas. Supplied in storage case.

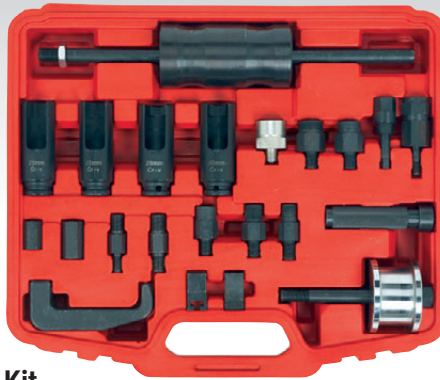
**Contents:** Slide Hammer, 1/2" Sq Drive Sockets; 25, 27, 29, 30mm, Tamperproof Key, Adaptor (x5) (Bosch, Delphi, Denso, Siemens), Ball Joint



**B**



**Master**

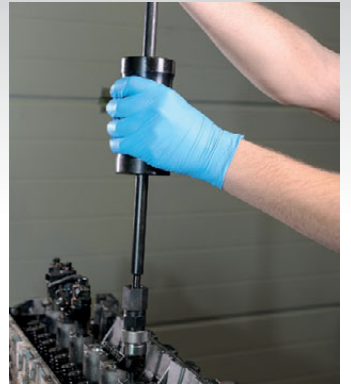


**B VS2064**

**Injector Master Kit**

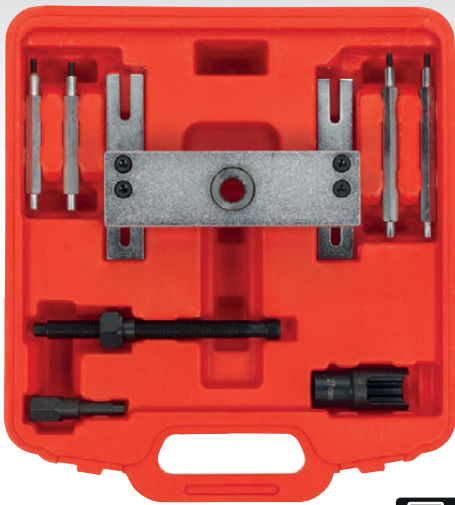
Suitable for the removal of Bosch, Delphi, Denso, Siemens and Pompe Duse diesel injectors. Set includes keys and deep open profile sockets, used to dismantle injectors, plus a selection of adaptors for attaching the slide hammer securely to the body of the injector. Ball joint and choice of two sizes of slide hammer allow access in confined areas if required. Supplied in storage case.

**Contents:** Slide Hammers; 1.3kg with 150mm Shaft, 4kg with 400mm Shaft, 4kg Slide Hammer Handle, Flexible Joint, 10mm Security Hex Key, Male Adaptors; 10 x 1.5, 16 x 1.5, 17 x 1, 20 x 1, 25 x 1, 27 x 1mm, Female Adaptors; 14 x 1.5, 27 x 1mm (3pc), Hexagonal Adaptors; 17mm (10 x 1.5 Female), 21mm (14 x 1.5 Female), C & J Adaptors (Pompe Duse), Claw Adaptor, Injector Cap Sockets 1/2" Sq Drive; 25, 27, 29, 30mm



**C**

**BMW**



**C VS2075**

**Injector Puller - BMW M47/M57**

Designed for removing BMW 2.0, 2.5, 3.0 diesel fuel injectors from M47/M57 engines. Allows the removal of seized injectors without the need to remove the cylinder head. Bridge fits perfectly on the cylinder head preventing damage to the area surrounding the injector. Also suitable for some Land Rover, MG and Vauxhall/Opel vehicles that share the same engine.

**Applications:** 2.0, 2.5, 3.0  
**Engine Codes:** M47/M57

**Contents:** Pulling Bridge, Bridge Leg (x4), 10mm Security Hex Key, Ø27mm Injector Cap Socket, Injector Force Screw Thread; Ø17mm Male x 1mm Pitch, Injector Force Screw Nut



**D NEW**



**D VS2077**

**Diesel Injector Puller - Ford EcoBlue 2.0L**

Suitable for Ford EcoBlue 2.0L engines. Extracts diesel two-piece injectors easily without damaging the injector or head. Equivalent to OEM 303-1690, 303-1690-01.

**Applications:** FORD EcoBlue 2.0L TDCi diesel engine. Transit 2014 onwards, Transit Custom 2012 onwards, Edge, Focus, Galaxy, Kuga, Mondeo, Ranger, S-Max, Ranger 2.0L EcoBlue Bi-Turbo Diesel: 2012.00 (04/2011-), Galaxy 2.0L EcoBlue Bi-Turbo Diesel: 2015.50 (01/2015-), S-MAX 2.0L EcoBlue Bi-Turbo Diesel: 2015.50 (01/2015-), Edge 2.0L EcoBlue Bi-Turbo Diesel: 2016.00 (08/2015-), Transit 2.0L EcoBlue Diesel - AWD, RWD: 2014.50 (08/2013-), Transit 2.0L EcoBlue Diesel - AWD, RWD: 2019.75 (10/2018-), Transit 2.0L EcoBlue Diesel - FWD: 2014.50 (08/2013-), Transit 2.0L EcoBlue Diesel - FWD: 2019.75 (10/2018-), Ranger 2.0L EcoBlue Diesel: 2012.00 (04/2011-), Transit Custom 2.0L EcoBlue Diesel: 2012.75 (04/2012-), Mondeo 2.0L EcoBlue Diesel: 2014.75 (10/2014-), Galaxy 2.0L EcoBlue Diesel: 2015.50 (01/2015-), S-MAX 2.0L EcoBlue Diesel: 2015.50 (01/2015-), Edge 2.0L EcoBlue Diesel: 2016.00 (08/2015-), Focus 2.0L EcoBlue Diesel: 2019.00 (01/2018-), Kuga 2.0L EcoBlue Diesel: 2020 (07/2019-)

**OEM:** 303-1690, 303-1690-01



**E**



**E VS2049**

**Bosch/Delphi Diesel Injector Puller Set**

Suitable for the removal of stubborn Bosch/Delphi diesel injectors. Set includes two adaptors for different removal methods. The first screws onto the injector cap and the second locates internally inside the injector allowing extra force to be used. Features a flexible joint allowing the slide hammer to be used in restricted areas. Supplied in storage case.

**Contents:** 1.8kg Slide Hammer, Flexible Joint, Adaptors (x2) - Ø17mm Male x 1mm Pitch, Ø27mm Female x 1mm Pitch, 10mm Security Hex Key, Injector Cap Socket



**F**



**F VS2040**

**Injector Lifter**

Designed to aid the removal of diesel injectors, limiting the risk of damage to injector and cylinder head. Set includes female adaptor for Ø12mm x 1.5mm injector pipe threads, plus mini slide hammer.

**Contents:** Female Adaptor; Ø12mm x 1.5mm Thread, 0.8kg Slide Hammer





**A VS7950**

**Diesel Injector Puller - Bosch**

Suitable for Bosch injectors fitted in a wide variety of diesel engines. Used in conjunction with a slide hammer (not included - see page 727).

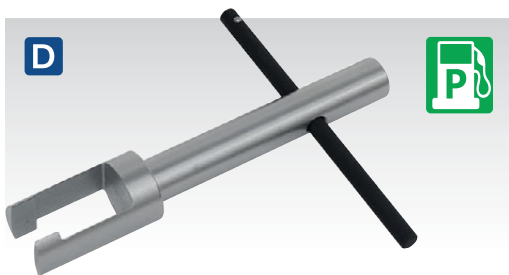


**C VS7940**

**Diesel Injector Puller - Kia/Hyundai**

Suitable for Hyundai and Kia D4CB engines. Used in conjunction with a slide hammer (not included - see page 727).

**Applications:** Hyundai; H200 (01-08), H300 (08-18), i800 (08-18), iLoad (08-18), Montana (11-18), Kia; Sorento (02-10)



**D VS9033**

**Injector Removal Tool Mercedes M271 Engine**

Injector removal tool for Mercedes M271 engine.

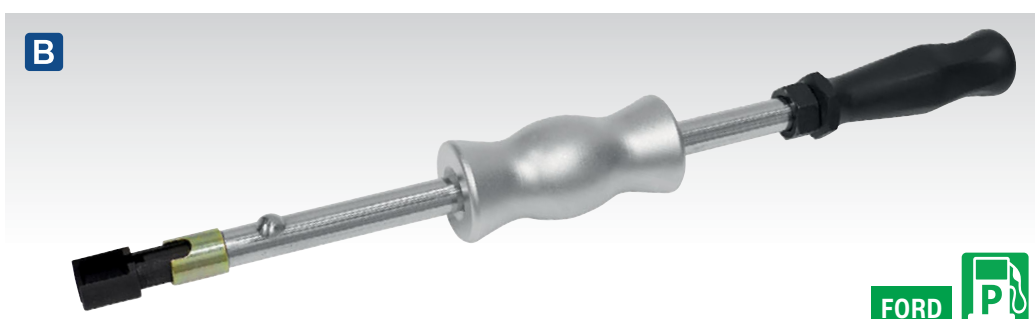


**G VS2068**

**8pc Diesel Injector Repair Socket Set**

Suitable for repairs on Bosch, Denso and Siemens injectors. 6.6, 7.6mm Hex security bits 20mm Hex/1/2" Sq Drive. 16mm 8-sided socket for Bosch common rail Injectors. Denso common rail injector valve seat removal tool. Injector ball valve lapping tools and guide. Manufactured from Chrome Vanadium steel and S45C. Supplied in storage case.

**Drive:** 1/2" Sq Drive  
**Applications:** Bosch, Denso and Siemens injectors



**B VS2067**

**Petrol Injector Puller - Ford EcoBoost**

Extracts petrol injectors easily without damaging the injector or head. Includes slide hammer and specially designed injector claw. Equivalent to OEM 310-206.

**Applications:** Ford; GDi & GTDi EcoBoost engine ranges from 1.0L to 2.3L

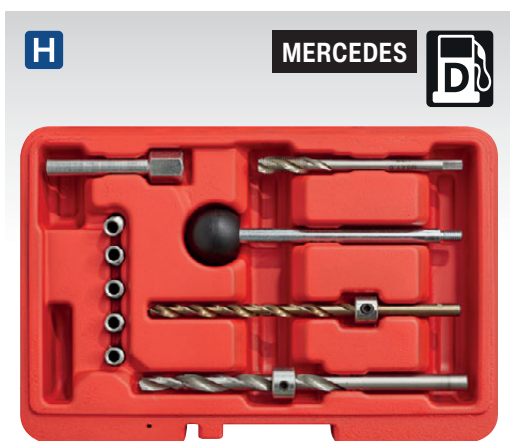


**E VS2541**

**Land Rover TD5 Injector Puller**

Suitable for Land Rover Defender (1999 - 2007), Discovery II (1998- 2005). TD5 Diesel engine codes 10P, 15P, 16P. Includes a slide hammer.

**Applications:** Land Rover Defender (1999 - 2007), Discovery II (1998- 2005)



**H VS640**

**Mercedes CDI Injector Stud Repair Kit**

Threaded insert repair kit for Mercedes CDI engine Injector clamping bolt. Enables a broken stud repair to be carried out with minimal dismantling. Contents: M8 x 1mm Tap, 7mm/8mm Stepped Drill, 6mm Drill, Drill Guide, Thread Insert Fitting Tool, M8 x 1mm Threaded Inserts (x5). Thread inserts available separately in packs of five.

**Associated Tool:** VS640RF - Thread Repair Insert Refill - Pack of 5 (see I).



**F VSE5217**

**Diesel Injector Puller - Jaguar, Land Rover**

Suitable for 2.7TDi V6 and 3.6TDi V8 common rail diesel engines. Applicable to 276DT and 368DT engine codes used in Jaguar and Land Rover vehicles.



**J PP100**

**0-30V Power Scope Automotive Probe**

For full details, see page 459.



**A NEW**

**A VS1910**  
**38pc Injector Bore Cleaning Brush Set**

Ideal for cleaning and decarbonising areas with limited access, especially injector apertures before refitting. Set includes brass, steel and nylon brushes Ø8-19mm, soft grip handle and one-piece 150mm extension. Supplied in storage case. For full specification, see page 484.



**C**

**MERCEDES**



**C VS2056**  
**Injector Puller - Mercedes CDI**

Specially designed for the removal of stubborn diesel injectors fitted on Mercedes CDI engines. Features injector cap removal socket, security hex key for removing the inner part of the injector, and a puller to remove the injector without damaging the cam cover. This engine type is fitted mainly to C-Class, E-Class and Sprinter vehicles. Supplied in storage case.

**Contents:** Puller Thread Size; Ø17mm x 1mm Pitch



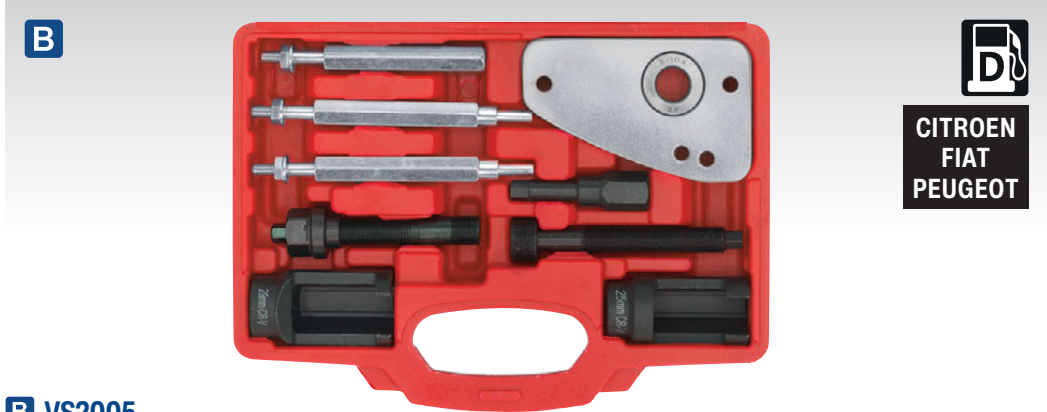
**E**



**E FSCD300**  
**Fuel System Cleaner - Diesel Engines**

For use in diesel powered vehicles, designed to remove resin deposits, prevent the oxidation of fuel and the growth of micro-organisms. Lubricates and protects the diesel injection system and the upper cylinder area. Suitable for all diesel engines including those fitted with a particle filter, turbocharger and catalytic converter. Pour directly into the fuel tank when refuelling, one 300ml can treats 80L of diesel fuel.

**Size:** 300ml



**B**



**CITROEN  
 FIAT  
 PEUGEOT**

**B VS2005**  
**Diesel Injector Puller - Citroen, Peugeot, Fiat**

Comprehensive set for removing Citroen/Peugeot 2.0/2.2Hdi 16v fuel injectors. Allows the removal of seized injectors without the need to remove the cylinder head. Bridge fits perfectly on the cylinder head preventing damage to the area surrounding the injector. Supplied in storage case.

**Applications:**

**Citroen 2.0Hdi:** C4 (04-13), C4 Picasso/Grand Picasso (06-13), DS4 (11-13), C5 (04-15), DS5 (12-15), C8 (02-10), Dispatch (99-12), Jumpy III (07-12)

**Citroen 2.2Hdi:** C5 (07-09), C6 (06-11), C8 (02-10), C-Crosser (07-12)

**Peugeot 2.0Hdi:** 307 (01-09), 308 (07-16), 3008 (02-15), 407 (04-12), 508 (11-16), 5008 (09-16), 607 (00-11), RCZ (10-15), Expert III (07-16)

**Peugeot 2.2Hdi:** 508 (11-15), 4007 (07-12), 607 (00-09), 807 (02-10)

**Fiat 2.0D Multijet:** Scudo (07-13)

**Contents:** Pulling Bridge, Bridge Leg (x3), 10mm Security Hex Key, Injector Cap Sockets; Ø25, Ø29mm, Injector Force Screw Threads; Ø17mm Male x 1mm Pitch, Ø25mm x 1mm Pitch, Injector Force Screw Nut



**D**

**MM 3/8" Sq Drive**

**D AK6985**  
**9pc 3/8" Sq Drive Injector Pipe Socket Set**

Set includes flexible 3/8" Sq drive adaptor, hinged at both ends for ease of access to confined areas and 10-17mm crow's foot injector pipe sockets. Supplied in a storage case.

**Contents:** Crow's Foot Injector Pipe Sockets: 3/8" Sq Drive; 10, 11, 12, 13, 14, 15, 16, 17mm



**G NEW**

**3/8" Sq Drive**



**G AK6900**  
**17mm Multi-point 3/8" Sq Drive Fuel Pipe Socket**

Fuel pipe socket, 3/8" Sq drive 17mm multi-point end. Suitable for removing and installing high pressure fuel pipes. Manufactured from Chrome Vanadium.



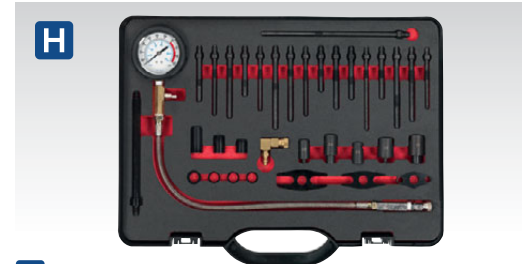
**F**



**F FSCP300**  
**Fuel System Cleaner - Petrol Engines**

High performance fuel system cleaner for all petrol engines. Removes varnish and gum deposits from the entire fuel system. One can sufficient for 60 to 80L of petrol, add to the fuel tank before refuelling.

**Size:** 300ml

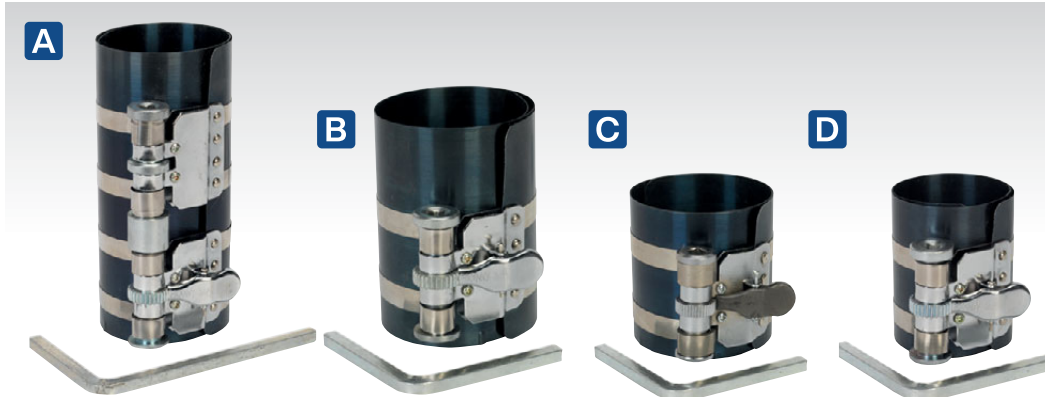


**H**

**H VSE3158**  
**Compression Test Kit**

For more information, see page 430.

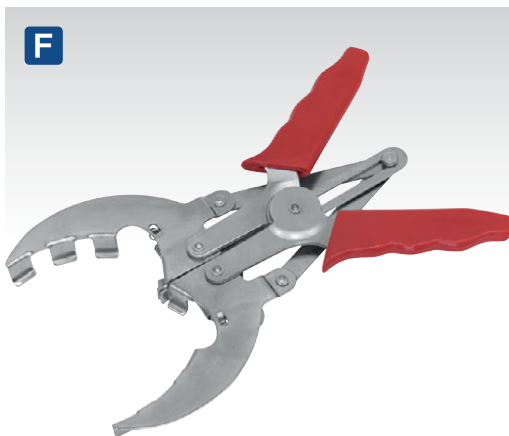




**A-D SEE BELOW**  
**Piston Ring Compressors**

Quality construction with sprung steel wraps and ratchet action tension mechanism. Supplied with steel key.

	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
<b>Model No:</b>	VS158	VS157	VS156	VS155
<b>Depth:</b>	150mm	100mm	75mm	75mm
<b>Capacity:</b>	Ø60-150mm	Ø60-150mm	Ø60-175mm	Ø60-125mm



**F VS164**  
**Ø40-100mm Piston Ring Installation Pliers**  
Designed for the installation and removal of Ø40-100mm piston rings. Jaws are shaped to protect the piston ring from damage. Vinyl gripped handles with spring-return mechanism.



**G VS164**  
**Piston Ring Pliers 1.2-5mm Capacity**  
Installs and removes piston rings from 1.2mm to 5mm. Vinyl gripped handles with spring-return mechanism.



**I VS148**  
**Piston Ring Groove Cleaner**  
Fast and reliable removal of carbon and glaze deposits from piston ring grooves. Suitable for pistons between Ø51mm and Ø127mm. Supplied with three 6-bladed cutters covering most popular piston groove sizes.

<b>Cutter #1:</b>	1/16", 5/64", 3/32", 1/8", 5/32", 3/16"
<b>Cutter #2:</b>	2, 2.5, 3, 4, 4.5mm, 1/4"
<b>Cutter #3:</b>	1.2, 1.5, 1.8, 2.8, 5, 5.5mm



**J VS173**  
**Camshaft Positioning Tool**  
Adjustable legs allow insertion of pegs into holes in camshaft pulleys. Suitable for coarse and fine positioning of camshaft for timing on a variety of engines including Ford Zeta and Zetec.

<b>Length:</b>	385mm
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**K GSA70**  
**Ø50mm Disc Air Orbital Sander**  
For more information, see page 817.



**E VS8113**  
**Ø8mm Wi-Fi Borescope**  
Ø8mm Wi-Fi Borescope, compatible with iOS, Android and Windows operating system. IP67 Rated camera and cable up to LED light control switch. Up to 720HD resolution. 2m Pixel camera with six LEDs and a 800mAh battery. The kit includes charging cable, hook, magnet and side mirror. Cable length of 5m. Transmission distance within 5-30m.

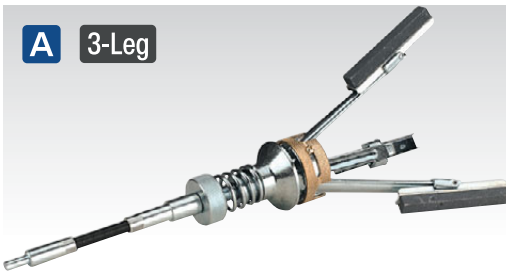
<b>Camera:</b>	Ø8mm
<b>Camera Probe Length:</b>	5m
<b>Viewing Angle:</b>	70°
<b>Pod Length:</b>	45mm
<b>Adjustable Light Control:</b>	✓
<b>Optional Probes:</b>	✗
<b>Record Function (Video &amp; Still):</b>	✓
<b>Screen Resolution:</b>	640 x 480, 1280 x 720 pixels
<b>Mirror Flip/Rotate Function:</b>	✓
<b>Power Source:</b>	800mAh Battery
<b>Accessories:</b>	45° Mirror, Magnetic Pick-Up & Hook



**H VS8233A**  
**Ø6mm Video Borescope - Articulated**  
Portable articulated borescope supplied with 70mm TFT colour display. Mini waterproof (IP67) camera with integral light (Ø6mm) mounted on 800mm flexible 2-way articulated probe. Using an attached dial, the camera head angle can be changed by up to 350° without having to remove camera from inspection area. Using 8GB micro SD card (supplied) up to 9hrs of video and 20000 still images can be recorded. Videos and still images can be downloaded to a PC via USB data cable (supplied). CMOS camera with six LED probe light and a focus distance of 20-50mm for fine control of light output and clear pictures. Potential applications; automobile maintenance, engine inspection, pipe line exploration etc. Powered by 4x AA batteries (not included).

<b>Camera:</b>	Ø6mm
<b>Camera Probe Length:</b>	800mm
<b>Viewing Angle:</b>	60°
<b>Pod Length:</b>	20mm
<b>Screen Size:</b>	70mm
<b>Screen Resolution:</b>	640 x 480 pixels (Colour)





**A** 3-Leg

**A VS162**  
**Triple Leg Cylinder Hone**  
**75mm Medium Stones**

For removal of heat glaze and carbon deposits on cylinder walls. Fitted with 75mm, medium grade cutting stones and suitable for cylinders up to Ø175mm. Range collar adjusts arm travel between Ø50mm and Ø100mm or Ø100mm and Ø175mm. Adjustable spring tension gives finish control.

**Size:** Ø50-175mm



**D**

**D SEE BELOW**  
**Replacement Stone Sets for VS162**

Model No:	Grade:	Pack Quantity:
VS1621	Medium	3 Stones
VS1622	Course	3 Stones
VS1623	Fine	3 Stones

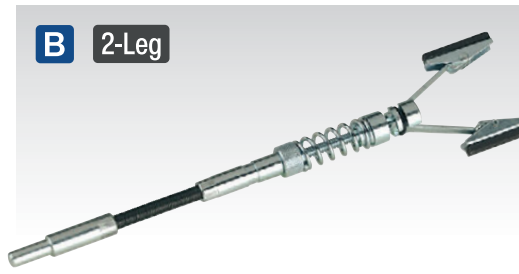


**F**

**F VS029**  
**4-in-1 Cylinder Hone Kit**

Four cylinder-honing tools in one kit covering 18mm to 89mm cylinder bores. Suitable for honing and de-glazing car brake and clutch cylinders plus motorcycle, outboard and lawnmower engine cylinders. Adjustable honing pressure and flexible drive shaft. Kit includes an assortment of 220 Grit stones. Supplied in storage case.

Leg Configuration:	Bore Sizes:
Large Triple:	Ø32-89mm
Small Triple:	Ø19-68mm
Standard Twin:	Ø18-64mm
Stone Sizes:	3 x 18, 3 x 28, 3 x 50mm



**B** 2-Leg

**B VS022**  
**Twin Leg Cylinder Hone**

Flexible drive shaft and adjustable cutting control. Fitted with 28.5mm (1-1/8") medium grade stones with adjustable capacity from Ø20 to 64mm. Suitable for small brake cylinders.

**Size:** Ø20-64mm



**B**



**C** 3-Leg

**C VS023**  
**Triple Leg Cylinder Hone**

Flexible drive shaft and adjustable cutting control. Fitted with 28.5mm (1-1/8") medium grade stones with adjustable capacity from Ø25 to 64mm. Suitable for small and medium sized brake cylinders.

**Size:** Ø25-64mm



**E**

**E SEE BELOW**  
**Replacement Stone Sets for VS022 & VS023**

Model No:	Grade:	Pack Quantity:
VS0221	Medium	3 Stones
VS0222	Fine	3 Stones

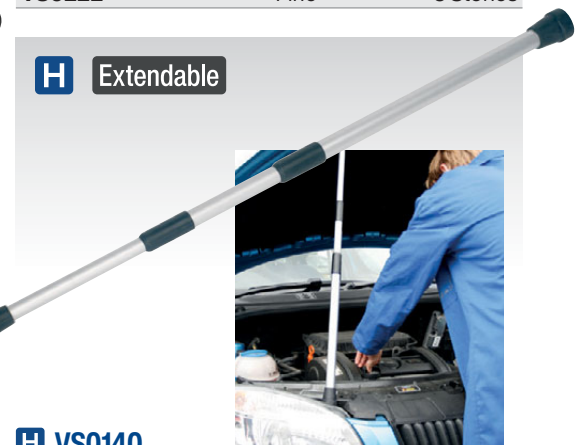


**G**

**G VS809**  
**Adaptive Cruise Control**  
**Adjustment Tool - VAG**

For adjusting the adaptive cruise control (ACC) RADAR unit. Equivalent to VAG tool VAS6190/2. Manufactured from Chrome Vanadium with satin finish.

**Overall Length:** 256mm



**H** Extendable

**H VS0140**  
**1.2m Telescopic Bonnet/Tailgate Support**

Three tier telescopic aluminium tailgate/bonnet support with tough rubber pads at each end. Lock in any position with a simple twist. Also suitable for holding open doors, depressing clutch, brake or accelerator pedals.

**Length:** 540-1200mm



**I**

**I VS2033**  
**12mm 3/8\"/>**

Designed to access the turbocharger fitting located underneath the turbocharger. Suitable for VAG diesel vehicles. Manufactured from Chrome Vanadium steel.

**Size:** 12mm



**A**



**A VS1823**  
**10pc Valve Seat Cutter Set**

Suitable for re-cutting inlet/exhaust valve seats concentric to the valve guides. Features tungsten carbide cutting blades, expandable pilots and double end cutters for increased application. Supplied in storage case.

<b>Pilot Range:</b>	5.5, 7-10mm
<b>Cutter Sizes:</b>	Ø28-37mm; 30°, 45° and 75°, Ø37-44mm; 75°, Ø37-46mm; 45° and 60°

**B**



**B VS1825**  
**14pc Valve Seat Cutter Set**

Suitable for re-cutting inlet/exhaust valve seats concentric to the valve guides. Features tungsten carbide cutting blades, expandable pilots and double end cutters for increased application. Supplied in storage case.

<b>Pilot Range:</b>	5.5, 7-13mm
<b>Cutter Sizes:</b>	Ø28-37mm; 30°, 45° and 75°, Ø37-44mm; 75°, Ø37-46mm; 45° and 60°, Ø37-46mm; 30°, Ø44-52mm; 75°, Ø46mm; 45°, Ø60mm; 30°, Ø52mm; 75°, Ø65mm; 60°

**C**

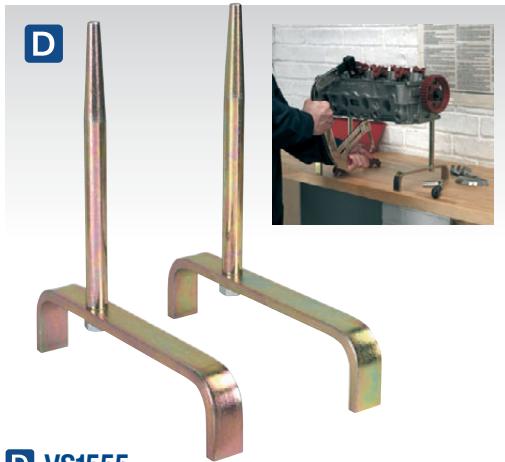


**C VS1653**  
**2pc Valve Grinder Set**

Set of two valve grinders with wooden shafts. Suitable for grinding most engine valves. Features four sizes of rubber suction cup.

<b>Suction Cup Sizes:</b>	Ø15, 20, 28, 34mm
<b>Shaft Lengths:</b>	210, 225mm

**D**



**D VS1555**  
**Cylinder Head Stands**

A pair of support stands which locate into cylinder head via stud holes. Also provides the clearance between head and workbench required when reaming valve guides.

<b>Pin Diameter:</b>	Ø16mm
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**E**

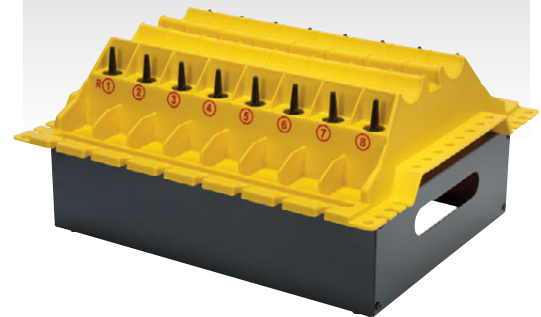


**E AK709**  
**10pc Gasket Punch Set**

Carbon steel body with spring loaded centring pin. Suitable for cutting gasket material, cork or leather. Supplied in storage case with nine dies.

<b>Contents:</b>	Dies; Ø5, Ø6, Ø8, Ø10, Ø12.5, Ø16, Ø20, Ø25, Ø32mm, Punch
------------------	---

**F**



**F VSR01**  
**Cylinder Head Component Organizer**

An essential item for a cylinder head rebuild. Keeps all components neat and tidy as they come off the cylinder head. Saves time and frustration.

**G**



610mm Length

**G VS1481**  
**610mm Technician's Straight Edge**

Suitable for testing for distortion on cylinder heads and engine blocks during engine overhauls and rebuilds. May be used with feeler gauges for high precision work. Features peg hole for easy storage. Supplied with protective edging for when not in use.

**H**



600mm Length

**H VS1480**  
**600mm Precision Straight Edge**

Suitable for testing for distortion on cylinder heads and engine blocks during engine overhauls and rebuilds. May be used with feeler gauges for high precision work. Supplied in storage case.

**I**



**I DBG5010**  
**50-160mm Dial Bore Gauge**

Precision mechanism with Ø55mm dial and locking rotating bezel, offering an accurate method of measuring a bore or detecting a taper or ovality. Will indicate the deviation from set size by up to 3mm with an accuracy of 0.01mm. Probe body, dial indicator, anvils and spacer rings are also included. Supplied in wooden storage case.

<b>Dial Diameter:</b>	Ø55mm
<b>Maximum Deviation Measurement with Stem:</b>	1mm
<b>Maximum Deviation Measurement, Gauge:</b>	3mm
<b>Range:</b>	50-160mm

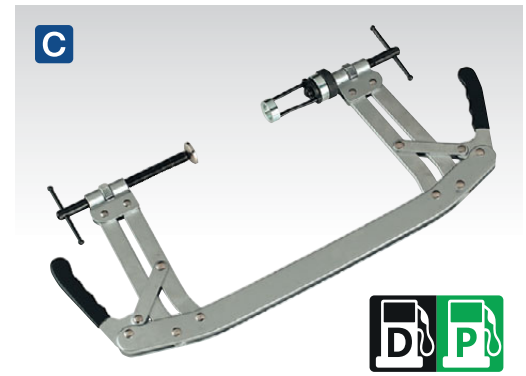
MM



**A VS152**  
**OHV Valve Spring Compressor**  
 Suitable for most small and medium sized OHV engines. Fully adjustable jaw with 75-165mm capacity and 150mm throat depth. Parallel lift action with automatic lock.



**B VS153**  
**OHC/OHV/CVH Valve Spring Compressor**  
 Suitable for most small and medium sized OHC engines and also for general use on OHV and CVH engines. Universal jaw with 60-155mm capacity and 160mm throat depth. Parallel lift action with automatic lock.



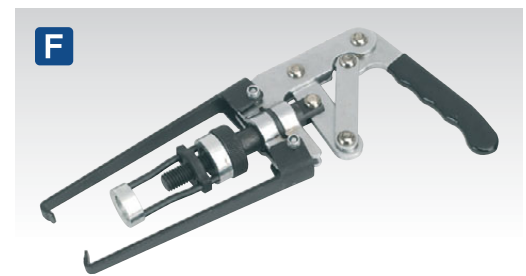
**C VS154**  
**Valve Spring Compressor - Multi-Valve**  
 Suitable for use on multi-valve petrol and diesel engines with deep-seated valves. Suitable also for general use on OHC, OHV and CVH engines. Universal jaw with 55-175mm capacity and 165mm throat depth. Reversible jaw and adaptor. Twin cam-action permits use from above or below valve.



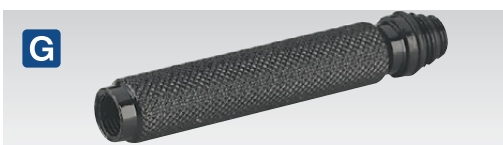
**D VS168**  
**OHV Valve Spring Compressor**  
 Suitable for the replacement of valve springs and valve stem oil seals without the need to remove the cylinder head. Use in conjunction with Model No. VS1601 compressed air adaptor. Adjustable handle, claws and hooks allow use on most OHV engines.  
**Note:** Not suitable for vehicles with deep-seated valves.



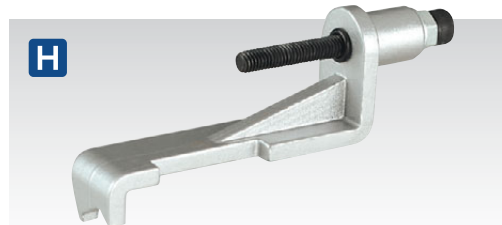
**E VS1542**  
**Valve Collet Remover/Installer**  
 For quick removal/installation of valve collets, firmly push or tap tool with a hammer, magnet in tool captures collets. Can be used with cylinder head in situ or on workbench. Ideal for replacing broken valve springs or valve stem oil seals without removing the head from the engine. For in situ use, a suitable adaptor (not included) will be required to allow compressed air into the combustion chamber to hold the valve closed while compressing the valve spring.



**F VS160**  
**OHV Valve Spring Compressor**  
 Permits valve springs and valve stem oil seals to be replaced without the need to remove the cylinder head when used in conjunction with Model No. VS1601 Compressed Air Adaptor. Reversible jaw adaptor and automatic cam-action lock to preset spring tension. Suitable for use on a wide range of OHV, OHC and CVH engines.  
**Note:** Not suitable for engines with deep-seated valves.



**G VS1601**  
**Compressed Air Adaptor**  
 Use with the Model No's VS160 or VS168 to hold the valves closed whilst spring is compressed. Spark plug adaptor with M14 and M18 threaded fittings for car and light commercial use. Valve assembly maintains cylinder pressure when air supply is cut. Requires a 90-125psi supply. Requires standard bayonet air line coupling (not included).



**H VS151**  
**Rocker Arm & Valve Compensator Tool**  
 Suitable for use on Vauxhall/Opel OHC engines. Permits quick, on-vehicle, removal of rocker arm and valve play compensator. Mounts on camshaft housing. Cast construction with knurled hex head fixing.



**I VS1651**  
**Valve Collet Installer/Remover 8/16/24 Valve**  
 Spring loaded shaft and clips aid simple and secure installation of valve spring collets. Quick and easy retrieval of lost collets using magnetic tip. Suitable for 8, 16 and 24 valve engines. Ideal for use on heads with recessed valves.



**J VS150**  
**CVH Valve Spring Compressor - Ford**  
 Permits valve stem seal and valve spring replacement without the need to remove the cylinder head. Superior cast design with radiused fulcrum for smooth spring compression. Suitable for CVH Ford engines 1.3, 1.4 and 1.6 as fitted to Escort (inc. XR3i and RS Turbo) and Fiesta (inc. RS Turbo).

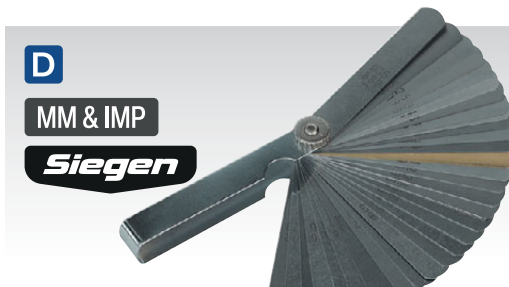


**K VS1671**  
**Valve Stem Seal Pliers**  
**Long Stem Straight 16/24 Valve**  
 Steel long stem aids removal and installation of valve stem seals on 16 and 24 valve OHC engines. Serrated tips aid grip. Especially suited to stubborn seals.

Length:	220mm
Valve Suitability:	8/16/24
Length:	270mm



**A S0517**  
**13 Blade Feeler Gauge - Metric**  
 Blade dimensions 95 x 10mm.  
**Blade Sizes:** 0.050, 0.100, 0.150, 0.200, 0.250, 0.300, 0.400, 0.500, 0.600, 0.700, 0.800, 0.900, 1mm



**D S0514**  
**32 Blade Feeler Gauge - Dual Marked**  
 Includes 0.010" (0.254mm) brass blade for non-magnetic applications. Blade dimensions 90 x 13mm.  
**Blade Sizes:**  
**Imperial:** 0.0015", 0.002", 0.0025", 0.003", 0.004", 0.005", 0.006", 0.007", 0.008", 0.009", 0.010", 0.011", 0.012", 0.013", 0.014", 0.015", 0.016", 0.017", 0.018", 0.019", 0.020", 0.021", 0.022", 0.023", 0.024", 0.025", 0.026", 0.028", 0.030", 0.032", 0.035" + 0.010" Brass  
**Metric:** 0.038, 0.051, 0.063, 0.076, 0.102, 0.127, 0.152, 0.178, 0.203, 0.229, 0.254, 0.279, 0.305, 0.330, 0.356, 0.381, 0.406, 0.432, 0.457, 0.483, 0.508, 0.553, 0.559, 0.584, 0.610, 0.635, 0.660, 0.771, 0.762, 0.813, 0.889 + 0.254mm Brass



**G S0516**  
**12 Blade Offset Feeler Gauge - Dual Marked**  
 Imperial and Metric. Offset tips are essential for checking tolerances on OHC configurations and suitable for other applications where straight blades will not fit. Sizes 0.008" to 0.026" (0.203 to 0.660mm). Blade dimensions 95 x 13mm (45°-25mm offset).  
**Blade Sizes:**  
**Imperial:** 0.008", 0.010", 0.012", 0.013", 0.014", 0.015", 0.016", 0.018", 0.019", 0.020", 0.025", 0.026"  
**Metric:** 0.203, 0.254, 0.305, 0.330, 0.356, 0.381, 0.406, 0.457, 0.483, 0.508, 0.635, 0.660mm



**B S0518**  
**13 Blade Feeler Gauge - Imperial**  
 Blade dimensions 100 x 10mm.  
**Blade Sizes:** 0.002", 0.004", 0.006", 0.008", 0.010", 0.012", 0.016", 0.020", 0.024", 0.028", 0.032", 0.036", 0.040"



**E VS512**  
**35 Blade Feeler Gauge - Dual Marked**  
 Blade dimensions 75 x 13mm.  
**Blade Sizes:**  
**Imperial:** 0.0015", 0.002", 0.003", 0.004", 0.005", 0.006", 0.007", 0.008", 0.009", 0.010", 0.011", 0.012", 0.013", 0.014", 0.015", 0.016", 0.017", 0.018", 0.019", 0.020", 0.021", 0.022", 0.023", 0.024", 0.025", 0.026", 0.027", 0.028", 0.029", 0.030", 0.031", 0.032", 0.033", 0.034", 0.035"  
**Metric:** 0.038, 0.051, 0.076, 0.102, 0.127, 0.152, 0.178, 0.203, 0.229, 0.254, 0.279, 0.305, 0.330, 0.356, 0.381, 0.406, 0.432, 0.457, 0.483, 0.508, 0.533, 0.559, 0.584, 0.610, 0.635, 0.660, 0.686, 0.711, 0.737, 0.762, 0.787, 0.813, 0.838, 0.864, 0.889mm



**H S0515**  
**26 Blade Offset Feeler Gauge - Dual Marked**  
 Offset tips are essential for checking tolerances on OHC configurations and suitable for other applications where straight blades will not fit. Blade dimensions 100 x 12.7mm (45°-25mm offset).  
**Blade Sizes:**  
**Imperial:** 0.005", 0.006", 0.007", 0.008", 0.009", 0.010", 0.011", 0.012", 0.013", 0.014", 0.015", 0.016", 0.017", 0.018", 0.019", 0.020", 0.021", 0.022", 0.023", 0.024", 0.025", 0.026", 0.027", 0.028", 0.029", 0.030"  
**Metric:** 0.127, 0.152, 0.178, 0.203, 0.229, 0.254, 0.279, 0.305, 0.330, 0.356, 0.381, 0.406, 0.432, 0.457, 0.483, 0.508, 0.533, 0.559, 0.584, 0.610, 0.635, 0.660, 0.686, 0.711, 0.737, 0.762mm



**C VS511**  
**15 Blade Feeler Gauge - Metric**  
 Blade dimensions 75 x 13mm.  
**Blade Sizes:** 0.06, 0.07, 0.08, 0.10, 0.15, 0.20, 0.25, 0.30, 0.35, 0.40, 0.45, 0.50, 0.55, 0.60, 0.70mm



**F VS513**  
**36 Blade Combination Steel/Brass Feeler Gauge - Dual Marked**  
 30 Steel blades and six brass blades for non-magnetic applications on electronic ignition systems. Blade dimensions 75 x 13mm.  
**Blade Sizes:**  
**Imperial Steel:** 0.002", 0.0025", 0.003", 0.004", 0.005", 0.006", 0.007", 0.008", 0.009", 0.010", 0.011", 0.012", 0.013", 0.014", 0.015", 0.016", 0.017", 0.018", 0.019", 0.020", 0.021", 0.022", 0.023", 0.024", 0.025", 0.026", 0.028", 0.030", 0.032", 0.035"  
**Imperial Brass:** 0.006", 0.008", 0.010", 0.012", 0.014", 0.016"  
**Metric Steel:** 0.051, 0.063, 0.076, 0.102, 0.127, 0.152, 0.178, 0.203, 0.229, 0.254, 0.279, 0.305, 0.330, 0.356, 0.381, 0.406, 0.432, 0.457, 0.483, 0.508, 0.533, 0.559, 0.584, 0.610, 0.635, 0.660, 0.711, 0.762, 0.813, 0.889mm  
**Metric Brass:** 0.152, 0.203, 0.254, 0.305, 0.356, 0.406mm



**I VS515**  
**26 Blade Offset Feeler Gauge - Dual Marked**  
 Offset tips are essential for checking tolerances on OHC configurations and suitable for other applications where straight blades cannot reach. Blade dimensions 75 x 13mm (45°-15mm offset).  
**Blade Sizes:**  
**Imperial:** 0.005", 0.006", 0.007", 0.008", 0.009", 0.010", 0.011", 0.012", 0.013", 0.014", 0.015", 0.016", 0.017", 0.018", 0.019", 0.020", 0.021", 0.022", 0.023", 0.024", 0.025", 0.026", 0.027", 0.028", 0.029", 0.030"  
**Metric:** 0.127, 0.152, 0.178, 0.203, 0.229, 0.254, 0.279, 0.305, 0.330, 0.356, 0.381, 0.406, 0.432, 0.457, 0.483, 0.508, 0.533, 0.559, 0.584, 0.610, 0.635, 0.660, 0.686, 0.711, 0.737, 0.762mm



**A** MM & IMP

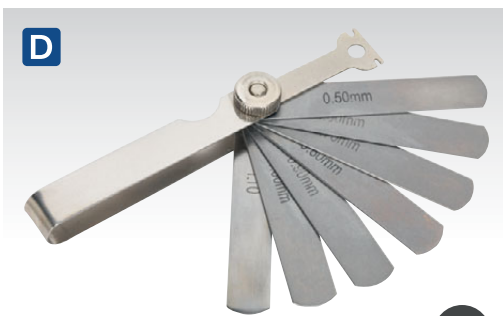
**A VS516**  
**25 Blade Extra-Long Feeler Gauge**  
**Dual Marked**

Extra-Long blade pattern. Dimensions 300 x 13mm.

**Blade Sizes:**

**Imperial:** 0.0015", 0.002", 0.003", 0.004", 0.005", 0.006", 0.007", 0.008", 0.009", 0.010", 0.011", 0.012", 0.013", 0.014", 0.015", 0.016", 0.017", 0.018", 0.019", 0.020", 0.021", 0.025", 0.027", 0.030", 0.040"

**Metric:** 0.038, 0.076, 0.102, 0.127, 0.152, 0.178, 0.203, 0.229, 0.254, 0.279, 0.305, 0.330, 0.356, 0.381, 0.406, 0.432, 0.457, 0.483, 0.508, 0.051, 0.533, 0.635, 0.686, 0.762, 1.02mm



**D**

**D VS518**  
**Spark Plug Feeler Gauge**

Specially designed for gapping spark plugs and suitable for both traditional copper and precious metal plugs. Features an electrode adjuster allowing the electrode to be adjusted without levering against the core which can be easily damaged. Blade dimensions 75 x 13mm.

**Blade Sizes:** 0.5, 0.6, 0.7, 0.8, 0.9, 1, 1.1mm



**I**

**I VS1801**  
**2pc Decarbonising Brush Set**

Brassed and crimped steel brushes with flat and pointed fill. Suitable for decarbonising cylinder head ports and components.

<b>Trim Diameter (Flat/Pointed):</b>	Ø15mm, Ø12mm
<b>Trim Length (Flat/Pointed):</b>	25mm
<b>Shank Diameter:</b>	Ø6mm

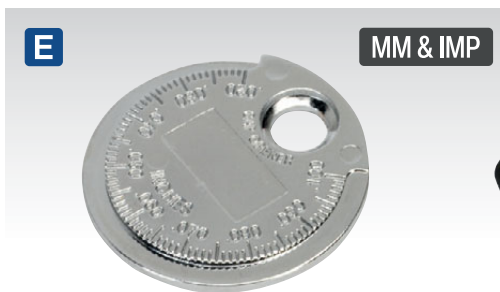


**B**

**1/2"**  
Sq Drive

**B VS431**  
**1/2"Sq Drive Clip-On Angular Torque Gauge**

Steel dial and rotating index line allows operator to accurately tighten cylinder head bolts and other fixings to manufacturer's exact specifications. Long reach flexi arm with clip end provides extra stability and precision.



**E**

MM & IMP

**E VS119**  
**Ramp Type Spark Plug Gauge**

Mechanic's plug gap tool adjusts plug gap in graduated ramp sequence. Dual marked in Imperial from 0.020" to 0.100" and Metric from 0.6 to 2.4mm.



**G**

**H**

**G-H SEE BELOW**  
**Decarbonising Brushes**

Flat trimmed brushes with brassed and crimped filaments.

Model No:	Trim Length:	Trim Diameter:
<b>G VS1802</b>	20mm	Ø13mm
<b>H VS1803</b>	28mm	Ø25mm

**J AK5538**  
**10pc 1/2"Sq Drive Head Bolt Socket Bit Set**

Contents:	
<b>Length 60mm:</b>	M12 (Ribe), T70 (TRX-Star*)
<b>Length 97mm:</b>	M14 (Security Spline)
<b>Length 100mm:</b>	M9 (Ribe)
<b>Length 117mm:</b>	M12 (Ribe)
<b>Length 150mm:</b>	E12 (TRX-Star* Socket), T60H (Security TRX-Star*), M10 (Spline), 10mm (Hex), M10 (Ribe)



**C**

**1/2"**  
Sq Drive

**C VS530**  
**1/2" Sq Drive Angular Torque Gauge**

Designed to be used with any 1/2"Sq drive breaker bar. Tough composite dial and rotating index line allow operator to accurately tighten fixing to manufacturer's exact specification. Supplied with fully adjustable reaction arm. Essential measuring tool for the busy workshop.



**F**

**F VS1800**  
**20pc Cleaning & Decarbonising Brush Set**

Ideal for cleaning and decarbonising areas with limited access, especially injector apertures before refitting. Supplied in sizes from Ø9 to 19mm in brass, nylon and steel. Features quick release extension bar for increased reach.

<b>Brush Type:</b>	Brass, Steel, Nylon
<b>Brush Fill/Overall:</b>	50/100mm
<b>Brush Sizes:</b>	Ø9, 11, 13, 15, 17, 19mm
<b>Extension Bar Length:</b>	150mm
<b>Quick Release Coupling Diameter:</b>	Ø14mm



**F**



**J**

**1/2"**  
Sq Drive

**A VS260**

**1750W Induction Heater**

Mobile induction heater for fast heat delivery. Install appropriate coil and place over or around ferrous metal. Ideal for loosening stubborn and seized fixings. Supplied with two attachable front coils, flexible coil for a customized fit, also a flat coil for heating flat metal and straightening small dents in car bodies. Also suitable for plastic trim/sticker removal and many other applications. Supplied in storage case.

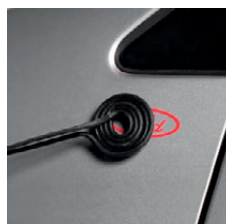
<b>Power:</b>	1750W
<b>Frequency:</b>	50Hz
<b>Supply/Plug Type:</b>	230V/3-Pin
<b>Power Supply Cable Length:</b>	1.5m
<b>Contents:</b>	Direct Coil; Ø20, Ø30mm, Pad Coil; Ø65mm, Flexible Coil; 785mm



**A NEW**

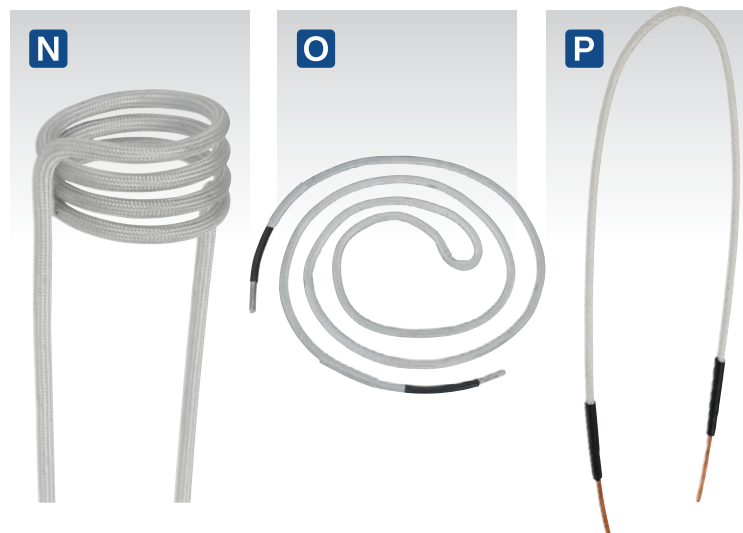
**230V**

**1750W**



**B-P SEE BELOW**  
**Induction Coils**

Model No:	Type:	Size:	Suitability:
<b>B VS2301</b>	Direct Coil	Ø15mm	VS230, VS240, VS250, VS260
<b>C VS2302</b>	Side Coil	Ø15mm	VS230, VS240, VS250, VS260
<b>D VS2303</b>	Direct Coil	Ø20mm	VS230, VS240, VS250, VS260
<b>E VS2304</b>	Side Coil	Ø20mm	VS230, VS240, VS250, VS260
<b>F VS2305</b>	Direct Coil	Ø28mm	VS230, VS250, VS260
<b>G VS2306</b>	Side Coil	Ø28mm	VS230, VS250, VS260
<b>H VS2307</b>	Direct Coil	Ø32mm	VS230, VS250, VS260
<b>I VS2308</b>	Side Coil	Ø32mm	VS230, VS250, VS260
<b>J VS2309</b>	Pad Coil	Ø55mm	VS230, VS240, VS250, VS260
<b>K VS2310</b>	Flexible Coil	920mm	VS230, VS250, VS260
<b>L VS2311</b>	Induction Block	(W x D x H): 50 x 30 x 35mm	VS230, VS250
<b>M VS23111</b>	Induction Adaptor	Ø29mm	VS230, VS250
<b>N VS2407</b>	Direct Coil	Ø32mm	VS240, VS260
<b>O VS2410</b>	Flexible Coil	830mm	VS240, VS260
<b>P VS2411</b>	U-Coil	430mm	VS240, VS260



**A VS240**  
**1000W Induction Heater**

Mobile induction heater for fast heat delivery. Install appropriate coil and place over or around ferrous metal. Ideal for loosening stubborn and seized fixings. Supplied with induction pad for plastic trim/sticker removal. Induction element delivers high heat fast and effectively. Supplied in storage case.

Frequency:	50Hz
Power:	1000W
Supply/Plug Type:	230V/3-Pin
Power Supply Cable Length:	2.8m

Contents:	
Model No:	
<b>B VS2407</b>	Ø32mm Direct Coil
<b>C VS2410</b>	830mm Flexible Coil
<b>D VS2411</b>	430mm U-Coil
<b>E VS2303</b>	Ø20mm Direct Coil
<b>F VS2309</b>	Ø55mm Pad Coil

**G VS230**  
**2000W Induction Heater**

Mobile induction heater for fast heat delivery. Install appropriate coil and place over or around ferrous metal. Ideal for loosening stubborn and seized fixings. Supplied with special dent induction block for panel expansion and induction pad for plastic trim/sticker removal. Induction element delivers high heat fast and effectively. Supplied in storage case.

Frequency:	50Hz
Power:	2000W
Supply/Plug Type:	230V/3-Pin
Power Supply Cable Length:	2m

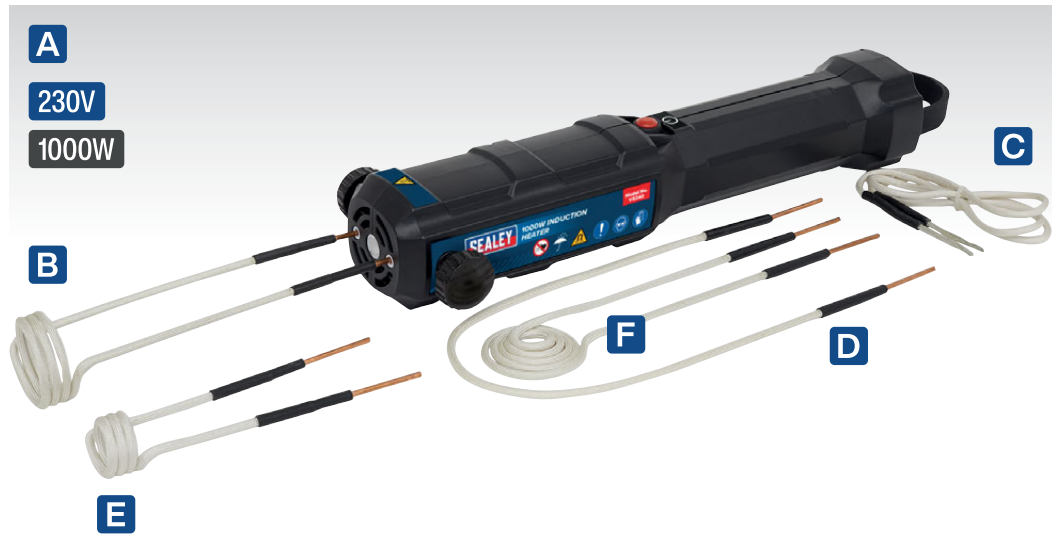
Contents:	
Model No:	
<b>H VS2303</b>	Ø20mm Direct Coil
<b>I VS2305</b>	Ø30mm Direct Coil
<b>J VS2304</b>	Ø20mm Side Coil
<b>K VS2306</b>	Ø30mm Side Coil
<b>L VS2309</b>	Ø55mm Pad Coil
<b>M VS2310</b>	920mm Flexible Coil
<b>N VS2311</b>	Induction Block (W x D x H): 50 x 30 x 35mm

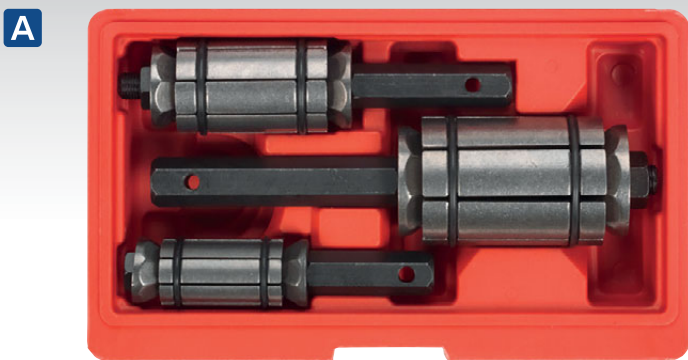
**O VS250**  
**2300W Induction Heater - Rapid Heat**

Mobile induction heater for fast heat delivery. Install appropriate coil and place over or around ferrous metal. Ideal for loosening stubborn and seized fixings. Supplied with special dent induction block for panel expansion and induction pad for plastic trim/sticker removal. Induction element delivers high heat rapidly and effectively. Supplied in storage case.

Frequency:	50Hz
Power:	2300W
Supply/Plug Type:	230V/3-Pin
Power Supply Cable Length:	2.8m

Contents:	
Model No:	
<b>P VS2303</b>	Ø20mm Direct Coil
<b>Q VS2305</b>	Ø30mm Direct Coil
<b>R VS2304</b>	Ø20mm Side Coil
<b>S VS2306</b>	Ø30mm Side Coil
<b>T VS2309</b>	Ø55mm Pad Coil
<b>U VS2310</b>	920mm Flexible Coil
<b>V VS2311</b>	Ø29mm Induction Adaptor





**A VS1668**  
**3pc Exhaust Pipe Expander Set**

Ideal for fitting aftermarket components to standard exhausts. Used to expand a length of pipe in equal proportions so the pipe is the same diameter and not tapered. Ensures a perfect fit with no leaks and also removes dents and clamp marks.

<b>Capacity:</b>	Small; Ø29-44mm, Medium; Ø40-57mm, Large; Ø54-81mm
<b>Drive:</b>	Small; 17mm Hex, Medium; 17mm Hex, Large; 19mm Hex



**B VS16371**  
**Ratcheting Exhaust Pipe Cutter**

Universal application pipe cutter designed for where access is restricted. Ratchet mechanism allows cutting without having to rotate the tool completely around the tubing. Suitable for the toughest materials including stainless steel exhaust pipes.

<b>Maximum Thickness:</b>	3mm
<b>Cutting Capacity:</b>	Ø29-67mm
<b>Replacement Cutting Wheel:</b>	VS16371B



**C VS16372**  
**Exhaust Pipe Cutter Pliers**

Suitable for cutting exhaust pipes and steel or copper tubing up to Ø83mm. Plier design handles allow for even cutting pressure and enables access where space is restricted. 90° Handle movement produces a 360° cut.

<b>Maximum Thickness:</b>	2.5mm
<b>Cutting Capacity:</b>	Ø19-83mm



**D AK6838**  
**Exhaust Pipe Cutter**

Suitable for cutting thin-wall tubing up to 2.5mm thick. Designed to enable access where space is restricted. Ideal for cutting stainless steel exhaust pipes.

<b>Maximum Thickness:</b>	2.5mm
<b>Cutting Capacity:</b>	Ø75mm
<b>Replacement Chain:</b>	398/CHN182



**E SA25**  
**Ø75mm Air Cut-Off Tool**

Suitable for cutting car panel material and exhaust brackets. Fitted with metal safety guard and throttle safety device to prevent accidental operation. Cutting disc not included, order Model No. PTC/3C.



**F-I SEE BELOW**  
**Exhaust Mounting Rubbers (Packs of 2)**

Packs of two rubber exhaust mounts. Selection of common sizes to fit many models of vehicle.

Model No:	Dimensions (W x D x H):	Mounting Holes:	Distance Between Mounts:
<b>F EX01</b>	70 x 45 x 37mm	Ø9mm, 18 x 10mm Oval	33mm
<b>G EX02</b>	60 x 41 x 20mm	Ø10.5mm	24mm
<b>H EX03</b>	62 x 54 x 13.5mm	3.5mm High 180° Slots	11mm
<b>I EX04</b>	59 x 59 x 13.5mm	Ø30mm	-

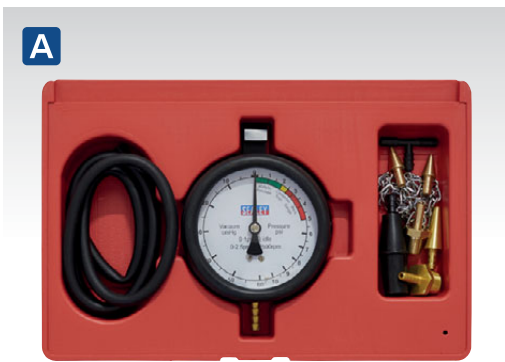


**J SEE BELOW**  
**Kevlar® Hot Sleeve**

Manufactured to CAT 2 BS EN 388 and BS EN 407 from 100% DuPont Kevlar®. Designed for use in engine bays to prevent cuts to forearms and burns from exhausts and other hot components. Thumb slot design ensures sleeve will stay in position.

<b>Model No:</b>	<b>Length:</b>
<b>SSP36</b>	355mm
<b>SSP37</b>	460mm

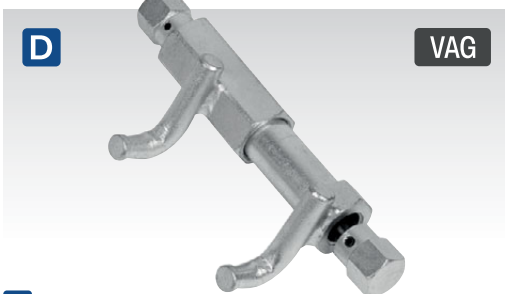




**A VSE953**  
**Catalytic Converter Back Pressure Test Kit**  
 Used to establish the working condition of the catalytic converter and silencer by measuring the relative back pressure of the system. Simply connect into the exhaust system using either of the two oxygen sensor dummy adaptors supplied in the kit. Gauge features a colour-coded scale for easy diagnosis and reads both pressure and vacuum so can be used on other areas of the vehicle allowing testing of low pressure fuel systems or engine vacuum. Supplied with gauge hanging chain to allow hands-free operation.

**Contents:** Oxygen Sensor Adaptors; M12 x 1.25, M18 x 1.5mm, Small & Large Brass Cone Adaptors, Plastic Double End Cone, Plastic T-Piece, Gauge Hanging Chain

**Gauge Scale:**  
**Pressure:** 0-10psi  
**Vacuum:** 0-60cmHg



**D VS1638**  
**Exhaust Spring Clamp Removal Tool - VAG**  
 Robust steel tool for the safe removal and installation of the spring clamps used to attach exhaust system to manifold on VAG vehicles. Use with 17mm spanner.

**Drive:** 17mm Hex  
**Applications:** Audi, Seat, Skoda, VW



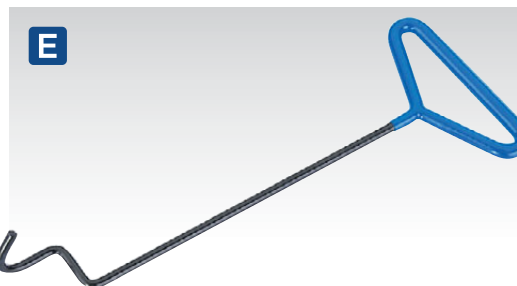
**G VS1666**  
**Exhaust & Hose Clamp Pliers**  
 Opens exhaust hose clamps quickly and easily. Ideal for Citroen, Peugeot and Renault exhaust clamps. Also suitable for prising open any type of clamp or clip secured with nut and bolt. Comfort grip handles with self-locking mechanism aid working on spring clamps.

**Length:** 300mm



**B SX0320**  
**5pc 3/8" & 1/2" Sq Drive Oxygen Sensor & Thread Chaser Set**  
 Suitable for oxygen sensors found on most modern vehicles. Cut-out and slots enable sockets to be fitted over wiring harness. Includes two chasers for cleaning and repairing damaged threads. Supplied in storage case.

**Sockets:** 3/8" Sq Drive; Straight - 80mm, Deep - 22mm, Offset - 31mm High - 22mm, 1/2" Sq Drive; Offset - 50mm, High - 22mm  
**Thread Chasers:** M12 x 1.25mm, M18 x 1.5mm



**E VS163**  
**Exhaust Doughnut Puller**  
 Steel construction with dipped vinyl handle. Enables fast removal and installation of rubber anti-vibration mountings found on exhaust systems.



**H VS1631**  
**Exhaust Hanger Removal Pliers**  
 Enables fast, one-handed removal of exhaust brackets from rubber hangers. Suitable for a wide range of cars and light commercial vehicles.

**Length:** 285mm

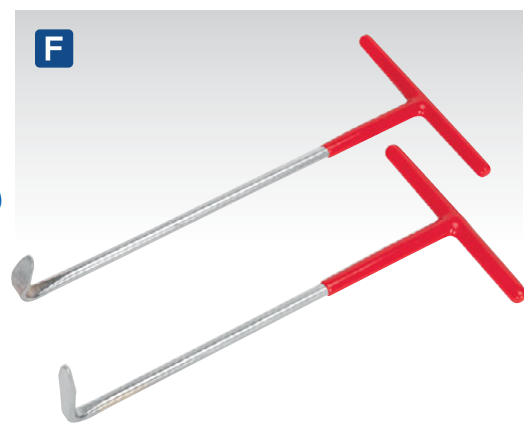


**J SCS0365**  
**500ml Freeze Shock & Release Spray Lubricant**  
 For more information, see page 1117.



**C VS5281**  
**Oxygen Sensor Thread Repair Kit**  
 Time and money saving kit for replacing damaged oxygen sensor threads with a new threaded insert. Kit includes installation tool, reamer, two taps and five inserts in storage case.

**Insert Thread Size:** M18 x 1.5mm  
**Tap Sizes:** M18 x 1.5, M20 x 1.5mm  
**Replacement Inserts:** VS5281R (Pack of 5)



**F VS1641**  
**2pc Exhaust Puller Tool Set**  
 Invaluable when installing exhaust systems. Two T-handled tools allow easy fitting of exhaust mounts. 90° & 120° Hooks to suit block and ring mounts respectively.

**Contents:** 210mm 90° Angled Hook Puller, 215mm 120° Angled Hook Puller



**I SCS200**  
**150ml Exhaust Assembly Paste**  
 For ease of assembly and creates gastight exhaust joints. Suitable for use with Model No. AK3901 Caulking Gun.

**Size:** 150ml Cartridge

A

230V



A EFS/93

**Exhaust Fume Extractor with 6m Ducting**

Suitable for both large and small garages and workshops. Excellent as a back-up machine for garages with purpose-built fume extraction units. Suitable for cars and small commercials up to 10tonne GVW. Fitted with exhaust pipe cone that includes a port to allow use with gas analyser probes. Supplied with 6m flexible ducting.

Motor:	550W - 230V
Airflow:	560m <sup>3</sup> /hr
Minimum Height:	120mm
Maximum Height:	750mm
Duct Length:	6m

B

B EFS07

**Exhaust Fume Extractor with 3m Ducting**

Features soft rubber cylindrical cone to suit most exhausts. Adjustable height for use on small cars or commercial vehicles. Air inlet valve creates vortex within extractor to ensure all fumes are dispersed (requires air supply). 1.2m Body length with additional 3m flexible ducting. Mounted vertically on trolley with integral duct compartment for easy manoeuvrability and compact storage.

Recommended Air Pressure:	90psi
Air Consumption:	16cfm
Minimum Height:	185mm
Maximum Height:	550mm
Duct Length:	3m
Overall Length:	4.2m



C



C EFS07DE

**Exhaust Adaptor for Twin Pipes**

Features soft rubber cylindrical exhaust pipe cones to suit most vehicles. Allows exhaust fume extractor to be used on twin exhaust vehicles. Suitable for use with Model No. EFS07 & EFS/93 Exhaust Fume Extractors.

Duct Length:	1.4m
Extractor Connector:	Ø65-90mm Male Taper

D

230V



E



F

D-E SEE BELOW

**370W Exhaust Fume Extraction Systems**

Wall mounting electric fans fitted with heat resistant ducting and exhaust pipe cones with exhaust gas analyser port. Ideal for bikes, cars and car derived vans. Requires installation onto workshop wall and ducting to expel exhaust gases. Does not include electrical switch gear. Ideal for smaller garages and workshops where space is limited. Available in single or twin hose configurations.

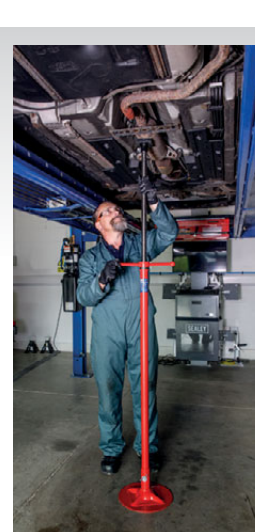
Model No:	Type:	Motor:	Duct Size:
D EFS101	Single Duct	370W - 230V	Ø75mm x 5m
E EFS102	Twin Duct	370W - 230V	Ø75mm x 5m
F EFS100H1	Single Hose	n/a	Ø75mm x 5m

**IMPORTANT INFORMATION**

It is advised not to use an exhaust fume extractor when conducting a force regeneration on a vehicle fitted with a DPF (Diesel Particulate Filter) because of high temperatures from the exhaust. These high temperatures may melt the rubber exhaust cones or pipes on the fume extractor. Regeneration should be conducted outside in a well-ventilated area away from buildings or other vehicles.

G

750kg



G ES750

**750kg Exhaust Support Stand**

Screw adjustment with easy-to-use spinner nut and ball-bearing thrust race for smooth operation. Removable base for easier storage. Adjustable over a 668mm range.

Capacity:	750kg
Minimum Height:	1364mm
Maximum Height:	2032mm

**DPF1 - DPF ULTRA CLEANING STATION**

Blocked DPF 's have been a massive issue for many years. Blockages are mainly due to the vehicle not meeting the regeneration process criteria, predominantly caused by short journeys etc. Buying a new DPF can be very costly and sending the old one away for cleaning can also be a time consuming process. With this machine, the garage is able to offer a professional, fast turnaround vehicle ultra-cleaning solution at a fraction of the cost. Each treatment will require a DPF1KIT (2-Stage additives). Stage 1 is an ultra-cleaning chemical which is poured into the DPF and left to soak for up to 1 hour and has been specially designed to lift any impurities. This is then emptied and the DPF is strapped down to the cleaning bay and a mixture of high air pressure and water is forced through in stages over a period of time, until the water coming out is crystal clear! After this process is complete, it is time for Stage 2, which involves a protective chemical poured through to coat the inside. DPF, assisting in the prevention of further soot build-up, which could then lead to a blockage. This can then be put straight back onto the vehicle again giving the garage a great new revenue stream and further satisfied customers. Garages are already reaping the benefits of these cleaning stations, charging upwards of £250+VAT.



**A DPF1**  
**DPF Ultra Cleaning Station**

Provides an off-vehicle, same day workshop cleaning solution. The machine uses a mixture of high pressure air, chemicals and water. This cleaning station along with the Sealey recommended chemicals, offers a fast and cost effective way to completely clean and protect any DPF. Great revenue boost for any workshop. Each treatment will require a DPF Ultra Cleaning Kit (Model No. DPF1KIT) which includes 1 x Ultra Clean and 1 x Ultra Protect Solution. The ultra cleaning chemical is a unique solution specially formulated to safely lift impurities from the DPF. The protect solution features the latest nano-catalyst technology to keep your DPF cleaner for longer. Also features an automatic service function allowing the user to continue with other work.

<b>Cleaning Agent:</b>	Chemical/Water/Air
<b>Dimensions:</b>	(W x L x H): 400 x 900 x 1120mm
<b>Supply/Plug Type:</b>	230V/3-Pin
<b>Power Supply Cable Length:</b>	3.5m

**B**

**2 STAGE**



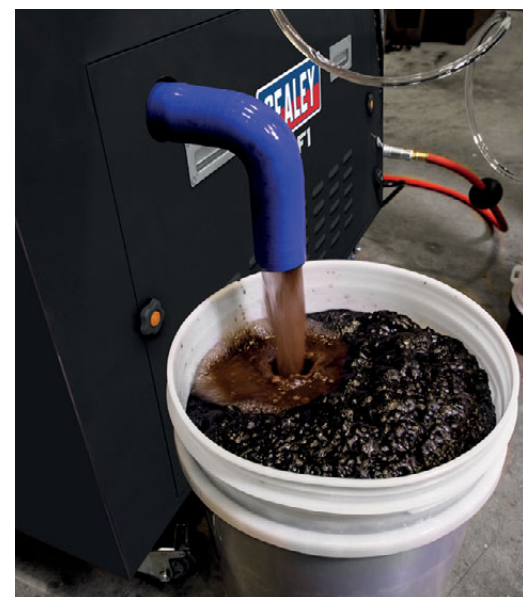
**B DPF1KIT**  
**DPF Ultra Cleaning Kit**

2-Stage ultra treatment kit includes a powerful DPF cleaner and a nano-catalyst protect solution. To be used with DPF Ultra Cleaning Station Model No. DPF1.

**A**



**Contents:** Water Pressure Container, Waste Bucket, DPF Adaptor Plates, Blanking Cap, Ratchet Tie Downs, Extension Hose, Waste Hose, Magnetic Parts Tray





**A VS408**  
**3pc Fluid Transfer Syringe Set**  
 For more information, see page 537.



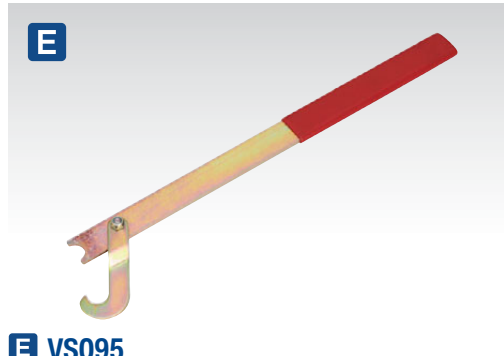
**B VS563**  
**5L Measuring Jug with Flexible Spout**  
 Transparent measuring jug with removable flexible spout. Wide base for extra stability.



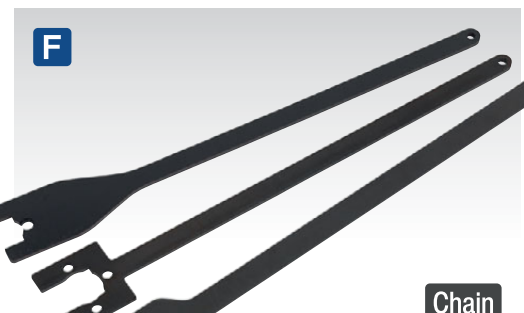
**C VS0043**  
**Automotive Coolant Filler Set**  
 Multipurpose coolant filling system, supplied with six reservoir adaptors, to fit popular sizes of reservoir. Built-in shut-off valve and cleverly designed flow pipe system helps prevent air locks.



**D OIL/TF**  
**Tractor Funnel with Debris Filter**  
 Heavy-duty funnel manufactured from high-density polyethylene. 255 x 165mm Aperture to accommodate up-ended containers. Supplied with water separating filter. Tapered spout with venting ribs.



**E VS095**  
**Viscous Fan Holding Tool**  
 Prevents fan from rotating, without risk of damaging fan (or fingers), when removing retaining nut. Vinyl dipped handle.



**F VSE3042**  
**Viscous Fan Spanner Set for Land Rover/Range Rover - Chain Drive**  
 Essential tools required to remove the viscous fan from the water pump. Slim design makes access possible in the restricted access found on some Land Rover and Range Rover vehicles. Used in pairs according to vehicle application.

**OEM Tools:** 303-1142, 303-1143, 303-1167

**Applications:**

**Land Rover:** Discovery 3 (04-09),  
 Discovery 4 (09-13)

**Range Rover:** Range Rover (05-16),  
 Range Rover Sport (05-16)

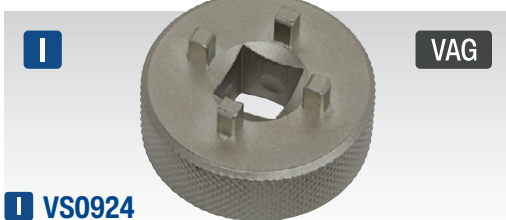
**Engine Codes:**

**2.7:** 276DT  
**4.2:** 428PS  
**4.4:** 448PN



**G DRP04**  
**17L Antifreeze/Fluid Drain Pan**  
 For more information, see page 654.

**Diameter:** Ø460mm  
**Height:** 150mm



**I VS0924**  
**Coolant Pump Thermostat Key - VAG**  
 Simple-to-use tool allows easy removal and installation of thermostat without causing any unnecessary damage. For use on Audi A3 (13on), VW Golf (13on), Skoda Octavia (13on), Seat Leon (13on). Applicable engines: 1.0 TFSi 3-cyl, 1.2 TSi, 1.4 TFSi, 1.4 FSi, 1.4 TDiCR 3-cyl OEM Tool: T10508.



**H VS0923**  
**32 & 36mm Viscous Fan Hub Tool**  
 Combination tool suitable for removing thermo-viscous fan hubs as fitted to BMW, Ford and Vauxhall/Opel vehicles.



**J VS0472**  
**Radiator Fin Straightener**  
 Specially designed for straightening the delicate fins found on automotive radiators, air conditioning condensers, oil coolers and intercooler grilles ensuring optimum performance. Allows removal of any small debris build-up that can gather between the fins. Six different comb sizes. Also suitable for domestic and industrial air conditioning and heat exchange applications.



**K VS0010**  
**Heater Hose Disconnection Tool - Ford**  
 Heater hose disconnection tool for Ford vehicles. Designed to make the job of disconnecting the heater hose a lot easier and less time consuming. Applications: Ford Focus 2.0L (2012-2016), Escape/Kuga 2.0L EcoBoost (2013-2016).

**A**



**A VS0062**  
**Combustion Leak Detector**

Diagnose blown gaskets, cracked blocks and cylinder heads on both petrol and diesel vehicles. Checks for CO<sub>2</sub> in cooling system and indicates its presence by test fluid colour change visible in the premium quality chamber. Use with cone adaptor or in conjunction with radiator caps from Model No's VS001, VS0011, VS0013, VS0014, VS0033 and VS006. For Test Fluid Refill order Model No. VS0061F.



Fluid Refill: **D VS0061F**

**B**



**B VS0061**  
**Combustion Leak Detector**

Diagnose blown gaskets, cracked blocks and cylinder heads on both petrol and diesel vehicles. Checks for CO<sub>2</sub> in cooling system and indicates its presence by test fluid colour change. Use with cone adaptor or in conjunction with radiator caps from Model No's VS001, VS0011, VS0013, VS0014, VS0033 and VS006. For Test Fluid Refill order Model No. VS0061F.



Fluid Refill: **D VS0061F**

**C**



**C VS0041**  
**Cooling System Filler**

Eliminates the introduction of bubbles and air-locks into the cooling system and dramatically reduces system filling time. No more time-consuming system bleeding. Reduces fluid waste and messy spills. Automatically conducts system leak test. Low profile design broadens application range especially for use on MPVs where lower windscreen lip might obstruct other tools. Simple operation requires workshop air supply and does not require fiddly interchange of vacuum and fluid hoses - as found on other versions of this tool. Can be used in conjunction with Model No's VS001, VS0011, VS0033, VS006, VS006F, VS006V, VS0013 and VS0014 cooling system pressure caps as an alternative way of connecting to the coolant reservoir. Supplied with 1.3m fluid hose.

<b>Air Pressure:</b>	80-100psi
<b>Air Consumption:</b>	12cfm
<b>Fluid Hose Length:</b>	1.3m
<b>Air Inlet Size:</b>	1/4" BSP

**D**



**D VS0061F**  
**250ml Combustion Leak Detector Fluid**

Suitable for use with Model No's VS0061 and VS0062 Combustion Leak Detectors and other leading brands of detector. Fluid changes colour on detection of CO<sub>2</sub> gas.

**B**



**C**



**E**



**E**



**E VS558**  
**550ml Fluid Transfer/Inspection Syringe**

Multipurpose syringe with Viton® seals, ideal for the transfer of oils/fluids to and from vehicle components such as gearboxes and differentials. Translucent body allows easy inspection of contents. Dual feature allows fluid to be extracted on pull stroke and expelled on push stroke, for fluent transfer of fluid.

Capacity: 550ml

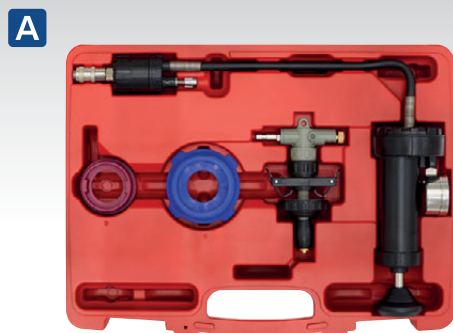
**F**



**F VS0042**  
**Cooling System Vacuum Purge & Refill Kit**

Dramatically reduces cooling system refill time, without mess and without introducing air-locks. No more time-consuming cooling system bleeding and no more messy spills to clean up. Simply plug into the workshop air line, attach to the cooling system header tank and create a vacuum. Complete the process by attaching the filler hose and opening the valve allowing your premixed coolant to flow into the system. Supplied with three adaptors and storage case.

<b>Air Pressure:</b>	90psi
<b>Air Consumption:</b>	12cfm
<b>Fluid Hose Length:</b>	900mm
<b>Air Inlet Size:</b>	1/4" BSP



**A-C SEE RIGHT**

**Cooling System Pressure Test Kits**

A range of three cooling system pressure test kits, covering the latest vehicles. These sets are a combination of:  
 - Universal inflatable bladder covering 90% of cars and light commercials straight out of the box (Model No's VS0012 & VS0014).

- Vehicle specific cap adaptors covering the latest Alfa Romeo, Audi, BMW, Citroen, Dacia, Fiat, Ford, Honda, Hyundai, Jaguar, Kia, Land Rover, Lexus, Mazda, Mercedes, Mini, Mitsubishi, Nissan, Peugeot, Porsche, Renault, Seat, Skoda, Suzuki, Toyota, Vauxhall/Opel, Volvo, VW vehicles (Model No's VS0013 & VS0014). See table below for specific applications. Each kit features quick-release couplings, easy-to-read pressure gauge and release valve.

	<b>A</b>	<b>B</b>	<b>C</b>
<b>Model No:</b>	<b>VS0012</b>	<b>VS0013</b>	<b>VS0014</b>
<b>Kit Size:</b>	4pc	10pc	13pc

Contents	VS001	VS0011	VS0012	VS0013	VS0014	Newer/ Older Vehicles	Applications
VS001.V3-01	✓	✓	✗	✗	✗	Old	Mercedes
VS001.V3-02	✓	✓	✗	✓	✓	New	Audi, Seat, Skoda, VW
VS001.V3-03	✓	✓	✗	✗	✗	Old	Audi, Ford, Seat, Skoda, Vauxhall/Opel, VW
VS001.V3-04	✓	✓	✗	✗	✗	Old	Alfa, Audi, BMW, Seat, VW
VS001.V3-05	✓	✓	✗	✗	✗	Old	BMW, Rover
VS001.V3-06	✓	✓	✗	✗	✗	Old	Fiat, Peugeot, Renault, Rover, Vauxhall/Opel, Volvo
VS001.V3-07	✓	✓	✗	✗	✗	Old	Audi, Chrysler, Fiat, Honda, Lancia, Peugeot, Renault, Rover, Vauxhall/Opel, Volvo, VW
VS001.V3-08	✓	✓	✗	✗	✗	Old	Chrysler, Citroen, Mercedes, Mitsubishi, Nissan, Suzuki, Toyota
VS001.V3-09	✓	✓	✗	✗	✗	Old	Mercedes
VS001.V3-10	✓	✓	✗	✗	✗	Old	Chrysler, Citroen, Mercedes, Suzuki
VS001.V3-11	✓	✓	✗	✗	✗	Old	Nissan, Suzuki, Toyota
VS001.V3-12	✓	✓	✗	✗	✗	Old	Suzuki
VS001.V3-13	✓	✓	✗	✗	✗	Old	Kia
VS001.V3-14	✓	✓	✗	✗	✗	Old	Mitsubishi, Nissan, Suzuki, Toyota
VS001.V3-15	✓	✓	✗	✓	✓	New	Honda, Kia, Mazda, Mitsubishi, Nissan, Suzuki, Toyota
VS001.V3-16	✓	✓	✗	✓	✓	New	Toyota
VS001.V3-17	✓	✓	✗	✗	✗	Old	Ford
VS001.V3-18	✓	✓	✗	✗	✗	Old	Ford
VS001.V3-19	✓	✓	✗	✗	✗	Old	Mercedes
VS001.V3-20	✓	✓	✗	✗	✗	Old	Ford
VS0011.21	✗	✓	✗	✓	✓	New	Vauxhall/Opel
VS0011.22	✗	✓	✗	✓	✓	New	BMW
VS0011.23	✗	✓	✗	✓	✓	New	Fiat
VS0011.24	✗	✓	✗	✓	✓	New	Ford, Jaguar/Daimler, Land Rover, Volvo
VS0011.25	✗	✓	✗	✓	✓	New	Lexus, Toyota
VS0014.01	✗	✗	✗	✓	✓	New	Alfa, BMW, Citroen, Dacia, Ford, Mini, Nissan, Peugeot, Porsche, Renault, Toyota
VS0014.04	✗	✗	✓	✗	✓	N/A	Inflatable bladder (fits various vehicles)



**D VS001**  
**20pc Cooling System Pressure Tester Kit**

Traditional style cooling system pressure testing kit with a selection of adaptors to fit popular European and Japanese vehicles. Also includes non-specific adaptors for other makes.



**E VS0011**  
**25pc Cooling System Pressure Test Kit**

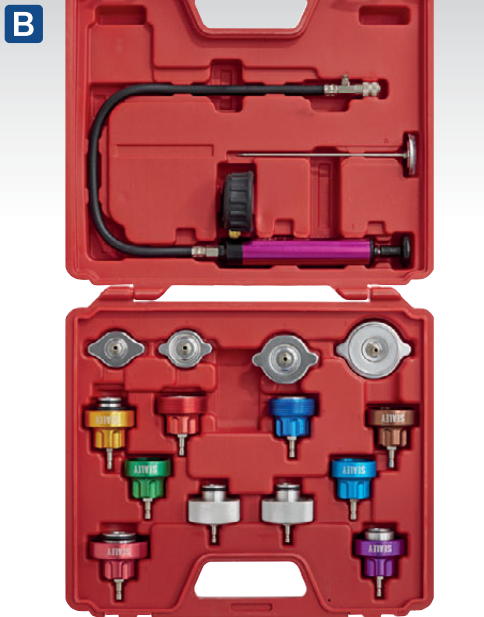
Traditional style cooling system pressure testing kit featuring five new adaptors increasing the vehicle applications. Also includes non-specific adaptors for other makes.



**A VS0033**  
**5pc Cooling System Pressure Test Kit**

Capless tester uses cone adaptor system to seal and pressurise the cooling system. Adaptors may be used to replace both screw and bayonet type cap fittings. Kit includes pump with gauge and four system adaptors for use on a wide range of vehicle applications.

**Contents:** Cone Adaptor Sizes; 17-24, 28-31.5, 37-39.5, 47-48.5mm



**B VS006**  
**16pc Cooling System Pressure Test Kit**

Heavy-duty pump unit features smooth action and large, easy-to-read, scale. Long hose aids easy use of the gauge and quick release is fitted with pressure release valve for safe operation. Set supplied with thermometer and packed in storage case.

**Applications:** Alfa Romeo, Audi, BMW, Citroen, Fiat, Ford, Isuzu, Jaguar, Jeep, Lexus, Mazda, Mercedes, Mitsubishi, Nissan, Peugeot, Renault, Rover, Saab, Subaru, Suzuki, Toyota, Vauxhall/Opel, Volvo, VW



**C VS006V**  
**Coolant Pressure Test Cap - Vauxhall/Opel**  
 Coolant pressure test cap. Use with Model No's VS001, VS0011, VS0012, VS0013, VS0014, VS006, VS0061 or VS0033 testing kit.

**Applications:** Vauxhall/Opel (Updated Type)



**E VS006F**  
**Coolant Pressure Test Cap - Ford/Volvo**  
 Coolant pressure test cap. Use with Model No's VS001, VS0011, VS0012, VS0013, VS0014, VS006, VS0061 or VS0033 testing kit.

**Applications:** Ford (Updated Type), Volvo; V70, XC70

VS001, VS0011, VS0012, VS0013, VS0014, VS0033, VS006, VS0061, VS006V and VS006F share the same connector, so parts are interchangeable.



**D DRP04**  
**17L Antifreeze/Fluid Drain Pan**  
 For more information, see page 654.

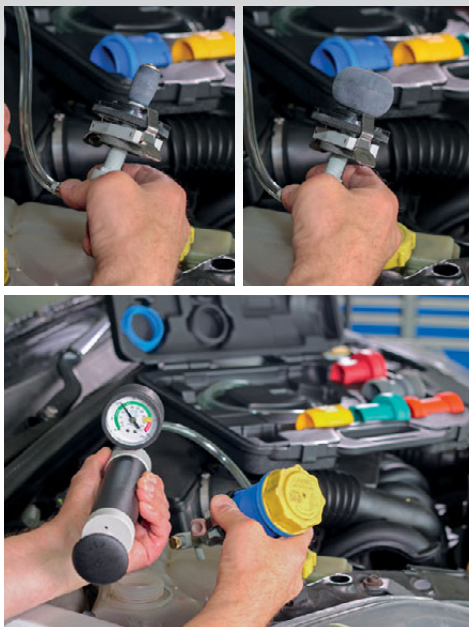
17L



**F VS0031**  
**Cooling System & Cap Testing Kit**

Capless cooling system tester uses an inflatable bladder to seal the pressure head to the radiator or header tank. Bladder system can be used on both screw and bayonet fittings and seals 90% of cars and light commercial vehicles straight out of the box. Also suitable for motorcycles, off-road and marine applications. Supplied with a set of double end adaptors enabling testing of cooling system pressure caps. Supplied in storage case.

**Applications:** Pressure Cap Test; Standard Bayonet (Ford, GM N Body), External Thread (Jeep, Saab, VW/Audi), Internal Thread (Small Japanese Deep, VW/Audi), Internal Thread (Small Japanese Shallow, Late Model VW/Audi), External Thread (Late Model BMW, Land Rover), External Thread (Late Model Mercedes), Pressure System; Universal



Kit includes cap test adaptors - simply insert bladder into adaptor and inflate.



**G VS0044**  
**Coolant System Flush Gun**

Enables thorough flushing of debris and contaminants from cooling system during repair and maintenance. Powered by workshop air, which creates a vacuum to draw water from a container. Can also be used with mains pressure tap water.

**Adaptor Sizes:** Ø19, Ø29, Ø32, Ø37, Ø40mm  
**Air Inlet Size:** 1/4" BSP  
**Water Inlet Size:** Ø15.5mm  
**Operating Pressure:** 90psi





Tests:

Battery Fluid

Antifreeze

Screenwash

AdBlue®

### A VS0052 Refractometer Antifreeze/ Battery Fluid/Screenwash/AdBlue®

Accurately measures the strength of battery fluid, screenwash, antifreeze and AdBlue® by measuring the refractive index of light passing through the mixture. Suitable for synthetic antifreeze mixtures including long-life OAT (Organic Acid Technology), G13 and aqueous/urea content of AdBlue®. Temperature corrected prism ensures accuracy. Eyepiece with adjustable focus. Simple calibration check using distilled water. Supplied with pipette and storage case.



Tests:

Battery Fluid

Antifreeze

Screenwash

### B VS005 Refractometer Antifreeze/ Battery Fluid/Screenwash

Accurately measures the strength of battery fluid, screenwash and antifreeze by measuring the refractive index of light passing through the mixture. Suitable for synthetic antifreeze mixtures including long-life OAT (Organic Acid Technology) and G13. Temperature corrected prism ensures accuracy. Eyepiece with adjustable focus. Supplied with pipette and storage case.



C-D SEE BELOW

### Twin-Rotor Antifreeze Testers

Tests antifreeze mixtures. Units feature a temperature compensation rotor that automatically adjusts the reading regardless of the coolant temperature. Freeze protection level is indicated on the scale in degrees Celsius.

Model No:	Type:
C VS4120	Ethylene Glycol
D VS4121	Propylene Glycol



**E AK4120**  
**Ethylene Glycol Antifreeze Tester - Disc Type**  
Checks condition of coolant antifreeze, hot or cold. Freeze protection level is indicated by the number of the six large coloured discs which float in the sample. Easy-to-read temperature table on the virtually unbreakable plastic body.



**F AK4123**  
**Ethylene Glycol Antifreeze Pocket Tester Ball Type**  
Convenient, pocket-sized tester for ethylene glycol antifreeze mixtures. Freeze protection level is indicated by the number of coloured balls which float in the sample. Easy-to-read temperature table on the body.



**G AK413**  
**Ethylene Glycol Antifreeze Tester Tube Type**

Tests ethylene glycol strength in radiator or header tank. Tube construction with thermometer for temperature calibration.



**H AK409**  
**Ethylene Glycol Antifreeze Tester - Dial Type**  
Tests ethylene glycol strength and includes temperature adjustment scale for accurate interpretation of mixture strength. Composite body and rubber bulb for workshop durability.



**I AK4125**  
**AdBlue® Tester - Disc Type**  
Checks condition of AdBlue®. Condition is indicated by the number of discs floating in the sample. Easy-to-read test procedure on robust plastic body.



**J AK4122**  
**Propylene Glycol Antifreeze Tester Disc Type**

Tests modern propylene glycol coolant antifreeze, hot or cold. Protection level is indicated by the number of the five large coloured discs which float in the sample. Easy-to-read temperature table on the virtually unbreakable plastic body.





**A VS1575**  
**Spring Hose Clip Tensioner Tool**  
 Locks in place for safe clip removal/refitting. Ideal for use in confined areas. Single-handed use. Range 5-55mm.



**D VS1663**  
**Remote Action Hose Clip Tool**  
 Long reach tool designed to get to awkwardly positioned tag-type hose clips. Flexible cable and compact head help operation in confined spaces. Features ratchet action and vinyl dipped handles for comfort and close control.

**Length:** 630mm

	VS1633, VS1635, VS1639, VS1680 and pliers from VS2662 set are suitable for ear-type clips found on hydraulic and pressure hosing.
	VS1575, VS166, VS1663, VS1665, VS1670, VS1674, VS1675, VS1677, VS1678 and pliers from VS1662 and VS2662 sets are suitable for removal and installation of tag-type hose clips.
	VS1661, VS1675 and pliers from VS1662 and VS2662 sets are suitable for Clic® and Clic-R® fittings found on automotive applications.
	VS1575, VS166, VS1663, VS1665, VS1670, VS1674, VS1675, VS1677, VS1678 and pliers from VS1662 and VS2662 sets are suitable for spring type clip fittings found on automotive applications.



**B SEE BELOW**  
**T-Handle Vehicle Service Screwdrivers**  
 Especially designed cross head screwdrivers for loosening and tightening the ventilating (locking) screw on the radiator without the risk of damage on some VAG vehicles. Also suitable for various other vehicle service jobs such as battery screw plugs. Special length allows application in areas with restricted access.

Model No:	Size:
VS0951	1.3mm
VS0952	1.8mm



**C VS1676**  
**Hose Clamp Removal Tool**  
 For releasing HENN clamps used on coolant and turbo charger hoses. Applications: BMW, Citroen, Fiat, Ford, Kia, Lexus, Mazda, Mercedes, Nissan, Porsche, Peugeot, VAG, Vauxhall/Opel and Volvo.



**E VS1670**  
**Heavy-Duty Remote Action Hose Clip Tool**  
 Reinforced long reach tool designed to get to awkwardly positioned tag-type hose clips. Flexible cable and compact head help operation in confined spaces. Features ratchet action for close control.

**Length:** 500mm

**F VS1675**  
**Interchangeable Remote Action Hose Clamp Pliers**  
 Long reach tool designed for awkwardly positioned tag-type hose clips. Flexible cable and compact head help operation in confined spaces. Three interchangeable heads, one cable for standard hose clamp, 670mm long and 3-52mm opening, one cable for Clic-R® Type clamp 635mm long and 0-24mm opening, one cable for dual-sided clamp for spring type and truck hose clamp, 670mm long and 0-75mm opening.

**Length:** 670mm



**A VS1655**  
**Hose Removal Pliers**

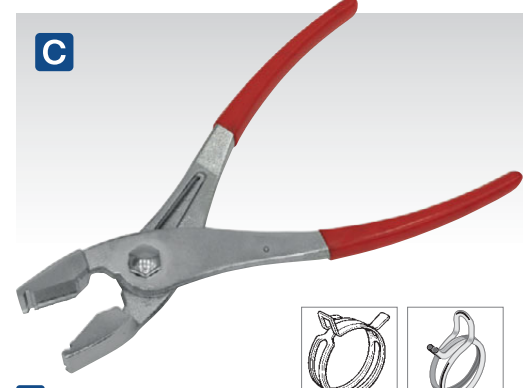
Easily disconnects hoses by firmly gripping the lines/tubes. Especially suitable for hoses connected to lines/tubes with a smooth surface where a pushing force is not possible. Pointed jaw tip allows access in confined spaces. Locking design enhances secure gripping and allows single-handed operation. Suitable for 3/16"(5mm), 1/4"(6mm), and 3/8"(10mm) lines and tubes.



**B VS1661**  
**Heavy-Duty Hose Clip Pliers**  
**Clic® Compatible**

Heavy-duty spring loaded pliers for fitting and removing Clic® and Clic-R® hose clips. Special jaws allow the change from fit to remove (and back again) simply by turning the pliers over in your hand. PVC dipped handles for improved grip and comfort.

Length: 175mm



**C VS1674**  
**Spring Hose Clip Pliers**

Spring loaded pliers, for fitting and removing hoses fitted with constant pressure type hose clips. Designed to be used front or side facing, making the tool fast and effective to use. Slots in 16mm jaws, locate and secure hose clip ends into position. Can also be used as a traditional set of pliers.

Length: 205mm



**D VS1633**  
**Ear-Type CVJ Boot/Hose Clip Pliers**

Formed steel arms with insulated vinyl handles. Suitable for ear-type hose clips found on fuel, cooling system and vacuum hoses. Also used for securing CVJ boot clips.

Length: 235mm



**G VS1680**  
**Extra-Heavy-Duty Ear-Type Clip Pliers**

Steel jaws with PVC coated handles for added comfort. Features a double setting reaction bar, allowing for pre-tensioning for positive clamping. Mechanical lock avoids any damage to the collar at the end of the operation. Double-jointed pivot allows for minimal clamping effort. Suitable for medium sized closed and open ear-type clips.

Length: 270mm



**E VS1635**  
**Heavy-Duty Ear-Type**  
**CVJ Boot/Hose Clip Pliers**

Heavy-duty pliers with steel jaws and formed handles for extra comfort in use. Suitable for ear-type hose clips found on fuel, cooling system and vacuum hoses. Also used for securing CVJ boot clips.

Length: 235mm



**F VS1639**  
**Extra-Heavy-Duty Ear-Type Clip Pliers**

Steel jaws with PVC coated handles for added comfort. Each handle features a 1/2" Sq drive for use with a torque wrench and breaker bar where vehicle maker demands specific band tensions. Suitable for all ear-type CVJ boot clips.

Length: 240mm

**A**



**A VS1662**  
**9pc Hose Clip Removal Tool Set**

All the hose clip tools you are likely to need in one case. Comprehensive set features heavy-duty construction with ratchet locking mechanism on most pliers. Vinyl dipped handles give additional comfort.

**Contents:** Remote Action Hose Clip Tool, Swivel Jaw Spring Wire Clip Pliers, Swivel Jaw Band Clip Pliers, Angled Band Clip Pliers, Flat Band Clip Pliers, Clic-R® Type Pliers, Hose Removal Pliers, Hose Pick, Double Ended Screwdriver

**B**

**NEW**



**B VS2662**  
**7pc Hose Clip Removal Tool Set**

A comprehensive hose clip plier set with heavy-duty construction and ratchet locking mechanism on most pliers. Vinyl dipped handles give additional comfort. The kit consists of the following pliers: Space saver hose clip plier for areas where clip contact is restricted, jaw opening 0-70mm. Swivel Clic-R® type plier, jaw opening 0-34mm. Multipurpose hose clamp plier, jaw opening 0-40mm. Remote action flexi clamp plier, jaw opening 3-54mm. Hose clamp interchangeable head plier, jaw opening 0-60mm. Hose clamp compressor, jaw opening 6-68mm, use with 14mm spanner. Ear-type CV boot/hose clip plier, jaw opening 0-20mm.

**Contents:** Space Saver Hose Clip Plier, Swivel Clic-R® Type Plier, Multipurpose Hose Clamp Plier, Remote Action Flexi Clamp Plier, Hose Clamp Interchangeable Head Plier, Hose Clamp Compressor, Ear-Type CV Boot/Hose Clip Plier

**C**



**C VS1678**  
**440mm Hose Clip Pliers - Double-Jointed**

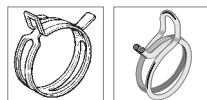
Specially designed jaws give excellent grip onto a wide range of vehicle hose clips. 440mm Double-jointed feature gives a long reach, allowing easy-access into places such as bottom radiator hoses. Clever spring loaded locking function allows use one-handed. 75mm Jaw capacity. 35° Angled head version available for access into difficult tighter areas in the engine bay, Model No. VS1677 **E**.

**Length:** 440mm



**E**

**D**



**D VS166**  
**Hose Clip Pliers**

Suitable for removal of tag and wire type hose clips. Features ratchet locking mechanism for ease of use on lower radiator hoses. Swivel jaws allow use where access is confined. PVC dipped handles for improved grip and comfort.

**Length:** 225mm

**E**



**E VS1677**  
**Hose Clip Pliers - Angled**

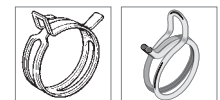
Specially designed jaws give excellent grip onto a wide range of vehicle hose clips. 35° Angled head allows access into tight areas in the engine bay. Clever spring loaded locking function allows use one-handed. Extended double-jointed version available for longer reach, Model No. VS1678 **C**.

**Length:** 275mm

**F**



**HEAVY DUTY**



**F VS1665**  
**2pc Hose Clip Pliers Set**

Heavy-duty construction with PVC dipped handles for added comfort and grip. Special 'V' slot and cross slot jaws for installation and removal of tag and wire type hose clips. Pliers with ratchet locking mechanism for ease of use on lower radiator hoses. Swivel jaws allow use where access is confined.

**Length:** 220mm

A



A SEE BELOW

**Duraboot Stretch CVJ Boots**

Model No:	Joint Diameter:	Length:
DBC100	Ø80-104mm	90mm
DBC200	Ø73-95mm	106mm
DBC300	Ø86-112mm	119mm
DBC400	Ø80-104mm	112mm
DBC500	Ø70-91mm	84mm
DBC600	Ø76-99mm	92mm
DBC700	Ø74-96mm	99mm
DBC800	Ø60-78mm	104mm

D



D CVS18

**Ø56-120mm Universal Split CVJ Boot**

No dismantling of joint/shaft required and can be fitted in 20 minutes. Supplied with fitting kit including clips, grease sachet, disposable gloves, glue, cutting guide and fitting instructions.

Joint Diameter:	Ø56-120mm
Shaft Diameter:	Ø19-35mm

H



H SEE BELOW

**Universal Stretch CVJ Boots**

Supplied with fitting kit including clips, grease sachet and cutting guide. Suitable for vans and light commercial vehicles.

Model No:	Joint Diameter:	Qty:	Shaft Diameter:
CV88	Ø80-120mm	1	Ø28-40mm
CV96	Ø56-116mm	1	Ø19-28mm
CV9612	Ø56-116mm	12	Ø19-28mm

B



B VS960

**Driveshaft Extractor Fork**

Designed for the quick and safe removal of driveshafts held in place with a spring clip. Suitable for Ford, Mazda, Renault, Volvo and a wide range of front wheel drive vehicles. Fits between the gearbox and driveshaft for optimal contact and leverage. Helps prevent damage to the driveshaft and surrounding components.

F



E-F SEE BELOW

**CVJ Boot Ear Clamps - Packs of 25**

Stainless steel, single ear, low profile CVJ boot clamps. Manufactured to DIN 1.4301

Model No:	Diameter:
E CVC01	Ø19-40mm
F CVC02	Ø50-110mm

I



I BSL102

**Universal CVJ Boot Clamp Kit**

Kit includes 56m high quality stainless steel banding with a tensile strength of 420N/mm<sup>2</sup>. The dispenser case also houses 150\* clamp sets and unique pliers with integrated cutters and band tensioner.

Band Size:	5.5 x 0.4mm
Band Length:	56m
Clamps/Buckles:	150pc*

\*Approximate

C



C RJC01

**Car Ball Joint Dust Covers Pack of 6 Assorted**

Multipurpose ball joint dust covers easily replace split or damaged dust covers on otherwise serviceable ball joints, avoiding MOT test failure. Pack contains six ball joint dust covers supplied in three different sizes (two of each) with retaining 'O' rings and fitting tool. Covers a wide range of car and small commercial vehicle applications.

Cover Size:	Hole Size:
Small:	Ø10mm/25mm
Medium:	Ø12mm/36.5mm
Large:	Ø15mm/30mm

G

G RJC02

**Commercial Vehicle Ball Joint Dust Covers - Pack of 3**

Multipurpose ball joint dust covers easily replace split or damaged dust covers on otherwise serviceable ball joints, avoiding MOT test failure. Pack contains three ball joint dust covers supplied with retaining O-rings and fitting tool. Covers a wide range of commercial vehicle applications.

Hole Sizes:	Ø18mm/40.5mm
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J-M SEE BELOW

**Exhaust Mounting Rubbers (Packs of 2)**

Packs of two rubber exhaust mounts. Selection of common sizes to fit many models of vehicle.

J Model No:	EX01
Dimensions (L x D x H):	70 x 45 x 37mm
Mounting Holes:	Ø9mm, 18 x 10mm Oval
Distance Between Mounts:	33mm
K Model No:	EX02
Dimensions (L x D x H):	60 x 41 x 20mm
Mounting Holes:	Ø10.5mm
Distance Between Mounts:	24mm
L Model No:	EX03
Dimensions (L x D x H):	62 x 54 x 13.5mm
Mounting Holes:	3.5mm High 180° Slots
Distance Between Mounts:	11mm
M Model No:	EX04
Dimensions (L x D x H):	59 x 59 x 13.5mm
Mounting Holes:	Ø30mm

J



K



L



M





**A BSL103**  
**CVJ Boot Tool - Air**

Installs CVJ boots without removing drive shafts from the vehicle or the CV joint from the drive shaft. No effort and no mess. Save on labour time by up to 70% and prevent damage to CV joint. Composite body with simple control valve, works from standard workshop air supply.

Maximum Joint Diameter:	Ø110mm
Maximum Air Pressure:	116psi(8bar)
Air Inlet:	1/4" BSP
Weight:	2kg



**B VS705**  
**CVJ Boot Installation Tool**

Composite cone enables installation of CVJ boot without splitting drive train. Suitable for use with all Sealey CVJ stretch boots.

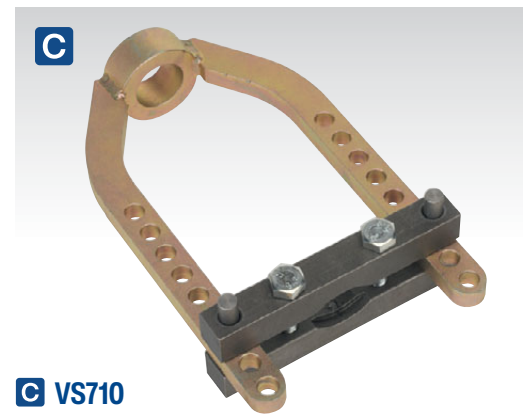
Maximum Joint Diameter:	Ø105mm
Length:	345mm



**D VS961**  
**CVJ Impact Driver**

Designed to remove seized CV joint from hub assembly. Comfort grip handle and impact strike point allows fast effective method of loosening difficult contacts. Reversible guide head covering 21mm and 25mm provides stable alignment when striking the CV joint.

Length:	210mm
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**C VS710**  
**CVJ Removal Tool**

Quickly removes the CV joint from the drive shaft without damaging the joint, and keeps hands-free for releasing retaining circlip. Reduces risk of damage to transmission. Saves on labour time and suitable for most vehicles.

Maximum Joint Diameter:	Ø95mm
Length:	230mm



**E VS5282**  
**9pc Thread Chase Set**

For the repair of internal and external threads. Ideal for drive shafts, oxygen sensors, wheel bolts and a wide range of applications. Supplied in storage case.

Contents:	M20 x 1.25, M20 x 1.5, M22 x 1, M22 x 1.5, M24 x 1.5, M24 x 2mm, 3/4" x 20 UNEF, 13/16" x 20 UNEF
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**F VS1636**  
**CVJ Boot/Hose Clip Tool with Cutter**

Quality made tool designed to aid fast tensioning and securing of CVJ boot banding material. Simply insert banding, tension using winding mechanism, and then pull over lever to cut the band to length. Fitted with large and comfortable handle.

Maximum Band Capacity:	1mm Thick x 10mm Wide
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**G VS1640**  
**CVJ Boot Band Pliers**

Steel body CVJ Boot band pliers with 3/8" Sq drive, for the assembly of new stainless steel bands on drive shafts where a torque setting is required.

Length:	250mm
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**H VS715**  
**8pc CVJ Thread Chaser Set**

A must have tool for every workshop. Repairs light damage to CV joint threads. Set contains sizes to fit the most common types of vehicle. Must be used with a light oil to lubricate thread. Supplied in storage case.

Contents:	M20 x 1.25, M20 x 1.5, M22 x 1, M22 x 1.5, M24 x 1.5, M24 x 2mm, 3/4" x 20 UNEF, 13/16" x 20 UNEF
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**A VS663****534pc Sump Plug & Washer Assortment**

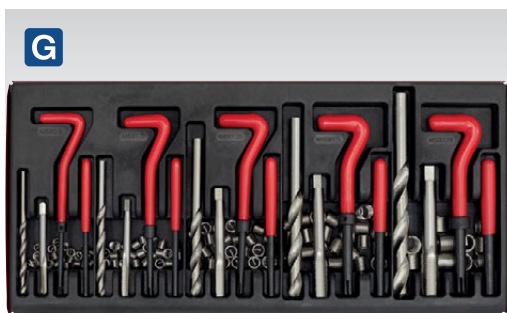
Assortment of alloy washers and sump plugs ideal for everyday use within a busy workshop.

**Sump Plugs:** M10 x 1, M12 x 1.5, M13 x 1.5, M14 x 1.5, M15 x 1.5, M16 x 1.5, M18 x 1.5, M20 x 1.5mm

**D SEE BELOW****Oil Drain Plug Thread Repair Sets**

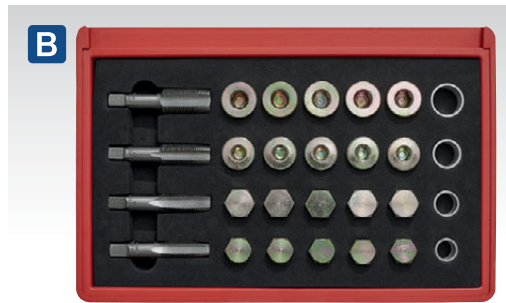
Ideal for repairing sump, gearbox and differential drain plug threads. Used to tap the damaged thread slightly oversize, then fit a new drain plug and washer. Sizes are suitable for the most popular threads used on cars and light commercial vehicles.

Model No:	Tap Size:
VS613	M13 x 1.5mm
VS615	M15 x 1.5mm
VS617	M17 x 1.5mm

**G TRMK****Thread Repair Master Kit**

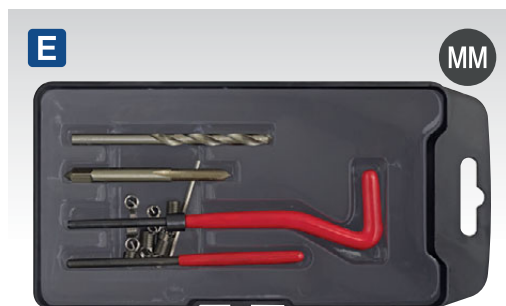
Suitable for five common sizes of thread. Creates a stronger internal thread in soft metals. Ideal for repairing damaged or stripped internal threads. Protects tapped threads against wear and damage. Includes drill bits, thread taps, stainless steel thread inserts, insert installation and lug breaking tools. Supplied in metal storage case.

<b>Thread Sizes:</b>	M5 x 0.8, M6 x 1, M8 x 1.25, M10 x 1.5, M12 x 1.75mm
<b>Thread Lengths:</b>	M5 x 4.5mm (x25), M6 x 5.5mm (x25), M8 x 8 (x25), M10 x 10mm (x25), M12 x 11mm (x10)
<b>Replacement Inserts:</b>	TRM5R, TRM6R, TRM8R, TRM10R, TRM12R

**B VS660****Drain Plug Thread Repair Set**

Superb for repairing sump, gearbox and differential drain plug threads. Used to tap the damaged thread slightly oversize, then fit a new drain plug and washer (supplied). Set is suitable for the most popular threads used on cars and light commercial vehicles. Supplied in storage case. See page 511 for replacement sump plugs and sump plug washers.

**Tap Sizes:** M13 x 1.5, M15 x 1.5, M17 x 1.5, M20 x 1.5mm

**E SEE BELOW****Thread Repair Kits**

Creates a stronger internal thread in soft metals. Ideal for repairing damaged or stripped internal threads. Protects tapped threads against wear and damage. Set includes drill bit, thread tap, insert installation and lug breaking tool. Each size supplied with three different lengths of thread insert.

<b>Model No:</b>	TRM5
<b>Thread Size:</b>	M5 x 0.8mm
<b>Thread Lengths:</b>	3.5, 5, 7mm (5 of each)
<b>Replacement Inserts:</b>	TRM5R
<b>Model No:</b>	TRM6
<b>Thread Size:</b>	M6 x 1mm
<b>Thread Lengths:</b>	4, 6, 9mm (5 of each)
<b>Replacement Inserts:</b>	TRM6R
<b>Model No:</b>	TRM8
<b>Thread Size:</b>	M8 x 1.25mm
<b>Thread Lengths:</b>	6, 9, 12mm (5 of each)
<b>Replacement Inserts:</b>	TRM8R
<b>Model No:</b>	TRM9
<b>Thread Size:</b>	M9 x 1.25mm
<b>Thread Lengths:</b>	7, 14mm (3 of each), 11mm (x4)
<b>Replacement Inserts:</b>	TRM9R
<b>Model No:</b>	TRM10
<b>Thread Size:</b>	M10 x 1.5mm
<b>Thread Lengths:</b>	7.5, 15mm (3 of each), 11mm (x4)
<b>Replacement Inserts:</b>	TRM10R
<b>Model No:</b>	TRM12
<b>Thread Size:</b>	M12 x 1.75mm
<b>Thread Lengths:</b>	9, 18mm (2 of each), 14mm (x4)
<b>Replacement Inserts:</b>	TRM12R
<b>Model No:</b>	TRM14
<b>Thread Size:</b>	M14 x 1.25mm
<b>Thread Lengths:</b>	10, 21mm (1 of each), 16mm (x3)
<b>Replacement Inserts:</b>	TRM14R

**C VS661****Oil Drain Plug Master Thread Repair Set**

Comprehensive thread repair kit ideal for repairing sump, gearbox and differential drain plug threads. Used to tap the damaged thread slightly oversize, then fit a new drain plug and washer (supplied). Set is suitable for the most popular threads used on cars and light commercial vehicles. Supplied in storage case.

**Tap Sizes:** M13 x 1.25, M13 x 1.5, M15 x 1.5, M17 x 1.5, M20 x 1.5, M22 x 1.5mm

**F SEE BELOW****Thread Inserts**

Replacement thread inserts for Sealey Thread Repair Kits.

<b>Model No:</b>	TRM5R
<b>Thread Size:</b>	M5 x 0.8mm
<b>Thread Lengths:</b>	3.5, 5, 7mm (5 of each)
<b>Model No:</b>	TRM6R
<b>Thread Size:</b>	M6 x 1mm
<b>Thread Lengths:</b>	4, 6, 9mm (5 of each)
<b>Model No:</b>	TRM8R
<b>Thread Size:</b>	M8 x 1.25mm
<b>Thread Lengths:</b>	6, 9, 12mm (5 of each)
<b>Model No:</b>	TRM9R
<b>Thread Size:</b>	M9 x 1.25mm
<b>Thread Lengths:</b>	7, 14mm (3 of each), 11mm (x4)
<b>Model No:</b>	TRM10R
<b>Thread Size:</b>	M10 x 1.5mm
<b>Thread Lengths:</b>	7.5, 15mm (3 of each), 11mm (x4)
<b>Model No:</b>	TRM12R
<b>Thread Size:</b>	M12 x 1.75mm
<b>Thread Lengths:</b>	9, 18mm (2 of each), 14mm (x4)
<b>Model No:</b>	TRM14R
<b>Thread Size:</b>	M14 x 1.25mm
<b>Thread Lengths:</b>	10, 21mm (1 of each), 16mm (x3)



**A DB8127**  
**Plastic Sump Plug - Ford Duratorq Pack of 10**  
 Replacement plastic sump plug used on Ford vehicles. Ford OEM Part Number: 1830727.



**B DB8131**  
**Plastic Sump Plug - VAG - Pack of 10**  
 Replacement plastic sump plug used on VAG vehicles. Also suitable for the camshaft cover on VAG 1.6D and 2.0TDi diesel engines. VAG OEM Part Number: 06L 103 801.



**C DB8165**  
**Plastic Sump Plug - BMW - Pack of 10**  
 Replacement plastic sump plug used on BMW vehicles. BMW OEM Part Number: 11137605018.



**D DB8198**  
**Plastic Sump Plug - Ford/PSA - Pack of 10**  
 Replacement plastic sump plug used on Citroen/Peugeot and Ford vehicles. Ford OEM Part Number: 1871598. Citroen/Peugeot OEM Part Number: 9801444780.



**E VS5053**  
**Oil Filter Drain Funnel - Vauxhall/Opel**  
 Designed to reduce the amount of time taken to replace the engine oil filter on Vauxhall/Opel vehicles fitted with the B20 diesel engine. Once the drain funnel is located, oil draining from the oil filter can be channelled into a suitable receptacle. Time-saving tool as it eliminates oil spillage onto vehicle chassis and components during filter change.



**F VS673**  
**5pc Plastic Oil Drain Plug Driver Kit**  
 Designed for use with BMW, Ford and PSA plastic drain bungs, as fitted to modern engine ranges. Contains T-Drive, slotted socket, adaptor, hex key and drive bit.

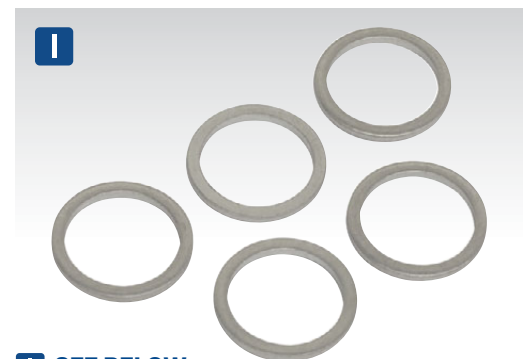


**G VS589**  
**Automatic Gearbox Oil Filler Set Mercedes 9G-Tronic**  
 Suitable for 9G-Tronic 725 series gearboxes fitted to Mercedes E350 BlueTEC (2013on) and CLS models (2014on). Contains a socket wrench to adjust oil level and a quick release coupling. Designed for drain and refilling operations.



**H SEE BELOW**  
**Sump Plugs - Packs of 5**  
 Replacement sump plugs. Suitable as a refill for Model No. VS660 drain plug thread repair kit. Supplied in packs of five.

Model No:	Size:
VS13SP	M13
VS15SP	M15
VS17SP	M17
VS20SP	M20



**I SEE BELOW**  
**Sump Plug Washers - Packs of 5**  
 Replacement sump plug washers. Suitable as a refill for Model No. VS660 drain plug thread repair kit. Supplied in packs of five.

Model No:	Size:
VS13SPW	M13
VS15SPW	M15
VS17SPW	M17
VS20SPW	M20

A

1/4"  
Sq Drive

VAG

**A VS652****1/4" Sq Drive Oil Drain Plug Key - VAG**

1/4" Sq drive key, designed specifically for the plastic sump plugs found on VAG TFSi engines. Also designed for use on the cam cover of new 1.6 and 2.0 twin cam diesel VAG engines.

**Drive:** 1/4" Sq

**OEM Tool:** T10549

**Applications:** VAG Sump Plug; 1.2, 1.4, 1.8, 2.0 TFSi, VAG Cam Cover; 1.6, 2.0 TDi

D

3/8"  
Sq Drive**D AK6586****21pc 3/8" Sq Drive Oil Drain Plug Key Set**

Comprehensive set of Chrome Vanadium steel keys with sliding T-bar. Suitable for sump plugs on engine, gearbox and back axle.

**Contents:** Square Male; 7, 8, 10, 11, 12, 13, 14mm, 5/16", 3/8", Square Female; 10mm, Hex; 8, 9, 10, 12, 13, 14, 17mm, Triangle; 10mm (PSA), Security Spline; M16 (VAG), TRX-Star\*; T45 (Vauxhall/Opel), 3/8" Sq Drive Sliding T-Bar

G



Premier

**G VS650****8-in-1 Oil Drain Plug Wrench**

The right size drain plug key always in your hand. Eight popular sizes covered in one tool. Suitable for drain plugs on engine, gearbox and rear axle.

**Sizes:** Hex; 10, 12, 14, 17mm, Square; 3/8", 1/2", 8, 10mm

B



VAG

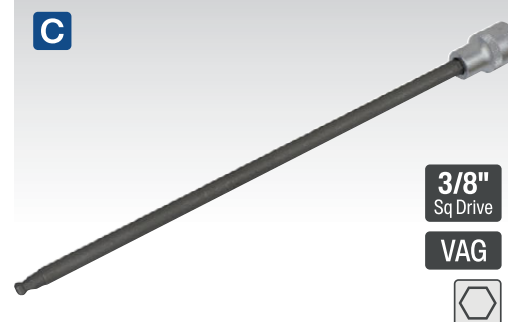
**B VS653****T-Handle Oil Drain Plug Key - VAG**

Designed specifically for the plastic sump plugs found on the VAG TFSi engines. Also designed for use on the cam cover of new 1.6 and 2.0 twin cam diesel VAG engines. Features T-handle for quick operation.

**OEM Tool:** T10549

**Applications:** VAG Sump Plug; 1.2, 1.4, 1.8, 2.0 TFSi, VAG Cam Cover; 1.6, 2.0 TDi

C

3/8"  
Sq Drive

VAG

**C VS0590****5mm 3/8" Sq Drive Extra-Long Ball-End Hex Key - VAG**

Manufactured from Chrome Vanadium steel. Designed for easy-access on engine sump bolts. Suitable for a variety of VAG vehicles.

**Drive:** 3/8" Sq

**Length:** 235mm

E

**E AK658****6pc Double End Oil Drain Plug Key Set**

Double end carbon steel keys with chemically blackened finish. Suitable for sump plugs on engine, gearbox and back axle. Use with 19mm socket on ratchet driver. Supplied in storage case.

**Sizes:** Hex; 5/16", 3/8", 1/2", 8, 10, 12, 14, 17mm, Square; 3/8", 8, 11, 13mm

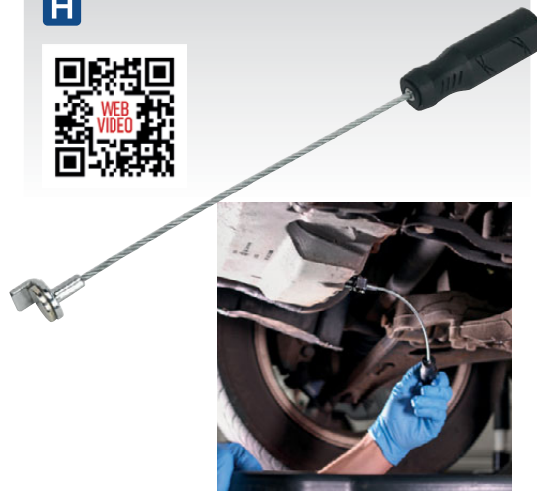
F

**F AK659****6pc Double End Drain Key Set**

Double end carbon steel keys with satin chrome finish. Suitable for drain plugs on engine, gearbox and back axle. Includes tommy bar. Supplied in storage case.

**Sizes:** Hex; 5/8", 9, 10, 12, 14, 17mm, Square; 3/8", 8, 11, 13mm

H

**H VS651****Safety Sump Plug Remover**

Designed to remove the sump plug after it has been loosened, without making contact with hazardous hot oil. Features 90° edge for turning aid, and magnet for stability.

I

Touch  
Screen  
Fingertips

Premier

**I SEE BELOW****Light Palm Tactouch Mechanic's Gloves**

Professional close fitting gloves with touchscreen index fingertips. Unlike conventional mechanic's gloves, they allow precision control when working with small fixings and tools. Soft, breathable and durable with anti-slip palms. Washable materials.

**Model No:** MG798L  
**Size:** Large

**MG798XL** X-Large





**3/8" & 1/2" Sq Drive**

**A AK642**  
**3/8" & 1/2" Sq Drive Oil Filter Claw Wrench**  
**Ø63-103mm Capacity**

Satin finish steel construction with 3/8" and 1/2" Sq drive. Also suitable for use with a 21mm(13/16") spanner. Claws grip filter tighter as more torque is applied.

Capacity:	Ø63-103mm
Drive:	3/8" & 1/2" Sq
Claw Length:	29mm



**3/8" & 1/2" Sq Drive**

**B AK643**  
**3/8" & 1/2" Sq Drive Oil Filter Claw Wrench**  
**Ø65-110mm Capacity**

Satin finish steel construction with 3/8" and 1/2" Sq drive. Also suitable for use with a 21mm(13/16") spanner. Claws grip filter tighter as more torque is applied.

Capacity:	Ø65-110mm
Drive:	3/8" & 1/2" Sq
Claw Length:	44mm



**3/8" Sq Drive**

**C AK6432**  
**3/8" Sq Drive Magnetic Oil Filter Claw Wrench - Ø60-93mm Capacity**

Satin finish steel construction with 3/8" Sq drive. Spring loaded claws automatically adjust to the size of the filter. Features magnets to help positioning on oil filter.

Capacity:	Ø60-93mm
Drive:	3/8" Sq
Claw Length:	25mm



**3/8" & 1/2" Sq Drive**

**D AK6403**  
**3/8" & 1/2" Sq Drive Oil Filter Strap Wrench**  
**Ø300mm Capacity**

Satin finish cast steel body with 3/8" and 1/2" Sq drive. Designed for use with ratchet wrench, but may also be used with a 21mm(13/16") spanner. Extra-wide nylon webbing strap.

Capacity:	<Ø300mm
Drive:	3/8" & 1/2" Sq



**1/2" Sq Drive**

**E AK640**  
**1/2" Sq Drive Oil Filter Strap Wrench**  
**Ø120mm Capacity**

Satin chrome finish socket. Use with 1/2" Sq drive ratchet or 21mm(13/16") spanner. Strong 25mm wide nylon webbing with capacity up to Ø120mm.

Capacity:	<Ø120mm
Drive:	1/2" Sq



**1/2" Sq Drive**

**F AK641**  
**1/2" Sq Drive Oil Filter Chain Wrench**  
**Ø135mm Capacity**

Satin finished carbon steel body with 1/2" Sq drive for use with ratchet wrenches. May also be used with a 20mm spanner. Heavy-duty chain.

Capacity:	<Ø135mm
Drive:	1/2" Sq



**G VS936**  
**Ø60-105mm Oil Filter Chain Wrench**

Steel chain wrench with 180° pivoting handle suitable for filters with limited access. Heavy-duty chain with spring locking mechanism for added security.

Capacity:	Ø60-105mm
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**H CV936**  
**Ø60-160mm Air Dryer Cartridge Chain Wrench - Commercial**

Steel chain wrench with 180° pivoting handle suitable for filters with limited access. Heavy-duty chain with spring locking mechanism for added security. Essential tool for removing commercial air brake filters.

Capacity:	Ø60-160mm
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**I-J**  
**1/2" Sq Drive**

**I CV937**  
**Ø73-169.5mm Air Dryer Cartridge Chain Wrench**

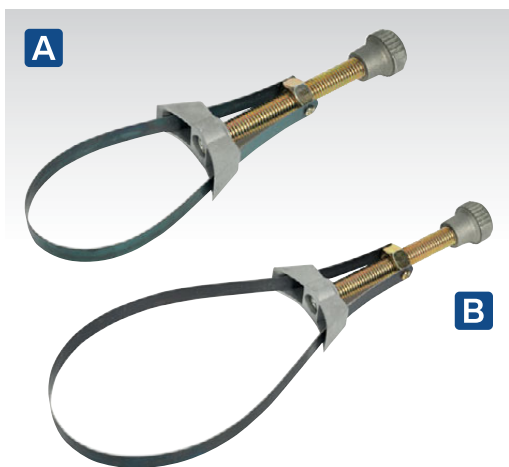
Satin finished carbon steel body with 1/2" Sq drive for use with ratchet wrenches. Heavy-duty thin double chain. Essential tool for removing commercial air brake filters.

Capacity:	Ø73-170mm
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**J VS937**  
**Ø60-115mm Oil Filter Chain Wrench**

Satin finished carbon steel body with 1/2" Sq drive for use with ratchet wrenches. Heavy-duty thin double chain.

Capacity:	Ø60-115mm
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**A-B SEE BELOW****Oil Filter Band Wrenches**

Band type filter wrenches. Steel strap with heavy-duty cast body and control knob. Removes filters with minimal risk of damage.

Model No:	Capacity:
<b>A</b> AK644	Ø65-105mm
<b>B</b> AK645	Ø105-155mm

**C-D SEE BELOW****Oil Filter Band Wrenches**

Articulated filter wrenches suitable for filters with limited access. No ratchet or combination spanner necessary. Swivel action tightens band on filter automatically. PVC Dipped handle.

Model No:	Capacity:
<b>C</b> AK6415	Ø73-82mm
<b>D</b> AK6416	Ø89-98mm

**E AK6441****Oil Filter Band Wrench**

Features textured high grip steel strap with comfort grip handle and control knob. Removes filters with minimal risk of damage.

<b>Capacity:</b>	Ø65-105mm
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**G-H SEE BELOW****Strap Wrenches**

Suitable for removing and installing oil filters as well as many other applications. Adjustable strap fits filters up to Ø120mm or Ø150mm, depending on model. Features soft grip handle for added comfort.

Model No:	Capacity:
<b>G</b> AK6406	Ø120mm
<b>H</b> AK6407	Ø150mm

**I AK6408****2pc Strap Wrench Set**

Suitable for removing and installing oil filters as well as many other applications. Adjustable strap fits filters up to Ø120mm or Ø150mm depending on wrench. Features soft grip handle for added comfort.

<b>Capacity:</b>	Ø120, Ø150mm
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**F AK6404****Oil Filter Strap Wrench**

Satin finished, drop-forged steel body with hanging hole. Reinforced, rubberised strap.

<b>Capacity:</b>	Ø60-140mm
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**J AK6420****Oil Filter Wrench**

Spring loaded serrated jaws provide firm grip to oil filter. Slim design allows access in tight spaces.

<b>Capacity:</b>	Ø75-95mm
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**K AK6409****Oil Filter Chain Wrench**

Forged steel body with chrome finish and hanging hole.

<b>Capacity:</b>	Ø60-140mm
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**L AK6410****Oil Filter Chain Wrench**

Extended-pin chain and twin-claw body for positive and reliable chain retention. Drop-forged steel body with hanging hole.

<b>Capacity:</b>	Ø60-106mm
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**M VS664****Sump Separator**

Designed to separate the engine or gearbox sump without damaging the sump. Thin blade allows for the seal to be broken by lightly tapping the body with a hammer. Features two handle locations making it ideal for use in confined engine spaces.

<b>Length:</b>	110mm
<b>Width:</b>	70mm



**A-B SEE BELOW**  
**Oil Filter Pliers**

Serrated jaws and long handles for extra grip on oily filters. Dipped non-slip rubber grip handles for added comfort and control.

Model No:	Capacity:
<b>A</b> AK6412	Ø54-89mm
<b>B</b> AK6411	Ø60-108mm



**C AK6419**  
**Auto-Adjusting Oil Filter Pliers**

2-Stage action that automatically adjusts to the size of the filter, then tightens. Layered steel construction for added strength. Features serrated jaws to maximize grip and non-slip handles for added control.

<b>Capacity:</b>	Ø60-120mm
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**D AK6417**  
**Ø57-120mm Swivel Jaw Filter Pliers**

Jaws swivel up to 90° to give access to awkwardly positioned oil and fuel filters. Chemically blackened finish to prevent corrosion and non-slip grip for added comfort and control.

<b>Capacity:</b>	Ø57-120mm
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**10 Tonne**

**AIR Operated**



**HEAVY ITEM**

**E HFC08**  
**Pneumatic Oil Filter Crusher**

Reduce your waste disposal costs\* - crushing filters minimizes the volume of your hazardous waste. Air operated oil filter press with safety lock-out device which prevents the door being opened during operation. Floor mounting unit with outlet for waste oil transfer.

<b>Capacity:</b>	10 Tonne
<b>Internal Size (H x W x D):</b>	280 x 190 x 190mm
<b>External Size (H x W x D):</b>	880 x 550 x 335mm
<b>Maximum Filter Capacity (Height x Ø):</b>	216 x Ø152mm
<b>Air Supply:</b>	100-190psi
<b>Pressing Time:</b>	30sec

\* For 'pay by volume' customers.



**F AK6421**  
**Self-Adjusting Oil Filter Pliers - Angled**

30° Angled head allows access to previously impossible to reach areas. Jaws auto-adjust with one-hand operation. Layered steel construction for added strength. Non-slip shaped cushioned grips for comfort. Use for Ø60mm to 120mm capacity.

<b>Capacity:</b>	Ø60-120mm
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**H AK6422**  
**Oil Filter Locking Pliers**

Used for removing canister style oil filters. The serrated jaws can be locked into place offering a strong grip, even on oily filters. Drop-forged alloy jaws manufactured from Chrome Vanadium with body manufactured from Molybdenum.

<b>Capacity:</b>	Ø45-130mm
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**G OFC1**  
**Oil Filter Crushing Unit**

Used in conjunction with a press, this unit crushes filters up to Ø115mm and removes most of the oil and sludge, which drains into a suitable container (not included). Crushing filters minimizes the cost of disposal of hazardous waste by volume. Supplied with ram extension to allow 2-stage crushing of large filters without repositioning press table. Suitable for Ø38mm(1.5") press rams. Optional adaptors enable use with Ø50mm and Ø60mm rams.

<b>Internal Diameter:</b>	Ø130mm
<b>Effective Internal Height:</b>	175mm
<b>Drain Hose:</b>	Ø10 x 1250mm

<b>Optional Ram Adaptors:</b>	
Model No:	Size:
OFA50	Ø50 x 115mm
OFA60	Ø60 x 115mm

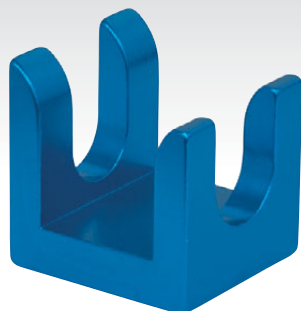


**I AK6423**  
**Oil Filter Locking Pliers - Angled**

Used for removing canister style oil filters. The serrated angled jaws can be locked into place offering a strong grip, even on oily filters. Drop-forged alloy jaws, angled for hard-to-access filters. Jaws are manufactured from Chrome Vanadium with body manufactured from Molybdenum.

<b>Capacity:</b>	Ø45-130mm
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A

BMW  
MINI**A SX199****Fuel Line Disconnection Tool - BMW**

Designed for disconnecting fuel lines on BMW engines. Applications: BMW 3 Series 2006-2011 and X3 2006-2009 plus Mini Cooper 2007-2013. Manufactured from aluminium.

B



BMW

**B SX198****Oil Cooler Line Disconnection Tool - BMW**

Designed for use on power steering and transmission oil cooler lines on BMW 1999-2011 3 Series and X5 vehicles. Manufactured from aluminium.

C

1/2"  
Sq Drive

VAG Premier

**C SX107****M16 x 55mm 1/2" Sq Drive Security Spline Socket Bit**

Chrome Vanadium steel socket with knurled ring and S2 steel bit. Suitable for gearbox drain plugs on Audi; A3, A4, A6, VW; Golf IV and LT.

D

3/8" & 1/2"  
Sq Drive

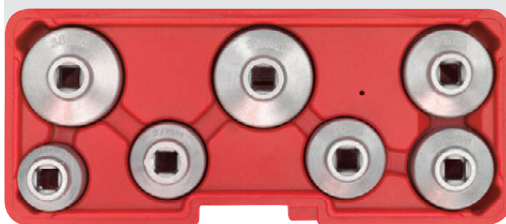
Low Profile

**D VS7103****6pc Oil Filter Cap Wrench Set**

Low profile design for removing paper cartridge oil filter housing caps and slotted canister style oil filters. Use with 3/8" Sq drive for 24, 27, 29, 32, 36mm and 1/2" Sq drive for 42mm. Supplied in storage case.

Size:	Flutes / Steps:	Size:	Flutes / Steps:
24mm	6/1	32mm	6/1
27mm	6/1	36mm	6/1
29mm	6/1	42mm with 6.5mm Bar	0/1

G



Low Profile

3/8"  
Sq Drive**G VS7008****7pc Oil Filter Cap Wrench Set**

Aluminium cap type filter wrenches with 3/8" Sq drive. Low profile design for removing paper cartridge style oil filters commonly fitted to vehicles including Ford, Mercedes, Vauxhall/Opel and VW.

Size:	Flutes / Steps:	Size:	Flutes / Steps:
24mm	6/1	32mm	6/1
27mm	6/1	36mm	6/1
29mm	6/1	38mm	6/1
30mm	6/1		

E

3/8" & 1/2"  
Sq Drive**E VS7003****15pc Oil Filter Cap Wrench Set**

Cap type filter wrenches, made from 7 and 16 gauge steel will withstand up to 115Nm (85lb.ft) of torque. Designed to grip like sockets, thereby minimising the possibility of crushing filters. Electro-black oxide finish for rust protection. Use with 3/8" or 1/2" Sq drive wrenches. Supplied in storage case.

Adaptor:		3/8" Sq Drive(M) x 1/2" Sq Drive(F)	
Size:	Flutes / Steps:	Size:	Flute / Steps:
65mm	14/1	76mm	30/1
65-67mm	14/2	80mm	15/1
68mm	14/1	82mm	15/1
73mm	14/1	90mm	15/1
74-76mm	15/2	93mm	15/1
75-77mm	15/2	93mm	36/1
74-76mm	14/2	100mm	15 / 1

F

**F VS559****Nut/Bolt Drill Jig**

An essential race-day tool. Compact design ensures accurate drilling of nuts and bolts. Supplied in a pouch.

**Sizes:** M6 x 1, M8 x 1, M8 x 1.25, M10 x 1.25, M10 x 1.5, M12 x 1.5mm

H

100g  
PICK-UP

Magnetic

Ø4mm

**H VS6511****Flexible Magnetic Pick-Up Tool  
100g Capacity**

Flexible magnetic pick-up tool perfect for reaching those hard-to-access areas, built with a 400mm long shaft for extended reach. 100g Magnetic pick-up capacity. Rubberised grip on a precision handle helps make small movements in tight spaces easier, with a Ø4mm head suitable for use in cylinder heads and glow plug apertures.



**A VS7117**  
**Oil Filter Cap Wrench**  
 Ø84mm x 14 Flutes - Mercedes BlueTEC  
 Cap type oil filter wrench. 3/8" Sq drive for use with torque wrenches. Designed for use on Mercedes Sprinter vans with 3L petrol and diesel engines. Also fits Mercedes C Class V 3.0, R320 CDI, ML320 CDI SUVs. Not suitable for impact use.

<b>Applications:</b>	Mercedes Sprinter
<b>Drive:</b>	3/8" Sq
<b>Size:</b>	Ø84mm
<b>Flutes:</b>	14



**B VS7120**  
**Oil Filter Cap Wrench**  
 Ø90mm x 15 Flutes - Jaguar/Land Rover  
 Cap type oil filter wrench. 3/8" Sq drive for use with torque wrenches. Designed for use on Jaguars and Land Rovers. Applications: Jaguar; XF, XJ (10-17), XFR, XJL, XK, XKR (10-16), Land Rover LR4, Range Rover, Range Rover Sport (10-17). Not suitable for impact use.

<b>Applications:</b>	Jaguar/Land Rover
<b>Drive:</b>	3/8" Sq
<b>Size:</b>	Ø90mm
<b>Flutes:</b>	15



**C VS7145**  
**Ø74.5mm 15pt Oil Filter Wrench - Ford 1.5, 1.6 EcoBoost Engine**  
 Angled 1/2" Sq drive for easy-access. 74.5mm Diameter 15-point. Fits a wide range of Ford vehicles fitted with 1.5 and 1.6 EcoBoost engines.

<b>Applications:</b>	Ford 1.5, 1.6 EcoBoost Engine
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**D-K SEE BELOW**  
**3/8" Sq Drive Oil Filter Cap Wrenches**

Cap type filter wrenches prevent damage to filter housing and will withstand up to 115Nm(85lb.ft) of torque. Suitable for use in confined areas.

Model No:	Flutes:	Size:	Applications:
<b>D VS7006.V2-06</b>	14	Ø76mm	BMW, Mercedes, Porsche, VAG
<b>E VS7006.V2-07</b>	12	Ø76mm	Citroen, Ford, Mercedes, Peugeot, Renault, VAG
<b>F VS7006.V2-08</b>	8	Ø76mm	Fiat, Lancia, Moto Guzzi (Motorcycles)
<b>G VS7006.V2-15</b>	18	Ø86mm	Alfa Romeo, Fiat, Mercedes, Renault, Seat, VW
<b>H VS7006.V2-16</b>	16	Ø86mm	Volvo
<b>I VS7006.V2-22</b>	45	Ø93mm	Audi, VW
<b>J VS7006.V2-23</b>	15	Ø95mm	Ford; Transit Vans
<b>K VS7006.V2-24</b>	18	Ø96mm	VAG



**L VS7006**  
**30pc Oil Filter Cap Wrench Set**

Extensive set designed for a wide range of vehicles. Cap type filter wrenches, made from 7 and 16 gauge steel, will withstand up to 115Nm(85lb.ft) of torque. Designed to grip like sockets, thereby minimising the possibility of crushed filters. Includes adjustable oil filter wrench. Adaptor allows use with 3/8" or 1/2" Sq drive wrenches.

Adaptor:		3/8" Sq Drive (M) x 1/2" Sq Drive (F)	
Size:	Flutes / Steps	Size:	Flutes / Steps:
65mm	14/1	80mm	15/1
65-67mm	14/2	80-82mm	15/2
66mm	6/1	86mm	16/1
68mm	14/1	86mm	18/1
73mm	14/1	90mm	15/1
74mm	15/1	92mm	10/1
74-76mm	15/2	93mm	15/1
75-77mm	15/2	93mm	36/1
76mm	8/1	93mm	45/1
76mm (Shouldered)	12/1	95mm	15/1
76mm	14/1	96mm	18/1
76mm	30/1	100mm	15/1
78mm	15/1	106mm	15/1

**Filter Claw Wrench:** Ø65-120mm



**M VSE203**  
**12pc Oil Pressure Test Kit**

Ø65mm Gauge fitted with heavy-duty cover. Tests oil pump pressure and also low oil warning devices. Fitted with quick coupling adaptors and 1.3m hose. Includes 90° coupling adaptor for limited access applications.

<b>Adaptors:</b>	1/8" DIN 2999, 1/8" x 27NPT, 1/4" x 18NPT, 3/8" x 20UNF, 1/2" x 20UNF, M10 x 1, M12 x 1.5, M14 x 1.5, M16 x 1.5, M18 x 1.5mm, 90° Elbow
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**A VS7200**  
**Oil Filter Cap Remover - Ford/Jaguar/  
 Citroen/Peugeot 2.0D/2.2D Diesel**

Suitable for removing the cap from the oil filter housing on Ford, Citroen, Peugeot 2.0D/2.2D HDi/TDCi diesel engines (DW10C, DW12C) and Jaguar XF 2.2D from 2012 onwards. Allows access to the hard-to-reach 27mm hex located on the filter cap. Use with 1/2" Sq drive wrench.

**OEM Tool:** 303-1579

**Applications:**

**Ford:** C-Max, Grand C-Max, S-Max, Focus, Mondeo, Galaxy, Kuga

**Citroen:** C4, C5, Picasso, Grand Picasso

**Peugeot:** 308, 3008, 508, 5008, 407, RCZ

**Jaguar:** XF

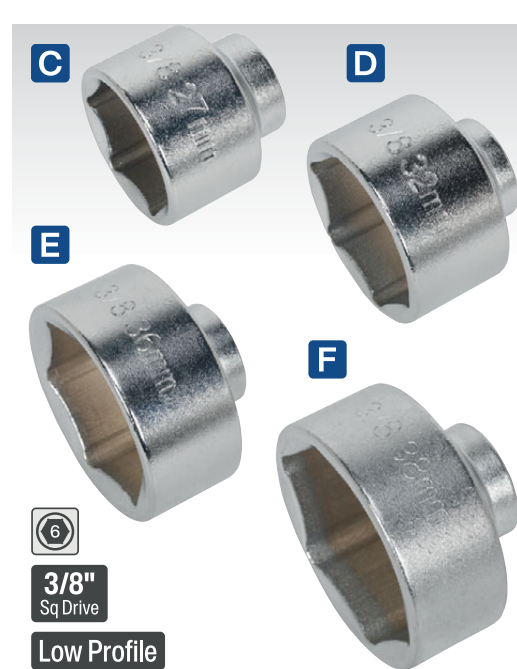


**B VS653**  
**T-Handle Oil Drain Plug Key - VAG**

Designed specifically for the plastic sump plugs found on the VAG TFSi engines. Also designed for use on the cam cover of new 1.6 and 2.0 twin cam diesel VAG engines. Features T-handle for quick operation.

**OEM Tool:** T10549

**Applications:** VAG Sump Plug; 1.2, 1.4, 1.8, 2.0 TFSi, VAG Cam Cover; 1.6, 2.0 TDi



**C-F SEE BELOW**

**3/8" Sq Drive Low Profile Oil Filter Sockets**

High grade steel sockets. Low profile design enables use on cartridge style filters.

**C Model No:** SX112

**Size:** 27mm

**Drive:** 3/8" Sq

**Applications:** Mercedes; A Class

**D Model No:** SX113

**Size:** 32mm

**Drive:** 3/8" Sq

**Applications:** Vauxhall/Opel; Astra-G, Corsa-B, Zafira

**E Model No:** SX114

**Size:** 36mm

**Drive:** 3/8" Sq

**Applications:** BMW; 24v Petrol/

Diesel, Ford Duratorq; Mondeo 2.0D, Transit 2.0, 2.5,

Mercedes; Vito CDi, Vauxhall/Opel; 16v (98on)

**F Model No:** SX115

**Size:** 38mm

**Drive:** 3/8" Sq

**Applications:** Vauxhall; Vectra 2.0D



**G AK36D**  
**36L Mobile Oil Drainer - Manual Discharge**

For full details, see page 650.



**H AK80D**  
**80L Mobile Oil Drainer - Gravity Discharge**

For full details, see page 650.



**I-N SEE BELOW**  
**Oil Filter Cap Wrenches**

Cap type oil filter wrenches. Crowned tops provide extra leverage points for removing stubborn oil filter housing caps. Aluminium alloy material minimizes risk of damage to filter housing.

Model No:	Size:	Flutes:	Drive:	Applications:
<b>I VS7111</b>	Ø64.5mm	14	3/8" Sq	Toyota
<b>J VS7112</b>	Ø64.5mm	14	3/8" Sq	Lexus/Toyota
<b>K VS7113</b>	Ø74.5mm	14	3/8" Sq	Mercedes
<b>L VS7114</b>	Ø87mm	16	1/2" Sq	Volvo
<b>M SX226</b>	Ø74mm	14	3/8" Sq	Audi, BMW, Citroen, Fiat, Ford, Lancia, Mazda, Mercedes, Nissan, Peugeot, Porsche, Renault, Suzuki, Toyota, Vauxhall/Opel, VW
<b>N VS7115</b>	Ø93-96mm	18	3/8" Sq	Renault dCi 2.2 G9T, 2.5 G9U



**A VS7009**  
**7L Transmission & Engine Oil Filling System**

Manually operated oil dispensing unit manufactured from composite materials. Large visual measurement will identify amount dispensed. Supplied with a range of five automatic transmission fluid adaptors. Delivers approximately 70ml per stroke. Features a fluid control valve and adaptor stowage to minimize oil leakage when not in use.

<b>Capacity:</b>	7L
<b>Hose Length:</b>	1.5m



**B VS70095**  
**3L Transmission Oil Filling System**

Pump operated oil dispensing unit with a 3L capacity. Supplied with five multipurpose and three vehicle specific automatic transmission fluid adaptors. Features a fluid control and depressurising valve.

<b>Capacity:</b>	3L
<b>Maximum Pressure:</b>	20psi(1.4bar)
<b>Hose Length:</b>	1.5m
<b>Applications:</b>	
<b>Mercedes M12 Thread:</b>	722.9 Gearbox
<b>Audi/VW M22 Thread:</b>	CVT (Continuously Variable Transmission)
<b>Audi/VW M24 Thread:</b>	DSG (Direct-Shift Gearbox),
<b>Multi-Purpose Adaptors:</b>	M10 x 0.9mm Thread, M10 x 1mm Thread, 3 x Angled



**C VS70096**  
**5L Transmission Oil Filling System**

Pump operated oil dispensing unit with a 5L capacity. Ideal for filling manual transmissions and differentials. Supplied with 100° hooked metal and flexible adaptors. Features a fluid shut-off valve to prevent accidental spillage. Includes a pressure gauge.

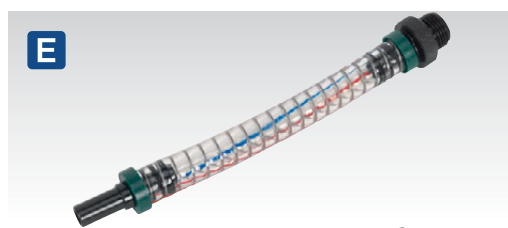
<b>Capacity:</b>	5L
<b>Maximum Pressure:</b>	15psi(1bar)
<b>Hose Length:</b>	1.5m



**D VS70091**  
**Transmission Oil Filler Adaptor - VAG**

For use in conjunction with Model No. VS7009 Transmission and Engine Oil Filling System. Suitable for automatic transmissions on VAG vehicles.

<b>Thread Size:</b>	M30 x 1.5mm
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**E VS70092**  
**Transmission Oil Filler Adaptor - Toyota/Lexus**

For use in conjunction with Model No. VS7009 Transmission and Engine Oil Filling System. Suitable for automatic transmissions on Toyota/Lexus vehicles.

<b>Thread Size:</b>	M18 x 1.5mm
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**F VS70093**  
**Transmission Oil Filler Adaptor - VW Passat/Tiguan**

For use in conjunction with Model No. VS7009 Transmission and Engine Oil Filling System. Suitable for automatic transmissions on VW Passat and Tiguan 2007 onwards.

<b>Thread Size:</b>	M10 x 1mm
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**G VS70090**  
**3pc Transmission Oil Adaptor Set**

For use in conjunction with Model No. VS7009 Transmission and Engine Oil Filling System. Set contains automatic transmission oil adaptors suitable for Audi, Mercedes and VW vehicles. Supplied in storage case.

<b>Thread Size:</b>	M12, M22, M24
<b>Applications:</b>	
<b>Mercedes M12 Thread:</b>	722.9 Gearbox
<b>Audi/VW M22 Thread:</b>	CVT (Continuously Variable Transmission)
<b>Audi/VW M24 Thread:</b>	DSG (Direct-Shift Gearbox)



A

8L

Oil

Antifreeze



## A TP204

## 8L Vacuum Fuel/Fluid Extractor

For full details, see page 437.



B

9L

15L

25L

Low Profile

## B SEE BELOW

## Low Profile Drip Trays

Low profile drip trays manufactured from hard-wearing recycled polypropylene. These have a broad appeal to both the classic car user and general mechanic. Purpose-made for the recovery of oil and fluids, these drip trays can be left under most vehicles due to their low profile design. These are ideal for use over prolonged periods of time, catching any drips that may occur whilst in storage or in the workshop. Model No's DRPL15 and DRPL25 are extra-long in order to cover drips from both engine and gearbox.

Model No:	Size (W x D x H):	Capacity:
DRPL09	570 x 390 x 50mm	9L
DRPL15	1000 x 400 x 50mm	15L
DRPL25	1100 x 550 x 50mm	25L



C

1/2"  
Sq Drive

VAG

## C VS70097L

## Transmission Filter Wrench Long - VAG

Specially designed for the oil and filter change on DSG gearboxes fitted in VAG vehicles. Time-saving tool, allows filter removal without removing the battery. Shorter version available for common rail engines - Model No. VS70097S (see D).

Drive: 1/2" Sq



D

1/2"  
Sq Drive

VAG

## D VS70097S

## Common Rail DSG Transmission Filter Wrench - VAG

Specially designed shorter version (100mm) for VAG models with common rail engines and DSG gearboxes. Time-saving tool, allows filter removal without removing the battery. Longer version available - Model No. VS70097L (see C).

Drive: 1/2" Sq



E

3/8"  
Sq Drive

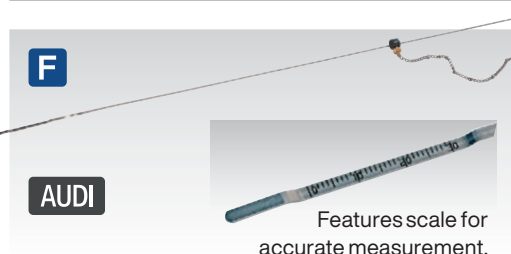
JAGUAR

## E VS266

## Automatic Gearbox Filler Wrench - Jaguar

Suitable for Jaguar XJR, XJ, XK8, XKR, XF and S-Type using the 6HP26 automatic transmission. Allows the oil filler bung to be accessed where space is limited. Supplied with two adaptor pieces.

Drive: 3/8" Sq



F

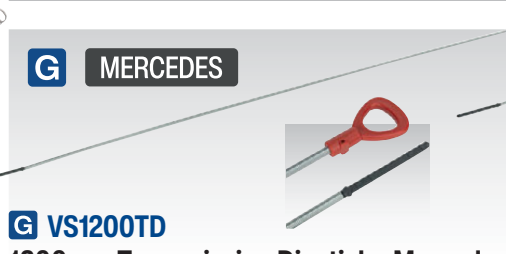
AUDI

Features scale for accurate measurement.

## F VS600ED

## 600mm Engine Dipstick - Audi

Designed to measure the engine oil levels on Audi vehicles fitted with electronic oil level systems. Can also be used to calibrate the driver's instrument panel. Will also check the engine oil level on Audi; A4/A5 3.2 6-cylinder engines.

OEM Tool: T40178  
Length: 600mm

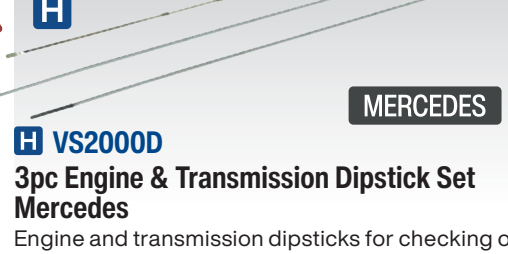
G

MERCEDES

## G VS1200TD

## 1200mm Transmission Dipstick - Mercedes

Transmission dipstick for checking the fluid level on Mercedes 722.6, 722.7, 722.8 and 716.5 automatic transmissions, fitted to most Mercedes vehicles from 1996 to 2006. The dipstick is a service tool, therefore must be removed after the fluid has been checked. Made from spring steel with plastic measuring tip for accurately checking the fluid level.

Transmission Codes: 722.6, 722.7, 722.8, 716.5  
Length: 1.2m

H

MERCEDES

## H VS2000D

## 3pc Engine &amp; Transmission Dipstick Set Mercedes

Engine and transmission dipsticks for checking oil level. This comprehensive set is compatible with a large selection of vehicles in the Mercedes range. Engines ranging from 1988 to 2005. Transmissions ranging from 1996 to 2006. The dipstick is a service tool, therefore must be removed after the fluid has been checked.

Blue - Engine Codes: 103, 104, 111, 112, 113, 119, 120, 137, 271, 272, 604, 605, 606, 611, 612, 613, 628, 642, 646, 647, 648  
Green - Transmission Codes: 716.5, 722.7, 722.8  
Red - Transmission Code: 722.6





**A VS7032**  
**52pc Bearing Race & Seal Driver Set**

Set of 49 square edged heavy-duty steel drivers from Ø18mm to Ø74mm. Suitable for installation of bearings or seals without damaging the bearing, seal or housing. Adaptors can also be used in a standard workshop press. Supplied in storage case.

**Contents:** Driver (x49), Punch, Punch Extension, 3mm Hex Key

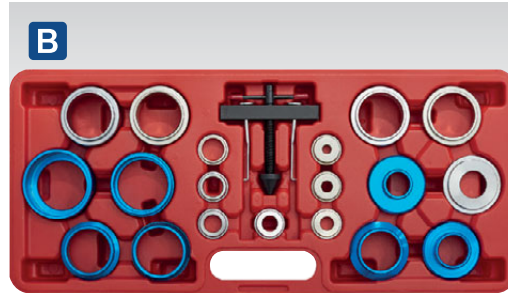
**Driver Sizes:** Ø18-65mm (1mm increments), Ø74mm



**F VS5211**  
**4pc O-Ring Removal Tool Set**

Set of four angled tools that allow removal of O-rings and seals without damage. Features contoured and spoon tips.

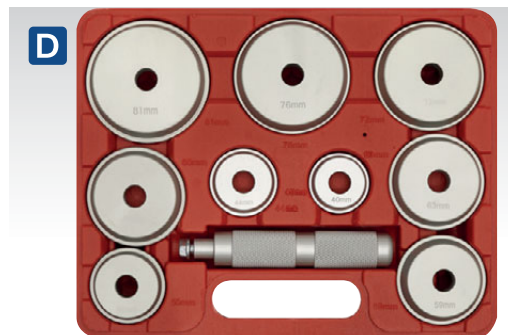
**Lengths:** 130mm (x2), 200mm (x2)



**B VS7002**  
**20pc Oil Seal Removal/Installation Kit**

Comprehensive kit for the removal and installation of oil seals without damaging the new seal or housing. Kit includes a seal removal puller and seven adaptors to fit most sizes. Designed to allow original pulley/flange bolt to be used to press in the new seal, ensuring a squarely seated seal every time. Supplied in storage case.

<b>Adaptor Sizes:</b>	28, 34, 42, 46, 49, 56, 64mm
<b>Bolt Adaptors:</b>	8, 10, 12, 14, 16, 18, 20mm
<b>Height of Spacers:</b>	10, 18, 22, 27mm



**D VS703**  
**10pc Aluminium Bearing Race & Seal Driver Set**

**Aluminium**

Set of nine aluminium bearing and seal drivers. Suitable for straight installation of bearing race without damage to the bearing or axle housing. Fits most popular bearing race sizes. Supplied in storage case.

**Driver Sizes:** Ø39.5, 44, 50, 59, 63, 64.5, 72, 76, 81mm



**G AK7000**  
**Seal Puller**

Chrome shaft with chemically blackened tip insert. Suitable for safe removal of oil and grease seals found in automotive drives and transmissions, without damage to seal or surrounding casting. The two tips fit most popular seal sizes.

**Length:** 295mm



**C VS7024**  
**37pc Bearing & Seal Installation Kit**

Lightweight design for the installation of bearings without damaging the bearing or housing. Contains three metal bearing drift sleeves and 34 nylon drifts. Can also be used to install oil seals. Fits most sizes of bearing and seals found on modern vehicles.

<b>Drift Sleeve:</b>	Ø25, 40, 60mm
<b>Drift Sleeve Length:</b>	220mm
<b>Nylon Drift Diameter:</b>	Ø26, 28, 30, 32 (x2), 35 (x3), 37, 40, 42 (x2), 47 (x3), 52 (x2), 55, 60, 62 (x3), 68, 72 (x2), 75, 80 (x2), 82, 85, 90 (x2), 100, 110mm



**E AK658**  
**6pc Double End Oil Drain Plug Key Set**

Double end carbon steel keys with chemically blackened finish. Suitable for sump plugs on engine, gearbox and back axle. Use with 19mm socket on ratchet driver. Supplied in storage case.

<b>Contents:</b>	
<b>Hex:</b>	5/16", 3/8", 1/2", 8, 10, 12, 14, 17mm
<b>Square:</b>	3/8", 8, 11, 13mm



**H VS7033**  
**3pc Axle Bearing Puller Set**

3-Piece axle bearing remover set is designed for easy removal of rear axle bearings. Use with Sealey slide hammer PS983 or PS992 (sold separately - see page 609). Puller head sizes: 20, 24, 30mm. Supplied in storage case.

A

**A AK710****17pc Universal Clutch Aligning Tool Set**

Chemically blackened steel components in storage case. Aids alignment of clutch plate for assembly.

Spigot Adaptors:	Ø10.6-20mm
Mandrel:	Ø14.2-25.5mm

D

**D VS711****11pc Clutch Alignment Tool Set**

Suitable for a wide range of vehicles including some light commercial. Screw action provides fast adjustment for required hub diameter. Eight interchangeable spigot adaptors aid close alignment.

Spigot Adaptors:	Ø12, 14-20mm
Mandrel:	Ø15-19, 20-26.6, 23-36mm

G

**G SX0110****Propshaft Impact Socket - Land Rover**

Manufactured from Chrome Molybdenum and specially designed for propshaft bolts on Land Rovers. Slim wall socket design with slim extension enables it to fit perfectly between the yokes of the propshaft. Suitable for most Land Rover Defenders, Discoverys and Range Rovers.

Drive:	1/2" Sq
Socket Size:	9/16"
Outer Socket Diameter:	Ø20mm
Length:	150mm

B

**B VS010****Universal Clutch Alignment Tool**

Nylon components with steel main shaft. Fits 90% of cars and light vans up to 5 Tonne gross (not suitable for vehicles with double plate clutches). Supplied with three different sized expanding colletts.

E

**E CV031****Clutch Alignment Set - Commercial**

Suitable for a wide range of commercial vehicles. Screw action provides fast adjustment to suit hub diameter. Four interchangeable spigot adaptors aid close alignment.

Spigot Adaptors:	Ø20, 25, 27, 30mm
Mandrel:	Ø36-45, 42-52mm

H

20L

**H TP17****20L Mobile Gear Oil Dispensing Unit**

Steel construction self-priming lever pump. Fitted with heavy-duty wheels and gripped handle for ease of manoeuvrability. Features a 20L reservoir, 1.9m delivery hose and flow control tap with angled spout. Spout holder within bucket cover for tidy storage when not in use. Suitable for gear oil and fluids with similar viscosity.

Capacity:	20L
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C

1/2"  
Sq Drive

12

**C SX051****3pc 12-Point Impact Hub Nut Socket Set**

Heavy-duty, high quality, 12-point, Chrome Molybdenum impact sockets suitable for use with any 1/2" Sq drive impact tool. Blackened finish for added corrosion resistance. Tool suitable for hub nut applications where high torque is required. Supplied in a storage case.

Drive:	1/2" Sq
Contents:	30, 32, 36mm

F

3/4"  
Sq Drive**F VSE9540****3/4" Sq Drive Rear Differential Pinion Flange Tool - Land Rover Freelander II**

2-Piece kit essential for removal/installation of the pinion drive nut. Contains 12-sided pinion nut holding tool and splined socket. Suitable for post 2006 Land Rover Freelander 2.

I

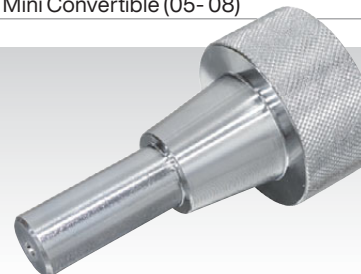
**I VS717****Clutch Alignment Tool - BMW Mini 6-Speed**

For clutch plate alignment on 6-speed gearboxes. Engine codes: Petrol; W11, B16A, Diesel; W17, D14. For 5-speed applications use Model No. VS716.

OEM Tool:	212210
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Applications: BMW Mini One D (01-06), Mini Cooper S (01-06), Mini Cooper S JCW (01-06) and Mini Convertible (05-08)

J

**J VS716****Clutch Alignment Tool - BMW Mini 5-Speed**

For clutch plate alignment on 5-speed gearboxes fitted to engine codes (W10, B14A and B16A). For 6-speed applications use Model No. VS717.

OEM Tool:	216100
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Applications: Mini One (01-06), Mini Convertible (05-08) with 5-speed manual transmission

**A**



**A VS011A**

**SAC Clutch Alignment Tool**

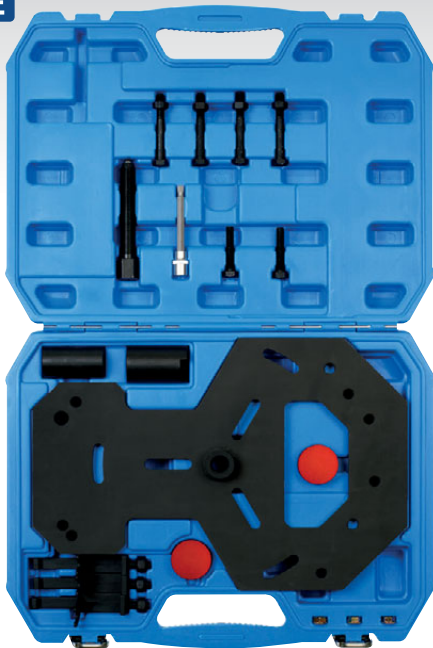
Necessary for pre-tensioning self-adjusting clutches before removal or installation. Prevents plate distortion which may prevent the clutch from disengaging or cause dragging. Features a refitting tool, allowing the clutch adjuster to be wound back. Also includes a selection of clutch plate and spigot alignment adaptors.

**Adaptors:** 17.9, 18.9, 19.9, 20.9, 21.9, 22.9, 23, 25.9, 27.9, 31.9, 33.9mm

**Assembly Flywheel Threads:** Ø6 x 1, 7 x 1, 8 x 1.25mm

**Spigot Adaptors:** Ø13.9, 14.9, 15.9, 16.9, 17.9, 18.9, 19.9, 20.9, 21.9mm

**E**



**E VS3075**

**Dual Clutch Removal/Installation Kit - Ford**

Clutch removal/refitting tool kit designed for Ford Dual Clutch systems. Suitable for DP6S6 and 6DCT250 6-speed gearboxes fitted to Fiesta, Focus and EcoSport vehicles. Equivalent to OEM 307-675. Supplied in a storage case with instructions.

**Applications:** Fiesta 08on, Focus 2012on, B-Max 08on, EcoSport 13on

**B**



VAG

**B VS0122**

**DSG Clutch Servicing Kit - VAG**

Essential tool for DSG clutch removal and installation used on VAG 6/7-speed gearboxes. Kit includes clutch support device, puller, gauge block, thrust piece and assembly lever. Supplied in storage case.

**OEM Tools:**

T10323, T10373, T10374, T10376, T10407

**Applications:**

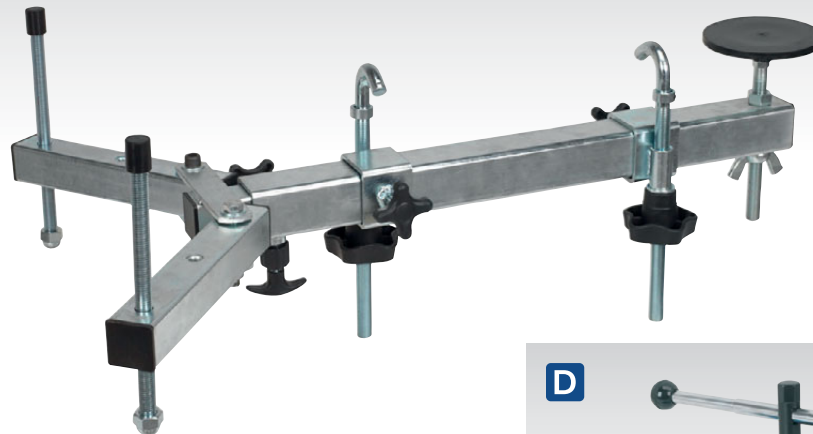
**Audi:**

A3 (04-19)

**VW:**

Golf (04-19), Touareg (04-19)

**C**



300kg

**C VS0110**

**Under Vehicle Engine/Gearbox Support**

Designed to support the engine or gearbox when mountings or gearbox are being removed. Ideal when replacing clutches or timing belts. Removes the need for using a transmission jack or engine support beam. Fully adjustable, making the unit suitable for most transverse and in-line configurations. Fitted by suspending underneath the vehicle by support hooks and counter-balanced against the underside of the vehicle.

**Width:** 560mm

**Minimum/Maximum Length:** 645/965mm

**Capacity:** 300kg

**Weight:** 10kg

**D**



**D VS011**

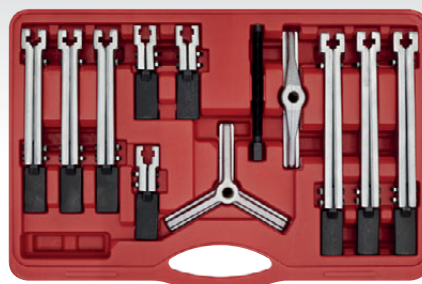
**Self-Adjusting Clutch Tool**

High quality die-cast aluminium tool. Suitable for pre-tensioning clutch plate combination prior to re-assembly.

**Spigot Adaptors:** Ø21/23mm

**Assembly Flywheel Threads:** Ø8 x 1.25mm

**F**



**F PS900**

**Bearing & Gear Puller Set**

For full details, see page 607.

**G**



**G VS7022**

**Universal Bearing Packer**

For full details, see page 607.

**A** 1.5L Capacity  
Pneumatic



**A** VS821

### 1.5L Pneumatic Brake & Clutch Bleeder

Professional one-person brake and clutch bleeder that uses air from the vehicle tyre. Reservoir holds 1.5L of hydraulic fluid - flush the entire system with one fill without the risk of running the reservoir dry. Maximum pressure of 30psi makes the unit suitable for ABS systems. Features a fluid shut-off valve to prevent accidental spillage and air pressure release valve. Fitted with Ø45mm cap with 90° angled connector which is suitable for most European models. For a selection of alternative Brake and Clutch Bleeder Caps, see page 526.

<b>Adaptors:</b>	Ø45mm Cap
<b>Capacity:</b>	1.5L
<b>Maximum Pressure:</b>	30psi
<b>Optional Caps:</b>	VS820SA, VS820UA, VS0204B, VS0204T, VS0204C4, VS0204C

**B** 0.5L Capacity



**B** VS0205

### Automatic Brake & Clutch Bleeder

Fast, easy and effective bleeding of brakes and clutch using air from tyre. Innovative design incorporates valve for control of air pressure, extra-long air hose for use with larger vehicles and magnetic reservoir base to prevent accidental spillage. Suitable for use with ABS systems. Supplied with a range of common adaptors.

**Adaptors:** Ø25mm Cap & Seal for Lockheed Systems, Ø27mm Cap & Seal for VAG, Ø44/45mm Cap & 2 Seals (Thin for Ø44mm, Thick for Ø45mm) for Metal Girling & ATE Systems, Ø46mm Cap & Seal for some Girling Systems

<b>Capacity:</b>	500ml
<b>Maximum Pressure:</b>	20psi

**E**



**E** VS0209

### Gravity Brake Bleeder Kit

Patented design maintains the fluid level in the vehicle's brake or clutch fluid reservoir during the bleeding process. No electricity or compressor required, ideal for use on a vehicle lift. Uses the standard 500ml brake fluid bottle in which fluid is supplied, reducing the possibility of contamination. Fast, simple-to-use and features on/off flow valve.

**C**

0.4L Capacity



**C** VS1205

### Brake & Clutch Bleeder

One-person brake and clutch bleeder. Bleeding requires no external power source - simply fill and pump. Bottle holds 400ml of hydraulic fluid. Design incorporates pressure control valve set at 20psi. Pressure range makes unit suitable for use with ABS systems. Fitted with Ø45mm cap which is suitable for most European models.

<b>Capacity:</b>	400ml
<b>Maximum Pressure:</b>	1.4bar(20psi)

**D**

0.5L Capacity



**D** VS0212

### 500ml Brake Bleeding Bottle

Collection bottle with wide base for added stability. Features a one-way valve to reduce air re-entering the system, clear hose to evaluate the condition of the fluid and presence of air, vent located in the lid and drain cap for simple emptying of old brake fluid. Includes two hanging hooks.

<b>Capacity:</b>	500ml
<b>Hose Length:</b>	1m

**G**

0.1L Capacity



**G** VS0201

### Brake Bleeder Set with Container

Composite collection bottle with magnetic locating pad. Supplied with tube and connectors.

<b>Capacity:</b>	100ml
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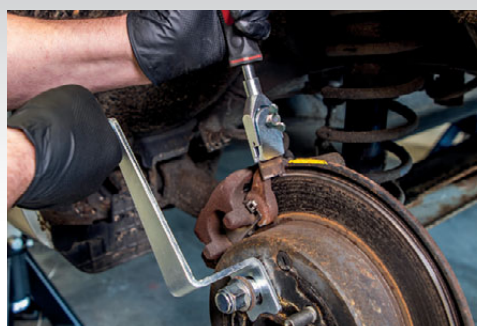
**F** NEW



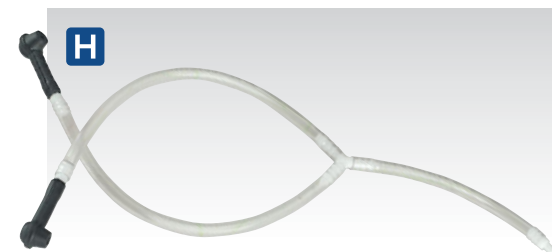
**F** VS0216

### Brake Disc Lip Remover Set

Designed to remove the lip and corrosion that can form on the brake disc. The handle bolts to the hub and provides a smooth easy method of spinning the disc for effortless lip and corrosion removal. The set consists of crank handle, scraper and steel blades (x2).



**H**



**H** VS020/A

### Motorcycle Bleed Adaptor

Suitable for bleeding twin calipers commonly found on motorcycles. For use with Model No's VS020, VS020TC, VS021, VS0202 and VS0203 Vacuum Brake Bleeders.



**A VS020**  
**1L Pneumatic Vacuum Brake & Clutch Bleeder**

Simple, one-person operation using standard workshop air supply (90-120psi). Quick, clean and efficient. Does not require specialised brake reservoir caps. Draws fluid from the bleed nipple enabling either bleeding or full replacement of fluid in system.

Maximum Air Supply:	120psi
Air Consumption:	180L/min
Tank Capacity:	1L
Inlet Size:	1/4" BSP



**B VS020TC**  
**1L Pneumatic Vacuum Single & Twin Brake Caliper/Clutch Bleeder**

Simple, one-person operation using standard workshop air supply (90-120psi). Quick, clean and efficient. Does not require specialised brake reservoir caps. Supplied with two bleed lines for twin caliper systems. Draws fluid from the bleed nipple enabling either bleeding or full replacement of fluid in system.

Maximum Air Supply:	120psi
Tank Capacity:	1L
Inlet Size:	1/4" BSP



**C VS021**  
**1L Pneumatic Vacuum Brake & Clutch Bleeder Kit with Replenishment System**

Utilises same vacuum unit as Model No. VS020. Includes reservoir top-up kit.

Maximum Air Supply:	120psi
Air Consumption:	180L/min
Tank Capacity:	1L
Inlet Size:	1/4" BSP



**D VS0203**  
**2L Workshop Vacuum Brake & Clutch Bleeder**

Easy, fast, one-person operation using workshop air supply (90psi). Does not require vehicle-specific reservoir caps. Draws fluid from the bleed screw enabling either bleeding or full replacement of fluid in system. Operation automatically stops when 2L tank is full, preventing spillage. Includes reservoir replenishing bottle, instructions and air line quick connector.

Maximum Air Supply:	90psi
Tank Capacity:	2L
Inlet Size:	1/4" BSP



**E VS0215**  
**3L Pneumatic Brake Bleeder**

One-person professional pneumatic brake bleeding tool. Pressure range makes unit suitable for use with ABS systems. Reservoir holds 3L - plenty to flush a whole system without the risk of running dry. Two drainage method options allow you to drain brake fluid via the brake caliper with the bottle option for replenishing, or brake reservoir pressurising for full brake bleed.

Maximum Air Supply:	113.8psi
Tank Capacity:	3L
Inlet Size:	1/4" BSP



**F VS0202**  
**2.5L Workshop Vacuum Brake & Clutch Bleeder**

One-person operation using standard workshop air supply (90-120psi). Professional, quick, clean and efficient. Large capacity for the busy workshop. Draws fluid from the bleed nipple enabling either bleeding or full replacement of fluid in system. Vacuum gauge for precise application. Separate cap for easy emptying. Long lasting silicone rubber hose for ultra flexibility. Includes reservoir top-up kit and adaptors.

Maximum Air Supply:	120psi
Air Consumption:	180L/min
Tank Capacity:	2.5L
Inlet Size:	1/4" BSP

A

2.5L  
Capacity**A VS820****2.5L Brake & Clutch Bleeding System**

One-person brake and clutch bleeding the professional way. Bleeding requires no external power source - simply fill and pump. Reservoir holds 2.5L of hydraulic fluid - flush the entire system with one fill, without the risk of running the reservoir dry. Pressure range makes unit suitable for use with ABS systems. Fitted with Ø45mm cap with 90° angled connector which is suitable for most European models. For alternative Brake and Clutch Bleeder Caps (see **B-G**).

<b>Adaptors:</b>	Ø45mm Cap
<b>Capacity:</b>	2.5L
<b>Maximum Pressure:</b>	28psi
<b>Optional Caps:</b>	VS820SA, VS820UA, VS0204B, VS0204T, VS0204C4, VS0204C

B

**B VS820SA****Ø45mm Brake Pressure Bleeder Cap Straight Connector**

For use in conjunction with Model No's VS820, VS821, VS0204, VS0204A, VS0207 and VS0308 Brake & Clutch Bleeding Systems. Brake reservoir cap Ø45mm with straight coupling.

C

**C VS820UA****Brake & Clutch Bleeding System Universal Adaptor**

Universal reservoir cap for Model No's VS820, VS821 & VS0204A Brake & Clutch Bleeding Systems. Supplied with quick connect.

D

**D VS0204B****Brake & Clutch Bleeder Cap Set**

Comprehensive set of brake and clutch reservoir bleed caps, supplied as standard with Model No. VS0204 and VS0207. Also compatible with Model No's. VS820, VS821, VS0204A and VS0308 offering greater coverage of European, Japanese and US manufacturers.

**Caps:**

<b>Threaded Ø45mm:</b>	Most European Manufacturers
<b>Bayonet:</b>	Chevrolet, Chrysler, Ford, GM, Honda, Hummer, Hyundai, Jeep, Lexus, Mazda, Mitsubishi, Nissan, Subaru, Toyota
<b>Rubber Cones:</b>	Universal; 30-55, 47-84mm

E NEW

TESLA

**E VS0204T****Brake Pressure Bleeder Cap Set - Tesla**

Brake reservoir bleed caps specially designed for use on Tesla vehicles. Manufactured from aluminium, this adaptor is suitable for pressure bleeding works that require a pressure range up to 2.5bar/36psi. Heavy-duty adaptor set for Tesla Model S & X and 3 & Y. Compatible with Sealey Brake Bleeders VS0204, VS0204A, VS0207, VS820, VS821 and VS0308.

**Applications:** Tesla Model S (2012-2021), Model 3 (2017-2021), Model X (2015-2021), Model Y (2020-2021)

**Sizes:** Adapter 3 & Y Core diameter Ø35mm, wing inner diameter Ø40mm, wing outer diameter Ø52mm, Adapter S & X Core diameter Ø35mm, cover inner diameter Ø48mm, cover outer diameter Ø60.5mm

F NEW

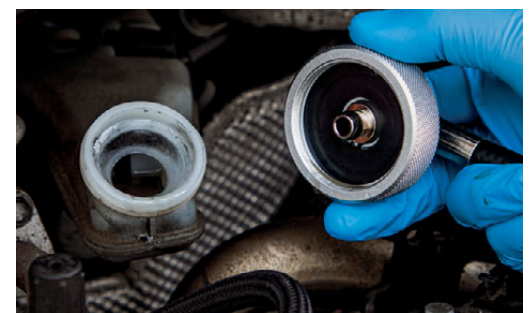
**F VS0204C4****Ø45mm Brake Pressure Bleeder Cap 90° Connector with Hose**

Ø45mm Brake and clutch reservoir bleed cap (2001-2022). 90° Connector with hose for use where access is restricted. Manufactured from aluminium, this adaptor is suitable for pressure bleeding work that requires 1-2bar/14-30psi pressure range. Heavy-duty adaptor covers most vehicles. Compatible with Sealey Brake Bleeders VS0204, VS0204A, VS0207, VS820, VS821 and VS0308.

**G VS0204C****7pc Brake & Clutch Pressure Bleeder Cap Set**

Brake and clutch reservoir bleed caps (2001-2022). Aluminium made adaptor suitable for pressure bleeding works that require 1-2 bars/14-30psi pressure range. Heavy-duty adaptor set covers most vehicles. Compatible with Sealey Brake Bleeders VS0204, VS0204A, VS0207, VS820, VS821 and VS0308.

G NEW



**Contents:** Cap 1; Toyota, Lexus, Cap 2; Chevrolet, GMC, Ford, Hyundai, Kia, Mazda, Mitsubishi, Cap 3; Honda, Acura, Cap 4; European Ford, Nissan, Cap 5; Mazda, Suzuki, Cap 6; Nissan (Cube, Juke, Leaf, Micra, Maxima, Tilda, Versa), Cap 7; Chrysler, Dodge, Jeep, Ram, Mitsubishi (Raider), Toyota (Tacoma)

**A** 5L **AIR Operated** Pneumatic



**A VS0204**

**Pneumatic Brake & Clutch Pressure Bleeder Kit**

One-person pressure brake and clutch bleeding system suitable for the professional workshop. Low pressure tank (20-40psi) can be pre-charged with compressed air, making the unit fully portable. Large reservoir means reduced risk of running the system dry during bleeding process or complete fluid change. Suitable for use on ABS systems. Features a long delivery hose for operation with a low level ramp and long reach handle for easy mobility. Supplied with a range of European, Japanese and US vehicle adaptors. Compatible with DOT 3.0, 4.0, 4.0LV and 5.1 Poly-Glycol based brake fluids. NOT compatible with DOT 5.0 Silicone based brake fluid.

<b>Maximum Air Supply:</b>	40psi
<b>Air Consumption:</b>	4.5cfm
<b>Tank Capacity:</b>	5L
<b>Inlet Size:</b>	1/4" BSP
<b>Hose Length:</b>	3.7m



**C** 5L **AIR Operated**



Pneumatic

**C VS0204A**

**Pneumatic Brake & Clutch Pressure Bleeder Kit**

One-person pressure brake and clutch bleeding system suitable for the professional workshop. Low pressure tank (20-40psi) can be pre-charged with compressed air, making the unit fully portable. Large reservoir means reduced risk of running the system dry during bleeding process or complete fluid change. Suitable for use on ABS systems. Features a long delivery hose for operation with a low level ramp and long reach handle for easy mobility. Supplied with Ø45mm cap with 90° angled connector which is suitable for most European models. For other applications, order optional Brake Reservoir Cap Ø45mm Straight Connector - Model No. VS820SA, Universal Adaptor - Model No. VS820UA or Brake & Clutch Bleeder Cap Set - Model No. VS0204B.

<b>Maximum Air Supply:</b>	40psi
<b>Air Consumption:</b>	4.5cfm
<b>Tank Capacity:</b>	5L
<b>Inlet Size:</b>	1/4" BSP
<b>Hose Length:</b>	3.7m

**B** 12V 2L



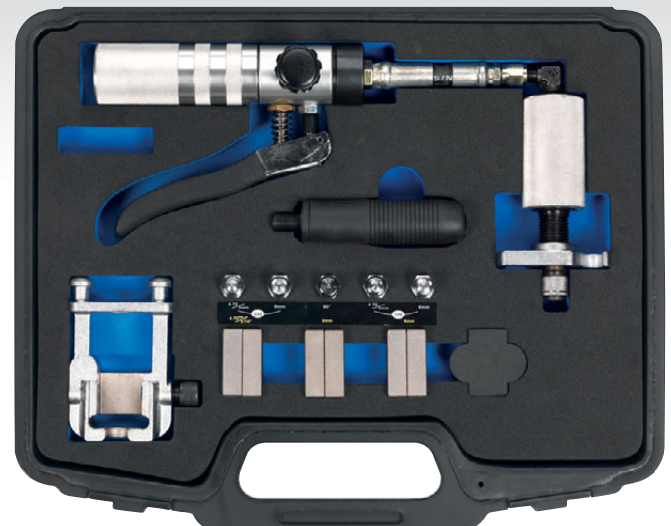
**B VS0207**

**12V Brake & Clutch Pressure Bleeding Kit**

Powered by the vehicle's own 12V battery. Allows single-handed bleeding of the vehicle's brake or clutch system and is fitted with a long, high pressure hose. Bleed pressure is closely controlled up to 2.5bar - suitable for most vehicles (even those with ABS). Unit fitted with auto-shut-off device to prevent the system running dry and is supplied with a variety of European, Japanese and US vehicle adaptors, bleed bottle and fluid extractor.

<b>Maximum Pressure:</b>	2.5bar
<b>Supply:</b>	12V
<b>Capacity:</b>	2L
<b>Cable Length:</b>	4m
<b>Hose Length:</b>	5m

**D**



**D PFT15**

**On-Vehicle Hydraulic Brake Pipe Flaring Kit**

Produces accurate automotive SAE and DIN flares on 3/16", 4.75mm, 5mm and 6mm brake pipes. Ideal for splicing in replacement sections of brake pipe. Powerful, lever operated hydraulic ram makes it suitable for steel pipes. Features quick release chuck, twist lock die block housing for fast assembly and rotating hydraulic pipework to give easy-access in confined spaces.

<b>Contents:</b>	SAE; 3/16", 5mm, 6mm, DIN; 4.75mm, 5mm, 6mm
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A



A VS0274

**Pocket Brake Fluid Tester**

Integrated circuitry checks moisture content of fluid by measuring the electrical resistance and comparing it with acceptable limits. Easy calibration check using water. Five LED read-out. Just switch on and insert probe for immediate result. Works on all grades of brake fluid. Powered by 1 x AAA battery (supplied).

B



B VS0272

**Pocket Brake Fluid Tester**

Electrolytic tester. Integrated circuitry checks moisture content of fluid by measuring the electrical resistance and comparing it with acceptable limits. Easy calibration check using water. Three LED read-out. Just switch on and insert probe for immediate result. Red LED warns when battery is low and needs replacing. Powered by 1 x AAA battery (supplied).

C



C VS027

**Brake Fluid Tester Electrolytic**

Comparative electrolytic type tester. Checks moisture content of fluid by resistance to electric current. Easily calibrated using new brake fluid. Audible test cycle with 3 LED read-out. Just insert probe and press button for immediate result. Works on DOT 3, 4 and 5.1 specification fluids. Powered by a 9V battery (not included).

D

12V



D VS0275

**Brake Fluid Tester - Boil Test**

The approved method of testing the water content of brake fluid. Just 3% of moisture can lower the brake fluid boiling point by over 100°C. The best way to detect this small water content is to measure the boiling point of the fluid. The unit incorporates a heater element, LCD display and a power lead for use on 12V DC power supplies. Works on DOT 3, 4, 5 and 5.1 specification fluids. Supplied in storage case with full operating instructions.

I



I 9202

**Premium Goggles - Indirect Vent**

For more information, see page 1278.

E



F



E-F SEE BELOW

**Pressure Solvent Sprayers with Viton® Seals**

Suitable for use with most brake cleaners, detergents, traffic film removers, penetrating oils and weed killers. Viton® seals allow use with a wide range of semi volatile chemicals that would deteriorate standard seals. Adjustable nozzle enables a mist to jet pattern, which allows an easy and direct application of liquid exactly where it is required. Robust composite construction.

Model No:	Capacity:
E SCSG02	1L
F SCSG03	1.5L

G



H



G-H SEE BELOW

**Premium Pressure Solvent Sprayers with Viton® Seals**

Premium quality hand pump sprayers. Suitable for use with most brake cleaners, detergents, traffic film removers, penetrating oils and weed killers. Viton® seals allow use with a wide range of semi volatile chemicals that would deteriorate standard seals. Adjustable nozzle enables a mist to jet pattern, which allows an easy and direct application of liquid exactly where it is required. Robust composite construction.

Model No:	Capacity:
G SCSG04	1L
H SCSG05	1.5L

J



J SCSG06

**Premier Industrial Pressure Sprayer with Viton® Seals**

For full details, see page 1134.

Working Capacity:	1L
Total Capacity:	1.5L

K

200ml



K VS404

**200ml Oil & Brake Fluid Inspection Syringe**

Multipurpose syringe with Viton® seal, ideal for the transfer of oils/fluids to and from vehicle components such as brake master cylinders, oil filter housings, power steering reservoirs, differentials and gearboxes. Translucent body allows easy inspection of oils and fluids.

Capacity:	200ml
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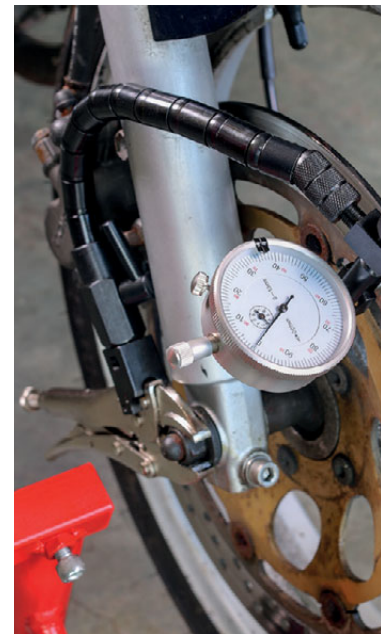




**A VS0290**  
**Brake Disc Run-Out Kit**

Check for ball joint wear and brake disc run-out quickly and easily. Locking pliers secure to any convenient position, enabling DTI gauge to be placed against brake disc. Kit includes Metric calibrated DTI gauge.

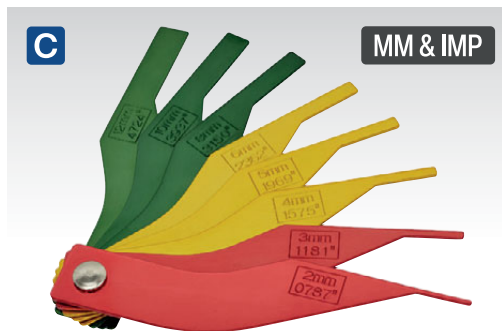
<b>Deflection/Travel:</b>	10mm
<b>Graduation:</b>	0.01mm
<b>Shank Size:</b>	8mm



**B VS0210**  
**Brake & Fuel Pipe Inspection Tool**

Specially designed for the removal of corrosion from brake and fuel pipes for fast and thorough inspection. Features 12 cleaning edges for different sizes and types of pipes. Includes curved cleaning edges for hard-to-reach areas. DVSA compliant tool.

<b>Applications:</b>	3.5mm (Citroen), 4, 4.75mm, 3/16" Pipes
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**C VS059**  
**8pc Brake Pad Thickness Gauge**

Ideal for quickly checking the thickness of the brake pad lining. Colour-coded blades fit between the disc and brake pad backing plate. Dual marked in Metric and Imperial.

<b>Blade Sizes:</b>	
<b>Red:</b>	2, 3mm(0.0787, 0.1181")
<b>Yellow:</b>	4, 5, 6mm(0.1575, 0.1969, 0.2362")
<b>Green:</b>	8, 10, 12mm(0.3150, 0.3937, 0.4724")



**D VS0213**  
**Ratchet Brake Piston Tool**

Designed for floating calipers fitted with single or twin piston and also for fixed calipers fitted with twin or quad pistons. Ratchet mechanism provides speed and versatility saving time and money.

<b>Maximum Spread:</b>	73mm
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**E VS058**  
**Brake Pad Thickness Gauge**

Ingenious time-saving tool and essential for any garage. Measures the brake pad lining on the vehicle without removing the road wheel. Slim design enables the tool to locate the rear of the pad backing plate, allowing the probe to measure the distance between the underside of the backing plate and brake disc. Suitable for both internal and external brake pads. Features calibration line, plus minimum 1.5mm pre-MOT check mark. Designed for brake pads that have a normal 6mm thick backing plate (Class IV, V).

<b>Range:</b>	1.5-13mm
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**F VS0291**  
**Air Hammer Impact Driver**

Used in conjunction with a standard air hammer at low pressure and 5/16"(8mm) Hex bit. Vibration shakes the screw loose doing the hard work for you, while rotation is applied with the handle. Ideal for corroded, countersunk, overtightened and painted screws. No more stripping of screw heads.

<b>Shank Size:</b>	.401" Parker Taper
<b>Bit Size:</b>	5/16"(8mm), Bits not supplied

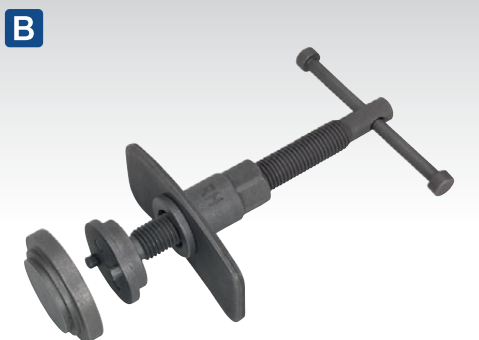
**A VS0245****Brake Wind-Back Tool - Low Profile - VAG**

Enables retraction of the piston on rear brake calipers. Helps prevent damage to pistons and seals. Special low profile design for VAG vehicles.

**Applications:**

**Audi:** A3, A4, A5, A6, A8, S3, S4, S5, S6, S8, RS4, RS6, RS8

**VW:** Santana, Jetta, Bora, Golf, Passat, Laida, New Beetle, Phaeton, Polo, Magotan, Sagitar, Scirocco, Touareg, Tiguan, Eos, Multivan, Caravelle, Sharan

**B VS0240****4pc Brake Piston Wind-Back Tool Kit**

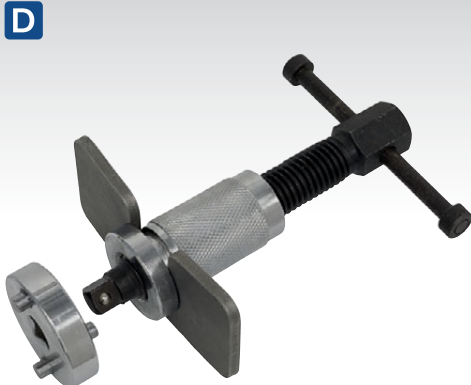
Kit consists of adaptors with thrust bolt assembly and reaction plate suitable for push-back and wind-back brake pistons. Helps prevent damage to pistons and seals.

<b>Pin Size:</b>	Ø6mm
<b>Distance Between Pin Centres:</b>	19, 33mm

**C VS0244****Left/Right-Handed Brake Piston Wind-Back Tool**

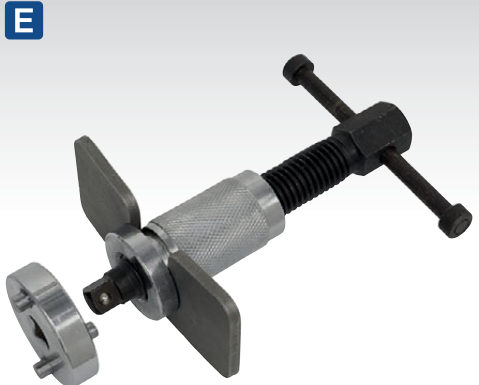
Unique double end design for retracting left and right-handed rear caliper pistons.

<b>Pin Size:</b>	Ø6mm
<b>Distance Between Pin Centres:</b>	13mm

**D VS0247****Left-Handed Brake Piston Wind-Back Tool with Double Adaptor**

Double end tool. Enables retraction of the piston on rear brake calipers allowing new brake pads to be installed.

<b>Pin Size:</b>	Ø6mm
<b>Distance Between Pin Centres:</b>	22, 33mm

**E VS024****Brake Piston Wind-Back Tool with Double Adaptor**

Double end tool. Enables retraction of the piston on rear brake calipers allowing new brake pads to be installed.

<b>Pin Size:</b>	Ø6mm
<b>Distance Between Pin Centres:</b>	22, 33mm

**F VS0211****5pc Brake Piston Wind-Back Tool Kit**

Innovative dual purpose tool designed to push and wind-back brake calipers. Fast and simple, one-handed use. Lightweight and durable materials enable the tool to work on most common caliper designs. Suitable for use on either left or right-handed wind-back calipers. Supplied with four common adaptors but compatible with all 2-pin magnetic adaptors in the Sealey range, making the tool truly versatile.

**G AK711****Disc Brake Piston Spreader Tool**

Chemically blackened steel spreader plates. An essential tool for retracting the brake piston to allow insertion of new brake pads. Suitable for most ATE, Bendix, Delco and Girling calipers.

<b>Maximum Spread:</b>	90mm
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**H VS0248****Disc Brake Piston Spreader Tool**

Heavy-duty design with internal bearings and force screw action insures effortless and even force distribution. An essential tool for retracting the brake piston to allow insertion of new brake pads. Suitable for most 1, 2, 4 and 6 piston configurations found on ATE, Bendix, Brembo, Delco and Girling calipers. Black Phosphate finish.

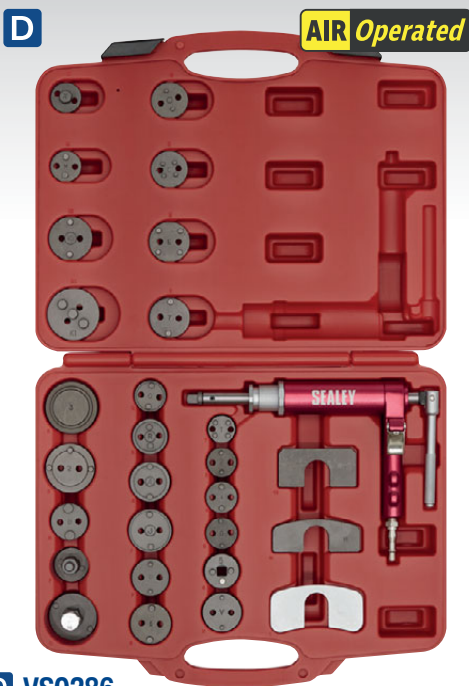
<b>Maximum Spread:</b>	100mm
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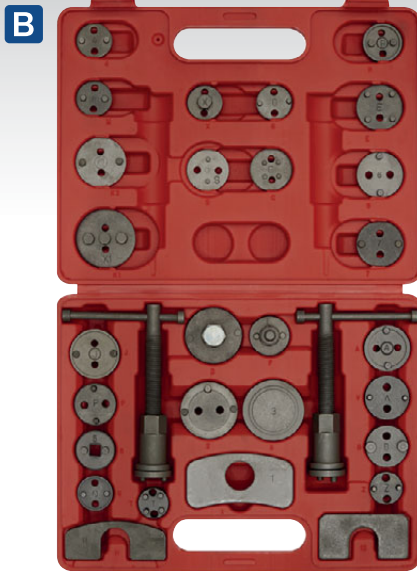
**A VS0282**  
**21pc Brake Piston Wind-Back Tool Kit**  
 Suitable for push-back and wind-back brake pistons. Includes left and right-handed thrust bolt assemblies, reaction plate, hex bits and adaptors and includes the 3-pin VAG adaptor. Supplied in storage case.

**Hex Bits:** 10, 12mm



**D VS0286**  
**29pc Air Operated Brake Wind-Back Tool Kit**  
 Air operated wind-back tool suitable for left or right-hand wind-back operations. Fast, lightweight and easy-to-use. Master set of adaptors suit a wide range of vehicle applications. Suitable for push-back and wind-back brake pistons. Left-handed thrust required for Citroen, Ford and Renault applications. Interchangeable adaptor plates with thrust bolt assembly and reaction plate. Includes 3/8" Sq drive adaptor and 2-pin magnetic adaptor for added flexibility. Kit helps prevent damage to pistons and seals. Supplied in storage case.

**Operating Pressure:** 90psi

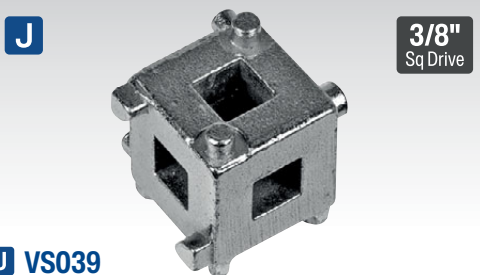


**B VS0285**  
**30pc Brake Piston Wind-Back Tool Kit**  
 Suitable for push-back and wind-back brake pistons. Includes left and right-handed thrust bolt assemblies. Left-handed thrust bolt required for Citroen, Ford and Renault applications. For full details, see www.sealey.co.uk. Supplied in storage case.



**E VS02821**  
**Rear Brake Piston Wind-Back Adaptor - VAG**  
 Adaptor enables retraction of the piston on rear brake calipers when used in conjunction with a traditional wind-back tool with a 2-pin adaptor mounting. 3-Pin design suitable for VAG vehicles.

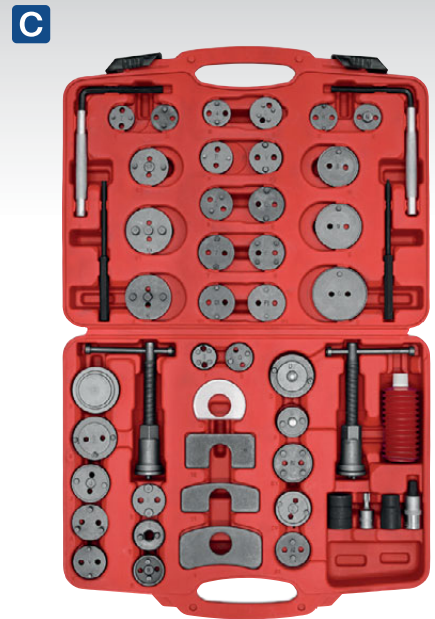
<b>Pin Size:</b>	Ø3mm
<b>Mounting Pin Size:</b>	Ø6mm
<b>Distance Between Pin Centres:</b>	20mm
<b>Applications:</b>	VS0211, VS0240, VS0282, VS0285, VS0286, VS0287



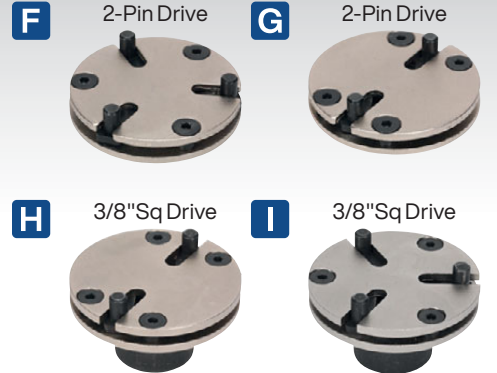
**J VS039**  
**3/8" Sq Drive Brake Piston Cube**  
 Five possible pin configurations fit US and European applications. Use with 3/8" Sq drive ratchet wrench and extension bar. Not for use with impact type ratchets.



**K VS0216**  
**Brake Disc Lip Remover Set**  
 For more information, see page 524.



**C VS0287**  
**50pc Brake Piston Wind-Back Tool Kit**  
 Suitable for push-back and wind-back brake pistons. Includes left and right-handed thrust bolt assemblies, caliper removal tools and grease container. For full details, see www.sealey.co.uk. Supplied in storage case.



**F-I SEE BELOW**  
**Adjustable Brake Wind-Back Adaptors**  
 Adjustable 2-pin and 3-pin brake wind-back adaptors suit a wide range of vehicle applications. 3-Pin design suitable for Electronic Park Brake (EPB) and VAG vehicles. 2-Pin drive compatible with Model No's VS0282, VS0285, VS0287, VS0286 and VS0211. 3/8" Sq Drive compatible with Model No's VS024, VS0244 and VS0286.

Model No:	Pins:	Drive:
<b>F VS326</b>	3	2-Pin
<b>G VS327</b>	2	2-Pin
<b>H VS328</b>	2	3/8" Sq
<b>I VS329</b>	3	3/8" Sq



**L VS0572**  
**2pc 3/8" Sq Drive Brake Drum Remover**  
 For more information, see page 539.



**A VS0348**

**10 x 11mm Brake Pipe Spanner**

Manufactured from Chrome Vanadium steel with anti-slip finish.

Sizes: 10 x 11mm

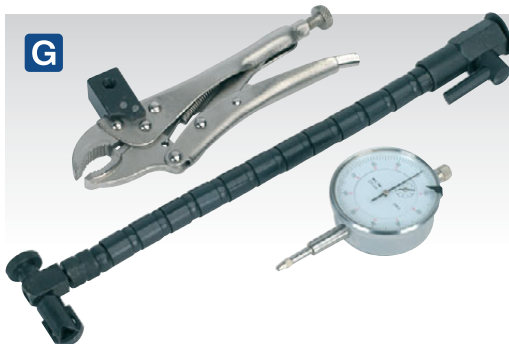


**E VS0347**

**10 x 11mm Flexi-Head Ratchet Brake Pipe Spanner**

Manufactured from high quality stainless steel with a fully polished satin finish. Features double end 72-tooth ultra-smooth ratchet with flexi-head for limited access applications. Ideal for most brake pipe fittings.

Sizes: 10 x 11mm



**G VS0290**

**Brake Disc Run-Out Kit**

Check for ball joint wear and brake disc run-out quickly and easily. Locking pliers secure to any convenient position, enabling DTI gauge to be placed against brake disc. Kit includes Metric calibrated DTI gauge.

Deflection/Travel: 10mm

Graduation: 0.01mm

Shank Size: 8mm



**B AK600**

**3pc Flare Nut Spanner Set**

Drop-forged Chrome Vanadium steel with contoured shafts. Fully hardened, tempered, chrome plated and fully polished for resistance to corrosion. Flare type spanner jaw suitable for most common sizes of compression joint fittings. Three spanners covering six sizes.

Contents: 10 x 11, 13 x 14, 15 x 17mm



**F VS0204A**

**Pneumatic Brake & Clutch Pressure Bleeder Kit**

For more information, see page 527.



**I SEE BELOW**

**500ml Brake Parts Cleaner**

For full details, see page 118.

Model No: SCS011 Pack Quantity: 6

SCS011S Pack Quantity: 1



**C-D SEE BELOW**

**Double End Brake Bleeder Spanners**

Specially designed caliper bleed nipple spanners simplify brake bleeding. Fitted with neoprene rubber seals which stops air being put into the system. Colour-coded for easy size identification.

Model No: Spanner Sizes:

C VS4511 8 x 9mm

D VS4512 10 x 11mm



**H VS820**

**2.5L Brake & Clutch Bleeding System**

For full details, see page 526.

**A**



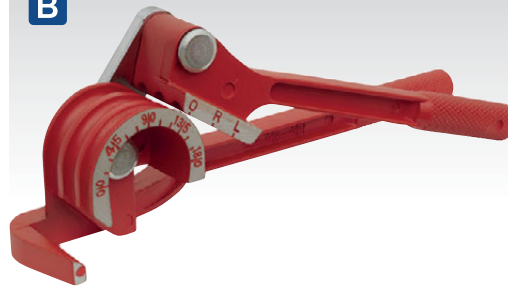
**A VS5055**

**Brake Pipe Bender**

Compact design for bending automotive brake pipes without crushing the pipe walls. Rigid construction makes it suitable for steel pipes.

**Capacity:** Ø3mm(1/8"), 4.75mm(3/16"), 6mm(1/4")

**B**



**B AK5055**

**3-in-1 Automotive Brake Pipe Bender**

Suitable for most automotive applications. Bends pipe without crushing walls.

**Capacity:** Ø6, 8, 10mm(Ø1/4", 5/16", 3/8") Pipe up to 180°

**C**



**C VS0346**

**4-in-1 Automotive Deluxe Pipe Bender**

Twin handles provide even force for accurate pipe forming. Slender design allows pipes to be shaped in situ. Ideal for aluminium, brass, copper and steel pipe. Contoured vinyl grip handles provide extra comfort and control.

**Capacity:** Ø3/16"(4.75mm), 1/4", 5/16", 3/8"

**D**



**D VS0341**

**Brake Pipe Bending Pliers**

Fast, accurate and simple bending of brake pipe - even on the vehicle. Bends 3/16"(4.75mm) and 1/4"(6mm) brake pipe up to 90°. Forged steel jaws with anti-corrosion finish. Soft grip handles aid comfort and control.

**Capacity:** 3/16"(4.75mm), 1/4"(6mm)

**E**



**E VS0344**

**4-in-1 Automotive Pipe Bender**

Twin handle provides even force for accurate pipe forming. Sliding mechanism allows quick adjustment for different sized pipes. Capable of bending pipes in situ. Ideal for aluminium, brass, copper and steel pipe.

**Capacity:** 3/16" (4.75mm), 1/4", 5/16", 3/8"

**F**



**F VS5057**

**Brake Pipe Bending Tool**

Vice mounted brake pipe shaping tool, designed for use on automotive applications. Dual stepped sections allow pairing of pipes for correct curvature for uniformed alignment to vehicle. Suitable for 3/16"(4.76mm) cupro-nickel, copper and steel pipe.

**Capacity:** 3/16"(4.76mm)

**Diameter:** Ø21, 31.5, 46.5, 61.5, 76.5mm

**D**



**H**

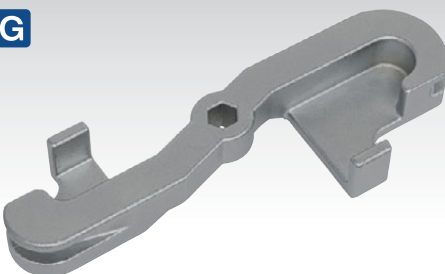


**H VS5056**

**Brake Pipe Straightening Tool**

Brake pipe straightener designed for use on automotive applications. This unique design is fast and easy-to-use. Suitable for 3/16"(4.76mm) cupro-nickel, copper and steel pipe. Features hole for marker pen.

**G**

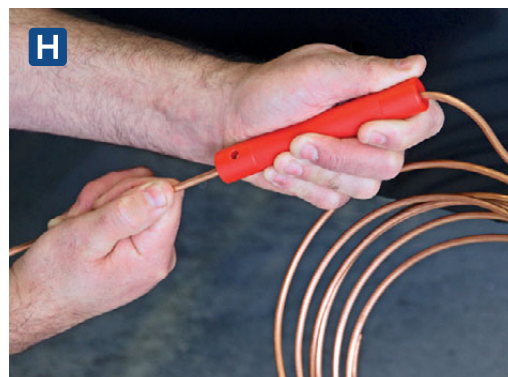


**G VS0375**

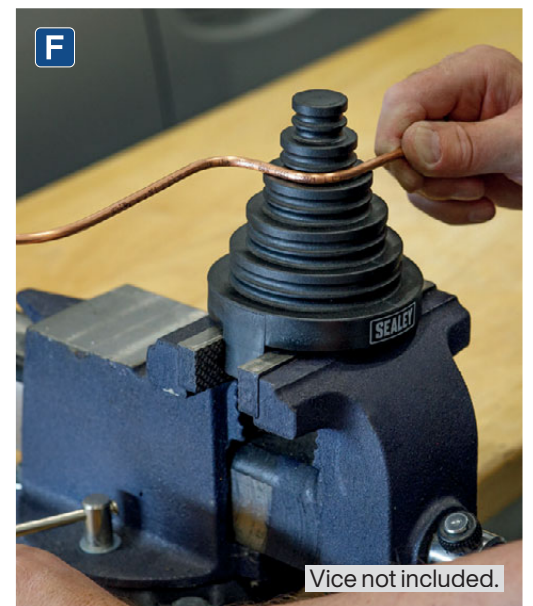
**Handheld Brake Pipe Bender**

Provides two sizes of bend for accurate and safe shaping of 3/16" automotive brake pipes without risk of kinking. Fitted with a 6mm hex slot for ease of holding/turning.

**H**



**F**

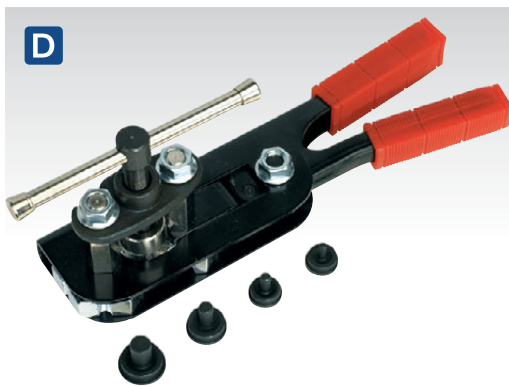


Vice not included.

**A PFT11****On-Vehicle Micro Brake Pipe Flaring Tool Set**

Produces accurate automotive SAE and DIN flares on 3/16" and 4.75mm pipes respectively. Lightweight body makes it ideal for splicing in replacement sections of brake pipe on-vehicle. Suitable for steel pipes. Supplied in storage case.

**Contents:** 3/16" SAE, 4.75mm DIN

**D AK5063****Brake Pipe Flaring Tool Kit**

Suitable for producing single and double flares on copper tubing. Compact design with integral flare press and locking-grip plier style pipe clamp make this tool particularly suitable for on-vehicle use.

**Contents:** 3/16", 1/4", 5/16", 3/8", 1/2" SAE

**B PFT12****On-Vehicle Micro Brake Pipe Flaring Tool**

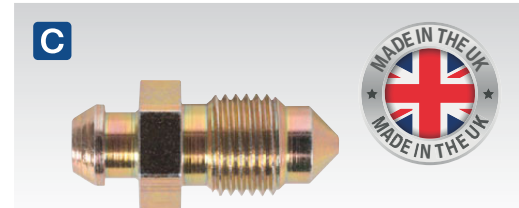
Produces accurate automotive SAE flares on 3/16" pipes. Lightweight body makes it ideal for splicing in replacement sections of brake pipe on-vehicle. Suitable for copper, cupro-nickel and steel pipes.

**Contents:** 3/16" SAE

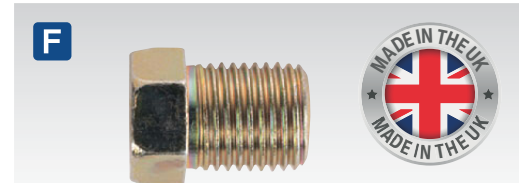
**E PFT08****On-Vehicle Brake Pipe Flaring Tool**

Produces accurate automotive SAE and DIN flares on common sizes of brake pipe. Small body is suitable for on-vehicle applications. Ideal for splicing in replacement sections of brake pipe for repair or after accident damage. Use with ratchet and socket or standard spanner.

**Contents:** 3/16" SAE, 4.75mm DIN

**C BS10125****M10 x 1mm x 25mm Brake Bleed Screw**

Pipe Size:	Ø3/16"
Length:	25mm
Thread Size:	M10 x 1mm
Pack Qty:	10

**F BN10100FT****M10 x 1mm Full Thread Male - Metric**

Pipe Size:	Ø3/16"
Thread Size:	M10 x 1mm
Type:	Full Thread
Flare Type:	DIN
Pack Qty:	25

**G BN10100****M10 x 1mm Short Female - Metric**

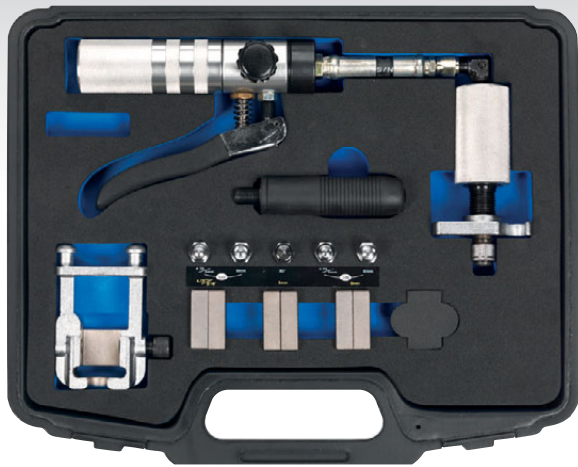
Pipe Size:	Ø3/16"
Thread Size:	M10 x 1mm
Type:	Short Female
Flare Type:	DIN
Pack Qty:	25

**H SCS110****500g Red Rubber Grease Tin**

Lubricating red rubber grease, ideal for use on brake assemblies. Also compatible with nitrile O-rings and seals.

**Size:** 500g

**A**



**A PFT15**

**On-Vehicle Hydraulic Brake Pipe Flaring Kit**

Produces accurate automotive SAE and DIN flares on 3/16", 4.75mm, 5mm and 6mm brake pipes. Ideal for splicing in replacement sections of brake pipe. Powerful, lever operated hydraulic ram makes it suitable for steel pipes. Features quick release chuck, twist lock die block housing for fast assembly and rotating hydraulic pipework to give easy-access in confined spaces.

**Contents:** SAE; 3/16", 5mm, 6mm, DIN; 4.75mm, 5mm, 6mm

**B**



**B PFT10**

**On-Vehicle Hydraulic Brake Pipe Flaring Tool Kit**

Produces accurate automotive SAE and DIN flares on 3/16" and 4.75mm pipes respectively. Small body makes it ideal for splicing in replacement sections of brake pipe. Features a hydraulic ram which also makes it suitable for steel pipes. Supplied in storage case.

**Dies:** 3/16" SAE, 4.75mm DIN

**C**



**C PFT02**

**Brake Pipe Flaring Kit**

Simple and accurate production of automotive type double flares. Cam-action body fits into bench vice. Supplied with 3/16" SAE and 4.75mm DIN dies for most popular flares. Other sizes available on request. Suitable for steel pipes and supplied in storage case with full instructions and die listing.

**Contents:**  
**Dies:** 3/16" SAE, 4.75mm DIN  
**Clamp Blocks:** 3/16" SAE, 4.75mm DIN

**D**



**D PFT07**

**Brake Pipe Flaring Kit - Turret Type**

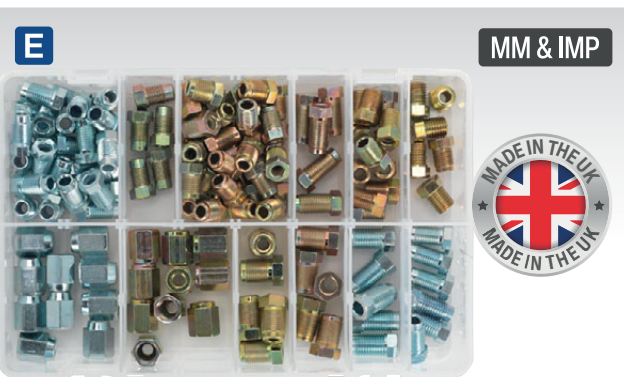
Produces accurate automotive double flares on most common sizes of brake pipe. Cam-action body mounts in bench vice for ease of use. Includes dies and clamp blocks for forming most popular flares. Optional 3/8" clamp block available. Supplied in storage case.

**Contents:**  
**Dies:** 3/16", 1/4", 5/16", 3/8" SAE, 4.75, 8mm DIN  
**Clamp Blocks:** 3/16", 1/4", 5/16", 4.75mm  
**Optional 3/8" Clamp Block:** PFT07.04

**E AB068BPN**

**200pc Brake Pipe Nut Assortment Metric & Imperial**

**Pipe Fitting:** 3/8", 1/4"  
**Contents (Approx. Quantity):** Ø3/16" Pipe; 3/8"UNF x 24tpi Long Female (x10), M10 x 1mm Short Female (x30), 3/8"UNF x 24tpi Long Male (x10), M10 x 1mm Short Male (x100), M10 x 1mm Long Male (x5), M10 x 1mm Full Thread Male (x15), M10 x 1.25mm Long Male (x5), M10 x 1.25mm Short Male (x5), 3/8"BSF x 20tpi Long Male (x5), M12 x 1mm Part Thread Male (x5), Ø1/4" Pipe; 7/16"UNF x 20tpi Male (x5), 12mm x 1mm Male (x5)



For more information on our Brake Pipe Copper Tubing, see page 1112.

A



Ø3-22mm

**A AK5050****Ø3-22mm Mini Pipe Cutter**

Die-cast cutter body with heavy-duty HSS hardened cutting wheel. Smooth screw action for clean cutting performance.

**Capacity:** Ø3-22mm(1/8"-7/8")

**Replacement Cutting Wheels:**

AK50581B (Pack of 2)

B



Ø3-19mm

**B VS0349****Brake Pipe Cutter**

Robust construction with SUJ2 steel cutting wheel. Ideal for copper, cunifer and steel pipes.

**Capacity:** Ø3-19mm(1/8"-3/4")

C

**C VS0350****Brake Pipe Cutter**

Patented design ensures that the spring mechanism maintains the correct cutting pressure on the pipe at all times. Features a smooth screw action and nickel-plated blade for increased cutting performance.

**Capacity:** Ø4-22mm(1/8"-7/8")

**Replacement Cutting Wheels:**

VS0350B (Pack of 2)

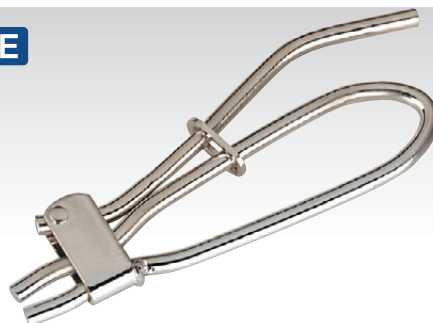
D

**D VS0301****4pc Brake & Fuel Hose Pinch Tool Set**

Light and compact steel alloy construction for ease of use where space is limited. Rounded jaw edges prevent damage to internal hose reinforcements. Suitable for use on fuel, vacuum and brake hoses.

**Clamp Widths:** 16, 20.5, 30, 67mm

E

**E VS034****Brake & Fuel Hose Pinch Tool - Spring Type**

Completely or partially seals flexible brake, fuel and vacuum lines. Smooth rounded jaw edges prevent damage to internal hose reinforcement. Quick and simple-to-use. All steel construction with sliding lock collar.

H

**H VS033****Brake & Fuel Hose Pinch Tool - Bar Type**

Suitable for both brake and fuel lines. Simple, yet effective, pinch action with rounded clamp section to prevent damage to hose lining. Metal construction with chromed finish.

F

**F VS037****2pc Brake & Fuel Hose Pinch Tool Set**

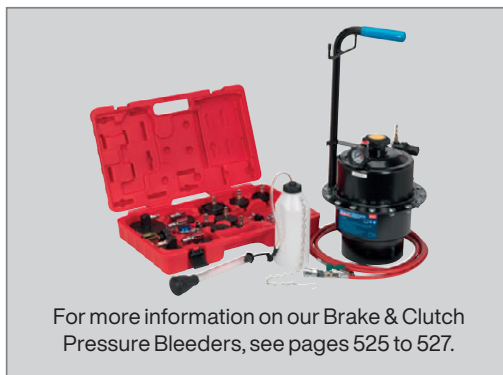
Alloy body with steel clamp arm. Compact design allows use in confined spaces. Rounded jaw edges prevent damage to internal hose reinforcement. Suitable for use on fuel, vacuum and brake hoses.

G

**G VS0210****Brake & Fuel Pipe Inspection Tool**

Specially designed for the removal of corrosion from brake and fuel pipes for fast and thorough inspection. Features 12 cleaning edges for different sizes and types of pipes. Includes curved cleaning edges for hard-to-reach areas. DVSA Compliant tool.

**Applications:** 3.5mm (Citroen), 4, 4.75mm, 3/16" Pipes



For more information on our Brake & Clutch Pressure Bleeders, see pages 525 to 527.

I

**I VS0391****Caliper Cleaning File**

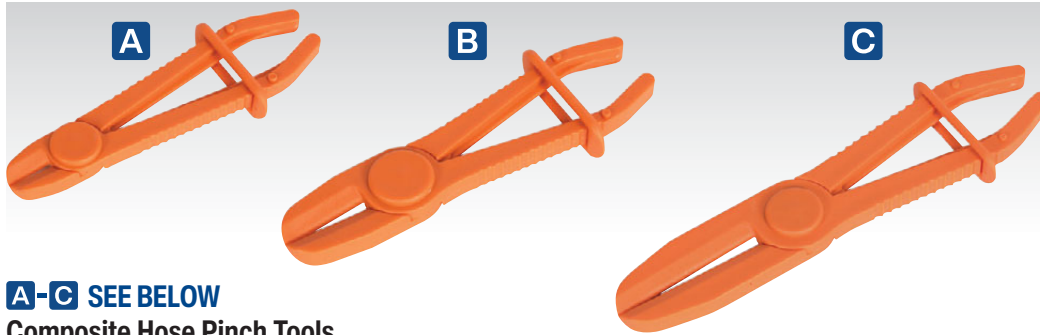
Designed for removing corrosion, brake dust and road dirt from the brake pad carrier prior to fitting new pads. Double-sided blade features medium and coarse grooves.

**Medium Groove Pitch:** 2mm

**Coarse Groove Pitch:** 3mm

**Length:** 270mm





**A-C SEE BELOW**

**Composite Hose Pinch Tools**

Smooth rounded jaw edges prevent damage to internal hose reinforcement. Quick and simple, one-handed use. Made from durable glass reinforced nylon. Material properties include lightweight, non-conductive and high-visibility colour to prevent accidental loss of clamps in the engine bay.

Model No:	Applications:	Size:	Maximum Jaw Opening:
<b>A</b> VS030	Brake and Fuel	Small	18mm
<b>B</b> VS031	Heater	Medium	36mm
<b>C</b> VS032	Radiator	Large	67mm



**E VS0300**

**3pc Composite Hose Pinch Tool Set**

Manufactured from heat resistant nylon. Rounded jaw edges prevent damage to internal hose reinforcement. Features locking mechanism for simple one-handed use. Suitable for brake, coolant, fuel and vacuum hoses.

Size:	Application:	Max. Jaw Opening:
Small	Brake and Fuel	18mm
Medium	Heater	36mm
Large	Radiator	67mm

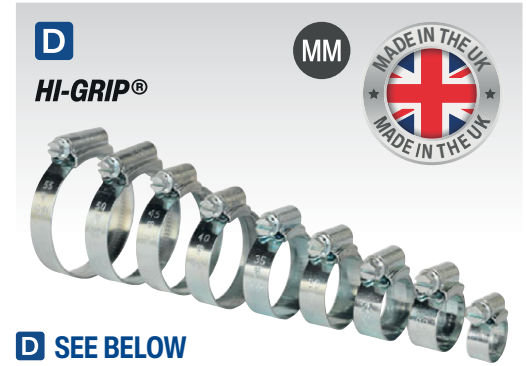


**F VS404**

**200ml Oil & Brake Fluid Inspection Syringe**

Multipurpose syringe with Viton® seal, ideal for the transfer of oils/fluids to and from vehicle components such as brake master cylinders, oil filter housings, power steering reservoirs, gearboxes and differentials. Translucent body allows easy inspection of oils and fluids.

<b>Capacity:</b>	200ml
------------------	-------



**D SEE BELOW**

**Zinc Plated HI-GRIP® Hose Clip Assortments**

Hi-Grip® worm drive hose clips. Zinc plated with external pressed threads allowing smooth surface hose contact. Manufactured in the UK to DIN 3017. For the full specification, see page 1087.

Model No:	Pack Quantity:
HCJ85A	85
HCJ26A	26



**G VS408**

**3pc Fluid Transfer Syringe Set**

Three multipurpose syringes with Viton® seals, ideal for the transfer of oils/fluids to and from vehicle components such as gearboxes and differentials. Set contains two suction syringes with collection bottles and a traditional suction/pump syringe with fluid shut-off valve. Translucent bodies allow easy inspection of oils and fluids. Accessories include a wall mounting board with colour-coded brackets and syringe clips to distinguish fluid usage.

<b>Collection Bottle Capacity:</b>	1L
<b>Syringe Capacity:</b>	350ml
<b>Fluid Compatibility:</b>	AdBlue®, Antifreeze, Brake Fluid, Diesel, Oil, Water



**H-K SCSG02**

**Pressure Sprayers with Viton® Seals**

Suitable for use with most brake cleaners, detergents, traffic film removers, penetrating oils and weed killers. Viton® seals allow use with a wide range of semi volatile chemicals that would deteriorate standard seals. Adjustable nozzle enables a mist to jet pattern, which allows an easy and direct application of liquid exactly where it is required. Robust composite construction.

Model No:	H	I	J	K
<b>Capacity:</b>	1L	1.5L	1L	1.5L



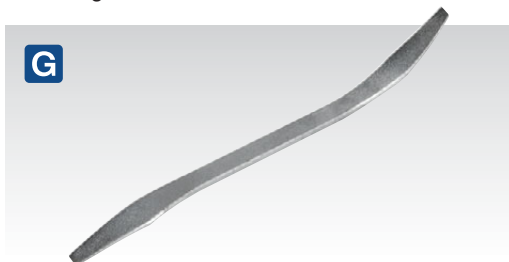
**A CV252****Commercial Brake Spring Pliers**

Designed for the removal/installation of drum shoe retaining springs, found on commercial vehicles.

Length: 510mm

**D VS035****Brake Shoe Spring Pliers**

Purpose-made for the installation and removal of drum shoe return springs. Can also be used for removal/installation of spring from anchor stud. Suitable for most car and light commercial drum brakes.

**G VS0355****Brake Shoe Adjuster**

Designed for use on hydraulic braking systems. Adjusts the clearance between the brake drum and shoe. May be used to lever the brake shoe to adjust the mechanical adjuster or through slots in the backing plate to turn the star wheel type adjuster. Suitable for cars and light commercials.

**I VS054****Parking Brake Spring Pliers**

Spring loaded pliers for easy removal of brake shoe arm. Compresses spring, eliminating pinched fingers and frees hand for replacing brake shoe lever.

**B VS0362****Brake Spring Washer Pliers**

Designed to aid installation and removal of brake shoe retaining spring washers, found in drum brake assemblies. Spring loaded, offset jaws enable easy-access to spring washer located behind wheel hubs. Suitable for cars and light commercial vehicles.

**E VS036****Double End Brake Spring Washer Tool**

Designed to aid installation and removal of large and small T-slot anti-rattle washers found in drum brake assembly. Features large viewing cut-away to allow correct alignment of washer. Simple push and twist action.

**H VS0351****Brake Shoe Spring Hook Tool**

Manufactured from heat treated alloy steel. Specifically designed for installation and removal of drum brake shoe springs.

**J VS0352****Parking Brake Tool - Mercedes**

T-shape design allows easy installation and removal of Mercedes parking brake spring. Suitable for cylindrical and conical shaped springs.

**C VS029****4-in-1 Cylinder Hone Kit**

Four cylinder-honing tools in one kit covering 18mm to 89mm cylinder bores. Suitable for honing and de-glazing car brake and clutch cylinders plus motorcycle, outboard and lawnmower engine cylinders. Adjustable honing pressure and flexible drive shaft. Kit includes an assortment of 220Grit stones. Supplied in storage case.

<b>Leg Configuration:</b>	<b>Bore Sizes:</b>
<b>Large Triple:</b>	Ø32-89mm
<b>Small Triple:</b>	Ø19-68mm
<b>Standard Twin:</b>	Ø18-64mm
<b>Stone Sizes:</b>	3 x 18, 3 x 28, 3 x 50mm

**F****2-Leg****F VS022****Twin Leg Cylinder Hone**

Flexible drive shaft and adjustable cutting control. Fitted with 28.5mm(1-1/8") medium grade stones with adjustable capacity from Ø20 to 64mm. Suitable for small brake cylinders.

Size: Ø20-64mm

**Replacement Stone Sets:**

<b>VS0221</b>	Medium Stone
<b>VS0222</b>	Fine Stone

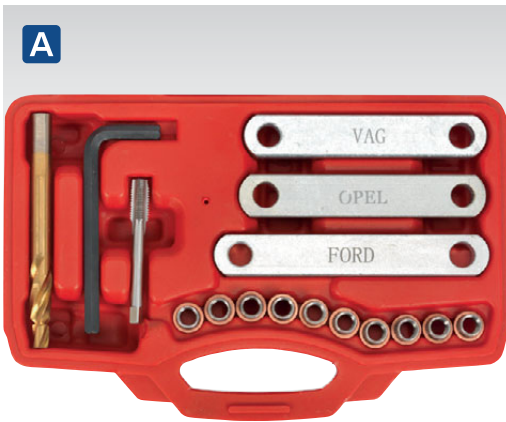
**K****3-Leg****K VS023****Triple Leg Cylinder Hone**

Flexible drive shaft and adjustable cutting control. Fitted with 28.5mm(1-1/8") medium grade stones with adjustable capacity from Ø25 to 64mm. Suitable for small and medium sized brake cylinders.

Size: Ø25-64mm

**Replacement Stone Sets:**

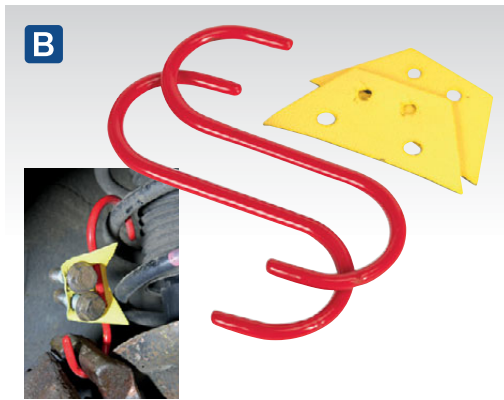
<b>VS0221</b>	Medium Stone
<b>VS0222</b>	Fine Stone



**A VS0462**  
**Brake Caliper Thread Repair Kit**

Time and money saving kit for replacing damaged brake caliper threads with a new threaded insert. Features three alignment plates for correct alignment of the insert. Kit includes 7mm hex key, stepped drill, M9 tap and ten inserts in storage case.

<b>Thread Size:</b>	M9 x 1.25mm
<b>Replacement Inserts:</b>	VS0462R (Pack of 10)



**B VS0354**  
**2pc Caliper Support Hooks**

Used to hold the brake caliper away from the hub when replacing brake pads. Simply hang the caliper hook onto a suitable suspension component to hold the caliper out of the way. Stops the weight of the caliper damaging the brake hose. Supplied with two brake caliper bolt retaining tags.



**C VS0465**  
**11pc Brake Caliper Socket Set**

Manufactured from Chrome Vanadium steel. Contains a selection of vehicle specific sockets and bits for the removal of brake caliper bolts.

<b>Applications:</b>	Audi, BMW, Ford, Mercedes, Porsche, VW
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<b>Contents:</b>	Hex Bits; 7, 8, 9mm, Hex Socket Bits; 7 x 65, 7 x 92, 9 x 50, 11 x 100mm, Sockets; 10pt Ø11.5mm, 10pt Ø15mm, 10pt Ø20mm, 7pt Ø22mm
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**D AK6572**  
**7mm Angled Head Long Reach Hex Wrench**

Long reach Chrome Vanadium hex wrench with comfortable handle sleeve for extra leverage. Suitable for the removal of brake caliper fasteners.



**E AK657**  
**7mm 1/2" Sq Drive Long Hex Key Socket Bit**

Satin finish Chrome Vanadium socket with knurled ring. S2 Steel hex shaft. Suitable for the removal of brake caliper fasteners.

**Warning:** Not for use with impact type ratchets.



**F VS0464**  
**5pc 1/2" Sq Drive Brake Caliper Socket Set**

Chrome Vanadium steel 1/2" Sq drive sockets. Includes pentagon sockets and bit suitable for the adjustment and installation of Bendix and Girling brakes.

<b>Applications:</b>	Bendix, Girling
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<b>Contents:</b>	Socket Sizes; 10, 12.5, 14, 19mm, Socket Bit Size; 10mm
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**G SX2066**  
**3/4" Sq Drive ABS Rotor Socket - Jaguar**

Specialised socket designed to remove the ABS rotor ring prior to wheel bearing replacement. Specifically engineered to cope with the high torque settings required to remove/refit the rotor ring. Suitable for XJ8 (97-03), XK8 (96on).



**H VS0211**  
**5pc Brake Piston Wind-Back Tool Kit**

For more information, see page 530.



**I VS0572**  
**2pc 3/8" Sq Drive Brake Drum Remover**

Designed to thread into the brake drums M8 x 1.25mm access points. Removes stuck brake drums safely and efficiently. To be used as a pair so that the drum is removed smoothly and squarely. 3/8" Sq drive.



1/2"  
Sq Drive  
MM

**A VS0983****1/2" Sq Drive 10mm Brake Caliper Socket 10-Point**

Suitable for VAG vehicles such as Porsche, VW Touareg, Audi Q7. 10-Point profile. 1/2" Sq drive x 10mm socket. Manufactured from Chrome Molybdenum with a black phosphate finish.

**Applications:** Porsche, VW Touareg, Audi Q7



1/2"  
Sq Drive  
MM

**B VS0984****1/2" Sq Drive 20mm Brake Caliper Socket 10-Point**

Suitable for VAG vehicles such as Audi A8, S6 and Porsche Cayenne. 10-Point profile. 1/2" Sq drive x 20mm socket. Manufactured from Chrome Molybdenum with a black phosphate finish.

**Applications:** Audi A8, S6, Porsche Cayenne



1/2"  
Sq Drive  
MM

**C VS0985****1/2" Sq Drive 14mm Brake Caliper Socket 7-Point**

Suitable for VAG vehicles such as Audi Q7, S4. 1/2" Sq drive x 14mm socket. 7-Point profile. Manufactured from Chrome Molybdenum with a black phosphate finish.

**Applications:** Audi Q7, S4



1/2"  
Sq Drive  
MM

**D VS0986****1/2" Sq Drive 20mm Brake Caliper Socket 7-Point**

Suitable for VAG vehicles such as Audi S5. 1/2" Sq drive x 20mm socket. 7-Point profile. Manufactured from Chrome Molybdenum with a black phosphate finish.

**Application:** Audi S5



1/2"  
Sq Drive  
M14

**E VS0987****1/2" Sq Drive M14 Security Spline Bit Brake Caliper Socket**

Specialised socket designed for brake calipers. Suitable for VAG vehicles such as VW Passat, Audi A3. Manufactured from Chrome Molybdenum with a black phosphate finish.

**Applications:** VW Passat, Audi A3



1/2"  
Sq Drive  
MM

**F VS0988****1/2" Sq Drive 11mm Brake Caliper Bit Socket**

Suitable for brake caliper bolts found on Ford, Mercedes and Volvo vehicles. Manufactured from Chrome Molybdenum with a black phosphate finish.

**Applications:** Ford, Mercedes, Volvo



1/2"  
Sq Drive  
MM

**G VS0989****1/2" Sq Drive 9mm Brake Caliper Bit Socket**

Specialised bit socket designed for brake calipers. Suitable for Mercedes, BMW and Jaguar vehicles. Manufactured from Chrome Molybdenum with a black phosphate finish.

**Applications:** Mercedes, BMW, Jaguar



1/2"  
Sq Drive  
MM

**H VS0990****1/2" Sq Drive 15mm Brake Caliper Socket 10-Point**

Suitable for VAG vehicles such as Audi Q7, S8, Porsche Macan, Cayenne, Cayman. 1/2" Sq drive x 15mm socket. 10-Point profile. Manufactured from Chrome Molybdenum with a black phosphate finish.

**Applications:** Audi Q7, S8, Porsche Macan, Cayenne, Cayman



3/8"  
Sq Drive

**I VSE0490****3/8" Sq Drive 8mm Brake Caliper Socket, 11-Point Profile**

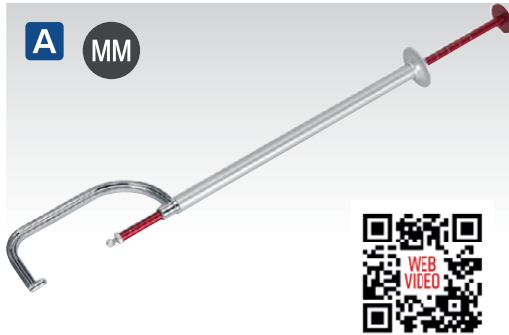
Suitable for Knorr-Bremse SB, SK and SN brake calipers. Popular applications include Bova, DAF, Foden, MAN, Mercedes-Benz, and Scania. Also used on BPW and SAF trailers. Manufactured from Chrome Vanadium with black phosphate finish.

**J VS020****1L Pneumatic Vacuum Brake Bleeder**

For full details, see page 525.

**K VS0215****3L Pneumatic Brake Bleeder**

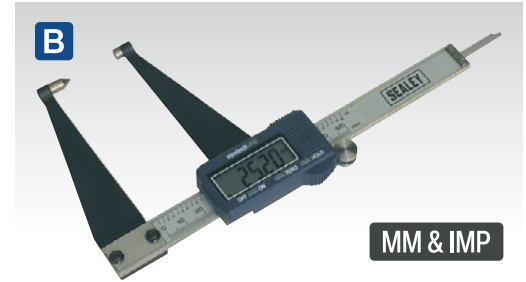
For full details, see page 525.



**A VS0571**  
**0-45mm Brake Disc Caliper**

For quick and accurate measurement of brake disc thickness. Long body design, allows use on some vehicles without the need to remove the wheel. Spring action plunger, allows quick operation. Suitable for motorcycles, cars and commercial vehicles. Metric scale with 1mm graduations.

<b>Range:</b>	0-45mm
<b>Length:</b>	392mm



**B VS0561**  
**100mm/4" Digital Brake Disc Caliper**

Hardened and tempered stainless steel gauge. 11mm High figures in LCD display for ease of reading. Metric or Imperial read-out with 'Hold' function. Zero setting control allows for comparative measurement. Includes serial port connection for computer interface. Supplied in storage case.

<b>Range:</b>	0-100mm(0-4")
<b>Resolution:</b>	0.01mm(0.0005")
<b>Accuracy:</b>	±0.02mm(0.001")
<b>Battery:</b>	SR44 - 1.5V (supplied)



**C VS057**  
**0-56mm Brake Disc Caliper with Tyre Tread Depth Gauge**

Unique lever action floating jaw assembly enables easy removal of caliper from disc while retaining reading. Ideal on discs that have a wear lip. Features a tyre tread depth gauge at the base of the caliper and scale lock. Metric scale with 0.1mm graduations.

<b>Range:</b>	0-56mm
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**D VS056**  
**0-50mm Brake Disc Caliper**

Stainless steel caliper suitable for accurate measurement of brake disc thickness. Floating jaw assembly enables easy removal of caliper from disc while retaining reading. Metric scale with 0.1mm graduations. Supplied in storage case.

<b>Range:</b>	0-50mm
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**E VS0566**  
**150mm/6" Digital Brake Disc & Drum Caliper**

Measures disc thickness (external) and small drums (internal). Hardened and tempered stainless steel gauge. 11mm High figures in LCD display for ease of reading. Metric or Imperial read-out with 'Hold' function. Zero setting control allows for comparative measurement. Supplied with calibration certificate and storage case.

<b>Range:</b>	0-150mm(0-6")
<b>Resolution:</b>	0.01mm(0.0005")
<b>Accuracy:</b>	±0.02mm(±0.001")
<b>Battery:</b>	SR44 - 1.5V (supplied)



**F VS058**  
**Brake Pad Thickness Gauge**

Ingenious time-saving tool and essential for any garage. Measures the brake pad lining on the vehicle without removing the road wheel. Slim design enables the tool to locate the rear of the pad backing plate, allowing the probe to measure the distance between the underside of the backing plate and brake disc. Suitable for both internal and external brake pads. Features calibration line, plus minimum 1.5mm pre-MOT check mark. Designed for brake pads that have a normal 6mm thick backing plate (Class IV, V).

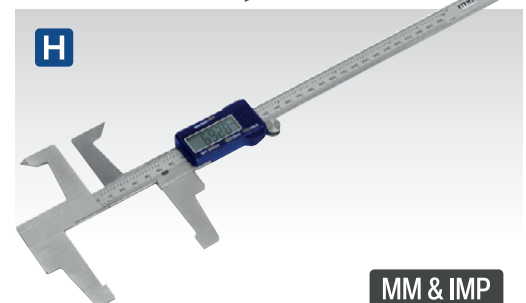
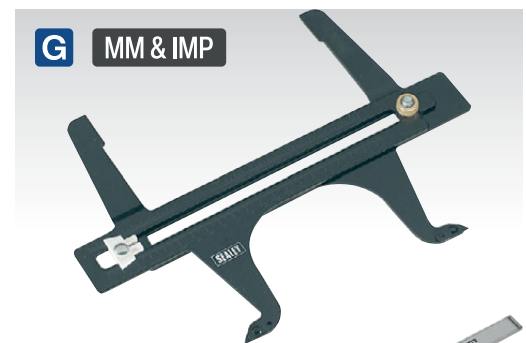
<b>Range:</b>	1.5-13mm
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**G VS040**  
**Brake Drum Wear Gauge**  
Measures drum wear to ensure it is within manufacturer's tolerance. Also aids quick set-up of shoe/drum clearance prior to re-installation of drum. Measures drums from 165 to 292mm (6-1/2" to 11-1/2"). Dual Imperial and Metric scale. Knurled locking action.

**H VS0567**  
**300mm/12" Digital Brake Disc & Drum Caliper**

Measures disc thickness (external) and small/medium sized drums (internal). Hardened and tempered stainless steel gauge. 11mm High figures in LCD display for ease of reading. Metric or Imperial read-out with 'Hold' function. Zero setting control allows for comparative measurement. Supplied with calibration certificate and storage case.

<b>Range:</b>	0-300mm(0-12")
<b>Resolution:</b>	0.01mm(0.0005")
<b>Accuracy:</b>	±0.02mm(±0.001")
<b>Battery:</b>	SR44 - 1.5V (supplied)



**MM & IMP**

**A AK2242****5pc 1/2" Sq Drive Torque Stick Set**

Chrome Molybdenum steel torque sticks designed for use with air and electric impact wrenches. Prevents over-torque of wheel nuts. Anodised aluminium colour-coding for easy selection. Features a twist distortion marking for checking serviceability of tool. Supplied in storage case.

Drive:	1/2" Sq
<b>Colour</b>	<b>Torque Rating:</b>
Green	65lb.ft(90Nm)
Black	75lb.ft(100Nm)
Gold	80lb.ft(110Nm)
Red	90lb.ft(120Nm)
Blue	100lb.ft(135Nm)

**Torque Sticks**

For correct operation impact wrenches must be limited to a maximum of 250lb.ft(338Nm). Required torque is achieved once the stick visually stops turning. Prolonged use will cause over tightening or damage to the tool.

**H AK2096****1/2" Sq Drive Extra-Long 4-Way Wheel Brace**

Longer than most other wheel braces on the market, allowing extra force to be applied. Manufactured from carbon steel with chrome finish. Features three popular sizes of wheel nut sockets and 1/2" Sq drive adaptor for standard sockets.

<b>Socket Sizes:</b>	17, 19, 21mm
<b>Lever Bar Length:</b>	506mm

**B-F SEE BELOW****1/2" Sq Drive Torque Sticks**

Chrome Molybdenum steel torque sticks designed for use with air and electric impact wrenches. Prevents over-torque of wheel nuts. Anodised aluminium colour-coding for easy selection. Features a twist distortion marking for checking serviceability of tool.

Model No:	Colour:	Torque Rating:
<b>B VS2243</b>	Green	65lb.ft(90Nm)
<b>C VS2244</b>	Black	75lb.ft(100Nm)
<b>D VS2245</b>	Gold	80lb.ft(110Nm)
<b>E VS2246</b>	Red	90lb.ft(120Nm)
<b>F VS2247</b>	Blue	100lb.ft(135Nm)

**I AK2093****1/2" Sq Drive 4-Way Wheel Brace**

Forged construction with polished mirror finish. Features three popular size wheel nut sockets and 1/2" Sq drive adaptor for standard sockets.

<b>Socket Sizes:</b>	17, 19, 21mm
<b>Lever Bar Length:</b>	355mm

**J AK2090****4-Way Wheel Brace**

Forged construction with hot forged sockets and baked finish.

<b>Socket Sizes:</b>	17, 19, 21, 22mm
<b>Lever Bar Length:</b>	355mm

**G AK2243****8pc 1/2" Sq Drive Torque Stick & Alloy Wheel Impact Socket Set**

Set includes Chrome Molybdenum torque sticks with a blackened finish, and impact sockets, which are hardened, tempered and anodised for corrosion resistance. Both are designed for use with air and electric impact wrenches and are colour-coded for easy selection. Torque sticks can be used with any impact grade sockets and are especially suitable for thin-walled sockets. Popular torque rates for most cars and light commercial vehicles. The impact sockets are sleeved to prevent damage to alloy wheels.

Drive:	1/2" Sq
<b>Torque Sticks:</b>	
<b>Colour</b>	<b>Torque Rating</b>
Black	75lb.ft(100Nm)
Gold	80lb.ft(110Nm)
Red	90lb.ft(120Nm)
Blue	100lb.ft(135Nm)
<b>Impact Sockets:</b>	
<b>Colour</b>	<b>Size</b>
Blue	17mm
Gold	19mm
Red	21mm
Green	22mm

**K S0472****3pc 1/2" Sq Drive Extendable L-Bar Wrench Set**

High quality steel construction with rubber grip. 1/2" Sq drive L-bar extends from 355-520mm and gives extra leverage for stubborn fixings. Supplied with two double end sockets, 17 x 19mm and 21 x 23mm.



**A-G SEE RIGHT**

**1/2" Sq Drive Alloy Wheel Impact Sockets**

Chrome Molybdenum sockets, hardened, tempered and anodised for corrosion resistance. Suitable for use with impact tools. 6-Point sockets are externally and internally sleeved to prevent damage to alloy wheels and nuts. Colour-coding for ease of size selection.

Model No:	Size:
<b>A</b> SX03017	17mm
<b>B</b> SX03019	19mm
<b>C</b> SX03021	21mm
<b>D</b> SX03022	22mm
<b>E</b> SX03023	23mm
<b>F</b> SX03024	24mm
<b>G</b> SX03027	27mm



**H-I SEE BELOW**

**1/2" Sq Drive Alloy Wheel Impact Sockets - Star Profile**

Star profile wheel nut sockets which are now used on some Hyundai and Mercedes vehicles. Manufactured from Chrome Molybdenum steel with protective sleeve.

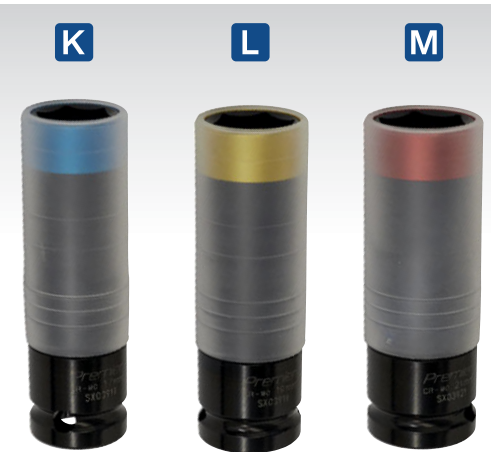
Model No:	Drive:	Size:	Application:
<b>H</b> SX0417	1/2" Sq	17mm	Mercedes
<b>I</b> SX0421	1/2" Sq	21mm	Hyundai



**J-M SEE RIGHT**

**1/2" Sq Drive Alloy Wheel Ultra-Power Impact Sockets**

Five times stronger than the conventional design and tested to 500Nm. Innovative design features a protective metal colour-coded ring that prevents the socket wall spreading. Each socket is sleeved and has an insert to prevent damage to alloy wheels and nuts.



Model No:	Sizes:
<b>J</b> SX039	17, 19, 21mm
<b>K</b> SX03917	17mm
<b>L</b> SX03919	19mm
<b>M</b> SX03921	21mm



**N SX0177**

**17mm 1/2" Sq Drive Wheel Bolt Security Socket - Honda, Hyundai, Toyota**

Manufactured from Chrome Vanadium steel. 7-Sided 17mm wheel bolt security socket suitable for Honda, Hyundai and Toyota vehicles.

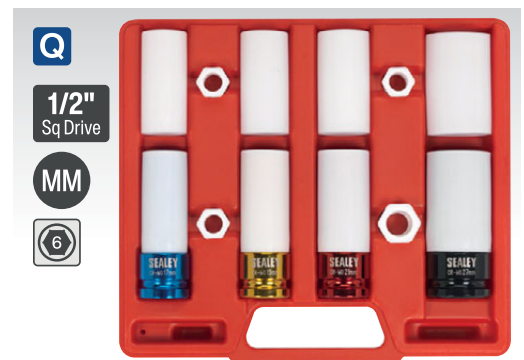


**O-P SEE BELOW**

**1/2" Sq Drive Alloy Wheel Impact Socket Sets**

Chrome Molybdenum sockets, hardened, tempered and anodised for corrosion resistance. Suitable for use with impact tools. Each socket is sleeved and has an insert to prevent damage to alloy wheels and nuts. Colour-coded sockets for easier size selection. Comprises deep or long reach 17, 19 and 21mm sockets. Supplied in storage case.

Model No:	Type:	Sizes:	Drive:
<b>O</b> SX031	Deep	17, 19, 21mm	1/2" Sq
<b>P</b> SX031D	Long Reach	17, 19, 21mm	1/2" Sq



**Q SX030**

**4pc 1/2" Sq Drive Alloy Wheel Impact Socket Set**

Chrome Molybdenum sockets, hardened, tempered and anodised for corrosion resistance. Suitable for use with impact tools. Each 6-point socket is sleeved to prevent damage to alloy wheels and nuts. Colour-coded sockets for easy size selection. Standard 17, 19, 21mm sockets and 27mm for Land Rover, Range Rover and other 4x4 applications, plus spare PE sleeves and depth inserts. Supplied in storage case.

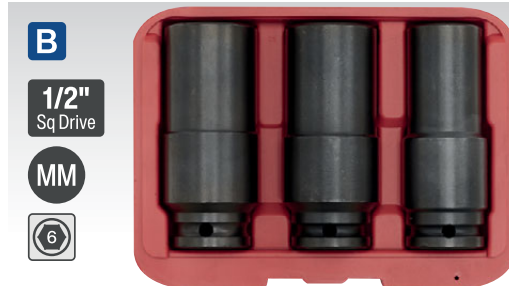
Sizes:
17, 19, 21, 27mm

**IMPORTANT INFORMATION** - Model No's SX030, SX031, SX031D and individual alloy wheel sockets have an ultra-thin walled design. For use on wheel nuts only and exempt from lifetime guarantee.



**A SX043**  
**3pc 1/2" Sq Drive Deep Impact Socket Set**  
 Manufactured from Chrome Vanadium steel, hardened, tempered and with a phosphate finish for added corrosion resistance. Deep 6-point WallDrive® sockets allows a transfer of up to 30% more torque to the fixing. Supplied in storage case.

**Sizes:** 17, 19, 21mm



**B SX319**  
**3pc 1/2" Sq Drive Deep Weighted Impact Socket Set**

Designed for use on fixings that have a high torque setting. Counter-weighted design reduces impact losses found in conventional sockets. 17, 19, 21mm Sizes cover a wide variety of crankshaft pulley bolt sizes. Suitable for GM, Ford, Honda, Kia, Toyota, Lexus, Jeep and Mazda vehicles. Supplied in storage case.

**Sizes:** 17, 19, 21mm



**C SX1819**  
**80mm 1/2" Sq Drive 18.5 x 19.5mm Double Ended Impact Socket**

Double ended, 80mm impact socket 1/2" Sq drive. Designed for easy removal of wheel bolts/nuts with missing or distorted caps. Suitable for Ford, GM, Jeep, Chrysler. Thin-wall design to fit a wide range of applications. Black phosphate finish.

**Sizes:** 18.5 x 19.5mm



**D SX271**  
**4pc 1/2" Sq Drive Impact Wheel Nut/Removal Flip Socket Set**  
 Flip socket set featuring wheel nut socket one end and fluted socket the other, for removing locking or rounded off wheel nuts. Attach the 75mm extension bar and slip on one of the double end impact tools. Simple and fast interchange, pull socket off bar, flip 180°, put it back on. High quality Chrome Molybdenum impact sockets with heat treatment and anti-corrosion finish.

**Sizes:** 17, 19, 21mm



**E SX1820**  
**5pc 80mm 1/2" Sq Drive Double Ended Impact Socket Set**

Chromium plated caps fitted to some wheel nuts are prone to swelling, making them incompatible with standard whole size sockets. Half sizes allow secure fitment for safe removal. Double ended 80mm impact sockets 1/2" Sq drive 6-point. Black phosphate finish. Supplied in storage case.

**Contents:** 80mm Sockets; 18.5 x 19.5, 19 x 21, 21 x 21.5, 22 x 22.5mm, 1/2" Sq Drive Extension; 75mm



**F SX1822**  
**63mm 1/2" Sq Drive 27 x 27.5mm Double Ended Impact Socket**

Designed for easy removal of wheel bolts/nuts with missing or distorted caps. Double ended Chrome Molybdenum impact socket. Thin-wall design to fit a wide range of applications. Black phosphate finish.

**Sizes:** 27 x 27.5mm



**G-H SEE BELOW**  
**18V 1/2" Sq Drive Cordless Impact Wrenches**

For full details, see page 874.

**Model No:**

**CP400LI**

**CP400LIHV**

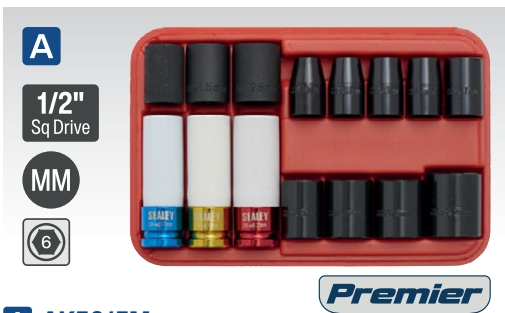


**I SX1821**  
**2pc 1/2" Sq Drive 4-in-1 Impact Socket Set**

4-in-1 Double ended impact socket with 75mm 1/2" Sq drive impact extension bar. One socket can be used to replace four different sockets. Can safely be used with, impact wrench, air ratchet, breaker bar, or torque wrench. Constructed from Chrome Vanadium steel for maximum strength, ideal for the professional.

**Contents:** 75mm Socket; 17 x 21, 19 x 22mm, 1/2" Sq Drive Extension; 75mm





**A AK5615M**  
**15pc 1/2" Sq Drive Impact Socket & Wheel Nut Removal Set**

Comprehensive impact socket set. Consists of three Chrome Molybdenum locking wheel nut removal sockets. Three Chrome Molybdenum colour-coded alloy wheel impact sockets with protective sleeve. Nine hardened and tempered Chrome Vanadium steel impact sockets with a phosphate finish for greater corrosion resistance. All impact sockets are WallDrive®, which allows a transfer of up to 30% more torque to the fixing. Supplied in storage case.

**Sizes:** Wheel Nut Removers; 18.5, 21.5, 26mm, Alloy Wheel Impact Sockets; 17, 19, 21mm, Impact Sockets; 10, 11, 13, 14, 17, 19, 22, 24, 27mm



**D AK5816M**  
**16pc 1/2" Sq Drive Deep Impact Socket Set**

Manufactured from Chrome Vanadium steel, hardened, tempered and with a phosphate finish for added corrosion resistance. Deep WallDrive® sockets allow a transfer of up to 30% more torque to the fixing.

**Type:** 1/2" Sq Drive - Deep  
**Sizes:** 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 24, 27, 30, 32mm



**G CV203**  
**Wheel Bolt Thread Restorer Kit - Commercial**

Contains four common wheel bolt thread sizes. Suitable for cleaning and repairing damaged threads, saving time and money. Use with a 32mm socket or spanner. Supplied in storage case.

**Thread Size:** M18 x 1.5mm, M20 x 1.5mm, M22 x 1.5mm, 7/8" x 11BSF  
**Adaptor Holder:** 32mm Hex Drive



**B SX202**  
**8pc 1/2" Sq Drive Locking Wheel Nut Removal Set**

Forged Chrome Molybdenum steel 1/2" Sq drive sockets for removal of wheel locking nuts. May also be used on fixings too damaged or corroded for standard sockets. Suitable for use with impact wrenches. For distribution to bona fide vehicle dealers and repair centres only. Supplied in storage case.

**Sizes:** 17, 18.5, 20, 21.5, 23, 24.5, 26, 27.5mm



**E SX272**  
**10pc Locking Wheel Nut Removal Set**

Conical shaped design allows socket to fit over locking/wheel nut. Socket is hammered onto nut using the punch, so nut and socket wedge together. Nut can then be removed with a breaker bar or impact wrench. Set also includes punch to remove nut from socket. For distribution to bona fide vehicle dealers and repair centres only.

**Sizes:** 19mm Hex Drive Sockets; Ø18, 19, 20, 21, 22, 22mm Hex Drive Sockets; 23, 24, 25mm



**H SX205**  
**Wheel Bolt Thread Chasers M12 & M14**

Contains the four most common wheel bolt thread sizes. Suitable for cleaning and repairing damaged wheel hub threads, saving time and money. Use with 12mm socket or spanner. Supplied in storage case.

**Sizes:** M12 x 1.25mm, M12 x 1.5mm, M12 x 1.75mm, M14 x 1.5mm



**C SX201**  
**5pc 1/2" Sq Drive Locking Wheel Nut Removal Set**

Forged Chrome Molybdenum steel 1/2" Sq drive sockets for removal of wheel locking nuts when the key is not available. May also be used on fixings too damaged or corroded for standard sockets. Set includes drift to aid removal of fixing from socket. Suitable for use with impact wrenches. For distribution to bona fide vehicle dealers and repair centres only. Supplied in storage case.

**Sizes:** 1/2" Sq Sockets; 17, 19, 21, 22mm, Drift; Ø12 x 80mm



**F SX200**  
**2pc 1/2" Sq Drive Locking Wheel Nut Removal Set**

Chrome Molybdenum steel socket with 1/2" Sq drive. Used with air impact wrench running in reverse, deep reverse helix grips locking wheel nut. Ideal for busy fast fit operation. Removal action will distort wheel nut and replacement is recommended. For distribution to bona fide vehicle dealers and repair centres only.

**Sizes:** 19, 21, 22mm (Across Flats)



**I SX203**  
**Reverse Action Wheel Stud Thread Restorer Kit**

Unique design allows for the two halves of the thread restorer to be fitted on the good thread and wound back over the damaged thread, normally at the end of the stud. Traditional thread restorers rely on luck for the restored and undamaged threads to align. Kit contains the three most common wheel stud thread sizes. Supplied in storage case.

**Adaptors:** 12 x 1.25, 12 x 1.5, 14 x 1.5mm  
**Adaptor Holder:** 29mm Hex Drive

**A SX218****21pc Locking Wheel Nut Key Set - Audi**

Set of 20 locking keys for the removal of security locking wheel nuts on Audi vehicles. Supplied with 1/2" Sq drive 17mm key drive socket. For distribution to bona fide vehicle dealers and repair centres only.

**Contents:** 1/2" Sq Drive 17mm Key Drive Socket, Keys; A, B, C, E, F, G, H, I, J, L, M, N, P, Q, R, S, T, V, W, X

**B SX206****22pc Locking Wheel Nut Key Set - Audi**

Set of 20 locking keys for the removal of locking wheel nuts on Audi vehicles. Adaptor can be used with either a 1/2" Sq drive or 21mm socket. Set includes drift to aid removal of key from adaptor. For distribution to bona fide vehicle dealers and repair centres only.

**C SX222****10pc Locking Wheel Nut Key Set - Land Rover**

Set of 10 locking keys for the removal of security locking wheel nuts on Land Rover vehicles. For distribution to bona fide vehicle dealers and repair centres only.

**Contents:** Keys; 3420A, 3421B, 3422C, 3423D, 3424E, 3425F, 3426G, 3427H, 3428I, 3429J (1998-2006)

**D SX225****10pc Locking Wheel Nut Key Set - VW**

Set of 10 locking keys for the removal of security splined locking wheel nuts on VW vehicles. For distribution to bona fide vehicle dealers and repair centres only.

**Contents:** Keys; #ABC0/10PT, #ABC1/11PT, #ABC2/13PT, #ABC3/14PT, #ABC4/15PT, #ABC5/16PT, #ABC6/17PT, #ABC7/19PT, #ABC8/20PT, #ABC9/21PT

**E SX224****12pc Locking Wheel Nut Key Set - VW**

Set of 12 locking keys for the removal of security locking wheel nuts on VW vehicles. For distribution to bona fide vehicle dealers and repair centres only.

**Contents:** Keys; #51/6PT, #52/7PT, #53/8PT, #54/9PT, #55/10PT, #56/11PT, #57/12PT, #58/13PT, #59/14PT, #60/15PT, #61/16PT, #62/17PT

**F SX221****20pc Locking Wheel Nut Key Set - Porsche**

Set of 20 locking keys for the removal of security locking wheel nuts on Porsche vehicles. For distribution to bona fide vehicle dealers and repair centres only.

**Contents:** Keys; ABC-50, ABC-51, ABC-52, ABC-53, ABC-54, ABC-55, ABC-56, ABC-57, ABC-58, ABC-59, ABC-60, ABC-61, ABC-62, ABC-63, ABC-64, ABC-65, ABC-66, ABC-67, ABC-68, ABC-69

**G SX219****20pc Locking Wheel Nut Key Set - VAG**

Set of 20 locking keys for the removal of security locking wheel nuts on VAG vehicles. Special shape for ANTI-THEFT wheel nuts. For distribution to bona fide vehicle dealers and repair centres only.

**Contents:** Keys; #521, #522, #523, #524, #525, #526, #527, #528, #529, #530, #531, #532, #533, #534, #535, #536, #537, #538, #539, #540

**H SX220****22pc Locking Wheel Nut Key Set - VAG**

Set of 20 locking keys for the removal of security locking wheel nuts on VAG vehicles. Supplied with 1/2" Sq drive socket and shaft. Special shape for ANTI-THEFT wheel nuts. For distribution to bona fide vehicle dealers and repair centres only.

**Contents:** 1/2" Sq Drive Socket and Shaft, Keys; #521, #522, #523, #524, #525, #526, #527, #528, #529, #530, #531, #532, #533, #534, #535, #536, #537, #538, #539, #540

**I SX210****23pc Locking Wheel Nut Key Set - VAG**

Set of 22 keys for the removal of spline and security ribe locking wheel nuts on VAG vehicles. Includes 17mm wheel nut socket with 1/2" Sq drive. For distribution to bona fide vehicle dealers and repair centres only.

**Contents:** Spline Point; 10PT, 11PT, 13PT, 14PT, 15PT, 16PT, 17PT, 19PT, 20PT, 21PT, Security Rib; 51/6PT, 52/7PT, 53/8PT, 54/9PT, 55/10PT, 56/11PT, 57/12PT, 58/13PT, 59/14PT, 60/15PT, 61/16PT, 62/17PT

**A-C SEE BELOW**

**20pc Locking Wheel Nut Key Sets - Vauxhall**

Three sets of 20 locking keys for the removal of security locking wheel nuts on Vauxhall vehicles. For distribution to bona fide vehicle dealers and repair centres only.



**A SX214**  
**20pc Locking Wheel Nut Key Set - Vauxhall-A**

**Contents:** Keys; Z16512 - 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120



**B SX215**  
**20pc Locking Wheel Nut Key Set - Vauxhall-B**

**Contents:** Keys; Z16512 - 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140



**C SX216**  
**20pc Locking Wheel Nut Key Set - Vauxhall-C**

**Contents:** Keys; Z16512 - 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200



**D SX207**  
**22pc Locking Wheel Nut Key Set - BMW**

Set of 20 locking keys for the removal of locking wheel nuts on BMW vehicles. Adaptor can be used with either a 1/2" Sq drive or 21mm socket. Set includes drift to aid removal of key from adaptor. For distribution to bona fide vehicle dealers and repair centres only.

**1/2"**  
Sq Drive



**E SX227**  
**10pc Locking Wheel Nut Key Set - BMW**

Set of 10 locking keys for the removal of security splined locking wheel nuts on BMW vehicles. For distribution to bona fide vehicle dealers and repair centres only.

**Contents:** Tamperproof Bits; #11/15PT, #12/14PT, #13/16PT, #14/12PT, #15/11PT, #16/10PT, #17/7PT, #18/13PT, #19/8PT, #20/9PT



**F SX217**  
**21pc Locking Wheel Nut Key Set - BMW**

Set of 20 locking keys for the removal of security locking wheel nuts on BMW vehicles. Supplied with 1/2" Sq drive 17mm hex impact socket. For distribution to bona fide vehicle dealers and repair centres only.

**Contents:** 1/2" Sq Drive 17mm Hex Impact Socket, Keys; 041, 042, 043, 044, 045, 046, 047, 048, 049, 050, 051, 052, 053, 054, 055, 056, 057, 058, 059, 060

**1/2"**  
Sq Drive



**G SX208**  
**10pc Locking Wheel Nut Key Set BMW & Mini**

Set of 10 locking keys for the removal of security splined locking wheel nuts on BMW and Mini. For distribution to bona fide vehicle dealers and repair centres only.

**Contents:** Keys; #30/13PT, #31/15PT, #32/16PT, #33/17PT, #34/18PT, #35/19PT, #36/20PT, #37/21PT, #38/22PT & #40/23PT



**H SX209**  
**21pc Locking Wheel Nut Key Set - BMW & Mini**

Set of 20 keys for the removal of security spline and ribe locking wheel nuts on BMW and Mini. Includes 17mm wheel nut socket with 1/2" Sq drive. For distribution to bona fide vehicle dealers and repair centres only.

**Contents:** BMW No./Security Spline Point 30/13PT, 31/15PT, 32/16PT, 33/17PT, 34/18PT, 35/19PT, 36/20PT, 37/21PT, 38/22PT, 40/23PT, BMW No./Ribe Point - 30/13PT, 31/15PT, 32/16PT, 33/17PT, 34/18PT, 35/19PT, 36/20PT, 37/21PT, 38/22PT, 40/23PT

**1/2"**  
Sq Drive



**I SX213**  
**32pc Locking Wheel Nut Key Set - Mercedes**

Set of 30 locking keys for the removal of security locking wheel nuts on Mercedes vehicles. Supplied with 1/2" Sq drive socket and shaft. For distribution to bona fide vehicle dealers and repair centres only.

**Contents:** 1/2" Sq Drive Socket and Shaft, Keys; #301, #302, #303, #304, #305, #306, #307, #308, #309, #310, #311, #312, #313, #314, #315, #316, #317, #318, #319, #320, #321, #322, #323, #324, #325, #326, #327, #328, #329, #330

**1/2"**  
Sq Drive



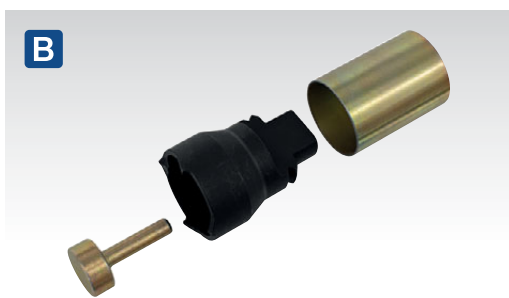
**A SX299**

**Master Locking Wheel Nut Removal Set**

Simple-to-use master kit capable of removing practically any locking wheel nuts. Kit includes shroud, which protects the wheel against any damage. Very effective and a must have workshop tool. For distribution to bona fide vehicle dealers and repair centres only.

Replacement Disposable Blades:

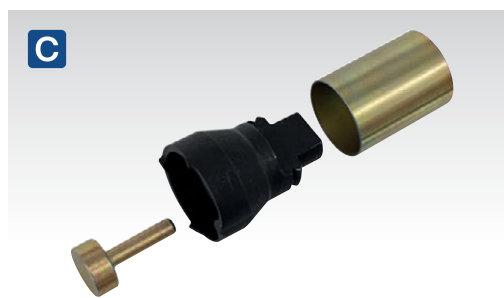
SX299DB (Pack of 10)



**B SX299RR**

**Cutter for SX299 Master Locking Wheel Nut Removal Set - Range Rover**

Specially designed cutter for use on Land Rover, Range Rover locking wheel nuts. To be used in conjunction with Model No. SX299 Master Locking Wheel Nut Removal Set.



**C SX299JAG**

**Cutter for SX299 Master Locking Wheel Nut Removal Set - Jaguar**

Specially designed cutter for use on Jaguar locking wheel nuts. To be used in conjunction with Model No. SX299 Master Locking Wheel Nut Removal Set.



**D SX299DB**

**Cutter C for SX299 - Pack of 10**

Designed for use on McGard locking wheel nuts. For use with Model No. SX299. For distribution to bona fide vehicle dealers and repair centres only.



**E SX223**

**12pc Locking Wheel Nut Key Set - Mercedes**

Set of 10 locking keys for the removal of security locking wheel nuts on Mercedes vehicles. Supplied with 1/2" Sq drive socket and shaft. For distribution to bona fide vehicle dealers and repair centres only.

**Contents:** 1/2" Sq Drive Socket Driver and Shaft, Keys; 5A, 5C, 5D, 5E, 5F, 5G, 5L, 5N, 5P, 5X.

1/2" Sq Drive



**F SX212**

**30pc Locking Wheel Nut Key Set - Mercedes**

Set of 30 locking keys for the removal of security locking wheel nuts on Mercedes vehicles. For distribution to bona fide vehicle dealers and repair centres only.

**Contents:** Keys; 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330



Premier

Touch Screen Fingertips

**G SEE BELOW**

**Light Palm Tactouch Mechanic's Gloves**

For more information, see page 1285.

Model No:	Size:
MG798L	Large
MG798XL	X-Large



**AIR Operated**

**A TC900**  
**19L Bead Seating Tool - Lever Trigger**

The easy and instant way to seat tubeless tyre beads. Dumps air into tyre void forcing bead to seat against rim for inflation. Air release is controlled by a hand lever operating a ball valve. Fully certified tank with gauge and safety valve prevents over pressurising. Suitable for use on cars, commercials, agricultural and ATV tyres.

Maximum Pressure:	150psi(10.4bar)
Tank Capacity:	19L
Weight:	12.6kg



**D**  
**Hydraulic**

**D TC966**  
**Hydraulic Bead Breaker**

Hydraulic action, suitable for breaking beads on commercial and agricultural tyres. Use in conjunction with hydraulic pump and hose (not included).

Optional Hydraulics:	Model No:
Air Pump:	RE83/840
Hose with Half Coupling:	RE97.10-03
Manual Pump:	RE97.10-01



**AIR Operated**

**B TC904**  
**19L Bead Seating Tool - Push-Button Trigger**

The easy and instant way to seat tubeless tyre beads. Dumps air into tyre void forcing bead to seat against rim for inflation. Air release is controlled by a diaphragm valve and push-button trigger. Features slotted key to prevent accidental operation of the trigger. Fully certified tank with gauge and safety valve prevents over pressurising. Suitable for use on cars, commercials, agricultural and ATV tyres.

Maximum Pressure:	150psi(10.4bar)
Tank Capacity:	19L
Weight:	13.2kg



0-140psi

**E SA37/94**  
**Professional Tyre Inflator with 2.5m Hose & Clip-On Connector**

For full details, see page 557.



**G** 10 Tonne

**AIR Hydraulic**

**G SEE BELOW**  
**10 Tonne Air Hydraulic Pump**

Suitable for use with SuperSnap® hydraulic ram as supplied with Model No. DZRE21 Body Straightener and all body repair kits. Supplied with or without air hose.

Model No:	Specification:
RE83/840	Air Pump Only
RE83/840/CWH	Air Pump with Hose
Maximum Air Input:	90-120psi
Oil Capacity:	450cc
Oil Pressure:	10000psi



**C**

1/2"  
Sq Drive

**C VS8001**  
**Hub Cleaner**

Removes surface dirt and corrosion on hubs that use wheel bolts. Ideal for preparing wheels, hubs and brake discs or drums for re-assembly. Use with 1/2" Sq drive adaptor.

Disc External Diameter:	Ø150mm
Disc Internal Diameter:	Ø88mm
Replacement Pad:	VS8001A



**F**

1/2"  
Sq Drive

**F VS8002**  
**14pc Stud Hub Cleaner**

Removes surface dirt and corrosion on hubs fitted with studs. Ideal for preparing wheels, hubs and brake discs or drums for re-assembly. Cleaning discs fit over wheel studs. Use with power drill or air impact wrench. Supplied with 1/2" Sq drive adaptor. Replacement cleaning pads available, order Model No. VS8002A.

Disc External Diameter:	Ø41mm course, Ø38mm fine
Disc Internal Diameter:	Ø14mm
Replacement Pads:	VS8002A (Pack of 12)



**H**

**H VS8003**  
**Wheel Stud Cleaning Tool Set**

Quick and easy wheel stud cleaning tool. Supplied with a 1/2" Sq drive/1/4" Hex adaptor. Six brushes; 12mm(7/16"), 13mm(1/2"), 14mm(9/16"), 16mm(5/8"), 22mm(7/8"), 28mm(1-1/8"). Quick change brushes, use with cordless drill (Max. Speed 1800rpm) or by hand.

Disc Internal Diameter:	Ø12mm(7/16"), 13mm(1/2"), 14mm(9/16"), 16mm(5/8"), 22mm(7/8"), 28mm(1-1/8")
-------------------------	--

## A TC960

### Manual Tyre Changer

Steel construction with manual bead breaker. Suitable for use on most open centred wheels. Supplied with tyre bar. To prevent damage to alloy wheel rims, use Model No. TC963 Tyre Bar.

<b>Working Diameter Minimum/Maximum:</b>	Ø190/430mm
<b>Wheel Depth Minimum/Maximum:</b>	0/300mm
<b>Working Height:</b>	650mm
<b>Centre Post Diameter:</b>	Ø41mm
<b>Optional Tyre Bar for Aluminium Wheels:</b>	TC963

## B TC965

### Motorcycle & Small Hub Tyre Changer

Manual type tyre changer suitable for a wide variety of tyres and wheels including those fitted to motorcycles, ATVs, go-karts and golf buggies. Works on bearing or hub centred wheels and is supplied with two centre posts. Includes manual bead breaker and supplied with tyre bar for mounting and de-mounting. Fast and simple operation. To prevent damage to the rims of alloy wheels, use optional Tyre Bar, Model No. TC963.

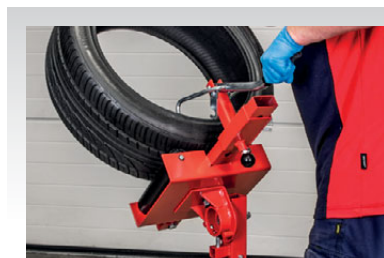
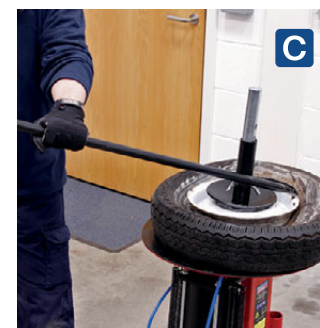
<b>Wheel Diameter Minimum/Maximum:</b>	Ø102mm/524mm(21")
<b>Wheel Depth Minimum/Maximum:</b>	0/280mm
<b>Centre Post Diameters:</b>	Ø12, 16, 19, 24mm
<b>Optional Tyre Bar for Aluminium Wheels:</b>	TC963

## C TC962

### Pneumatic/Manual Tyre Changer

Heavy steel construction. Pneumatic bead breaker. Suitable for use on most automotive/light commercial open centred wheels. Features additional air line coupling for tyre inflator. Supplied with standard tyre bar and PCL couplings. To prevent damage to the rims of the alloy wheel, use Model No. TC963 Tyre Bar.

<b>Working Pressure:</b>	100psi
<b>Maximum Pressure:</b>	150psi
<b>Wheel Diameter Minimum/Maximum:</b>	Ø203/460mm
<b>Wheel Depth Minimum/Maximum:</b>	40/300mm
<b>Optional Tyre Bar for Aluminium Wheels:</b>	TC963



## D TC970

### Manual Tyre Spreader with Stand

Floor standing unit for spreading vehicle tyres before carrying out repairs. Features rollers to rotate the tyre to the correct position and fully adjustable platform. Suitable for most cars and light commercial vehicles.

<b>Height:</b>	870mm
<b>Base Size:</b>	300 x 300mm
<b>Maximum Tyre Depth:</b>	230mm (Before Spreading)
<b>Tyre Spread:</b>	85mm
<b>Platform Swivel:</b>	360°
<b>Tilt:</b>	4-Position (Foot Operated)
<b>Maximum Tilt:</b>	90°
<b>Spreader Position Adjustments:</b>	7



## E TH003

### Tyre Trolley 150kg Capacity

Pick-up and transport stacks of car tyres with ease. Strong tubular steel construction with welded joints. Pneumatic tyres allow easy transportation over rough ground.

<b>Capacity:</b>	150kg
<b>Wheel Diameter:</b>	Ø250mm
<b>Height:</b>	1520mm
<b>Max. Jaw Capacity:</b>	900mm
<b>Min. Jaw Capacity:</b>	420mm



**A TC10**  
**Automatic Tyre Changer**

Automatic tyre changer capable of changing 11" to 24" wheel rims. Suitable for most cars and light commercial vehicles. Air operated rear tilting column and head lock. Protects alloy wheels with the added feature of plastic protectors fitted to the clamping jaws and mounting head. Supplied with 485mm tyre lever, integrated tyre inflator, tyre soap tub, air regulator and lubricator. Model No. TC10A Assist Arm is required for use with low profile and run flat tyres.

<b>Wheel Diameter Minimum/Maximum:</b>	Internal Clamping Ø11"-20", External Clamping Ø12"-24"
<b>Wheel Depth Minimum/Maximum:</b>	12"(305mm)
<b>Turntable Diameter:</b>	Ø26"(660mm)
<b>Bead Breaking Force:</b>	2500kg
<b>Tyre Inflator:</b>	0-10bar(0-145psi)
<b>Voltage/Phase:</b>	230V - 1ph
<b>Motor:</b>	1.1kW
<b>Operating Pressure:</b>	8-10bar(115-145psi)
<b>Inlet Size:</b>	1/4"BSP
<b>Dimensions (W x D x H):</b>	690 x 1100 x 1900mm
<b>Weight:</b>	246kg
<b>Optional Assist Arm:</b>	<b>B TC10A</b>
<b>Plug Type:</b>	3-Pin
<b>Power Supply Cable Length:</b>	2.2m

**A & B**

Model No. TC10 with Model No. TC10A fitted.



**Tyre Levers**

For our range of Tyre Levers, see page 562.



**B TC10A**  
**Tyre Changer Assist Arm for TC10**

The assist arm is a must have for mounting and dismantling low profile and run flat tyres and is for use in conjunction with Model No. TC10 Tyre Changer. Operated by air supply from tyre changer. Single air ram operates three separate arms with one control lever.

<b>Height:</b>	1220mm
<b>Height When Mounted:</b>	1550mm
<b>Operating Pressure:</b>	8-10bar(115-145psi)
<b>Weight:</b>	70kg



**C WB10**  
**Semi-Automatic Wheel Balancer**

Semi-automatic balancer with auto-data input for offset and wheel diameter, data can be input manually if required. Steel and alloy settings depending on required location of wheel weights, including split (hidden) weight. Additionally, the machine is self-calibrating with manual check option. Features auto-standby mode, foot operated brake, quick release locking wing nut and wheel guard with auto-stop. Suitable for most cars and light commercial wheels. Supplied with four centring cones, wheel measuring calipers, weight pliers and 100g calibration weight.

<b>Maximum Rim Diameter:</b>	28"
<b>Maximum Tyre Diameter:</b>	Ø1100mm
<b>Maximum Wheel &amp; Tyre Weight:</b>	70kg
<b>Maximum Rim Width:</b>	20"(510mm)
<b>Rotating Speed:</b>	140rpm
<b>Accuracy:</b>	±1g
<b>Balance Time:</b>	7s
<b>Shaft Width:</b>	40mm
<b>Voltage/Phase:</b>	230V - 1ph
<b>Motor Power:</b>	90W
<b>Mounting Cone Diameters:</b>	Ø42-65, 53-78, 75-108, 88-140mm
<b>Overall Size (W x D x H):</b>	1100 x 1000 x 1250mm
<b>Weight:</b>	128kg
<b>Plug Type:</b>	3-Pin
<b>Power Supply Cable Length:</b>	2.2m





**A S0540**

**Single Barrel Foot Pump**

Steel framed foot pump with Ø50 x 120mm steel barrel. Dial type pressure gauge with rotating bezel. Gauge calibrated in psi and bar and ranges from 0-100psi and 0-7bar. Fitted with 610mm of flexible pressure hose with clip-on type connector. Supplied with accessory for inflating items such as small inflatable boats, air beds and balls.



**B FP1**

**Single Barrel Foot Pump**

Steel framed foot pump with Ø50 x 120mm steel barrel. Dial type pressure gauge with rotating bezel. Gauge calibrated in psi and bar and ranges from 0-100psi and 0-7bar. Fitted with 610mm flexible pressure hose with locking connector. Supplied with accessory for inflating items such as small inflatable boats, air beds and balls.



**C FP2**

**Twin Barrel Foot Pump**

High power, steel framed foot pump with two Ø50 x 120mm steel barrels. Dial type pressure gauge with rotating bezel. Gauge calibrated in psi and bar and ranges from 0-100psi and 0-7bar. Fitted with 610mm flexible pressure hose with locking connector.



**D FP4**

**Twin Barrel Foot Pump**

Professional steel framed foot pump with two Ø50 x 120mm steel barrels. Features large metal pedal for easy operation and control. Easy-to-read dial type pressure gauge calibrated in psi and bar, ranges from 0-100psi and 0-7bar. Fitted with 1020mm flexible pressure hose with locking connector. Supplied with accessories for inflating items such as small inflatable boats, air beds and balls.



**E FP6**

**Twin Barrel Foot Pump**

High power, steel framed foot pump with two Ø45 x 115mm steel barrels. Dial type pressure gauge calibrated in psi and bar and ranges from 0-160psi and 0-10bar. Fitted with 700mm flexible pressure hose with locking connector.



**F BC110**

**Workshop Pump**

Durable construction with chrome plated steel upright tube. Dial type high pressure gauge with rotating bezel. Gauge calibrated in psi and bar with ranges from 0-160psi and 0-11bar. Fitted with twin head for both Presta and Schrader valves and a 360° rotatable hose. Features a wide base for added stability with foldable foot stand. Supplied with accessories for inflating items such as small inflatable boats, air beds and balls stored in a compartment located in the handle.



**G CTI120**

**Compact Rechargeable Tyre Inflator & Power Bank with Worklight**

Compact digital tyre inflator with output of 12L/min. Micro USB rechargeable (cable supplied). USB output for charging mobile phone etc. (5V/2A). Supplied with sports ball pin adaptor, balloon/inflatables adaptor and also a Presta valve adaptor for road bicycle tyres. Preset the desired psi to begin operation and unit will cut-out automatically once that pressure is reached. Auto-cut-out if hose kinks, to avoid damage to pump.

<b>Hose Length:</b>	140mm
<b>Typical Inflation Time:</b>	0-30psi in 619sec (175/70/R13)
<b>Maximum Pressure:</b>	120psi
<b>Airflow:</b>	0.42cfm/12L/min
<b>USB Output:</b>	5V/2A
<b>Battery:</b>	2000mAh 22.2Wh



**H**

See page 857 for tyre inflator kits.



**H CP20VAP**

**20V Cordless Tyre Inflator**

Handheld cordless tyre inflator with digital LED display. Pressure can be set in either psi or bar. Automatic cut-out when pre-selected pressure has been reached. Double injection composite body with rubber grips for added comfort and vibration reduction. Supplied with 150mm compressor hose with tyre valve, ball needle, bike tyre valves (x2) and universal adaptors (x3).

<b>Maximum Air Pressure:</b>	7bar/100psi
<b>Typical Inflation Time:</b>	0-30psi in 205sec (175/70R)
<b>Body Only Weight:</b>	0.7kg



**A-B**

**12V**



**E**

**12V**



**G**

**12V**



**C-D**

**12V**



**F**



**HEAVY DUTY**

**G MAC2300**

**12V Heavy-Duty Tyre Inflator/Air Compressor**

Suitable for inflating tyres on cars, vans and 4x4s. Powered by reliable, heavy-duty motor compressing free air to 30psi at the rate of 45ft<sup>3</sup>/hr. Integral gauge. Supplied with plug for use in vehicle accessory power socket. Accessory kit, containing Presta type adaptor, ball spike and two inflatables adaptors included in storage compartment on base.

**HEAVY DUTY**

**A-F SEE BELOW**

**12V Heavy-Duty Tyre Inflator/Mini Air Compressors**

A range of heavy-duty mini air compressors with delivery between 25L and 95L/min. Air output hose features quick release coupling. Suitable for inflating tyres on lawnmowers, motorcycles, cars, vans, 4x4s and commercial vehicles. Supplied in a storage bag with high pressure hose with screw-on connector and accessory kit including ball needle and adaptors for inflatables.

Table shows the approximate time taken to inflate a flat 13" standard tyre to 30psi and current draw at 40psi.

	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>	<b>G</b>
<b>Model No:</b>	MAC04D	MAC05D	MAC04	MAC05	MAC06	MAC07	MAC2300
<b>Hose Length:</b>	2m	4.5m	1.5m	4.5m	7.5m	7.5m	900mm
<b>Power Cord Length:</b>	5m	3m	3m	3m	3m	3m	4m
<b>Operating Voltage:</b>	12V	12V	12V	12V	12V	12V	12V
<b>Typical Inflation Time (175/70/R13):</b>	0-30psi in 139sec	0-30psi in 104sec	0-30psi in 139sec	0-30psi in 104sec	0-30psi in 60sec	0-30psi in 45sec	0-30psi in 218sec
<b>Maximum Current:</b>	13A	20A	13A	20A	33A	40A	10A
<b>Power Connection:</b>	Accessory Plug	Battery Clamps	Accessory Plug	Battery Clamps	Battery Clamps	Battery Clamps	Accessory Plug
<b>Maximum Pressure:</b>	100psi	100psi	100psi	150psi	150psi	150psi	200psi

**H MAC10S**

**12V Tyre Inflator & Emergency Puncture Sealant Kit**

Emergency kit includes 12V compressor, 450ml sealant bottle, accessories for inflatables, instructions and zipped storage bag fitted with hook-and-loop fastening for smart storage. Can seal a puncture up to Ø6mm at the roadside in under 10 minutes. Sealant is manufactured from natural rubber, meaning tyre can be washed out at the point of a professional repair. Very simple-to-use kit requires no tools, no need to remove the valve core and is TPMS safe. Plugs into a 12V vehicle accessory socket. Replacement sealant bottle available - Sealey Model No. MAC10SR. Suitable for cars, vans and 4x4s.

<b>Power Cord Length:</b>	3m
<b>Operating Voltage:</b>	12V
<b>Maximum Current:</b>	10A
<b>Maximum Pressure:</b>	100psi



**100psi 12V**

**I**

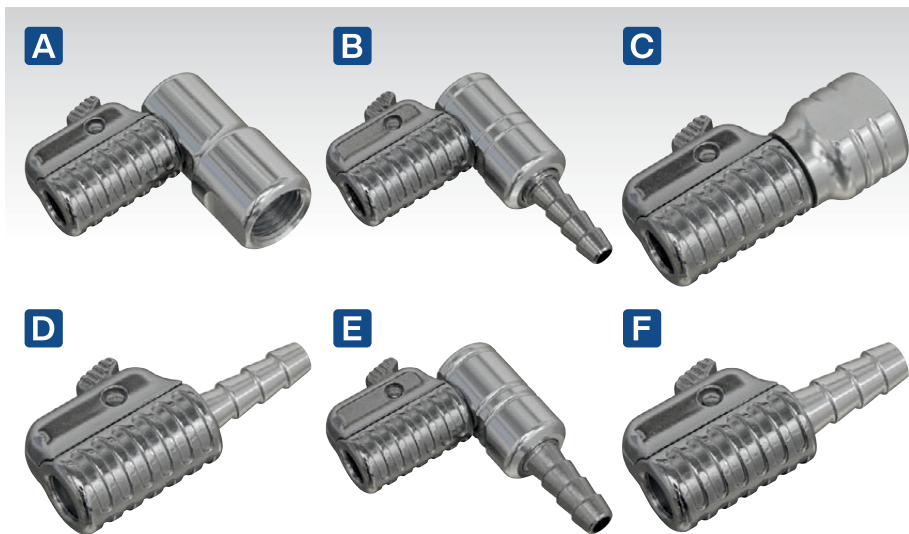


**I MAC10SR**

**450ml Replacement Tyre Sealant & Hose**

Emergency tyre sealant refill with hose for Sealey Model No. MAC10S. Can seal a puncture up to Ø6mm. Sealant is manufactured from natural rubber, meaning tyre can be washed out at the point of a professional repair. TPMS Safe. Suitable for cars, vans and 4x4s.

**Maximum Pressure:** 100psi



**A-F SEE RIGHT**  
**Tyre Inflator Clip-On Connectors**

Quick release coupling design with 360° swivel motion, for tyre inflators, wall gauges and portable gauges. Simple but effective thumb push-button quick release. Suitable to replace the connector on any tyre inflator with either a 1/4" BSP(M) or 8mm(5/16") bore hose. 90° Angled connectors for the difficult to reach valves.



Model No:	Description:
<b>A</b> PCL6A	Angled Swivel - 1/4" BSP(F)
<b>B</b> PCL6AT	Angled Swivel - 6mm(1/4") Bore
<b>C</b> PCL6S	Straight Swivel - 1/4" BSP(F)
<b>D</b> PCL6ST	Straight Swivel - 6mm(1/4") Bore
<b>E</b> PCL8A	Angled Swivel - 8mm(5/16") Bore
<b>F</b> PCL8S	Straight Swivel - 8mm(5/16") Bore



**G-I SEE BELOW**  
**Tyre Inflator Twin Connectors**

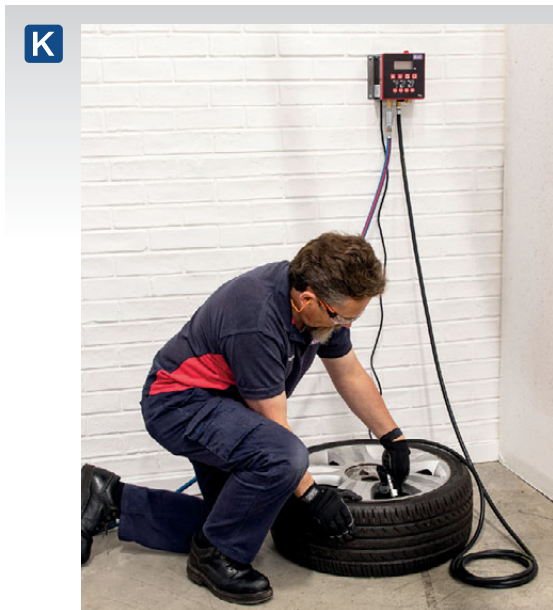
Suitable for many brands of tyre inflator fitted with a 1/4" BSP male connector on the end of the hose. Suitable for Sealey Model No's SA39, SA371, SA372, SA374, SA375, SA399, SA37/93, SA37/95, SA400, SA9312, SA9313, SA37/93B, SA37/96B and SA37/99.

Model No:	Description:
<b>G</b> SA37/C/O	Push-On Connector - Open
<b>H</b> SA37/C/C	Push-On Connector - Closed
<b>I</b> SA37/C/CLIP	Clip-On Connector



**J SA37/C**  
**Clip-On Connector for Tyre Inflators 1/4" BSP Fitting**

Compatible with many brands of tyre inflator fitted with a 1/4" BSP male connector on the end of the hose. Suitable for Sealey Model No's SA39, SA371, SA372, SA374, SA375, SA399, SA37/93, SA37/95, SA400, SA9312, SA9313, SA37/93B, SA37/96B and SA37/99.



0-174psi 230V



**K SA390**  
**Professional Air Qube Digital Tyre Inflator with OPS & Nitrogen Purge**

Robust, high reliability and modern design which is lightweight and space-saving. Touchscreen technology with human touch recognition software. Electronic pressure set with additional 4-button memory function. Three modes, inflate, deflate and over pressure setting (OPS) - which allows operator to set the machine to automatically seat the bead on new tyres whilst getting on with alternative work. The inclusion of the nitrogen (N2) purge facility allows the unit to increase the effectiveness of this increasingly popular tyre service. Red flashing light, flashing screen and audio signal for end of cycle. Auto-start Inflation. Ceramic sensor gives guaranteed accuracy to ± 0.5% of full scale reading even with hoses up to 50m in length. 21mm Backlit transfective LCD gives a clear easy-to-read display. Supplied with a wall bracket, 5m hose with new patented design clip-on connector and 3-pin plug.



<b>Range:</b>	0-12bar(0-174psi, 0-12.2kg/cm <sup>2</sup> , 0-1200kPa)
<b>Accuracy:</b>	± 0.5% of full scale reading
<b>Maximum Air Supply:</b>	12bar(174psi, 12.2kg/cm <sup>2</sup> , 1200kPa)
<b>Pressure Units:</b>	bar, psi, kg/cm <sup>2</sup> , kPa
<b>Inlet Size:</b>	1/4" BSP
<b>Temperature Range:</b>	-25°C to +55°C
<b>Supply:</b>	230V
<b>Plug Type:</b>	3-Pin
<b>Power Supply Cable Length:</b>	1.7m

**A-B SEE BELOW**

**Tyre Inflators**

Composite bodies and dial type gauge with rubber protector. Calibrated in bar and psi. Fitted with 500mm rubber hose and connector.

	<b>A</b>	<b>B</b>
<b>Model No:</b>	SA9302	SA9312
<b>Type:</b>	Clip-On	Twin Push-On
<b>Range:</b>	0-10bar (0-145psi)	0-10bar (0-145psi)
<b>Max. Air Supply:</b>	12bar(175psi)	12bar(175psi)
<b>Inlet Size:</b>	1/4"BSP	1/4"BSP



**C-D SEE BELOW**

**Jumbo Tyre Inflators**

Composite bodies and dial type jumbo gauge with rubber protector. Displays in bar and psi. Fitted with 400mm rubber hose and connector.

	<b>C</b>	<b>D</b>
<b>Model No:</b>	SA9303	SA9313
<b>Type:</b>	Clip-On	Twin Push-On
<b>Range:</b>	0-6.9bar (0-100psi)	0-11bar (0-160psi)
<b>Max. Air Supply:</b>	6.9bar(100psi)	11bar(160psi)
<b>Inlet Size:</b>	1/4"BSP	1/4"BSP



**E-F SEE BELOW**

**Tyre Inflators with Clip-On Connector**

Die-cast bodies and dial type gauge (Model No. SA400 has a digital gauge) with rubber protector. Model No. SA399 features a glow in the dark measuring scale. Fitted with 500mm rubber hose and single clip-on connector.

	<b>E</b>	<b>F</b>
<b>Model No:</b>	SA399	SA400
<b>Type:</b>	Clip-On	Clip-On
<b>Pressure Units:</b>	psi, bar	psi, bar, kPa and kg/cm <sup>2</sup>
<b>Range:</b>	0-7bar (0-100psi)	0-10bar (0-150psi)
<b>Max. Air Supply:</b>	170psi	250psi
<b>Inlet Size:</b>	1/4"BSP	1/4"BSP
<b>Battery:</b>	- 2 x AAA (Supplied)	



**G SA924**

**Tyre Inflator with Clip-On Connector**

Die-cast body and dial type gauge with rubber protector. Fitted with single clip-on connector.

<b>Range:</b>	0-10bar(0-145psi)
<b>Max. Air Supply:</b>	12bar(175psi)
<b>Inlet Size:</b>	1/4"BSP

**H TST001**

**Digital Tyre Pressure Gauge with Swivel Head & Quick Release**

Die-cast body and digital type gauge with rubber protector. Displayed in psi, bar, kpa and kg/cm<sup>2</sup>. Pressure release valve. Auto-power-off function. Rigid type swivel head with quick release.

<b>Range:</b>	0-150psi
<b>Pressure Units:</b>	psi, bar, kpa and kg/cm <sup>2</sup>
<b>Battery:</b>	2 x AAA (supplied)

**I TST002**

**Digital Tyre Pressure Gauge with Push-On Connector**

Die-cast body and digital type gauge with rubber protector. Displayed in psi, bar, kpa and kg/cm<sup>2</sup>. Pressure release valve. Auto-power-off function. Swivel head with hose and push-on connector.

<b>Range:</b>	0-150psi
<b>Pressure Units:</b>	psi, bar, kpa and kg/cm <sup>2</sup>
<b>Battery:</b>	2 x AAA (supplied)

**J TST003**

**Digital Tyre Pressure Gauge with Twin Push-On Connector**

Die-cast body and digital type gauge with rubber protector. Displayed in psi, bar, kpa and kg/cm<sup>2</sup>. Supplied with hose and twin push-on connector. Pressure release valve. Auto-power-off function.

<b>Range:</b>	0-150psi
<b>Pressure Units:</b>	psi, bar, kpa and kg/cm <sup>2</sup>
<b>Battery:</b>	2 x AAA (supplied)



**A SA371**  
Tyre Inflator with 0.5m Hose & Twin Push-On Connector

Manufactured to comply with EN 12645. Aluminium body with rubber bumper. Linear pressure scale, dual calibrated in psi and bar, with parallax correction. 0.5m Flexible hose fitted with 240mm, twin push-on air connector.

Range:	0-9.5bar(0-138psi)
Minimum Air Supply:	5.5bar(80psi)
Maximum Air Supply:	15bar(218psi)
Inlet Size:	1/4" BSP



**B SA372**  
Tyre Inflator with 2.7m Hose & Clip-On Connector

Manufactured to comply with EN 12645. Aluminium body with rubber bumper. Linear pressure scale, dual calibrated in psi and bar, with parallax correction. 2.7m Flexible hose fitted with clip-on air connector.

Range:	0-9.5bar(0-138psi)
Minimum Air Supply:	5.5bar(80psi)
Maximum Air Supply:	15bar(218psi)
Inlet Size:	1/4" BSP



**C SA374**  
Digital Tyre Inflator with 0.5m Hose & Twin Push-On Connector

Die-cast aluminium body with large rubber bumper, backlit LCD digital display and battery level indicator. Auto-power-off after 8 seconds and auto-power-on once pressure is sensed, or air inflation starts. 0.5m Flexible hose fitted with 240mm push-on air connector.

Range:	0-12bar(0-174psi)
Maximum Air Supply:	13.8bar(200psi)
Pressure Units:	bar, psi, kPa
Inlet Size:	1/4" BSP
Battery:	2 x AAA (supplied)



**D SA375**  
Digital Tyre Inflator with 2.7m Hose & Clip-On Connector

Die-cast aluminium body with large rubber bumper, backlit LCD digital display and battery level indicator. Auto-power-off after 8 seconds and auto-power-on once pressure is sensed, or air inflation starts. 2.7m Flexible hose fitted with clip-on air connector.

Range:	0-12bar(0-174psi)
Maximum Air Supply:	13.8bar(200psi)
Pressure Units:	bar, psi, kPa
Inlet Size:	1/4" BSP
Battery:	2 x AAA (supplied)



**HEAVY DUTY**

**E-G SEE RIGHT**  
Heavy-Duty Tyre Inflators

Heavy-duty tyre inflators with extruded aluminium body and zinc head. Linear pressure scale, read in psi and bar. Each fitted with rubber air hose and air connector.

	<b>E</b>	<b>F</b>	<b>G</b>
Model No:	SA399	SA395	SA396
Type:	Push-On	Clip-On	Clip-On
Hose Length:	0.5m	0.5m	2.7m
Range:	0-9.6bar(0-140psi)	0-9.5bar(0-140psi)	0-9.5bar(0-140psi)
Minimum Air Supply:	6.9bar(100psi)	6.9bar(100psi)	6.9bar(100psi)
Maximum Air Supply:	13.8bar(200psi)	13.8bar(200psi)	13.8bar(200psi)
Inlet Size:	1/4" BSP	1/4" BSP	1/4" BSP



**A-B SEE RIGHT**

**Professional Tyre Inflators**

Manufactured to comply with EN 12645. Aluminium bodies with rubber bumper. Linear pressure scale, dual calibrated in psi and bar, with parallax correction. Model No. SA37/93 has 0.5m flexible hose fitted with 240mm twin push-on air connector. Model No. SA37/94 has 2.5m hose with clip-on air connector for compliance with safety regulations relating to inflation of commercial and agricultural vehicle tyres. Supplied with a serial numbered calibration certificate.

<b>Model No:</b>	SA37/93	SA37/94
<b>Type:</b>	Push-On	Clip-On
<b>Hose Length:</b>	0.5m	2.5m
<b>Range:</b>	0-9.6bar(0-140psi)	0-9.6bar(0-140psi)
<b>Minimum Air Supply:</b>	5.5bar(80psi)	5.5bar(80psi)
<b>Maximum Air Supply:</b>	15bar(218psi)	15bar(218psi)
<b>Inlet Size:</b>	1/4" BSP	1/4" BSP



**C SA37/95**

**Tyre Inflator with 2.5m Hose & Twin Clip-On Connector**

Die-cast aluminium body with large rubber bumper. Linear pressure scale, dual calibrated in psi and bar, with parallax correction. 2.5m Flexible hose fitted with twin lock-on air connector. Supplied with a serial numbered calibration certificate.

<b>Range:</b>	0-9.6bar(0-140psi)
<b>Minimum Air Supply:</b>	5.5bar(80psi)
<b>Maximum Air Supply:</b>	15bar(218psi)
<b>Inlet Size:</b>	1/4" BSP



**D SA37/93B**

**Anodised Tyre Inflator with Twin Push-On Connector**

Manufactured to comply with EN 12645. Aluminium body with rubber bumper. Linear pressure scale, dual calibrated in psi and bar, with parallax correction. 0.5m flexible hose fitted with 240mm twin push-on air connector. Supplied with a serial numbered calibration certificate.

<b>Range:</b>	0-9.6bar(0-140psi)
<b>Minimum Air Supply:</b>	5.5bar(80psi)
<b>Maximum Air Supply:</b>	15bar(218psi)
<b>Inlet Size:</b>	1/4" BSP



**E SA37/96B**

**Premier Anodised Digital Tyre Inflator with Twin Push-On Connector**

Anodised black aluminium body with impact absorbing rubber bumper. Features auto-power-on/power-off backlit LCD digital display for ease of use. Calibrated in psi, bar and kPa. 0.5m Flexible hose fitted with 240mm twin push-on air connector. Features a battery level indicator, powered by 2 x AAA batteries (supplied). Supplied with a serial numbered calibration certificate.

<b>Range:</b>	0.3-17.2bar(4-250psi, 30-1720kPa)
<b>Maximum Air Supply:</b>	17.2bar(250psi)
<b>Inlet Size:</b>	1/4" BSP



**F SA37/98**

**Airlite Eco Tyre Inflator with Clip-On Connector**

Manufactured from nylon polymer and robust glass. Ergonomic lightweight design with textured thumb lever. Increased window size ensures clearer vision and better accuracy. Linear pressure scale, dual calibrated in psi and bar. 255mm Flexible hose fitted with a clip-on air connector.

<b>Minimum Air Supply:</b>	0-5.5bar (0-80psi)
<b>Maximum Air Supply:</b>	13bar (188psi)
<b>Inlet Size:</b>	1/4" BSP



**G SA37/99**

**Airlite Eco Tyre Inflator with Twin Push-On Connector**

Manufactured from nylon polymer and robust glass. Ergonomic lightweight design with textured thumb lever. Increased window size ensures clearer vision and better accuracy. Linear pressure scale, dual calibrated in psi and bar. 205mm Flexible hose fitted with 250mm twin push-on air connector.

<b>Minimum Air Supply:</b>	0-5.5bar (0-80psi)
<b>Maximum Air Supply:</b>	13bar (188psi)
<b>Inlet Size:</b>	1/4" BSP



0-150psi

**A TST001****Digital Tyre Pressure Gauge with Swivel Head & Quick Release**

Die-cast body and digital type gauge with rubber protector. Displayed in psi, bar, kpa and kg/cm<sup>2</sup>. Pressure release valve. Auto-power-off function. Rigid type swivel head with quick release.

Range:	0-150psi
Pressure Units:	psi, bar, kpa and kg/cm <sup>2</sup>
Battery:	2 x AAA (supplied)



0-150psi

**B TST002****Digital Tyre Pressure Gauge with Push-On Connector**

Die-cast body and digital type gauge with rubber protector. Displayed in psi, bar, kpa and kg/cm<sup>2</sup>. Pressure release valve. Auto-power-off function. Swivel head with hose and push-on connector.

Range:	0-150psi
Pressure Units:	psi, bar, kpa and kg/cm <sup>2</sup>
Battery:	2 x AAA (supplied)



0-150psi

**C TST003****Digital Tyre Pressure Gauge with Twin Push-On Connector**

Die-cast body and digital type gauge with rubber protector. Displayed in psi, bar, kpa and kg/cm<sup>2</sup>. Supplied with hose and twin push-on connector. Pressure release valve. Auto-power-off function.

Range:	0-150psi
Pressure Units:	psi, bar, kpa and kg/cm <sup>2</sup>
Battery:	2 x AAA (supplied)

**D TST/PG981****Digital Tyre Pressure Gauge with Leader Hose & Quick Release**

Push-on type tyre pressure gauge with easy-to-read LCD digital screen, displaying in psi with 0.5psi graduation. Pressure release valve. Single lithium cell will run approximately 4000 test cycles. Auto-off function with low battery indication.

Range:	0-100psi
Accuracy:	±1% Full Scale
Operating Temperature:	-10°C to 40°C
Connector Length:	Flexible 300mm
Battery:	1 x CR2032 (Supplied)



0-100psi



0-100psi

**E TST/PG6****Tyre Pressure Gauge with Clip-On Connector**

Robust gauge with protective rubber bumper. Supplied with clip-on connector.

Range:	0-7bar(0-100psi)
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0-220psi

**F TSTPG34****Tyre Pressure Gauge with Twin Connector**

Dial type pressure gauge with twin connector, reading up to 15bar(220psi). Metal body, long reach connector and high range scale. Compatible with both cars and commercial vehicles.

Range:	0-15bar(0-220psi)
Accuracy:	±3.5psi
Arm Length:	120mm



0-120psi

**G TSTPDG01****Tyre Pressure & Tyre Tread Depth Gauge**

Robust gauge with protective rubber bumper reading up to 8bar(120psi). Fitted with 45° angle chuck and pressure release button. Integral colour-coded tyre depth gauge.

Range:	0-8bar(0-120psi)
Accuracy:	±3%
Tyre Depth Range:	0-10mm



0-120psi

**H TSTPDG02****Tyre Pressure & Tread Depth Gauge with Flexible Hose**

Robust gauge with protective rubber bumper reading up to 8bar(120psi). Fitted with 335mm armoured flexible hose and pressure release button. Integral colour-coded tyre depth gauge.

Range:	0-8bar(0-120psi)
Accuracy:	±3%
Tyre Depth Range:	0-10mm

**TAKE TYRE SAFETY SERIOUSLY!**

Check your tyre pressures regularly. An under or over inflated tyre can add to your fuel consumption and cause additional wear. Both are dangerous. Visit [www.tyresafe.org](http://www.tyresafe.org) for more tyre safety advice.

**A NEW**



**A TST19**  
**Emergency Breakout Tool With Tyre Tread Depth Gauge**

Trigger action and hardened tip shatters glass with minimum effort. Designed for 5mm automotive tempered glass. Recessed seatbelt cutter provides fast and effective method of escape. Tyre tread depth gauge offers a quick and easy check of tread level.

**B**

3-150psi



**B TSTPG11**  
**Digital Tyre Pressure & Tread Depth Gauge**

Tyre pressure gauge with integral tread depth gauge and worklight. Push-button operation with backlit LED display for tyre pressure. Read-out available in bar, psi, kg/cm<sup>2</sup> or kPa. Integral tread depth gauge reads up to 20mm. Auto-power-off.

<b>Range:</b>	0.21-10.3bar(3-150psi, 0.21-10.5kg/cm <sup>2</sup> , 21-1034kPa)
<b>Accuracy:</b>	±1psi
<b>Pressure Units:</b>	bar, psi, kg/cm <sup>2</sup> , kPa
<b>Tread Depth Range:</b>	0-20mm
<b>Battery:</b>	2 x CR2032 3V (supplied)

**C 5-150psi**



**C TSTPG12**  
**Digital Tyre Pressure & Tread Depth Gauge with LED**

3-in-1 Pocket-size tyre gauge with removable keyring. Simple one-button operation with easy-to-read large backlit LCD display. Tread depth function gives high accuracy readings in mm or inches as well as a simple-to-read traffic light system for wear indication. Precise tyre pressure readings can be displayed in bar, psi, kPa and kg/cm<sup>2</sup>. Equipped with a bright LED and auto-power-off feature.

<b>Range:</b>	0.3-10.3bar(5-150psi, 34-1034kPa, 0.35-10.5kg/cm <sup>2</sup> )
<b>Accuracy:</b>	±1psi
<b>Pressure Units:</b>	bar, psi, kPa, kg/cm <sup>2</sup>
<b>Tread Depth Range:</b>	0-15.5mm
<b>Battery:</b>	2 x CR2032 (supplied)

**D**

0-160psi



**D TST/PG3**  
**Universal Deluxe Tyre Pressure Gauge with Twin Push-On Connector**

Designed for twin tyres but suitable for all cars and commercial vehicles. Precision engineered and fitted with large filter to protect operating mechanism for hard usage over long periods. Fully polished mirror finish.

<b>Range:</b>	0-11bar(0-160psi)
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**E**

0-160psi



**E TST/PG4**  
**Universal Deluxe Tyre Pressure Gauge with Twin Push-On Connector**

Designed for twin tyres but suitable for all cars and commercial vehicles. Precision engineered and fitted with large filter to protect operating mechanism for hard usage over long periods.

<b>Range:</b>	0-11bar(0-160psi)
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**F**

0-100psi



**F TSTPG10**  
**Digital Tyre Pressure Gauge**

Ergonomically designed lightweight tyre pressure gauge. Single push-button operation with LCD digital display. Read-out available in bar, psi, kg/cm<sup>2</sup> or kPa. Auto-power-off feature.

<b>Range:</b>	0-7bar(0-100psi, 0.7kg/cm <sup>2</sup> , 0.70kPa)
<b>Accuracy:</b>	±1% Full Scale
<b>Pressure Units:</b>	bar, psi, kg/cm <sup>2</sup> , kPa
<b>Battery:</b>	1 x CR2032 (supplied)

**G**

5-50psi

**H**

6-50psi



**I**

6-50psi

**G-I SEE BELOW**  
**Tyre Pressure Gauges**

Pencil type gauges with psi scale. Features valve deflator and pocket-clip. Suitable for use as a guide.

Model No:	Range:
<b>G TSTPG1</b>	5-50psi
<b>H TSTPG8</b>	6-50psi
<b>I TSTPG9</b>	6-50psi

**J**

0-60psi

**K**

0-60psi

**L**

0-100psi



**J-L SEE BELOW**  
**Dial Type Tyre Pressure Gauges**

Dial type pressure gauges with a metal body. TST/PG97 & TSTPG43 Feature offset valve connector. TST/PG99 Fitted with 45° angle chuck.

Model No:	Range:	Accuracy:
<b>J TST/PG97</b>	0-4.5bar(0-60psi)	±2psi
<b>K TST/PG99</b>	0-4bar(0-60psi)	±1.6psi
<b>L TSTPG43</b>	7kg/cm <sup>2</sup> (0-100psi)	±3psi



**A VS0563**  
**Digital Tyre Tread Depth Gauge**  
**DVSA Approved**

Calibrated and DVSA approved for use when testing all classes of vehicle. Hardened and tempered stainless steel gauge. Metric and Imperial calibration with conversion between the two. Zero reset control allows for comparative measurement. Includes flat surface plate for accurate zeroing of gauge prior to use. Supplied in storage case.

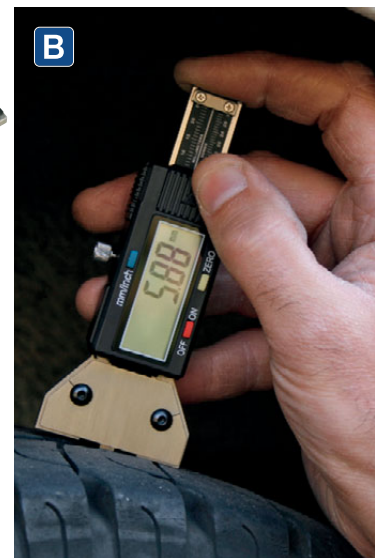


<b>Range:</b>	0-10mm(0-0.4")
<b>Accuracy:</b>	±0.01mm(0.0005")
<b>Battery:</b>	CR2032 (supplied)



**B VS0560**  
**Digital Tyre Tread Depth Gauge**

Hardened and tempered stainless steel gauge. 11mm High figures in LCD display for ease of reading. Metric and Imperial calibration with conversion between the two. Zero setting control allows for comparative measurement. Supplied in storage case.



<b>Range:</b>	0-25mm(0-1")
<b>Accuracy:</b>	±0.02mm(0.001")
<b>Battery:</b>	SR44 - 1.5V (supplied)

**Model No. VS0563 DVSA Approved Depth Gauge Calibration Certificate**

VS0563 has DVSA Approval which covers the initial calibration of the tool at the factory. The unit is supplied in a sealed box. Once the seal is broken the calibration cannot be guaranteed. We do not supply a certificate of calibration for this initial period. We recommend that the unit is returned to us annually for re-calibration. A test certificate can be issued at this point. Quote Model No. VS0563CAL.



**C VS0565**  
**Digital Tyre Tread Depth Gauge**  
**Pin Tip**

Hardened and tempered stainless steel gauge. 11mm Digits in LCD display for ease of reading. Metric and Imperial calibration with conversion between the two. Zero setting control allows for comparative measurement. Pin type tread-probe. Supplied with calibration certificate and storage case.

<b>Range:</b>	0-25mm(0-1")
<b>Accuracy:</b>	±0.02mm(±0.001")
<b>Battery:</b>	SR44 - 1.5V (supplied)



**D VS0564**  
**Digital Tyre Tread Depth Gauge**

Tough composite sliding gauge. 10mm Digits in LCD display for ease of reading. Metric and Imperial calibration with conversion between the two. Zero setting control allows for comparative measurement.

<b>Range:</b>	0-25mm(0-1")
<b>Accuracy:</b>	±0.02mm(0.001")
<b>Battery:</b>	LR44 - 1.5V (supplied)



**E MAC10SR**  
**450ml Replacement Tyre Sealant & Hose**

For full details, see page 553.

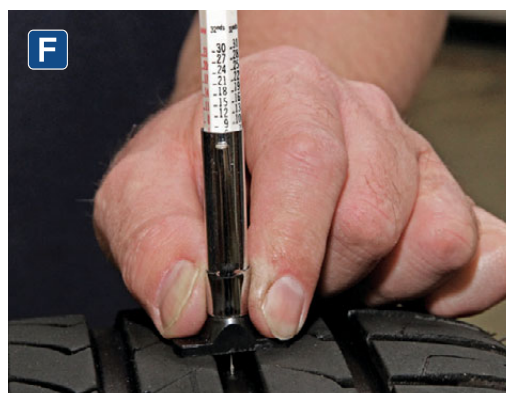


See page 553 for our range of 12V Tyre Inflators.



**F TST/DGE**  
**Tyre Tread Depth Gauge - Pocket Type**  
 Chromed steel body with pocket-clip. Scale from 0-25mm in 1mm(0-1" in 1/32") graduations.

<b>Range:</b>	0-25mm(0-1")
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**G TST/DG**  
**Tyre Tread Depth Gauge - DVSA Approved**  
 Chromed steel body with pocket-clip. DVSA Approved depth scale includes 1.6mm graduation for minimum tyre tread requirements. Scale from 0-26mm in 1mm graduations.

<b>Range:</b>	0-26mm
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**A**



**A TST/VT Tyre Valve Service Tool**

Phosphate finish with knurled body. Cleans and restores internal and external threads, and also includes valve core removal tool.

**B**



**B TST/VCT Tyre Valve Core Tool**

Used for removal and installation of the core from a wheel valve. Features easy grip handle and ideal for the busy workshop. Suitable for motorcycles, cars and commercial vehicles.

**Length:** 97mm

**C**



**C TST18 Torque Limited Tyre Valve Tool**

Pocket size tool specifically designed to prevent over tightening of valve cores fitted to wheels/tyres with TPMS. Over-torquing can easily damage delicate pressure sensor packs, causing expensive repairs.

**Preset Torque:** 0.48Nm (4lb.in)

**D**



**D TST04 Alloy Rim Tyre Valve Installer**

Simplifies installation of tyre valves in tubeless wheels. Pulls tyre valve assembly through rim. Shank is notched to accommodate various rim styles. Manufactured from resilient nylon to minimize damage and marking to alloy wheels. Features a valve core removal tool mounted in the base of the handle.

**Length:** 270mm

**E NEW**



**E SA37/99 Airlite Eco Tyre Inflator with Twin Push-On Connector**

Manufactured from nylon polymer and robust glass. Ergonomic lightweight design with textured thumb lever. Increased window size ensures clearer vision and better accuracy. Linear pressure scale, dual calibrated in psi and bar. 205mm Flexible hose fitted with 250mm twin push-on air connector. For full specification, please see page 557.



**F-I SEE BELOW Snap-in Tubeless Tyre Valves Packs of 100**

Wheel rim hole size 11.5mm(0.453"). Manufactured from EDPM rubber which prevents dry rot and wear.

	<b>F</b>	<b>G</b>	<b>H</b>	<b>I</b>
<b>Model No:</b>	TV412	TV413	TV414	TV418
<b>Length:</b>	22mm	30mm	38mm	49mm

**J**



**J TST/TVI Tyre Valve Installer**

Simplifies installation of tyre valves in tubeless wheels. Pulls tyre valve assembly through rim. Shank is notched to accommodate various rim styles. Strong 270mm long handle with corrosion resistant plating.

**Length:** 270mm

**K**

**1/2" Sq Drive**

**MM**

**6**



**K SX031 3pc 1/2" Sq Drive Alloy Wheel Impact Socket Set**

**Deep**

Chrome Molybdenum sockets, hardened, tempered and anodised for corrosion resistance. Suitable for use with impact tools. Each socket is sleeved and has an insert to prevent damage to alloy wheels and nuts. Colour-coded sockets for easier size selection. Comprises deep or long reach 17, 19 and 21mm sockets. Supplied in storage case.

**Type:** Deep  
**Sizes:** 17, 19, 21mm

**L**



**L VS0368 Stick On Wheel Weight Pliers**

Adjustable Jaws for different types of wheel weights. Plastic covered jaws and hammer help protect the alloy wheel from damage. Easy and quick to remove stick on wheel weights.

**M**



**M VS0361 Wheel Balancing Weight Pliers**

Multipurpose tool. Primarily designed for the installation and removal of wheel balance weights. Also includes tools for prising off wheel trims and preparing wheel balance weights.

**Length:** 240mm



**A TC963**

**Tyre Bar for Aluminium Wheels**

Tyre bar fitted with nylon ferrules to prevent damage to aluminium wheel rims. Suitable for use with Model No's TC960, TC962, TC965 and other makes of manual tyre changer.

Length: 1015mm



**B**

**B VSTL940**

**Tyre Lever - Commercial**

Carbon steel tyre lever with hook ends. Suitable for use on commercial vehicle tyres.

Length: 940mm



**C**

**C SX500**

**Torque Multiplier Wheel Nut Wrench 65:1**

Ideal for removing/installing wheel nuts on commercial and light commercial vehicles when air impact wrench is not easily accessible. Supplied in storage case with two impact sockets and 210mm extension.

Output Drive: 1" Sq (Male)  
Ratio: 65:1  
Maximum Rated Output: 6200Nm



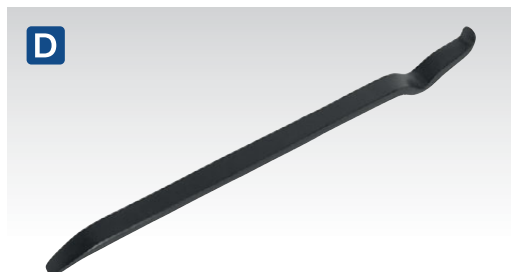
**A**

**D VSTL10**

**Heavy-Duty Tyre Lever**

Carbon steel tyre lever, with hook and taper ends.

Length: 600mm



**D**



**E**

**E TST15**

**Patch Stitch Roller**

Designed to roll down inner tube and tyre repair patches to remove trapped air and ensure good adhesion. Features a strong wooden handle.

Roller Diameter/Thickness: Ø37/2.5mm



**F**

**G**

**H**

**I**

**J**

**F-J SEE BELOW**

**Tyre Levers**

Hardened carbon steel tyre levers, with hook and taper ends.

Model No:	Length:
<b>F</b> VSTL300	300mm
<b>G</b> VSTL450	450mm
<b>H</b> VSTL500	500mm
<b>I</b> VSTL590	590mm
<b>J</b> VSTL760	760mm



**K NEW**

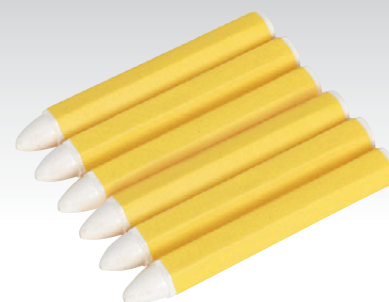
**K VSTL3456**

**4pc Tyre Lever Set**

Carbon steel with hardened and tempered ends. Hook and taper ends. Lengths: 300, 400, 500 and 600mm.



**L**



**M**



**L-M SEE BELOW**

**Tyre Marking Crayons - Pack of 6**

Suitable for marking tyre damage or areas for repair. Will work on practically any surface including rubber, metal and paint. Paper protective wrapper can be peeled back as crayon wears.

Model No:	Colour:	Length:
<b>L</b> TST13	White	100mm
<b>M</b> TST14	Yellow	100mm



**A TST10**  
**Temporary Puncture Repair Kit**

Ideal for repairing punctures on tubeless tyres fitted to agricultural and off-road vehicles. Can also be used as a temporary/emergency fix on cars and commercial vehicles. Allows the tyre to be repaired without removing the tyre from the wheel. Not to be used as a permanent repair for road vehicles.

**Contents:** Rasp, Insertion Needle, Repair Strips (x30), Glue



**D MAC04**  
**12V Heavy-Duty Tyre Inflator/Mini Air Compressor**

Mini air compressor with delivery of 25L/min. Air output hose features quick release coupling. Suitable for inflating tyres on cars. Supplied in a storage bag with accessory kit including ball needle and adaptors for inflatables.

Table shows the approximate time taken to inflate a flat 13" standard tyre to 30psi and current draw at 40psi.

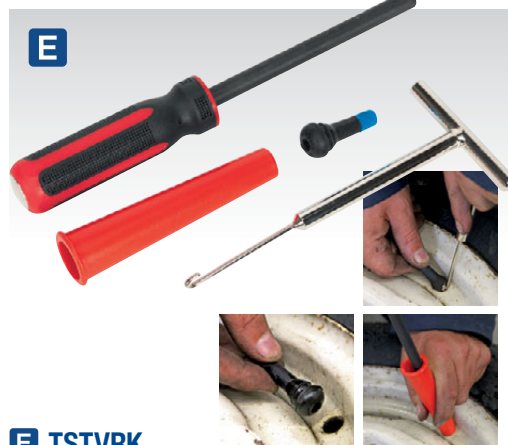
<b>Maximum Pressure:</b>	100psi
<b>Maximum Current:</b>	13A
<b>Hose Length:</b>	1.5m
<b>Power Cord Length:</b>	3m
<b>Operating Voltage:</b>	12V
<b>Typical Inflation Time (175/70/R13):</b>	0-30psi in 139sec
<b>Power Connection:</b>	Accessory Plug



**B TST09**  
**Temporary Puncture Repair & Service Kit**

Ideal for repairing punctures on tubed and tubeless tyres fitted to agricultural and off-road vehicles. Can also be used as a temporary/emergency fix on cars and commercial vehicles. Repair strips allow tubeless tyres to be repaired without removing the tyre from the wheel. Also includes parts and tools for general tyre servicing. Not to be used as a permanent repair for road vehicles.

**Contents:** Temporary Tubeless Repair; Rasp, Insertion Needle, Repair Strips (x10), Tube Repair; Patches - Ø30mm Round (x3), Ø57mm Round (x3), Abrasive Scraper, Glue, Service Items; Valve Caps (x4), Valve Cores (x4), Tools; Tyre Pressure Gauge (10-50psi), Tyre Valve Service Tool



**E TSTVRK**  
**Tyre Valve Removal/Installation Tool**

Remove and install leaking tyre valves without having to remove the tyre. Works on steel wheels and especially good for valves on motorcycle or agricultural wheels. Time-saving tool. Not suitable for high pressure valves.

**Contents:** Cone, Push/Pull Driver, Valve Hook Tool, Tyre Valve



**G TST12**  
**Puncture Repair Rasp - Fine**

Used to clean and widen the puncture before repairing a tubeless tyre. Suitable for car, commercial, agricultural and off-road vehicle tyres.



**C TST11**  
**Temporary Puncture Repair Strips - Pack of 60**

Repair strips for Model No's TST09 and TST10 repair kits.

**Length:** 100mm  
**Diameter:** Ø6mm



**F 3015CXHV**  
**3 Tonne Trolley Jack with Super Rocket Lift & Axle Stands (Pair) - Green**

Single-piece hydraulic unit with heavy chassis design and large jacking saddle (Pad available as optional extra - Model No. JP17). Universal joint release mechanism allows safer, more controlled lowering of the jack. Twin piston Super Rocket Lift feature brings lifting arm straight into contact with the jacking point. Polyurethane wheels for smoother manoeuvrability and helps prevent damage to workshop floor. Fitted with safety overload valve and pump-through valve to prevent handle locking at maximum ram extension. Ideal for loaded vans up to 3.5 Tonne GVW. Supplied with Pin Type Axle Stands, 3 Tonne (3000kg) capacity per stand (6 Tonne (6000kg) per pair). For full specification, see page 280.



**H VS8581**  
**23mm Folding Mechanic's Kneeling Mat**

For more information, see page 612.



**A SX051**  
3pc 1/2" Sq Drive 12-point Impact Hub Nut Socket Set

Heavy-duty, high quality, 12-point, Chrome Molybdenum impact sockets suitable for use with any 1/2" Sq drive impact tool. Blackened finish for added corrosion resistance. Tool suitable for hub nut applications where high torque is required. Supplied in a storage case.

Drive:	1/2" Sq
Sizes:	30, 32, 36mm



**B SX050**  
5pc 1/2" Sq Drive Impact Hub Nut Socket Set

Heavy-duty, high quality, Chrome Molybdenum impact sockets suitable for use with any 1/2" Sq drive impact tool. Blackened finish for added corrosion resistance. Tool suitable for hub nut applications where high torque is required. Supplied in a storage case.

Drive:	1/2" Sq
Sizes:	29, 30, 32, 34, 36mm



**C AK5613TD**  
13pc 1/2" Sq Drive Total Drive® Impact Socket Set

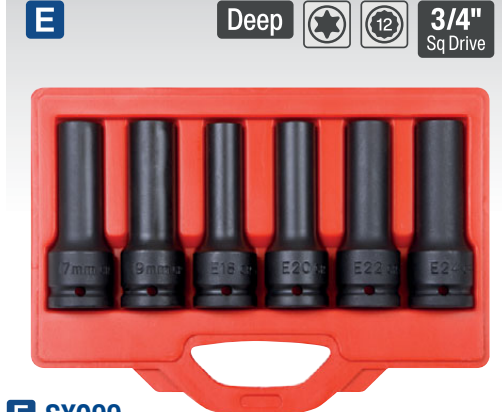
For more information, see page 99.



**D SX052**  
6pc 1/2" Sq Drive Impact Spline Socket Bit Set

Specialist set of tools suitable for removal and adjustment of hubs, steering and suspension on selected VAG vehicles. High quality Chrome Molybdenum components suitable for use with impact tools.

Drive:	1/2" Sq
Contents:	Spline Bits (40 & 75mm); M14, M16, M18



**E SX099**  
6pc 3/4" Sq Drive Impact 12-Point & TRX-Star\* Female Deep Socket Set

Heavy-duty Chrome Molybdenum 3/4" Sq drive deep impact sockets, 12-point and TRX-Star\* female. Suitable for commercial vehicle applications.

Drive:	3/4" Sq
Contents:	12-point Sockets; 17, 19mm, TRX-Star* Female Sockets; E18, E20, E22, E24



**G SX098**  
16pc 3/4" & 1" Sq Drive Impact Hex, TRX-Star\* & TRX-Star\* Female Socket Bit Set

Heavy-duty Chrome Molybdenum impact hex, TRX-Star\* socket bits and TRX-Star\* female socket bits. Suitable for commercial vehicle applications.

Drive:	3/4"/1" Sq
Contents:	Bits; Hex - 17, 19, 22, 24mm, TRX-Star* - T60, T70, T80, T90, T100, Sockets; TRX-Star* Female - E18, E20, E22, E24, Impact Socket Adaptors; 3/4", 1" Sq Drive



**H CP650LI**  
18V 1/2" Sq Drive Cordless Impact Wrench

For full details, see page 874.



**F SEE BELOW**  
Impact Sockets

Chrome Molybdenum, drop-forged, 6-point impact sockets. Hardened and tempered for strength and with phosphate finish for greater corrosion resistance.

Drive:	1" Sq
Model No:	Size:
CV085	85mm
CV090	90mm
CV095	95mm
CV100	100mm
CV105	105mm
CV110	110mm
CV115	115mm
CV120	120mm



**I SEE BELOW**  
Cut & Impact Resistant Gloves - Pairs

For full details, see page 1287.

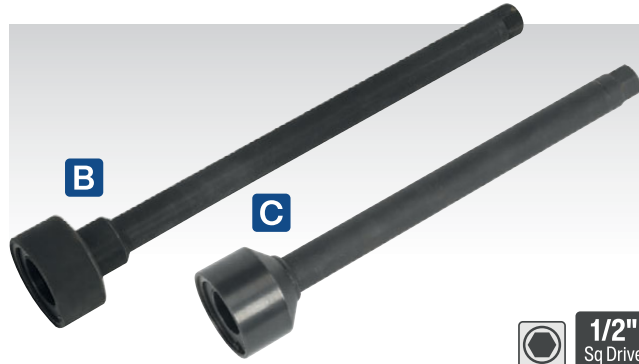
Model No:	Colour:	Size:
SSP38L	Red	Large
SSP39L	Green	Large



**A VS4003**  
4pc Steering Rack Knuckle Tool Set

Suitable for the fast removal/installation of the steering knuckle. Designed to fit over the steering shaft onto the steering rack. Three interchangeable heads fit racks with hex drive, two flats and round ends with a diameter of Ø30 to 45mm.

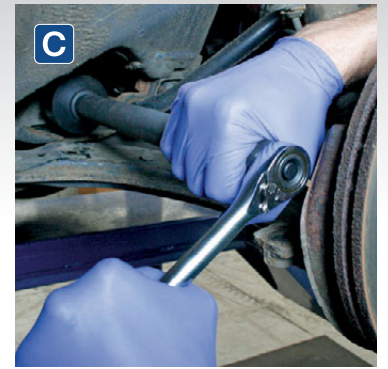
Length:	405mm
Internal Sleeve Length:	380mm
Drive:	32mm Hex, 1/2" Sq
Head Sizes:	Ø30-35mm, Ø35-40mm, Ø40-45mm



**B-C SEE BELOW**  
Steering Rack Knuckle Tools

Suitable for the fast and easy removal/installation of the steering knuckle. Designed to fit over the steering shaft onto the steering rack. Fits racks with hex drive, two flats and round ends.

	<b>B</b>	<b>C</b>
Model No:	VS4001	VS4002
Length:	470mm	400mm
Internal Sleeve Length:	440mm	360mm
Drive:	27mm Hex, 1/2" Sq	27mm Hex, 1/2" Sq
Head Size:	Ø35.5-41mm	Ø29-34mm



**D VS4005**  
Track-Rod Adjusting Grips

Designed for loosening and adjusting stubborn track-rods when making repairs or adjusting the wheel alignment. Ideal when the tie-rod has no hex or flats and a spanner cannot be used. Features a spring loaded jaw which grips tighter as more force is applied.

Length:	410mm
Maximum Capacity:	22mm



**E-F SEE BELOW**  
Steering Rack Knuckle Tools

Suitable for the fast and easy removal of the steering knuckle. Fits racks with hex drive, two flats and round ends. Ideal for vehicles with limited access and avoids the need to remove the rack assembly.

	<b>E</b>	<b>F</b>
Model No:	VS4000	VS4004
Drive:	19mm Hex	19mm Hex
Head Size:	Ø33-41mm	Ø40-54mm



**G AK381**  
Ball Joint Splitter

Chemically blackened forged steel body with thrust bolt. Suitable for most small cars and light vans.

Jaw Capacity:	19mm
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**H VS3815**  
Suspension Arm Lever

Suitable for the in situ separation of suspension components with minimum manual effort and maximum efficiency. Fully adjustable fulcrum position allows for use in a variety of positions and caters for left or right-handed use.

Length:	1.2m
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**I S01212**  
219pc 1/4", 3/8" & 1/2" Sq Drive Socket Set

For more information, see page 61.



**J S01214**  
135pc Mechanic's Tool Kit

For more information, see page 60.





**A PS993**  
**Hydraulic Hub Puller Set**  
 Puller yoke with 10 Tonne hydraulic ram. Suitable for four and five stud hubs. Hydraulic ram provides additional power to extract the most stubborn hubs.

Maximum Vehicle Stud Size:	15mm
Minimum/Maximum Stud Spread:	85/128mm
Maximum Centre Bore:	Ø60mm



**D VS1490**  
**Universal Hub Holding Wrench**  
 Universal hub holding wrench. Suitable for four and five stud wheels.

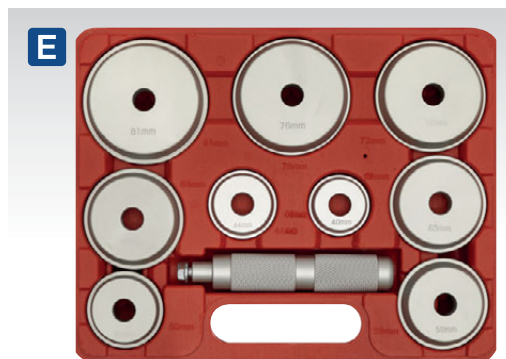


**G VS7024**  
**37pc Bearing & Seal Installation Kit**  
 Lightweight design for the installation of bearings without damaging the bearing or housing. Contains three metal bearing drift sleeves and 34 nylon drifts. Can also be used to install oil seals. Fits most sizes of bearing and seals found on modern vehicles. Supplied in storage case.

Drift Sleeve Sizes:	Ø25, 40, 60mm
Drift Sleeve Length:	220mm
Nylon Drift Sizes:	Ø26, 28, 30, 32 (x2), 35 (x3), 37, 40, 42 (x2), 47 (x3), 52 (x2), 55, 60, 62 (x3), 68, 72 (x2), 75, 80 (x2), 82, 85, 90 (x2), 100, 110mm



**B AK713**  
**1/2" Sq Drive Universal Hub Puller**  
 Cast iron ductile body with steel force screw and tommy bar. Suitable for four and five stud hubs. Use with a 1/2" Sq drive ratchet wrench or with tommy bar supplied.



**E VS703**  
**10pc Aluminium Bearing Race & Seal Driver Set**  
 Set of nine aluminium bearing and seal drivers. Suitable for straight installation of bearing race without damage to the bearing or axle housing. Fits most popular bearing race sizes. Supplied in storage case.

Driver Sizes:	Ø39.5, 44, 50, 59, 63, 64.5, 72, 76, 81mm
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**H SX031D**  
**3pc 1/2" Sq Drive Alloy Wheel Long Reach Impact Socket Set**  
 Chrome Molybdenum sockets, hardened, tempered and anodised for corrosion resistance. Suitable for use with impact tools. Each 6-point socket is sleeved and has an insert to prevent damage to alloy wheels and nuts. Colour-coded socket assists ease of size selection. Comprises deep or long reach 17, 19 and 21mm sockets. Supplied in storage case.

Drive:	1/2" Sq
Sizes:	17, 19, 21mm



**C VS8001**  
**Hub Cleaner**  
 For more information, see page 549.



**F VS7032**  
**52pc Bearing Race & Seal Driver Set**  
 Set of 49 square edged heavy-duty steel drivers from Ø18mm to Ø74mm. Suitable for installation of bearings or seals without damaging the bearing, seal or housing. Adaptors can also be used in a standard workshop press. Supplied in storage case.

Driver Sizes:	Ø18-65mm (1mm increments), Ø74mm
Contents:	Driver (x49), Punch, Punch Extension, 3mm Hex Key



**I SCS103**  
**500g Aluminium Anti-Seize Compound Tin**  
 Aluminium anti-seize compound, for use on all studs, nuts, bolts and other threaded connections.

Size:	500g
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**A**

1/2" Sq Drive



**A SX051**

**3pc 1/2" Sq Drive 12-point Impact Hub Nut Socket Set**

Heavy-duty, high quality, 12-point, Chrome Molybdenum impact sockets suitable for use with any 1/2" Sq drive impact tool. Blackened finish for added corrosion resistance. Tool suitable for hub nut applications where high torque is required. Supplied in a storage case.

**Sizes:** 30, 32, 36mm

**B**

1/2" Sq Drive



**B SX050**

**5pc 1/2" Sq Drive Impact Hub Nut Socket Set**

Heavy-duty, high quality, Chrome Molybdenum impact sockets suitable for use with any 1/2" Sq drive impact tool. Blackened finish for added corrosion resistance. Tool suitable for hub nut applications where high torque is required. Supplied in a storage case.

**Sizes:** 29, 30, 32, 34, 36mm

**C**

1/2" Sq Drive

VAG



**C SX053**

**5pc 1/2" Sq Drive 12-Point Impact Hub Socket & Socket Bit Set**

High quality Chrome Molybdenum hub impact sockets/hex bits. Specially designed for VAG vehicles. Suitable for use with 1/2" Sq drive impact tools.

**Contents:** 12-point Sockets; 24, 30, 32mm, Hex Bits; 14, 17mm

**D**

1/2" Sq Drive



**D SX136**

**36mm 1/2" Sq Drive Impact Hub Nut Socket**

Heavy-duty 6-point specialised stepped 36mm impact socket for removing the front hub nut on Fiat 500 and Ford Ka.

**Size:** 36mm 6-point

**E**

3/4" Sq Drive



**E SX021**

**56mm Bi-Hex Deep 3/4" Sq Drive 12-Point Impact Socket**

Forged and heat treated Chrome Vanadium steel impact grade socket, chemically blackened for corrosion resistance.

**Size:** 56mm Deep 12-point

**Applications:** Hub Nuts; Ford Transit 130,150, 190, (93on)

**F**

3/4" Sq Drive



**F SX0150**

**65mm 3/4" Sq Drive 12-Point Impact Socket**

Forged and heat treated Chrome Vanadium steel impact grade sockets, chemically blackened for corrosion resistance.

**Size:** 65mm 12-point

**Application:** Hub Nuts; Ford Transit

**G**

1/2" Sq Drive



**G SX001**

**38mm Deep 1/2" Sq Drive Impact Socket**

Forged and heat treated Chrome Vanadium steel impact grade socket, chemically blackened for corrosion resistance

**Size:** 38mm Deep 6-point

**Applications:** Ball Joints and Flywheel Nuts; Rover Group - Austin Mini, 1100/1300

**H**



**H SX138**

**Rear Hub Nut Socket - Ford Transit**

Heavy-duty 4-point specialised impact socket for removing the rear hub nut on RWD Ford Transit vehicles. Alignment shaft allows accurate location onto castellated nut.

**Stud Width:** 6.8mm

**Alignment Shaft Diameter:** Ø38mm

**Outer Diameter:** Ø70mm

**Application:** RWD Ford Transit (2014on)

**OEM Tool:** 205-1007

**I**

1/2" Sq Drive



**I SX002**

**1-13/16" Deep 1/2" Sq Drive Impact Socket - Imperial**

Forged and heat treated Chrome Vanadium steel impact grade socket, chemically blackened for corrosion resistance. Malleable steel material makes the socket suitable for use with either hand ratchet wrenches or air impact wrenches.

**Size:** 1-13/16" Deep 6-point

**Application:** Ball Joints; Austin Metro

**J**

**J SX011**

**52mm Hub Nut Box Spanner - Land Rover**

Ideal for removing and refitting the wheel hub retaining nuts and adjusting the wheel bearing free play. Suitable for Land Rover taper roller bearings. Use with bar through the Ø14mm cross-drilled holes.

**Size:** 52mm

**Application:** Land Rover

**K**

1/2" Sq Drive



**K SX010**

**52mm 1/2" Sq Drive Impact Socket**

Forged and heat treated Chrome Vanadium steel impact grade socket, chemically blackened for corrosion resistance.

**Size:** 52mm 6-point

**Applications:** Hub Nuts; Land Rover and Range Rover

**L**

**NEW**

1/2" Sq Drive



**L SX1821**

**2pc 4-in-1 Impact Socket Set**

For more information, see page 544.

**M VS3005**

**2pc Mercedes Benz Engine Mount Spanner 16 & 17mm**

2-Piece set consisting of 16 and 17mm ring spanners for Mercedes Benz engine mount bolts. 12-Point ring spanners with Internal 3/8" Sq Drive. Ideal for removing engine mount bolts in tight spaces.

**Drive:** 3/8" Sq

**Size:** 16, 17mm 12-point

**Length:** 123mm

**M NEW**



3/8" Sq Drive

A

1/2"  
Sq Drive

VAG

**A VSE18****Camber Adjusting Tool - VAG**

Specially designed tool makes it much easier to access concentric camber adjustment bolts on VAG rear multi-link suspension. Tool is designed for use with a 1/2" Sq drive Ratchet and torque wrench.

**Applications:**

**Audi:** A3 (04on), A4 (01on), A6 (05on), A8 (03on), TT (07on)

**Seat:** Alhambra (11on), Altea (07on), Toledo (13on), Ibiza (08on), Cordoba (02on), Ateca (16on)

**Skoda:** Octavia (04on), Superb (08on), Yeti (09on), Citigo (11on)

**Volkswagen:** Eos (06on), Golf (04on), Jetta (06on), Passat (06on), Polo (02on), Scirocco (09on), Tiguan (08on), Touran (04on)

B

1/2"  
Sq DriveVW  
MERCEDES**B VSE21****Camber Adjusting Tool Mercedes, VW**

Specially designed wrench makes it much easier to access the shock absorber fitting. Applications: Volkswagen Crafter and Mercedes-Benz Sprinter. 1/2" Sq drive 21mm Bi-hex profile.

**Drive:** 1/2" Sq

C

1/2"  
Sq DriveVW  
MERCEDES**C VS9840****Camber Adjustment Spanner - Mercedes, VW**

Designed to access hard-to-reach fixings on the suspension strut. Suitable for Volkswagen Crafter and Mercedes Benz Sprinter vans.

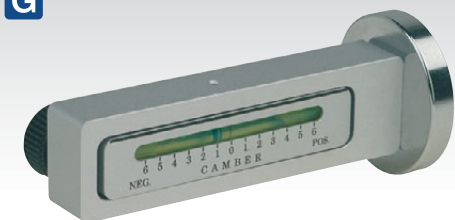
**Drive:** 1/2" Sq  
**Size:** 21mm 12-point

D

**D GA460****Steering Wheel Level**

Used to level the steering wheel before locking into position, prior to checking/adjusting the front wheel alignment. Ideal for use with 4-Wheel Laser Aligners such as Model No. GA70. Self-retaining and centring using a spring loaded mechanism. Features a level bubble to show horizontal position. Suitable for steering wheels with an internal diameter of between Ø270mm and 340mm.

G



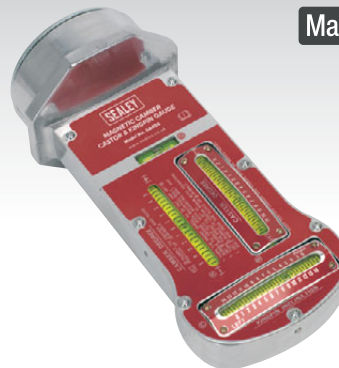
Magnetic

**G GA45****Magnetic Camber/Castor Gauge**

Robust, magnetic gauge mounts onto hub for quick and accurate measurement of camber and castor angles. Large adjuster knob for convenient zeroing of bubble during castor angle measurement. Graduated from -6° to +6°. Supplied in storage case.

**Adjustment:** -6° to +6°

E



Magnetic

**E GA450****Magnetic Camber Castor & Kingpin Gauge**

Robust, magnetic gauge mounts onto hub for quick and accurate measurement of camber, castor angles and kingpin inclination. Two large adjuster knobs, one for conveniently zeroing bubble during angle measurement, and one for adjusting kingpin inclination. Camber gauge with fixed graduation from -5° to +5°. Adjustable castor gauge graduated from -3° to +11°. Kingpin gauge graduated from 0° to 14° left to right. Supplied in storage case.

**Camber Gauge Graduation:** -5° to +5°  
**Castor Gauge Graduation:** -3° to +11°  
**Kingpin Gauge Graduation:** 0° to 14°  
**Magnetic Plate Diameter:** Ø85mm

F

**F GA10****Manual Wheel Balancer**

Suitable for balancing all types of wheels with hubs from Ø115mm. Simple-to-use and requires no power source.

**Minimum Hub Diameter:** Ø115mm

H

**H TH002****Wheel & Tyre Handling Dolly**

Enables commercial sized wheels and tyres to be removed/installed on hub studs.

**Capacity:** 127kg  
**Fork Centres:** 535mm  
**Length:** 1225mm

H

127kg





**A GA70**

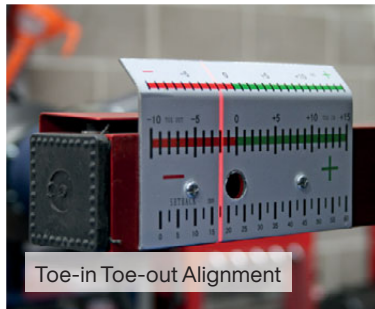
**4-Wheel Laser Wheel Aligner**

Fast, simple and accurate alignment of both front and rear wheels. Optimises vehicle performance and set-up after installation or modification of steering and suspension components. Simple and fast to use, it is ideal for the busy professional workshop and has a fast return on investment - potentially adding value to every steering or suspension job. This fully portable kit is also ideal for track-day set-up for the enthusiast. Works on most cars and light commercial vehicles with rim diameters between Ø330mm(13") and Ø560mm(22"). Supplied with steering wheel clamp, wheel turn plates and wheeled storage rack and comprehensive operating instructions.

**Contents:** Portable Mounting Storage Rack with Castor Wheels, Laser Alignment Heads (x2), Wheel Alignment Hangers (x2), Dished Turning Plates (x2), Steering Wheel Clamp, 13" Wheel Rim Spacers (x4), 40mm Extension Bobbins (x6)

**Optional Calibrating Rig:** GA70CR

**Sealey Calibration Service:** GA70CAL



Toe-in Toe-out Alignment



**B**

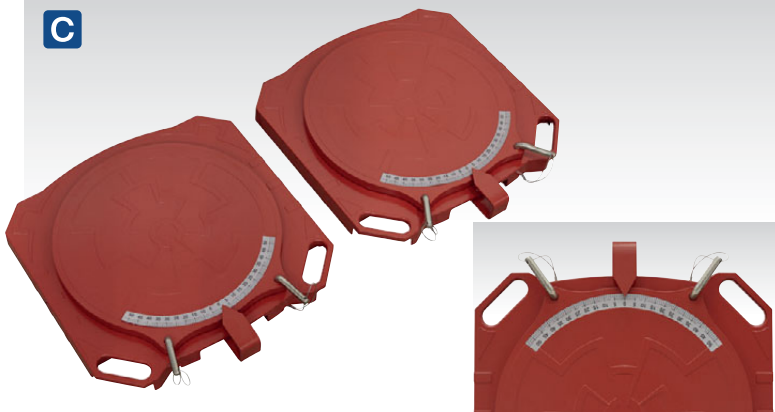
**B GA70CR**

**Calibration Rig for GA70**

Used to check and adjust the alignment of the lasers on Model No. GA70 Four-Wheel Laser Aligner. This unit will allow workshops to check and adjust in-house. Laser heads secure to the rig and rest on the bobbins that contact the vehicle's wheel rim. Supplied with comprehensive instructions.

Save money and buy the Wheel Aligner and Calibration Rig together, order model **GA70COMBO**.

**C**



**C GA44**

**Steering Turntables - Pair**

Use in conjunction with Caster Kingpin Gauge Sets for accurate caster and kingpin alignment. Also measures toe-in/out and full lock angles. Locking pins prevent rotation of table whilst driving vehicle on and ensure accurate angular measurements. Measures up to 55° rotation in either direction. Maximum loading 4000kg per pair.

<b>Range:</b>	±55°
<b>Table Size:</b>	Ø400mm
<b>Table Movement:</b>	62mm Front-to-back, 55mm Side-to-Side
<b>Table Height:</b>	50mm
<b>Capacity:</b>	4 Tonne pair, 2 Tonne each



**2-Wheel vs 4-Wheel Alignment**

2-Wheel	GA50	4-Wheel	GA70
• Checks toe-in/out on front wheels.		• Checks toe-in/out on front wheels.	
• Fast to use.		• Indexes on rear wheels - eliminates crabbing.	
• Low cost.		• Helps align steering wheel in central position.	
• Does not reference rear wheels.			



**D GA50**

**Laser Wheel Alignment Gauge**

Optical system uses low radiation laser beam to indicate toe-in or toe-out. Single leg configuration and reversible contact probes allow on-ramp use. Works on most cars and light commercials with rim diameters from Ø200mm(8") to Ø600mm(23.5"). Powered by 2 x AA batteries and includes operating instructions.

**A TST22****12V 13-Pin Towing Socket Tester  
DVSA Approved**

DVSA Approved for use in testing stations on vehicle classes 4, 5 and 7. Quick and simple test of 12V 13-pin Euro-type sockets fitted to the rear of the vehicle. Supplied with 4.9m cable to enable the operator to use the tool whilst sitting in the vehicle. Features self-test facility to ensure the serviceability of the tool. Powered by 12V vehicle supply. Also tests the 12V continuous/ignition live feeds and the reversing lights - not part of the current MOT test, but useful when diagnosing electrical faults. Includes 13 to 7-pin adaptor for testing older wiring systems.

**D VS0210****Brake & Fuel Pipe Inspection Tool**

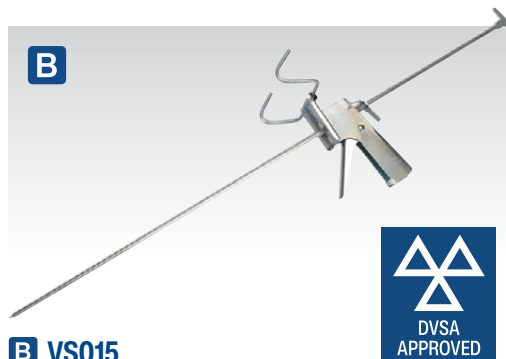
Specially designed for the removal of corrosion from brake and fuel pipes for fast and thorough inspection. Features 12 cleaning edges for different sizes and types of pipes. Includes curved cleaning edges for hard-to-reach areas. DVSA Compliant tool.

**Applications:** 3.5mm (Citroen), 4, 4.75mm, 3/16" Pipes

**F MG798L****Light Palm Tactouch Mechanic's Gloves**

Professional close fitting gloves with touchscreen index fingertips. Unlike conventional mechanic's gloves, they allow precision control when working with small fixings and tools. Soft, breathable and durable with anti-slip palms. Washable materials.

<b>Model No:</b>	<b>Size:</b>
MG798L	Large
MG798XL	X-Large

**B VS015****Brake Pedal Depressor - DVSA Approved**

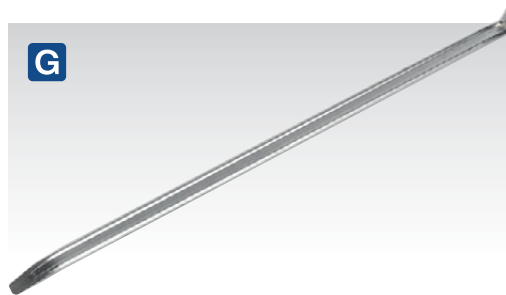
DVSA Approved tool, simplifying vehicle testing by allowing any test that requires the brakes to be applied to be carried out by one person rather than two.

**Maximum Length:** 740mm

**E HIMOT****Corrosion Assessment Hammer  
DVSA Approved**

The only official design of tool fully approved for MOT use in the UK. Metal shaft and composite body in accordance with DVSA specification. Durable design reduces risk of breakage of joint if dropped. Check for the DVSA approved markings.

**Length:** 140mm

**G VSTL760****Tyre Lever**

Hardened carbon steel tyre lever, with hook and taper ends.

**Length:** 760mm

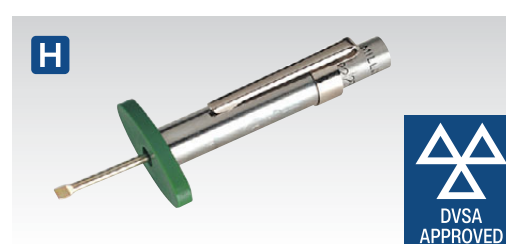
**C VS0563****Digital Tyre Tread Depth Gauge  
DVSA Approved**

Calibrated and DVSA approved for use when testing all classes of vehicle. Hardened and tempered stainless steel gauge. Metric and Imperial calibration with conversion between the two. Zero reset control allows for comparative measurement. Includes flat surface plate for accurate zeroing of gauge prior to use. Supplied in storage case.

<b>Range:</b>	0-10mm(0-0.4")
<b>Accuracy:</b>	±0.01mm(0.0005")
<b>Battery:</b>	CR2032 (supplied)

**Model No. VS0563 DVSA Approved  
Depth Gauge Calibration Certificate**

VS0563 has DVSA Approval which covers the initial calibration of the tool at the factory. The unit is supplied in a sealed box. Once the seal is broken the calibration cannot be guaranteed. We do not supply a certificate of calibration for this initial period. We recommend that the unit is returned to us annually for re-calibration. A test certificate can be issued at this point. Quote Model No. VS0563CAL.

**H TST/DG****Tyre Tread Depth Gauge - DVSA Approved**

Chromed steel body with pocket-clip. DVSA Approved depth scale includes 1.6mm graduation for minimum tyre tread requirements. Scale from 0-26mm in 1mm graduations.

**Range:** 0-26mm



**A HBS97**  
**Headlamp Beam Setter with Rails**

DVSA Approved for use in testing stations. Suitable for all types of motorcycles, cars and light commercial vehicles (Classes: I, II, III, IV, V, VII). Fixed aiming screen. Internal analogue LUX meter for accurate light intensity measurement. Supplied with instructions and certificate of approval.

<b>Height:</b>	1750mm
<b>Length:</b>	690mm
<b>Width:</b>	660mm
<b>Rail Length:</b>	2970mm
<b>Model No:</b>	<b>Specification:</b>
<b>HBS97</b>	Motorcycles, Cars, Light Commercial with Rails
<b>HBS97.HGV</b>	Commercial Vehicle with Rails
<b>HBS97R</b>	Rails only
<b>HBS97E</b>	1520mm Extension Rails
<b>HBS97ES</b>	700mm Extension Rails

**E MOTBKIT**  
**MOT Tool Board with Tools**

Shadow board with MOT approved and compliant tools. Keeps tools organized and in one location. Wall mounting and supplied with fitting kit. Board also available separately - Order Model No. MOTB.

<b>Size (W x H):</b>	812 x 404mm
<b>Model No:</b>	<b>Description:</b>
<b>AK989</b>	5m Rubber Measuring Tape
<b>H1MOT</b>	Corrosion Assessment Hammer
<b>S0837</b>	400mm Heel bar
<b>TST/DG</b>	Tyre Tread Depth Gauge
<b>TSTPG8</b>	Tyre Pressure Gauge with Pocket-Clip 6-50psi
<b>TST22</b>	12V 13-Pin Towing Socket Tester
<b>VS0210</b>	Brake & Fuel Pipe Inspection Tool
<b>VSTL760</b>	760mm Tyre Lever
<b>WB02</b>	Wire Brush
<b>MOTB</b>	MOT Board with Fitting Kit & Clips



**B HBS2001**  
**Workshop Headlamp Beam Setter**

Suitable for pre-MOT inspection in garages and bodyshops. Utilises same optical box and aiming screen as fitted to our MOT approved headlamp beam setter. Fixed aiming screen. Internal analogue LUX meter for accurate light intensity measurement. Suitable for all types of cars and light commercial vehicles. Fitted with fixed column and rubber wheels.

<b>Height:</b>	1750mm
<b>Length:</b>	620mm
<b>Width:</b>	660mm

**D AK9999**  
**Mini Laser Level Unit**

Approved for use with Model No. HBS97 MOT Approved Headlamp Beam Setter. Mini tripod can be placed on bonnet or any surface on the test area. Laser dot indicates if beam setter is in or out of calibration. Also suitable for other levelling applications and features a magnet on base for attaching to ferrous surfaces.

<b>Battery:</b>	2 x AAA (supplied)
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**C HBS2010**  
**Compact Headlamp Beam Setter**

Ideal for the garage or bodyshop where space is limited. Suitable for pre-MOT inspection and fulfils the legal obligation of the garage or bodyshop to return vehicles to the customer in roadworthy condition. Compact design includes shortened mast and view-through aiming device. Suitable for all types of cars, motorcycles and light commercial vehicles (Classes I, II, III, IV, V, VII).

<b>Height:</b>	1380mm
<b>Length:</b>	630mm
<b>Width:</b>	550mm



A

1000kg

Hydraulic



A VS7011

### 1000kg Hydraulic Coil Spring Compressor

Hydraulic hand pump unit powers 1000kg capacity ram and yoke assembly. Up to 50% faster than using other ratchet driven spring compressors. Equipped with two pairs of spring yokes with rubberised covers to prevent slippage and damage to springs. Suitable for springs from 80mm ID to 165mm OD.

Maximum Extension:	240mm
Piston Travel:	240mm
Yoke Specification:	
Size:	Spring Diameter:
Small:	Ø80-122mm (x2)
Large:	Ø110-165mm (x2)

B 1600kg



B RE225

### 1600kg Coil Spring Compressor Kit

High quality, European made, 1600kg coil spring compressor kit. Supplied with two pairs of drop-forged safety yokes, with polyurethane inserts for improved grip. Yokes are carefully shaped to prevent coil spring from bowing. Features Safety restraint wire as a precaution, in the unlikely event of a spring slipping.

Yoke Specification:	
Size:	Spring Diameter:
Small:	Ø80-120mm (x2)
Large:	Ø80-195mm (x2)
Drive:	27mm Hex
Maximum Jaw Opening:	335mm



C

1000kg

1/2" Sq Drive



C AK3841

### 2pc Coil Spring Compressor

Carbon steel, hardened lead screws and cast jaws. Wrapover coil claws for extra safety. Suitable for use where space under wheel arch is limited.

Drive:	21mm Hex/1/2" Sq
Maximum Jaw Opening:	244mm
Maximum Capacity Per Pair:	1000kg

D

1100kg

1/2" Sq Drive



D AK3846

### 2pc Long Reach Coil Spring Compressor

Carbon steel, hardened lead screws and cast jaws. Wrapover coil jaws for extra safety. Long reach jaws are ideal for the longer type of coil spring found on modern vehicles.

Drive:	21mm Hex/1/2" Sq
Maximum Jaw Opening:	390mm
Maximum Capacity Per Pair:	1100kg

E

1200kg

1/2" Sq Drive



E AK384

### 3pc Coil Spring Compressor with Safety Hooks

Carbon steel, hardened lead screws and cast jaws with safety hooks to prevent accidental release of spring under compression. Maximum load per set of three clamps 1200kg.

Drive:	1/2" Sq
Maximum Jaw Opening:	235mm
Maximum Capacity Per Set of 3 Clamps:	1200kg

F

1200kg

HEAVY DUTY



F AK3843

### 2pc Heavy-Duty Coil Spring Compressor with Safety Jaws

High security coil spring compressor with 1200kg maximum capacity per pair, featuring adjustable safety bar for additional security. Compressors have lower safety jaws for ultimate peace of mind. Use 19mm hex socket or spanner.

Drive:	19mm Hex
Maximum Jaw Opening:	290mm
Maximum Capacity Per Pair:	1200kg

G

850kg

HEAVY DUTY



G AK3842

### 350mm Coil Spring Compressor

Heavy-duty Chrome Vanadium construction. Long reach arms compress a higher proportion of the coil spring. Allows even and safe compression of spring prior to installation.

Drive:	19mm Hex
Maximum Jaw Opening:	350mm
Maximum Capacity:	850kg

H

2500kg

HEAVY DUTY



H AK3845

### 2pc Heavy-Duty Coil Spring Compressor Set 2500kg/Pair

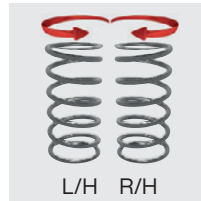
Heavy-duty coil spring compressor with hardened steel body and force screw. Ensures smooth compression of spring.

Drive:	17mm Hex
Maximum Jaw Opening:	280mm
Maximum Capacity Per Pair:	2500kg

**A-D SEE BELOW**

**Coil Spring Compressors**

These Coil Spring Compressor Kits have been specially designed for the left winding coil springs found on some modern vehicles. The yoke design allows left winding springs to seat safely and securely to the curvature of the yoke. Check the table below to find the right product.



Yokes	Right-Hand			Left-Hand	
	Ø80-105mm	Ø105-140mm	Ø145-190mm	Ø105-140mm	Ø145-190mm
RE229	✓	✓	✓		
RE239	✗	✗	✗	✓	✓
RE249	✓	✓	✓	✓	✓
RE259	✗	✗	✗	✓	✓



2500kg

Left-Hand

**B RE259**

**Coil Spring Yokes - Left-Hand**

Suitable for MacPherson strut left-handed coil springs. Compatible with models RE229, RE239 and RE249.

Capacity:				2500kg
Yoke Specification:	Left Hand:	Right Hand:	Size/Suitability:	
	✓	✗	Ø105-140mm	
	✓	✗	Ø145-190mm	



2500kg

Right-Hand

**D RE229**

**2500kg Professional Coil Spring Compressor Set - Right-Hand**

Suitable for MacPherson strut coil springs. Features a yoke extension bracket that also allows use on conical springs. Supplied with three pairs of different sized interchangeable yokes, for a wide range of vehicle applications. Plastic yoke protectors that protect the spring coating from damage, which can invalidate the vehicle manufacturer's guarantee. Safety yokes carefully shaped to stop the spring bowing while under compression.

Capacity:				2500kg
Yoke Specification:	Left Hand:	Right Hand:	Size/Suitability:	
	✗	✓	Ø80-105mm	
	✗	✓	Ø105-140mm	
	✗	✓	Ø145-190mm	
Maximum Jaw Opening:				265mm
Drive:				21mm Hex



2500kg

Left-Hand

**A RE239**

**Professional Coil Spring Compressor Kit - Left-Hand**

Suitable for MacPherson strut coil springs. Supplied with two pairs of different sized interchangeable yokes, for left-handed coil springs. Plastic yoke protectors that protect the spring coating from damage, which can invalidate the vehicle manufacturer's guarantee. Safety yokes carefully shaped to stop the spring bowing while under compression.

Capacity:				2500kg
Yoke Specification:	Left Hand:	Right Hand:	Size/Suitability:	
	✓	✗	Ø105-140mm	
	✓	✗	Ø145-190mm	
Maximum Jaw Opening:				265mm
Drive:				21mm Hex



**C RE249**

2500kg

Right-Hand

Left-Hand

**Professional Coil Spring Compressor Set Right-Hand/Left-Hand**

Suitable for MacPherson strut coil springs. Supplied with five pairs of different sized interchangeable yokes, for right and left-handed coil springs. Plastic yoke protectors that protect the spring coating from damage, which can invalidate the vehicle manufacturer's guarantee. Safety yokes carefully shaped to stop the spring bowing while under compression.

Capacity:				2500kg
Yoke Specification:	Left Hand:	Right Hand:	Size/Suitability:	
	✗	✓	Ø80-105mm	
	✓	✓	Ø105-140mm	
	✓	✓	Ø145-190mm	
Maximum Jaw Opening:				265mm
Drive:				21mm Hex



**Storage Case**

All Coil Spring Compressor Kits on this page are supplied in a storage case.



### A RE2311 2000kg Hydraulic Coil Spring Compressing Station with Gauge

Foot operated hydraulic unit, with gauge showing force applied to the spring under compression. Supplied with three pairs of different sized interchangeable yokes, for a wide range of vehicle applications. Fitted with plastic yoke protectors that protect the spring coating from damage, which can invalidate the vehicle manufacturer's guarantee.

Maximum Load:	2000kg
Upper Yoke Positions:	7
Lower Yoke Travel:	320mm
Yoke Specification:	Size/Suitability:
Small ID-OD:	Ø87-129mm
Medium ID-OD:	Ø106-165mm
Large ID-OD:	Ø142-202mm
Actuation:	Foot Pedal



Coil Spring Compressing Station not included.

**C RE23RS**  
**Coil Spring Compressor Restraint System**  
Safety restraint system designed for use with Model No's RE231 and RE2311 Coil Spring Compressors. Quickly installed and simple to operate.

### B RE231 1500kg Hydraulic Coil Spring Compressing Station

Foot operated hydraulic unit. Quicker and easier than using ratchet driven spring compressor. Plastic coated yokes reduce the risk of spring slippage or damage and are suitable for springs from Ø80mm to Ø175mm.

Maximum Load:	1500kg
Upper Yoke Positions:	7
Lower Yoke Travel:	340mm
Spring Diameter:	Ø80-175mm
Actuation:	Foot Pedal



Model No. RE2311 with Coil Spring



### D Upgrade your RE230 Coil Spring Compressor



### D RE230UK Upgrade Kit RE230 to RE231

Kit converts Model No. RE230 Strut & Spring Compressing Station into Model No. RE231 Coil Spring Compressing Station with two pairs of spring yokes and upper and lower yoke carriers. Includes safety chain.

Maximum Load:	1500kg
Spring Diameter:	Ø80-175mm
Contents:	Yoke Carriers; Upper, Lower, Yokes; Ø102-130mm, Ø110-160mm, Safety Chain



### WARNING

Always ensure coil springs are correctly seated in the yokes before beginning compression.

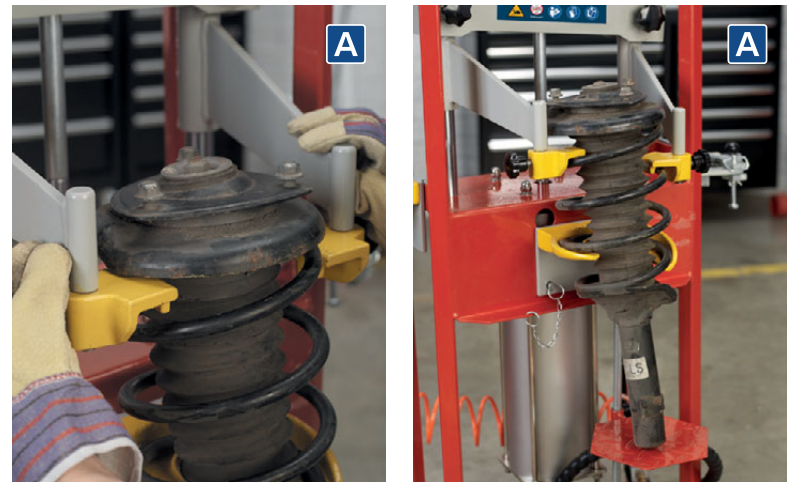




**A RE300**  
**1000kg Air Operated Coil Spring Compressor**

Fast and safe compression of road springs. 1000kg Air operated unit with safety locking guard. Supplied with two interchangeable plastic coated lower yokes and a suspension strut clamp. Fits a wide range of spring configurations and diameters. Also features a strut locating platform for easy movement of the suspension strut to avoid unnecessary lifting.

Maximum Load:	1000kg
Upper Yoke Travel:	420mm
Spring Diameter:	Ø102-165mm
Maximum Air Pressure:	116psi(8bar)
Actuation:	Foot Pedal



**B RE2280**  
**1250kg Telescopic Spring Compressor - Wishbone Suspension**

Designed for use on wishbone suspension using access points in the rear suspension arm. Features two pairs of carefully shaped yokes that prevent the coil spring from bowing. Saves time over traditional methods of demounting springs.

Capacity:	1250kg
Size/Suitability:	Ø80-135mm
Jaw Opening:	115-300mm
Drive:	19mm Hex
Applications:	Fiat, Hyundai, Mazda, Mercedes, Mitsubishi, Nissan, Peugeot, Rover, Saab, Toyota, Volvo, VW



**C RE2281**  
**1000kg Coil Spring Compressor - Wishbone Suspension**

Compact design for use on wishbone suspension using access points in the rear suspension arm. Includes two pairs of carefully shaped yokes that prevent the coil spring from bowing and a drive extension for use in restricted areas. Saves time over traditional methods of demounting springs. Supplied in storage case.

Capacity:	1000kg
Size/Suitability:	Ø60-170mm
Jaw Opening:	30-245mm
Drives:	20, 23mm Hex
Contents:	Yokes (x4), Force Screw, 23-19mm Drive Extension, 19mm Combination Ratchet Spanner, 8mm T-Handle Hex Key

A

1/2"  
Sq Drive**A SX034****2pc 1/2" Sq Drive Strut Leg Pry Socket Set**

Reduces risk of damage to hub casting associated with using hammers and chisels to free the strut leg. Suitable for removal and installation of legs on most Audi, Ford, Peugeot, Renault, Seat, Skoda, VW.

**Length x Width:** 7 x 5, 8.2 x 5.5mm

B

**B SX028****Strut Nut Socket - Audi, VW**

Suitable for the removal and installation of top shock retaining nut. Location pegs fit into slots cut in the retaining ring and allow hex key access through the centre for release/adjustment of the shock. Use with 22mm spanner.

**Internal Diameter x Tooth Width:** Ø14.5 x 5mm



C

1/2"  
Sq Drive**C SX0332****Front Strut Top Nut Holding & Removal Tool - Volvo**

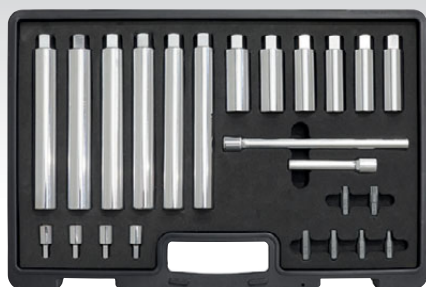
Designed to hold the central strut whilst the securing nut is removed. **WARNING:** Ensure the road spring has been compressed using a suitable spring compressor before removing top nut.

**Drive:** 1/2" Sq

**Applications:** Volvo C70 Coupe (-02), C70 Convertible (-05), S70, V70 (-00), XC90, V70 (00-08), V70 XC (01-), XC70 (-07), S60, 850, V70 XC (-00), S80 (-06)

**OEM Tools:** 9995469, 9995468

D

**D VS0332****24pc Suspension Strut Socket Set**

Sockets manufactured from Chrome Vanadium steel. Permits the removal of the top suspension nut by holding the strut piston, so it doesn't rotate while turning the nut. The go-through design of the socket and ratchet allows the extension to pass through the middle. To be used in conjunction with a 1/2" Sq drive ratchet or T-bar (not included).

**Drive:** 1/2" Sq

**Contents:**

**Go-Through Sockets Standard & Deep:** 16, 17, 18, 19, 21, 22mm, 8mm Hex Bits; Hex - 5, 6, 7, 8mm, Spline - M10, TRX-Star\* - T50, Shock Absorber Strut Sockets (x4)

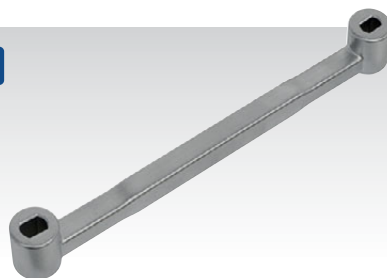
**3/8" Sq Drive Extension Bars:** 90, 190mm

1/2"  
Sq Drive

E

**E SX076****5 & 6mm 2-Point Strut Wrench VAG, Ford, GM, Honda, Toyota**

Designed to prevent the damper piston rod from turning while removing and replacing the rear suspension strut. Suitable for VAG, Ford, GM, Honda, Toyota. 2-Point, 5 and 6mm, 182mm length.



H

1/2"  
Sq Drive**H VS0331****18pc Shock Absorber Strut Nut Kit**

Permits the removal of the top suspension nut by holding the strut piston, so it doesn't rotate while turning the nut. The go-through design of the socket and ratchet allows the extension to pass through the middle. To be used in conjunction with a 1/2" Sq drive ratchet or T-bar (not included).

**Contents:**

**Go-Through Ratchet:** 21mm

**Go-Through 82mm Deep Sockets:** 16, 17, 18, 19, 21, 22, 24mm

**Extensions:** Female Hex; 7, 8, 9mm, Male Hex; 6, 7, 8mm, Slotted; 5 x 8, 6 x 8, 7.1 x 9.6mm, TRX-Star\*; T50

F

**F SX0331****8pc Strut Nut Set**

Comprehensive set for the removal and installation of nuts on McPherson struts. Covers a large range of vehicle applications.

**Drive:** Castellated Sockets; 15, 21, 22mm, Ovals; 1/2" Sq

**Sizes:** Castellated Sockets (ID x Tooth Width): Ø10.5 x 3.5, 12.5 x 3, 12.5 x 3.5, 14 x 2.5, 14 x 5, 14.5 x 5mm, Ovals (Length x Width); 7 x 5, 8.2 x 5.5mm

1/2"  
Sq Drive**I NEW**

Magnetic

TESLA

3/8"  
Sq Drive**I SX0333****3/8" Sq Drive Strut Nut Socket - Tesla**

For removal and installation of the front strut mounting nut. Front strut assembly can be removed without removing the upper control arm. 3/8" Sq drive thin-walled design, ideal for use in the limited space of the Tesla 3 strut mount. Magnetic insert, to retain strut nut.

**Size:** 13mm

G

Developed by  
**SEALEY****G VS3847****Suspension Strut Support**

Designed to support suspension struts during repair operations. To be used in conjunction with Model No. 600TR (see page 311) or other transmission jacks with a minimum base size of 560mm x 570mm. Only use with a ram size of Ø30mm. Developed by Sealey.



**A**



**A AK381**

**Ball Joint Splitter**

Chemically blackened forged steel body with thrust bolt. Suitable for most small cars and light vans.

**Jaw Width:** 19mm

**B**



**B AK3811**

**Ball Joint Splitter**

Forged steel body with chemically blackened thrust and adjustment screws for corrosion resistance. Fully adjustable.

**Jaw Width:** 20mm

**C**



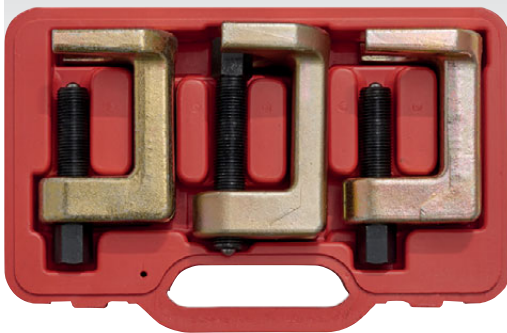
**C AK380**

**Ball Joint Splitter**

Ductile cast body with steel thrust bolt. Suitable for most small cars and light vans.

**Jaw Width:** 16.5mm

**D**



**D VS3800**

**3pc Ball Joint Splitter Set**

Low profile set suitable for most modern vehicles. Three sizes of jaw allow use on most cars and light commercial vehicles. Features heavy-duty forged steel body and hardened screw with thrust ball. Supplied in storage case.

**Jaw Width:** Small 23mm, Medium 28mm, Large 34mm

**Low Profile**

**E**



**E PS969**

**Steering Drop Arm Puller Land Rover 2, 2A, 3**

Designed to detach the steering drop arm from the steering box found on Land Rovers.

**Size/Spread:** 60.5mm  
**Reach:** 19mm

**F**



**F PS970**

**Steering Drop Arm Puller Land Rover Defender 90, 110, 130**

Designed to detach the steering drop arm from steering box found on Land Rovers.

**Size/Spread:** 75mm  
**Reach:** 23mm

**G**



**G SX050**

**5pc 1/2" Sq Drive Impact Hub Nut Socket Set**

Heavy-duty, high quality, Chrome Molybdenum impact sockets suitable for use with any 1/2" Sq drive impact tool. Blackened finish for added corrosion resistance. Tool suitable for hub nut applications where high torque is required. Supplied in a storage case.

**Drive:** 1/2" Sq  
**Contents:** 29, 30, 32, 34, 36mm

**1/2" Sq Drive**

**H**



**H VS390**

**Hub Clamp Spreader Tool - Ball Joint/Strut**

Suitable for removal and installation of spring and shock strut from steering knuckle. Prevents expensive damage to aluminium or cast iron steering hubs. Excellent also for spreading the clamp on lower ball joints. Wide range of vehicle applications.

**Applications:** Audi, BMW, Citroen, Ford, Peugeot, Renault, Seat, Skoda, VW

**I**



**I SX046**

**1/2" Sq Drive 46mm 12-Point Impact Socket**

Suitable for suspension lower ball joints on Renault Master and Vauxhall Movano 2010 onwards. Also suitable for drive shaft hub nuts on Fiat Ducato, Citroen Jumper and Peugeot Boxer. Made from Chrome Molybdenum steel with black phosphate finish.

**Drive:** 1/2" Sq  
**Size:** 46mm

**1/2" Sq Drive**  
**MM**  
**12**



**J**



**J SSP16**

**Safety Baseball Bump Cap**

Baseball bump cap with solid internal cover for protection against knocks and grazes. Adjustable strap suits all sizes. Convenient short peak design, better suited for working in and around vehicles. Internal padding and ventilation for added comfort. Conforms to EN 812.

**A AK273****5pc Ball Joint Splitter Kit**

Three forks with interchangeable shafts for use with ball pein hammer or air hammer with .401" shanks (Model No's GSA11, GSA12, SA11, SA12/S, SA613, SA614). Suitable for most small cars and light commercials.

Contents:	Fork Size:
Tie Rod Spreader:	18mm
Ball Joint Separator:	24mm
Pitman Arm Wedge:	27mm

**D****D SX027****Lower Ball Joint Socket Peugeot 405, Citroen**

Heat treated alloy steel socket. 35mm Hex drive with Ø19mm internal clearance for OEM and non-OEM fittings. Ø50mm Ring with drive pegs which locate in slots cut in the ball joint flange. Suitable for Citroen and Peugeot 405 lower ball joints.

**G****G SX0271****2pc Lower Ball Joint Socket Set**

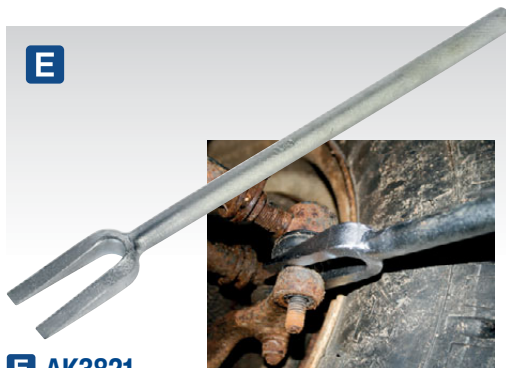
Set of two heat treated alloy steel sockets. Suitable for removal of OEM and aftermarket lower ball joints on Citroen and Peugeot vehicles. Supplied in storage case.

Applications:	Citroen; Xantia, C5, C6, Peugeot; 405, 406, 407, 605, 607
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**B****B AK390****Impact Ball Joint Splitter**

2-Piece impact ball joint splitter, with detachable fork for use with Sealey air hammer guns. Long shaft provides reach and stability when striking with hammer. Suitable for most cars and light vans.

Jaw Width:	20mm
Length:	240mm

**E****E AK3821****400mm Long Reach Ball Joint Splitter**

Drop-forged and heat treated alloy steel. Suitable for applications with awkward or limited access.

Jaw Width:	19mm
Length:	400mm

**H****H SX044****44mm Suspension Ball Joint Socket 38mm 6-Point Drive - Citroen, Peugeot, Toyota**

Suitable for a range of Citroen, Peugeot and Toyota vehicles. Design allows the suspension joint centre to pass through. 38mm 6-point Drive.

**I****I SCS036S****500ml Freeze Shock & Release Spray Lubricant**

For more information, see page 1117.

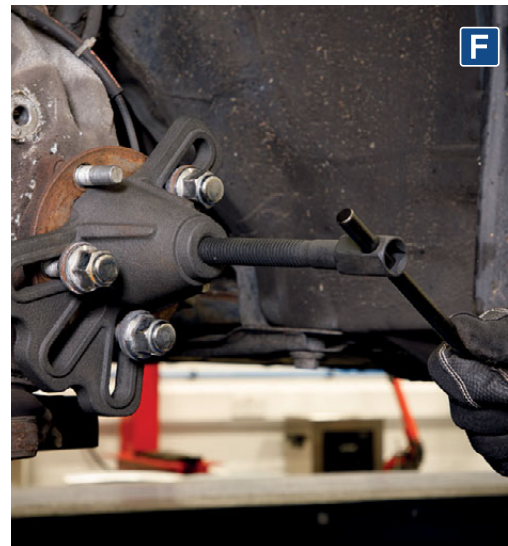
**C****C AK382****Ball Joint Splitter**

Forged steel body with phosphate finish. Suitable for most small cars and light vans.

Jaw Width:	14mm
Length:	200mm

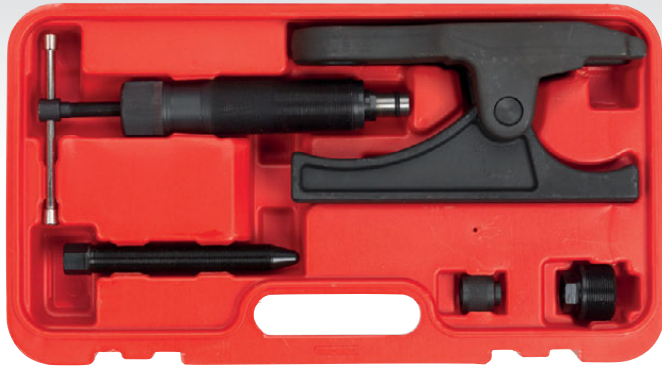
**F****F AK713****1/2" Sq Drive Universal Hub Puller**

Cast iron ductile body with steel force screw and tommy bar. Suitable for four and five stud hubs. Use with a 1/2" Sq drive ratchet wrench or with tommy bar supplied.



**A**

10 Tonne



**Hydraulic** **HEAVY DUTY**

**A VS3813**

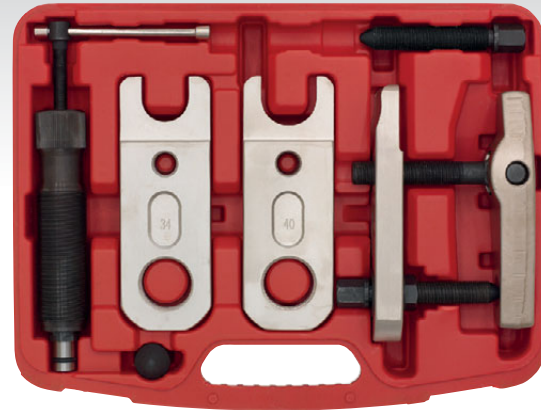
**Hydraulic/Manual Ball Joint Splitter - Commercial**

Heavy-duty ball joint splitter suitable for commercial vehicles. Specially designed to be operated manually or by 10 Tonne hydraulic ram (supplied). Features a step down thread adaptor that allows fitting of the manual thrust screw or hydraulic ram. Hydraulic ram interchangeable with Model No. PS990 (see page 608).

Jaw Capacity:	35mm
Jaw Opening Capacity:	100mm

**B**

12 Tonne



**Hydraulic** **HEAVY DUTY**

**B VS3814**

**9pc Hydraulic/Manual Ball Joint Splitter - Commercial**

Heavy-duty ball joint splitter with interchangeable jaws. Enables operator to select correct jaw size without taking entire splitter to the vehicle. Use manually or with 12 Tonne hydraulic ram (supplied).

Jaw Capacities:	Small; 30mm, Medium; 34mm, Large; 40mm
Jaw Opening Capacity:	100mm
Thrust Screw Lengths:	82, 100mm
Pivot Rod Length:	95mm

**C**

1.5 Tonne

**Hydraulic**



**C VS3811**

**Hydraulic/Manual Ball Joint Splitter Light Commercial**

Forged steel body, ball joint splitter suitable for light commercial vehicles. Specially designed to be operated manually or by 1.5 Tonne hydraulic ram supplied. Features a step down thread adaptor that allows fitting of the manual thrust screw.

Jaw Width:	19mm
Jaw Opening Capacity:	47mm

**D**



**E**

**D-E SEE BELOW**  
**Ball Joint Splitters**

Chemically blackened forged steel bodies with thrust bolt. High strength construction, suitable for commercial vehicle ball joints.

Model No:	Jaw Width:	Jaw Capacity:
<b>D VS3804</b>	33mm	60mm
<b>E VS3805</b>	42mm	62mm

**G**



**G VS3812**

**Ball Joint Splitter - Commercial**

Chemically blackened forged steel body with thrust bolt. Suitable for commercial applications.

Jaw Width:	30mm
Jaw Opening Capacity:	65mm

**H**



**H SCS022S**

**500ml Graphited Penetrating Oil Lubricant**

Low viscosity high penetrating liquid. Frees seized nuts, bolts, locks and rusted parts. Lubricates and protects. Leaves a protective barrier. General application for all types of machinery. Higher grade general-purpose lubricant, accurate and economical application.

**F**



**F VS1274**

**14pc Lower Ball Joint Remover/Installer Mercedes, Renault**

Suitable for the in situ removal and installation of front lower ball joints on Mercedes W220, W211, W230 and Renault Megane. No need to disassemble. Also includes a selection of multipurpose sleeves, which have various automotive applications. Use with ratchet wrench.

Applications:	Mercedes; W220 S-Class (98-06), W211 E-Class (02-09), W230 SL (02on), Renault; Megane (02-08 with 18mm ball pin)
External Sleeve Sizes:	Ø50.5, 63.5, 76mm

**A-B SEE RIGHT**

**Front Wheel Bearing GEN2 Removal/Installation Kits**

Two kits designed for the second generation of wheel bearing found on modern vehicles. These bearings are lightweight with an integral mounting flange. They are also pre-loaded with a retaining ring that secures the bearing into the housing. Each kit is individually designed to suit the relevant vehicle manufacturer. These kits can be used in situ when replacing the front wheel bearing. Knowledge of the outer bearing diameter is required before selecting the appropriate kit, as some vehicles are fitted with more than one size of bearing.



- GEN1**  
Double row contact bearing.
- GEN2**  
Hub unit with bearing (Single Flange).
- GEN3**  
Hub unit with bearing (Double Flange).



**A VS7029**  
**72mm Front Wheel Bearing GEN2 Removal/Installation Kit**

**Bearing Size:** 72mm  
**Applications:** Audi; A1 (10on), A2 (00-05), Seat; Cordoba (03-09), Ibiza (02-12), Skoda; Fabia (00-12), Roomster (06-12), VW; Fox (05-10), Polo (02-12)



**B VS7030**  
**78mm Front Wheel Bearing GEN2 Removal/Installation Kit**

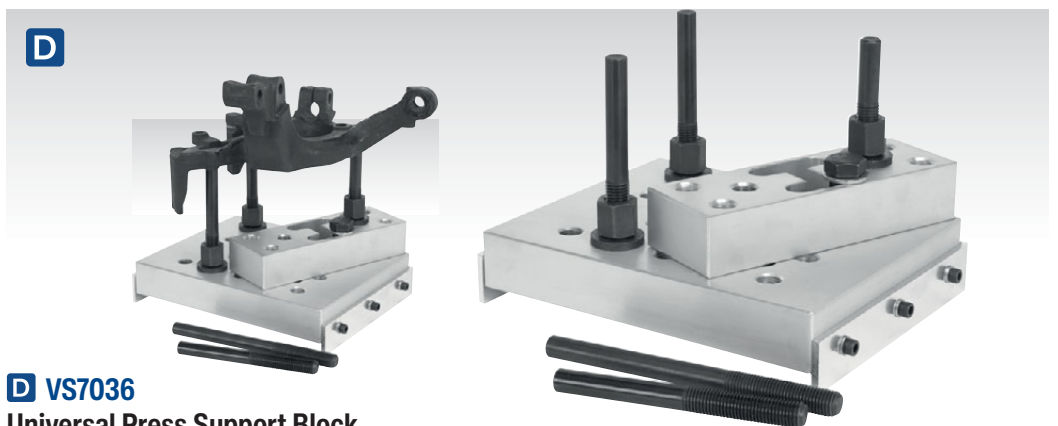
**Bearing Size:** 78mm  
**Applications:** Ford; C-Max (07-11), Focus II (04-11), Focus C-Max (03-07), Mazda; 3 (03-05), Volvo; C30 (06-10), C70 (05-10), S40 (04-12), V50 (04-10)



**C VS7025**  
**Wheel Bearing Inner Race Puller**

Designed for the removal of the wheel bearing inner race from the vehicle hub. Usually the inner race is cut from the hub - using this tool saves time and reduces the likelihood of damage. The puller's unique leg design allows it to fit between the inner race and hub. Features a locking mechanism to locate and hold the legs in the correct position. Suitable for most vehicle hubs.

**Capacity:** Ø40-110mm



**D VS7036**  
**Universal Press Support Block**

Designed to be used with a standard workshop press. Multiple threaded holes in aluminium base plate enable the support bars to be installed in virtually any position, allowing the bearing or bush to be positioned horizontally. Includes a packing block for added versatility. Ideal for the removal of wheel bearings and bushes.

**Aluminium Base Plate Size:** (L x W x H); 250 x 200 x 40mm  
**Aluminium Packing Block Size:** (L x W x H); 200 x 70 x 40mm  
**Support Bar Lengths:** 110mm, 150mm (x3), 190mm



**E SX051**  
**3pc 1/2" Sq Drive 12-point Impact Hub Nut Socket Set**

Heavy-duty, high quality, 12-point, Chrome Molybdenum impact sockets suitable for use with any 1/2" Sq drive impact tool. Blackened finish for added corrosion resistance. Tool suitable for hub nut applications where high torque is required.

**Drive:** 1/2" Sq  
**Sizes:** 30, 32, 36mm



**F VS7037**  
**Adjustable Press Support Plate**

Designed to be used with a standard workshop press. Adjustable diameter and six interchangeable support legs provide quick alignment of hub or suspension frame for secure and level pressing. Ideal when removing and installing wheel bearings and bushes.

**Operating Diameter:** Ø78-100mm



**G VS7033**  
**3pc Axle Bearing Puller Set**

3-Piece axle bearing remover set designed for easy removal of rear axle bearings. Use with Sealey slide hammer PS983 or PS992 (sold separately - see page 609). Supplied in storage case.

**Puller Head Sizes:** 20, 24, 30mm

**A**



**A VS7021**

**Wheel Bearing Removal/Installation Kit**

Suitable for the installation and removal of front hub bearings without the need to dismantle the steering knuckle and strut assembly. Fast and simple-to-use. Suitable for most front wheel drive cars. Heavy-duty steel drifts with black phosphate finish for corrosion resistance. May be used with impact wrench.

<b>Drift Sizes:</b>	Ø55.5, 59, 62, 65, 66, 71.5, 73, 78, 84, 86, 91mm
<b>External Sleeve Diameter:</b>	Ø76mm
<b>Hub Screw Sizes:</b>	M12 x 1.5, M14 x 1.5mm

**B**



**B VS7020**

**Wheel Bearing Removal/Installation Kit**

Comprehensive kit of tools for the fast and effective removal and installation of wheel bearings on front-wheel drive vehicles. Reduces chances of damage to hub and bearing. Heavy-duty steel drifts with phosphate coating to prevent corrosion. Heavyweight drive screw for use with impact tools. Also suitable for removing and installing large industrial bearings. Supplied in storage case.

<b>Drift Sizes:</b>	Ø50, 55, 60, 64, 67, 70, 72 (x2), 73, 75, 78, 82, 84, 88mm
<b>External Sleeve Diameters:</b>	Ø76, 86, 92, 101mm
<b>Hub Screw Sizes:</b>	210 x 32, 210 x 38mm

**C**



**C VS7026**

**27pc Bearing & Bush Removal/Installation Kit**

Comprehensive kit for fast and effective in situ removal/installation of wheel bearings, suspension bushes and seals. Reduces the possibility of damaging the bearing/suspension housings. Supplied with 22 adaptors from Ø44 to 90mm and five force screws in storage case. Adaptors can also be used in a standard workshop press when in situ access isn't possible.

<b>Adaptor Wall Thickness:</b>	5mm
<b>Adaptor Height:</b>	60mm
<b>External Adaptor Diameters:</b>	Ø44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82, 85, 90mm
<b>Force Screw Threads:</b>	10 x 1.5, 12 x 1.5, 14 x 1.5, 16 x 1.5, 18 x 1.5mm
<b>Force Screw Length:</b>	350mm

**D**



**D VS7024**

**37pc Bearing & Seal Installation Kit**

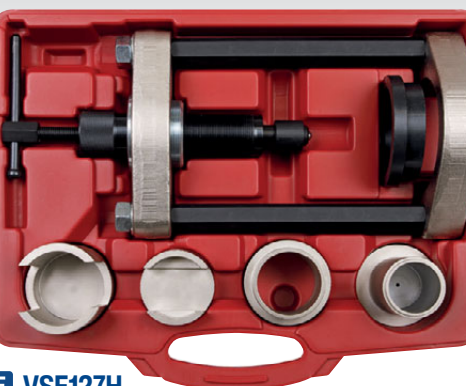
Lightweight design for the installation of bearings without damaging the bearing or housing. Contains three metal bearing drift sleeves and 34 nylon drifts. Can also be used to install oil seals. Fits most sizes of bearing and seals found on modern vehicles. Supplied in storage case.

<b>Drift Sleeve Diameters:</b>	Ø25, 40, 60mm
<b>Drift Sleeve Length:</b>	220mm
<b>Nylon Drift Diameters:</b>	Ø26, 28, 30, 32 (x2), 35 (x3), 37, 40, 42 (x2), 47 (x3), 52 (x2), 55, 60, 62 (x3), 68, 72 (x2), 75, 80 (x2), 82, 85, 90 (x2), 100, 110mm

**E**

**10 Tonne**

**Hydraulic**



**E VSE127H**

**Hydraulic Ball Joint Installation/Removal Kit - BMW**

Remove and install press-fit control arm ball joints on BMW 3 Series E36 vehicles. Use in situ, there is no requirement to remove the control arm from the vehicle. Includes all necessary adaptors. Simple, easy hydraulic ram action.

**F**



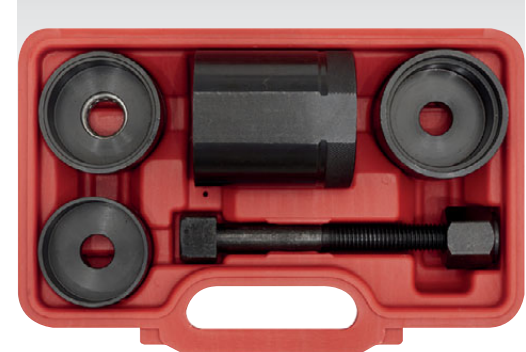
**F VSE127H02**

**Bush Removal Adaptor Set Renault Laguna**

For use in conjunction with Sealey Hydraulic Ball Joint Installer/Removal Kit, Model No. VSE127H (see E). Set contains various adaptors for front ball joint removal/installation on Renault Laguna (93-00).

<b>Applications:</b>	Renault; Laguna (93-00)
<b>Front Ball Joint</b>	

**G**



**G VSE5509**

**Rear Ball Joint Tool - BMW**

Designed to remove and install press-fit rear suspension ball joints in situ, on BMW 5 and 7 Series. These joints are sometimes referred to as 'bushes' but are true ball joints.

<b>Applications:</b>	BMW; 5 Series E39, 7 Series E38
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**A** 12 Tonne **Hydraulic****A** CV040**Hydraulic Bush Tool - Commercial**

Designed for the installation and removal of slotted bushes on commercial spring suspension. Includes a 12 Tonne hydraulic cylinder (supplied without hydraulic pump). Use in conjunction with Hydraulic Pump Model No's RE83/840/CWH (Air/Hydraulic) or RE97.10-01 (Hydraulic). Installation protects the bush using the parallel working tension elements. Suitable for use on the vehicle. Safe and easy-to-use.

**Applications:** Volvo (FM12), Renault (430/450/460), MAN-TGA (410/414/460), DAF

**D****D** VSE4785**Front Pivot Arm Bush Tool Citroen C5/C6, Peugeot 407/508**

Suitable for the removal/installation of the front lower suspension pivot arm bush. Can be used in situ without removing the aluminium hub carrier from the vehicle.

**Applications:** Citroen; C5 (04-15), C6 (05-15), Peugeot; 407 (04-15), 508 (10-15)

**G****G** VSE5587**Rear Trailing Arm Bush Tool - Fiat Panda**

Suitable for removal/installation of rear trailing arm bushes on a Fiat Panda. Tool will allow changing the bushes in situ, saving time and money.

**Application:** Fiat Panda (03-12)

**B** 10 Tonne**B** RE97.10-01**10 Tonne Pump & Hose Assembly**

Pump and hose assembly for use with Sealey Body Repair Kits and Model No. TC966 Hydraulic Bead Breaker.

**Capacity:** 10 Tonne  
**Outlet Thread:** 1/4" BSP

**C** 10 Tonne **AIR Hydraulic****C** SEE BELOW**10 Tonne Air Hydraulic Pump**

Suitable for use with SuperSnap® hydraulic ram as supplied with Model No. DZRE21 Body Straightener and all body repair kits. Supplied with or without air hose.

**Model No:** RE83/840  
**Specification:** Air Pump Only  
**RE83/840/CWH** Air Pump with Hose  
**Maximum Air Input:** 90-120psi  
**Oil Capacity:** 450cc  
**Oil Pressure:** 10000psi

**F****F** VS2386**Front Wheel Bearing Puller - Ford Transit**

Engineered for safe, in situ removal of drive flange with wheel bearing/hub assembly and wheel bearing from drive flange. Essential tool when replacing brake discs allowing the drive flange to be split from the hub assembly. Features a cleverly designed impact force screw.

**Application:** Front Wheel Drive Ford Transit (06on)  
**Contents:** Impact Force Screw, Flange Adaptor, Large Adaptor (Ø76.5mm), Small Adaptor (Ø43.5mm), Hex Screws/Hex Nuts (M10) (x5), Spanner

**E**

10 Tonne

**Hydraulic****E** VS1270**Front Wheel Bearing Removal Tool Ford Transit**

Suitable for the fast removal of Ford Transit (00on) front wheel bearings. 10 Tonne Hydraulic ram with forged steel yoke, arms and separator. Supplied in storage case.

**Contents:** 10 Tonne Hydraulic Ram, 150mm Leg (x2), Twin Head, Ram Nut, 50mm Extension Rod, Centre Adaptor, 55-100mm Separator

**H****H** SCS036S**500ml Freeze Shock & Release Spray Lubricant**

Aids release of corroded and seized parts. Fast shock freeze action penetrates the corroded area. Displaces moisture. Penetrates, lubricates and helps prevent future corrosion.



**A VSE4779**  
**Rear Axle Bush Tool - Ford Fiesta IV, Ka**  
 Remove/install Fiesta IV rear axle mounting bushes. Can be used in situ - no need to remove trailing link assembly from vehicle. Supplied in storage case.

**Applications:** Ford; Fiesta IV (96on), Ka



**B VSE4778**  
**Bush Removal Tool - Ford Mondeo**  
 Remove/install rear subframe bushes in Ford Mondeo. Can be used in situ - no need to remove sub-frame from vehicle. Supplied in storage case.

**Application:** Ford; Mondeo Mk III (01-06)



**C VSE4788**  
**Trailing Arm Bush Tool - Ford**  
 Suitable for the removal/installation of the rear trailing arm mounting bushes on Ford Fiesta Mk VI. Can be used in situ without removing the arm from the vehicle. Also suitable for Mazda 2. Supplied in storage case.

**Applications:** Ford; Fiesta Mk VI (08on), Mazda; 2 Mk III (07-15)



**D VSE4781**  
**Front Suspension Bush Tool - VAG**  
 Suitable for the removal/installation of the rear mounting bush on the front lower wishbone. Can be used in situ without removing the aluminium housing. Use with 24mm spanner only. Supplied in storage case.

**Applications:** Seat; Cordoba III (03on), Skoda; Fabia (00on), VW; Polo IV (02on)



**E VSE4789**  
**Front Upper Control Arm Bush Tool - VAG**  
 Suitable for the removal/installation of the front upper control arm bushes on VAG vehicles. Can be used in situ without having to remove the control arm from the vehicle, which includes the top pinch bolt which is often seized and prone to snapping. Time-saving tool. Supplied in storage case.

**Applications:** Audi A4: B5 (95-01), Audi A4 B6 (01-06), Audi A4 B7 (04-09), Audi A4 B8 (08-16), Audi A4 B9 (2016-on), Audi A5 (07-17), Audi A6 (99-18), Audi A8 (98-02), Audi AllRoad (03-05), Audi Q5 (12-17), VW Passat (98-05), Skoda Superb (01-08), Seat Exeo B7 (08-13)



**F VSE725**  
**Front Axle Upper Ball Joint Extractor/Installer - VW T4**  
 Suitable for removing and installing the upper front ball joint in situ without the need to disassemble. Features various adaptors used in different combinations for extracting and installing. Supplied in a storage case with each part numbered for simple selection.

**Applications:** VW; T4 2000 CC, T4 2500 CC

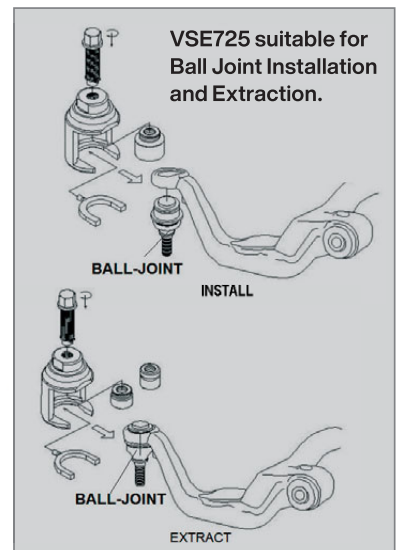




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#### A VSE4784

##### Trailing Arm Bush Tool - Ford, Volvo

Suitable for the removal/installation of the rear trailing arm mounting bushes on Ford vehicles. Can be used in situ without removing the arm from the vehicle. Also suitable for some Volvo vehicles that share the same Ford platform. Supplied in storage case.

**Applications:** Ford; Mondeo Mk IV (07on), S-Max (06on), Galaxy (06on), Volvo; S60, S80, XC60, V70, XC70 (06-09) with Ford Platform

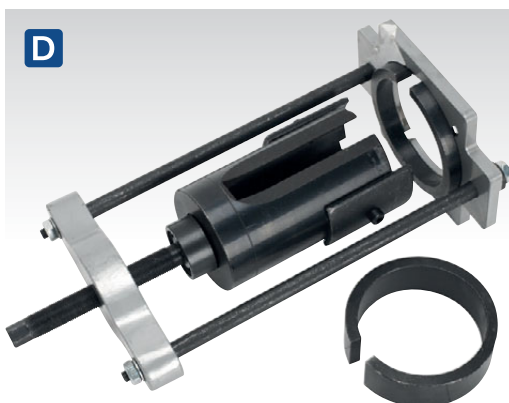


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#### D VSE4786

##### Trailing Arm Bush Tool - Ford, Volvo

Suitable for the removal/installation of the rear trailing arm mounting bushes on Ford and Volvo vehicles. Can be used in situ without removing the arm from the vehicle. Supplied in storage case.

**Applications:** Ford; Mondeo Mk IV (07on), S-Max (06on), Galaxy (06on), Volvo; S80 II (07on), S80 II Flexifuel (07on), V70 III (08on), V70 III Flexifuel (08on), V60 D6 Hybrid (14on), V60 (12on), S60 II (10on), XC70 III (08on)

B



#### B VSE4780

##### Rear Trailing Arm Bush Tool - Ford, Mazda, Volvo

Remove/install rear trailing arm bushes on Ford, Mazda and Volvo vehicles. Can be used in situ - no need to remove rear axle from vehicle.

**Applications:** Ford; Focus Mk I (98-04), Focus Mk II (04-12), C-Max (07-11), Kuga Mk I (08-13), Mazda; 3 (04-09), 5 (05-15), Volvo; V50 (04-13), S40 Mk II (04-13)

C



#### C VSE4787

##### Trailing Arm Bush Tool - Vauxhall/Opel

Suitable for the removal/installation of the rear trailing arm mounting bushes on Vauxhall/Opel vehicles. Can be used in situ without removing the arm from the vehicle. Features a slotted adaptor for visual reference while in operation.

**Applications:** Vauxhall/Opel; Astra H (04-15), Zafira B (05-15), Meriva B (10on)

E



#### E SEE BELOW

##### Steel Fabricated Vices

Steel fabricated bench mounting vices with smooth clamping action. Features anvil at rear enabling a variety of metalworking applications. Ideal for the DIY enthusiast and light garage use. Fixed base enable units to be directly mounted to workbench.

Model No:	Jaw Width:	Jaw Opening:	Weight:
S01081	100mm	100mm	3.4kg
S01082	125mm	125mm	4.4kg
S01083	150mm	150mm	5.15kg



#### Puller Sets

For our full range of Puller Sets, see pages 605 to 609.



**A**



Ø75mm  
10kg Capacity

**A AK100**  
**Ø75mm Professional Dent Puller**

Specialist device for pulling dents from panels and bodywork. Contoured aluminium handle and suction release trigger give the technician close control.

Cup Diameter:	Ø75mm
Maximum Pull Capacity:	10kg

**B**



25kg Capacity

**B AK9891**  
**Single Head Suction Gripper**

Ø120mm Rubber suction grip prevents damage to surface. Designed for handling glass, tiles, plastic, sheet metal and other non-porous material. Suction vacuum controlled by locking handle.

Cup Diameter:	Ø120mm
Maximum Lift Capacity:	25kg (Horizontal)

**C**



60kg Capacity

**C AK98945**  
**Heavy Lift Suction Cup with Vacuum Grip Indicator**

Heavy lift capacity. Red line indicator warns of any vacuum loss. Release valve lever for quick removal. Easy attachment on smooth, non-porous flat surfaces. Complete corrosion resistant finish. Supplied in storage case.

Cup Diameter:	Ø206mm
Maximum Lift Capacity:	60kg (Horizontal)

**D**



80kg Capacity

**D AK9894**  
**Heavy Lift Suction Cup with Vacuum Grip Indicator**

Heavy lift capacity. Red line indicator warns of any vacuum loss. Release valve lever for quick removal. Easy attachment on smooth, non-porous flat surfaces. Complete corrosion resistant finish. Supplied in storage case.

Cup Diameter:	Ø206mm
Maximum Lift Capacity:	80kg (Horizontal)

**E**



30kg Capacity

**E AK98943**  
**Vacuum Suction Cup - Pair**

Twin profiled rubber suction cups designed for strength and reliability. Ideal for windscreen installation and glass transportation. Also suitable for other non-porous flat surfaces such as sheet metal and tiles.

Cup Diameter:	Ø150mm
Maximum Lift Capacity:	30kg (Horizontal)

**F**



40kg Capacity

**F AK9892**  
**Twin Head Suction Gripper**

Two Ø120mm rubber suction grips prevent damage to surface. Designed for handling material such as glass, tiles, plastic, sheet metal and other non-porous material. Push-lock levers for easy operation.

Cup Diameter:	Ø120mm
Maximum Lift Capacity:	40kg (Horizontal)

**G**



60kg Capacity

**G WK1**  
**3pc Windscreen Handling Kit**

Two glass-reinforced plastic gripper handles with four Ø115mm lever operated suction pads. Powerful suction will handle 60kg of windscreen. Supplied with ratchet tie down to fix screen in position if required.

Cup Diameter:	Ø115mm
Maximum Lift Capacity:	60kg (Horizontal)

**H**



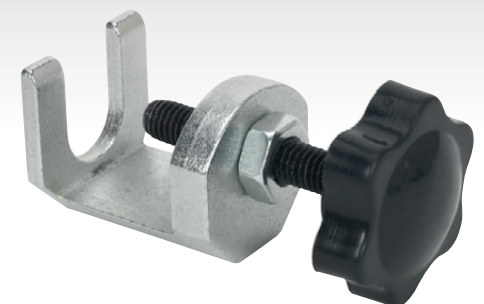
**HEAVY DUTY**

**H VS807**  
**Heavy-Duty Wiper Arm Puller**

Heavy-duty construction with locking feature allowing the tool to be fastened securely to the wiper arm before commencing pull. Combination of swivel mounted thrust bearing and tommy bar allow even the most stubborn wiper arms to be lifted off their drives. Also suitable for battery terminal and alternator bearing removal.

Maximum Collar Size:	43mm
Maximum Opening:	28mm

**I**



**I VS806**  
**Wiper Arm Removal Tool**

Cast housing with ball-end thrust bolt for the fast and safe removal of taper mounted windscreen wiper arms.

Maximum Collar Size:	15mm
Maximum Opening:	28mm



### A WK025 Air Knife

Quickly and easily cuts windscreen bonding. Has safety throttle to prevent inadvertent starting and integral regulator for speed control. Leader hose features outer sleeve, directing exhaust away from workpiece and user. Supplied with offset straight blade and hex key. A wide range of optional blades are available, greatly increasing the versatility of this knife in garage and workshop.

Frequency:	333Hz
Operating Pressure:	90psi
Air Consumption:	13.2cfm
Inlet Size:	1/4" BSP
Weight:	1.07kg
Replacement Blade:	WK025FSS57

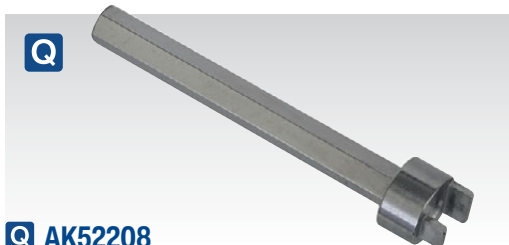


### N SEE BELOW

#### Windscreen Removal Tool Blades

Often referred to as cold knife blades, and suitable for use in Model No. AK420 Bonded Windscreen Removal Tool (see [O](#)). Hardened then honed blades allow fast separation of screen from bond and can be resharpened.

Model No:	Length:	Pack Quantity:
WK02001	18mm	3
WK02002	25mm	3
WK02003	38mm	3



### Q AK52208

#### Jet Washer Nozzle Tool - Mercedes

Specially designed two slot profile (6mm/4mm) 55mm shaft manufactured to adjust the jet washer nozzle on Mercedes vehicles. OEM Tool: 001589 02 16 00.

Applications:	Mercedes-Benz; W204, W207, W212, W218
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### B-M SEE BELOW

#### Air Knife Blades

Blades for Model No. WK025 Air Knife. Also fits other popular brands of air knife.

Model No:	Type:	Length:
B WK025FSS57	Offset Straight	57mm
C WK025FSS90	Offset Straight	90mm
D WK025BT35	Bent	35mm
E WK025FS16	Offset	16mm
F WK025FSC50	Offset Curved	50mm
G WK025FT35	Flat	35mm
H WK025FTS35	Flat Serrated	35mm
I WK025U18	Undercut	18mm
J WK025U24	Undercut	24mm
K WK025U36	Undercut	36mm
L WK025U63	Undercut	63mm
M WK025U90	Undercut	90mm



### O AK420

#### Bonded Windscreen Removal Tool

Aluminium handle with heavy-duty steel cable. Specially shaped blade is suitable for cutting through bonding resin used to fix modern windscreens. 2-Handed operation permits tool to be accurately guided whilst cutting through bonding. Replacement blades available, see [N](#).

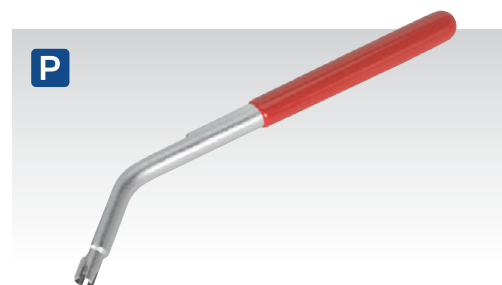


### R AK52206

#### Washer Jet Tool

Compact, double end tool with pocket-clip. Screwed caps house a pointed scribe for cleaning and clearing washer jets at one end and finer probe for adjusting position of jets at the other. Heavily knurled body for sure handling.

Length:	104mm
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### P AK52207

#### Washer Jet Tool - Vauxhall/Opel

Designed specifically for the unique washer jets fitted to Vauxhall/Opel vehicles. Tool features four slots that locate into the washer nozzle to allow adjustment.

Applications:	Vauxhall/Opel; Astra J, Insignia
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### S WK4

#### Folding Windscreen Stand

Lightweight tubular steel design with variable height facility. Large rubber suckers prevent screen from moving during preparation. Folding frame makes this ideal for both workshop and mobile screen preparation.

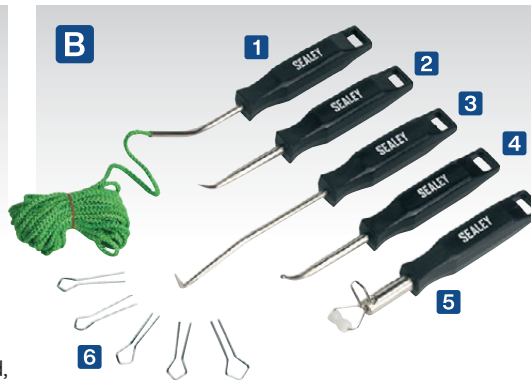
Width:	1m
Folded Height:	1.2m



**A WK0512**

**Wire Grip Handles - Pair**

Reinforced composite ABS handles with heat treated, chromed steel shafts. Suitable for use with windscreen cutting wire.



**B WK2**

**6pc Windscreen Installation Tool Kit**

Reinforced composite handles with heat treated, chromed steel shafts. Complete tool kit for the installation of rubber sealed screens including commercial vehicle screens. Handles include hanging eyes for storage.

Contents:	Illustration No:
Locking Tool	1
General Purpose Tools (x2)	2 3
Globe Tool	4
Locking Strip Insertion Tool	5
Assorted Tips	6



**C WK3**

**7pc Windscreen Removal Tool Kit**

Reinforced composite handles with heat treated, chromed steel shafts. Complete tool kit for the removal of bonded and rubber sealed screens. Numbers 1, 6 and 7 handles include hanging eyes for storage.

Contents:	Illustration No:
Cutting Wire	1
Wire Grip Handles (x2)	2 3
Bonded Screen Removal Tool	4
T-Handled Wire Starter Tool	5
Trim Clip Remover	6
Trim Pad Remover	7



**D TST19**

**Emergency Breakout Tool With Tyre Tread Depth Gauge**

For more information, see page 559.



**E WK14**

**14pc Windscreen Removal Tool Kit**

Durable lightweight design delivers on quality and finish. Complete tool kit for the removal of bonded and rubber seals. Designed for the professional.

Contents:	Illustration No:
Razor Scraper	1
Trim Clip Remover	2
T-Handled Wire Starter Tool	3
Urethane Knife - Medium	4
Urethane Knife - Long	5
Bonded Screen Removal Tool	6
Cowling Removal Key	7
Pinch Weld Scraper - 13mm	8
Pinch Weld Scraper - 16mm	9
Pinch Weld Scraper - 19mm	10
Trim Pad Remover	11
Wire Grip Handles (x2)	12 13
Cutting Wire	14

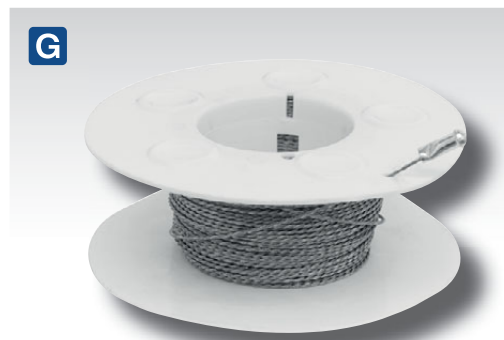


**F WK0515**

**50m Nylon Windscreen Cutting Wire**

Nylon wire offers a more gentle approach to sensitive work areas when cutting windscreen bond. Conventional metal cutting wire risks damage to other surfaces of the vehicle. Comparable in performance to metal cutting wire.

Type:	Nylon
Length:	50m

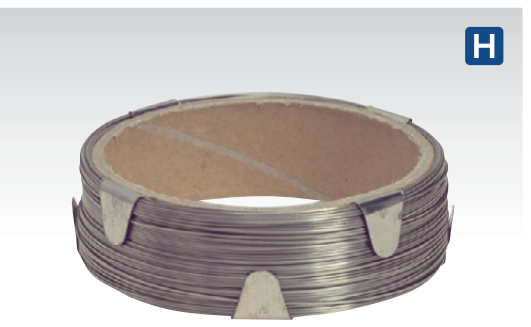


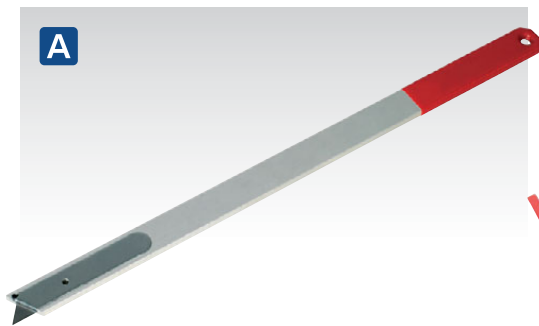
**G-H SEE BELOW**

**Windscreen Cutting Wires**

Braided and square stainless steel wire suitable for use with wire grips. Use a sawing action to cut through the urethane bond. The square profile has four cutting edges enabling a fast and easy cut, even in cold conditions.

Model No:	Type:	Length:
G WK0513	Braided	22.5m
H WK0514	Square	22.5m



**A WK0321****450mm Urethane Knife**

Suitable for vehicles with deep dashboards or where bonding is out of reach to normal tools. Also great for 2-handed cuts. Extra-long, aluminium construction with vinyl handle. Supplied with blade. Uses standard utility knife blades.

Length:	450mm
Replacement Blades:	AK86/B (Pack of 10)

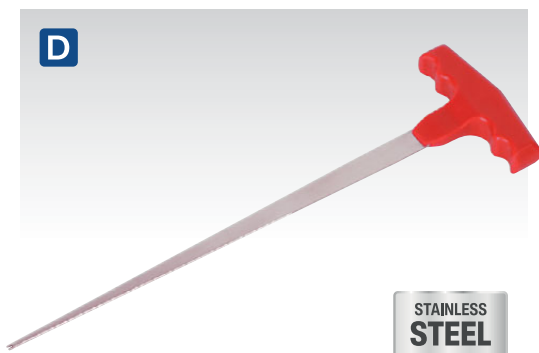
**B RT/KIT****5pc Trim & Upholstery Tool Set**

Tools designed to simplify trim and trim stud removal. Manufactured from resilient plastic to minimize panel damage and marking.

**C VS801****4pc Door Pin Extractor Tool Set**

Steel pins and anvil. Suitable for removing doors fitted with hollow type hinge pins. Set includes Ø3.2, Ø4.3 and Ø5.5mm pins and hammer anvil. Replacement pins available.

Pin Sizes:	Ø3.2, 4.3, 5.5mm
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**D WK0511****330mm T-Handled Wire Starter Tool  
Stainless Steel**

Stainless steel shaft with contoured T-handle for added grip and comfort. Designed for feeding/starting wire through bonding on windscreens.

Length:	330mm
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**E VS803****Heavy-Duty Door Hinge Pin Tool Set**

Steel pins and anvil. Suitable for removing doors fitted with hollow type hinge pins. Cranked anvil affords better access and therefore more power for pin removal. Set includes Ø3, Ø5 and Ø5.5mm pins and hammer anvil. Replacement pins available.

Replacement Pins:		
Model No:	Size:	Pack Qty:
VS803/01	Ø3 x 110mm	2
VS803/02	Ø5 x 110mm	2
VS803/03	Ø5 x 125mm	2
VS803/04	Ø5.5 x 110mm	2

**F VS805****Door Hinge & Handle Removal Kit**

Tools for the removal of door hinges and handles from Audi, Mercedes, Porsche and VW. Kit consists of two long reach TRX-Star\* drivers and an 8mm hex drive reversible ratchet wrench with two TRX-Star\* and three spline bits. Supplied in labelled storage pouch.

Contents:	360mm TRX-Star* Driver; T30, 240mm TRX-Star* T-Handle Driver; T20, 8mm Hex Reversible Ratchet Wrench, 8mm Bits; Spline - M4, M8, M10, TRX-Star* - T40, T45
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**G VS139****Door Handle Removal Tool - VAG**

Used to remove and install the exterior door handle. Suitable for a variety of VAG vehicles including VW Arteon, Atlas, Caddy, Passat, Tiguan, Touran, Audi Q2.

**H VS189****Door Lock Removal Tool - VAG**

Used to remove and install the lock cylinder. Makes removing the hard-to-reach locking hook a simple operation. Suitable for a variety of VAG vehicles including VW Golf, Fox, Tiguan, Passat, Audi Q7.

**I SEE BELOW**  
**500ml White Grease  
Lubricant with PTFE**

White grease suitable for locks, hinges and all moving applications. Penetrates and protects. Lubricates, leaving a protective barrier. Silicone-free formula suitable for bodyshop use.

Model No:	Pack Quantity:
SCS014	6
SCS014S	1



**A VS8041**  
**18pc Radio Release Tool Set**

Updated set of specialist tools for the safe, fast, authorised removal of fitted radios. Supplied in wallet.

**Applications:** Alfa, Alpine, Audi, Becker, BMW, Citroen, Clarion, Fiat, Ford, Grundig, JVC, Mercedes, New Blaupunkt, Peugeot, Pioneer, Porsche, Renault, Skoda, Vauxhall/Opel, VW



**B VS8048**  
**36-Function Radio Release Key Set**

36 Tools in one. Set of tools for safe, fast, authorised removal of fitted radios. Composite handle allows firm and comfortable grip.

**Applications:** Audi, Becker, BMW, Fiat; Bravo, Brava, Ford, JVC, Mercedes, Panasonic, Pioneer, PK-Clarion, Porsche, RK-Kenwood, Skoda, Sony, Vauxhall/Opel, VW



**C VS8047**  
**46pc Radio Release Tool Set**

Comprehensive set of tools for release and removal of in-car entertainment units on popular vehicles. Supplied in storage case with stamped application list for simple selection.

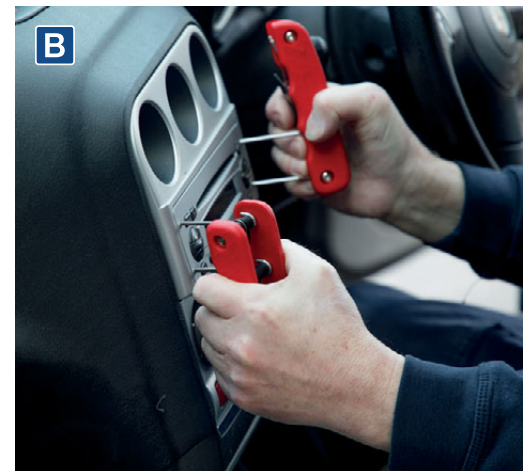
**Applications:** Audi, Becker, Blaupunkt, BMW, Clarion, Fiat; Brava, Ford, JVC, Kenwood 2 (98-01), Mercedes, Opel-Inbus, Panasonic, Pioneer, Porsche, RK-Kenwood 01, Skoda (02on), Sony, Vauxhall/Opel, VW



**D VS8046**  
**Dashboard Service Set - Mercedes**

Stainless steel tools for the easy removal of Mercedes radios, ignition locks and dashboard instruments. Also suitable for removal of Vauxhall/Opel headrest. Supplied in a composite storage case.

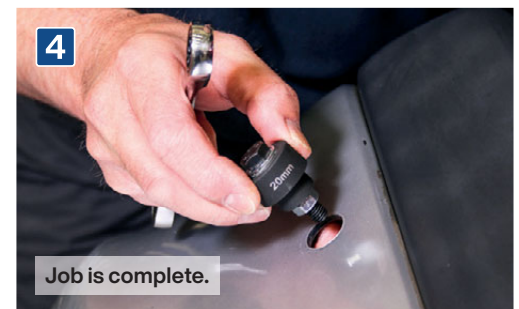
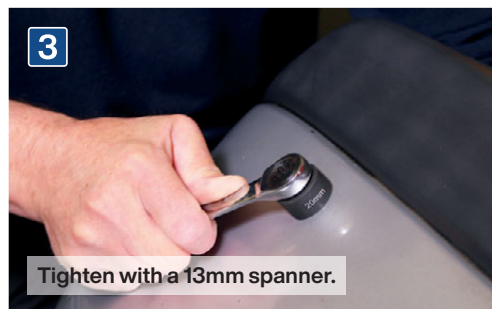
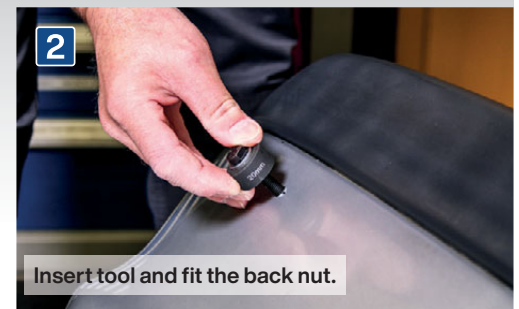
**Applications:**  
**Radio Removal:** Mercedes; (92on) W140, 129, 202, 210  
**Ignition Lock Removal:** Mercedes; W124, 126, 201  
**Instrument Removal:** Mercedes; W107, 116, 123, 126, 140, 201  
**Headrest Locking Slot Removal:** Vauxhall/Opel



**E SEE BELOW**  
**Parking Aid Bumper Cutters**

For cutting out correctly sized holes on plastic bumpers and trims ready for PDC (Park Distance Control) sensors.

Model No:	Hole Diameter:
VS317	Ø17mm
VS318	Ø18.2mm
VS319	Ø19mm
VS320	Ø20mm
VS321	Ø21mm





**A VS500**  
**Long Reach Razor Scraper**

Long handled razor scraper. Suitable for scraping gaskets and also for removing labels, stickers and overspray from car windows. Safe storage of spare blades in handle. Supplied with three razors and three plastic blades.

**Length:** 280mm

**Replacement Razor Blades (Pack of 5):** AK867/1



**B AK52504**  
**Razor Blade Scraper**

Replaceable razor type blade scraper with soft grip handle. Suitable for removing adhesives or paint from glass or metal surfaces.

**Blade Size:** 39mm



**C AK523**  
**3pc Rigid Blade Scraper Set**

1.8mm Ultra-stiff, hardened stainless steel scraper blades suitable for numerous workshop and bodyshop applications including gasket scraping and windscreen preparation. Soft grip handle design gives maximum control.

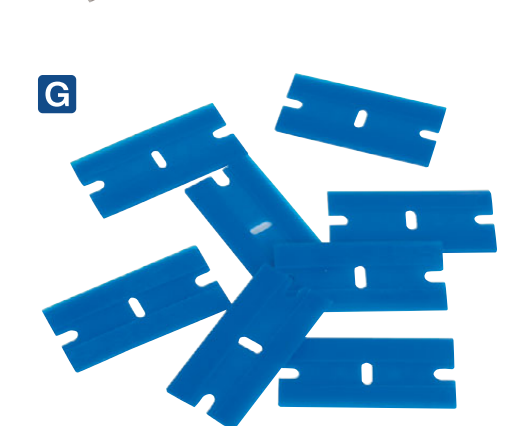
**Contents:** Scrapers; 32, 50mm, Angled Scraper (20°); 32mm



**D AK5251**  
**4pc Composite Scraper Set**

Ideal for removing trim, badges and decals from bodywork. Also suitable for removing residue from alloy wheels. Polypropylene edges will not scratch/mark paint or panel work and can be resharpened with a file when required.

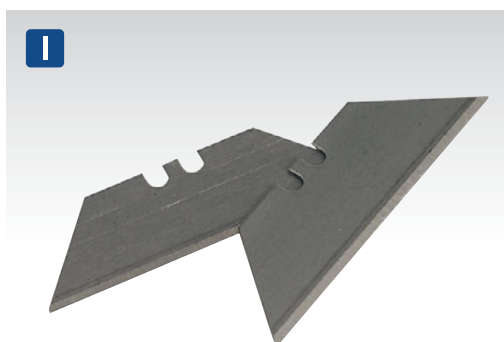
**Contents:** 19 x 265mm, 22 x 265mm, 26 x 265mm, 37 x 265mm



**E-G SEE BELOW**  
**Blades for AK52504, AK867 & VS500**

Blades suitable for use with Sealey Razor Scrapers AK52504, AK867 and VS500.

Model No:	Pack Qty:	Blade:
<b>E</b> AK867B100	100	Thin
<b>F</b> AK867/1	5	Thin
<b>G</b> AK5228	100	Composite



**I AK86/B**  
**Utility Knife Blade - Pack of 10**

Suitable for use with Sealey and other brands of standard/traditional utility knives. Compatible with Model No's AK86, AK8603, AK8604, AK8606, AK8607, AK863, AK8631, PK17, PK19, PK20, PK23, PK27, PK29, PK30, PK37, PK38, PK5, S0529 and S0555.



**H AK867**  
**Retracting Razor Scraper with Blades**

Chrome plated steel construction with retracting blade carrier for extra safety. Supplied with five spare blades.

**Length:** 100mm

**Replacement Razor Blades (Pack of 5):** AK867/1



**J AK5227**  
**Composite Razor Blade Holder - Pack of 5**

Manufactured from composite material. Suitable for holding plastic or metal razor blades. Supplied in pack of 5. Ideal for use with Sealey Composite Razor Blades, Model No. AK5228 (see **G**).



**A AK522**  
**O-Ring & Seal Pick**  
 Double end tool suitable for use with all types of O-ring and grease seal. Knurled barrel gives extra grip to greasy hands.



**B VS5211**  
**4pc O-Ring Removal Tool Set**  
 Set of four angled tools that allow removal of O-rings and seals without damage. Features contoured and spoon tips.  
**Lengths:** 130(x2), 200mm(x2)



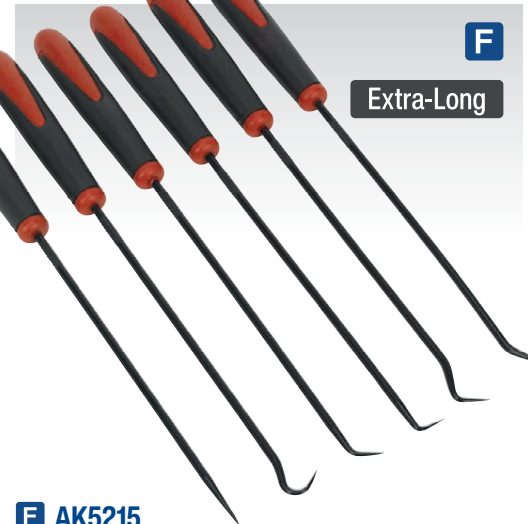
**C VS352**  
**2pc Hose Removal Hook Set**  
 Useful 2-piece set with chrome finish shafts and comfort grip handles. Ideal for the removal of coolant hoses, O-rings and seals.  
**Length:** 210mm



**D AK521**  
**4pc Mini Hook Set**  
 Chrome finish shafts with knurling for fingertip precision. Suitable for removal of bushings, cotter pins, O-rings and seals. Classic styled handles.  
**Contents:** Straight, Right Angle, Half-Round, Swan Neck  
**Length:** 125mm



**E AK5214**  
**4pc Mini Hook & Pick Set**  
 Chrome finish shafts with knurling for fingertip precision. Ergonomically styled handles for comfort, grip and accuracy. Suitable for removal of bushings, cotter pins, O-rings and seals.  
**Contents:** Straight, Right Angle, Half-Round, Swan Neck  
**Length:** 165mm



**F AK5215**  
**6pc Extra-Long Pick & Hook Set**  
 Six long reach picks with black finished steel shafts. Suitable for pin/clip picking and the removal of O-rings and seals.  
**Contents:** Straight, Right Angle, Half-Round, Swan Neck, 45°/90° Tip, 40°/45° Tip  
**Length:** 235mm



**G-H SEE BELOW**  
**Rubber Hook Tools**  
 Hardened and tempered Chrome Vanadium steel shafts. Features textured comfort grip handles. Suitable for a wide variety of windscreen replacement applications.  

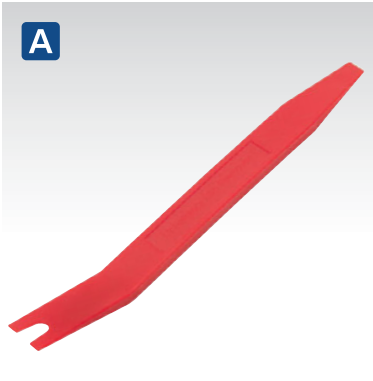
Model No:	Length:	Type:
<b>G</b> WK0310	190mm	Curved
<b>H</b> WK0313	260mm	Long Curved



**I VS5210**  
**4pc Extra-Long Pick & Hook Set**  
 Chrome Vanadium steel extra-long shafts with comfort grip handles. Suitable for various vehicle applications including, removal of hose clips, hoses, O-rings and seals.  
**Length:** 380mm



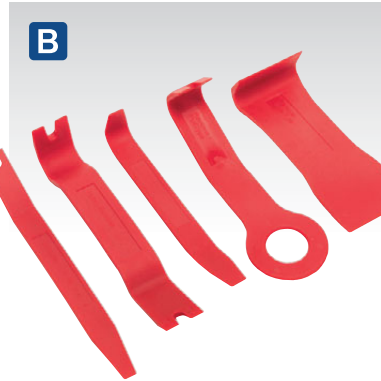
**J AK5209**  
**9pc Scraper & Hook Set**  
 Four short picks with knurled, steel shafts. Four long picks and one scraper with black finished steel shafts. Suitable for pin/clip picking, hose removal and gasket scraping. Ergonomically styled handles for comfort, grip and accuracy.  
**Contents:** Picks 165/260mm; Straight, Right Angle, Half-Round, Swan Neck, 260 x 21mm Scraper



**A RT01**  
**Trim Stick**

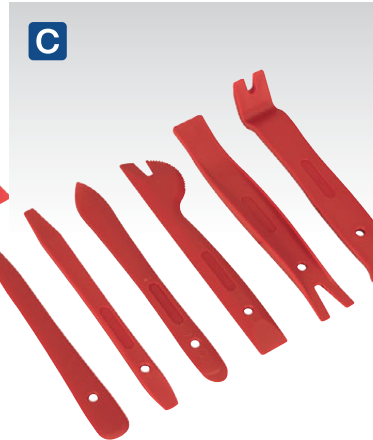
Suitable for removing interior and exterior trim without damaging the trim or the surrounding area. Manufactured from resilient plastic to minimize panel damage and marking.

**Length:** 210mm



**B RT/KIT**  
**5pc Trim & Upholstery Tool Set**

Tools designed to simplify trim and trim stud removal. Manufactured from resilient plastic to minimize panel damage and marking.



**C RT6KIT**  
**6pc Mini Panel Removal Set**

Tools with slim profile to simplify removal of small trim items and panels. Ideal for removal of dash trim and internal fittings. Manufactured from resilient nylon to minimize panel damage and marking.



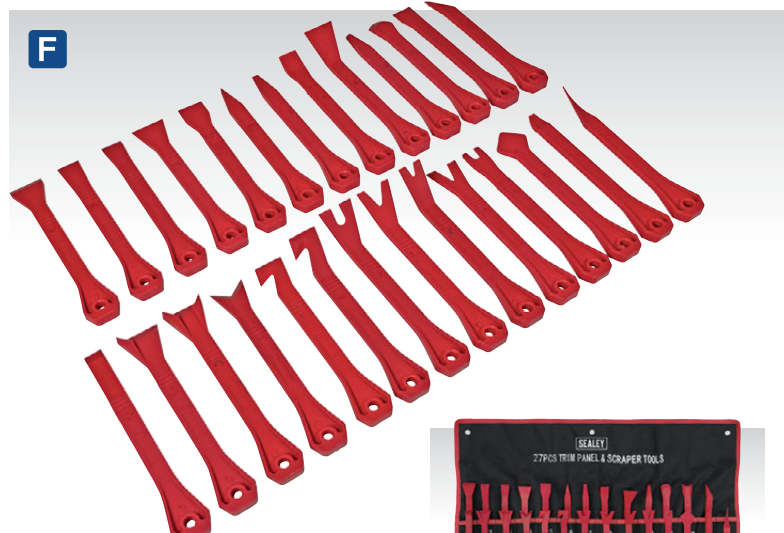
**D RT05**  
**5pc Panel Wedge Tool Set**

5-Piece panel wedge removal set. For removal of mouldings, door coverings, plastic clips and plugs. Set includes a wedge, clip remover, long wedge with taper, thin wedge and wedge with felt padding.



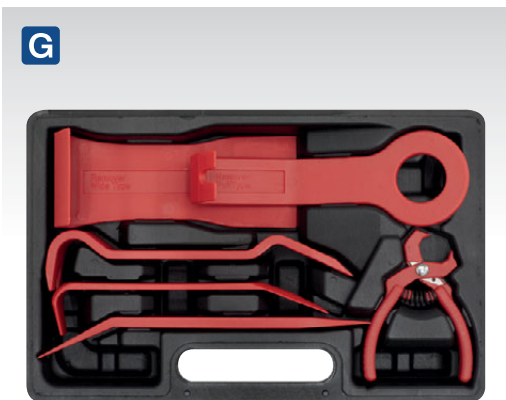
**E RT12KIT**  
**12pc Trim & Upholstery Tool Set**

Comprehensive set, designed to simplify trim and trim stud removal. Manufactured from resilient nylon to minimize panel damage and marking. Includes 11 trim and upholstery tools and trim hammer. Supplied in a heavy-duty storage pouch.



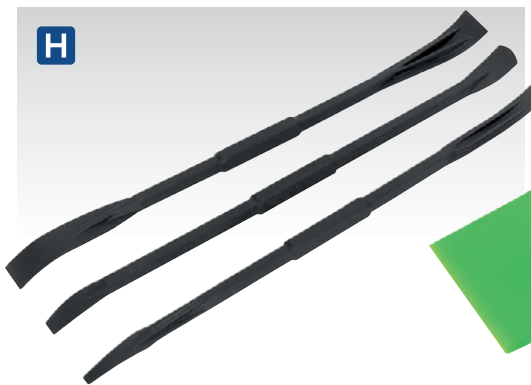
**F RT27KIT**  
**27pc Trim & Panel Clip Tool Set**

Comprehensive 27-piece trim clip and panel removing set. Manufactured from resilient nylon to minimize marking. Supplied in a heavy-duty storage pouch.



**G RT6K**  
**6pc Trim & Upholstery Set**

Manufactured from glass reinforced nylon to minimize panel damage and marking. Includes five trim and upholstery tools, plus trim clip removal pliers with spring loaded handles. Supplied in storage case.



**H RT014**  
**3pc Mini Trim Panel Removal Set**

Ideal for removing interior trim, vents and battery replacement on key fobs. Slim profile and manufactured from resilient nylon to minimize panel damage and marking.

**Length:** 83mm



**I AK526**  
**Trim Removal Tool**

Designed to be used with a mallet or air hammer. Polyoxymethylene (POM) tapered blade head provides high stiffness, low friction and excellent dimensional stability. Ideal for the removal of trim mouldings and badges from vehicle panels.

**Length:** 335mm





**A RT006**  
**5pc Door Panel & Trim Clip Removal Tool Set**

Rigid stainless steel shafts with a fully polished mirror finish. Comprises three door panel and two trim tools. U and V-profile tips simplify the removal of common types of trim stud and fixing, and reduces the risk of damage to surrounding trim. Comfortable grips with thumb stop and hanging hole.

**Contents:** V-Double Step Door Panel Tool, U-Door Panel Tool, Reverse Door Panel Tool, U-Mini Trim Tool, V-Mini Trim Tool

STAINLESS STEEL



**B RT005**  
**2pc Trim Tool Set**

Rigid stainless steel shafts with a fully polished finish. U and V-profile tips simplify the removal of common types of trim stud and fixing, and reduce the risk of damage to surrounding trim. Comfortable grips with thumb stop and hanging hole.

**Contents:** U-Mini Trim Tool, V-Mini Trim Tool

STAINLESS STEEL



**C RT06**  
**6pc Trim Clip Tool Set**

Designed for the removal of trim clips found on most vehicles. Comprises long and short reach steel shafts with clawed heads. Contoured and textured comfort grip handles.

**Contents:** Short; 240mm (x3), Long; 495mm (x3)



**D TR010**  
**4pc Trim Clip Set**

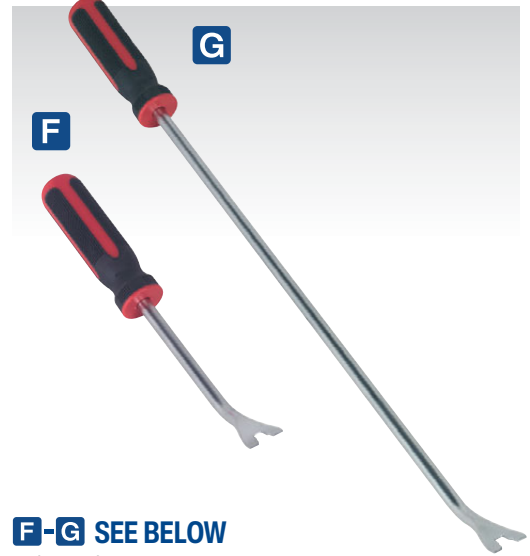
Tools designed to simplify the removal of vehicle trims. Set contains door trim tools with U and V-profile tips, angled trim tool for use in confined spaces and window winder clip removal/installation tool.



**E RT004**  
**Trim Clip Removal Pliers**

Spring loaded pliers for trim clip removal without trim damage. Easy-access into confined areas, such as bumper covers.

**Length:** 240mm



**F-G SEE BELOW**  
**Trim Clip Tools**

Hardened and tempered carbon steel shafts with clawed head. Simplifies trim and trim stud removal. Contoured, textured comfort grip handle.

Model No:	Length:
<b>F RT002</b>	250mm
<b>G RT003</b>	510mm



**H RT007**  
**Door Trim Clip Tool**

Suitable for the removal of door trim clips on most vehicles. Features coated U-profile tip to reduce the risk of damage to surrounding trim and contoured textured comfort grip handle.

**Length:** 290mm



**I HRP002**  
**Hog Ring Pliers - Pistol Grip**

Suitable for installation of upholstery hog rings, commonly found on vehicle's upholstery. Cupped and spring loaded jaws hold hog rings in place during installation. Features PVC dipped handles for added comfort.

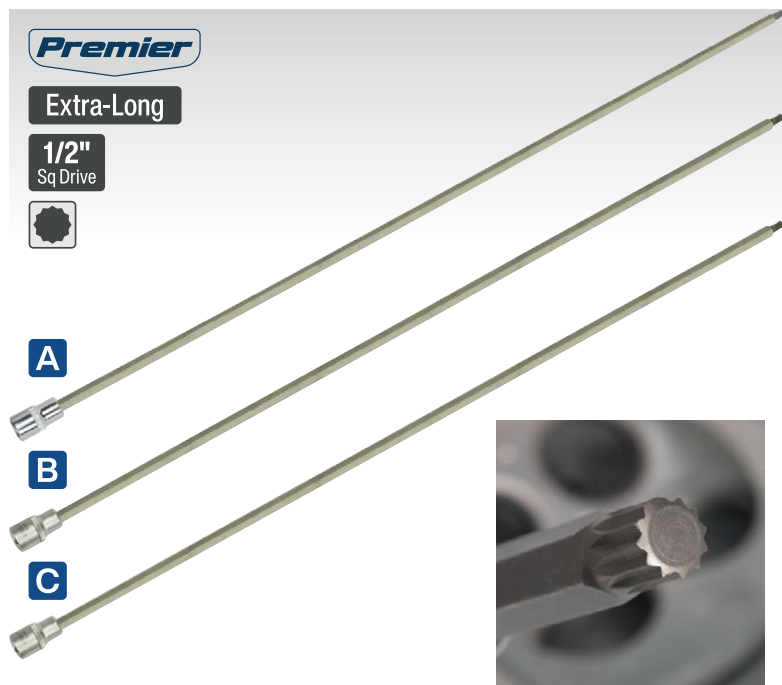
**Length:** 180mm



**J RT008**  
**Trim Clip Tool**

Designed to remove trim clips on most vehicles. Features a 70° heel for extra leverage or for use in confined spaces.

**Length:** 220mm



**A-C SEE BELOW**

**1/2" Sq Drive Extra-Long Spline Socket Bits**

Save valuable time and loosen drive shaft screws from the outside. Suitable for VAG vehicles. Hardened and tempered Chrome Vanadium steel sockets. Chrome plated with satin finish. Knurled ring on sockets for secure handling. S2 Steel spline bit extension with phosphate coating.

Model No:	Drive:	Size:	Length:
<b>A AK5535</b>	1/2" Sq	M8	800mm
<b>B AK5536</b>	1/2" Sq	M10	800mm
<b>C AK5537</b>	1/2" Sq	M12	800mm



**G AK5538**

**10pc 1/2" Sq Drive Head Bolt Socket Bit Set**

Head bolt removal tools with long reach suitable for modern engines. Nine drop-forged Chrome Vanadium steel sockets with S2 steel male bits, and one single-piece Chrome Vanadium TRX-Star\* deep socket. Sockets heat treated and chrome plated with satin finish for resistance to corrosion. Knurled ring on sockets for secure handling. Suitable for BMW, Fiat, Ford, Mazda, Mercedes, Nissan, Renault, Rover and VAG vehicles. Supplied in storage case.

Contents:	
Length 60mm:	M12 (Ribe), T70 (TRX-Star*)
Length 97mm:	M14 (Security Spline)
Length 100mm:	M9 (Ribe)
Length 117mm:	M12 (Ribe)
Length 150mm:	E12 (TRX-Star* Socket), T60H (Security TRX-Star*), M10 (Spline), 10mm (Hex), M10 (Ribe)



**D AK5531**

**M14 x 100mm 1/2" Sq Drive Spline Socket Bit**

Satin finish Chrome Vanadium steel socket with knurled ring. 100mm S2 Steel shaft. Suitable for Rover 800 2.5D cylinder head bolts and VW Type 4 Transporter bottom wishbone bolts.



**E SX107**

**M16 x 55mm 1/2" Sq Drive Security Spline Socket Bit**

Chrome Vanadium steel socket with knurled ring and S2 steel bit. Suitable for gearbox drain plugs on Audi; A3, A4, A6, VW; Golf IV and LT.



**F SX106**

**7pc 1/4" Sq Drive TRX-TS\* Security Socket Bit Set**

Chrome Vanadium steel sockets and bits. Knurled ring on sockets to assist gripping with oily fingers. 5-Spline Security TRX-TS\* bits suitable for a range of fuel injection applications. Supplied on socket rail.

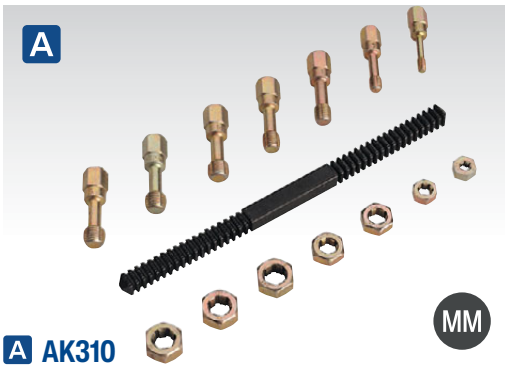
Drive:	1/4" Sq
Contents:	TS10H, TS15H, TS20H, TS25H, TS27H, TS30H, TS40H



**H AK21974**

**74pc 3/8" & 1/2" Sq Drive TRX-Star\*/Security TRX-Star\*/Hex/Ribe/Spline Bit Set**

Chrome Vanadium 6150 steel bits, each size in 30 and 75mm lengths. Hardened and tempered for added strength. Set includes 3/8" and 1/2" Sq drive to 10mm hex Chrome Vanadium steel bit adaptors. Supplied in storage case with inclined trays for quick and easy bit selection. For more information, see page 192.



**A AK310**  
**15pc Re-Threading Kit**

Taps and dies are suitable for chasing out damaged threads and the removal of nicks and burrs without undercutting good threads. Use with a standard spanner and a little light oil. Thread file restores damaged external threads on any diameter, right or left-hand - just select correct pitch. Ideal for restoration work. Supplied in tool tray.

**Contents:** Taps & Dies; 6 x 1, 8 x 1.25, 10 x 1.25, 10 x 1.5, 12 x 1.25, 12 x 1.5, 12 x 1.75mm, Thread Restorer File; 0.75, 1, 1.25, 1.5, 1.75, 2, 2.5, 3mm Pitch



**B AK313**  
**3pc Thread Restoring File Set**

Suitable for the restoration of external threads. 215mm Double end files each supplied with reversible vinyl grip.

**Contents:** SAE/UN; File #1 - 12, 13, 14, 16, 18, 20, 24, 28tpi, BSP/PF; File #2 - 11, 12, 14, 16, 19, 20, 22, 28tpi, Metric; File #3 - 0.75, 1, 1.25, 1.5, 1.75, 2, 2.5, 3mm Pitch



**C AK311**  
**42pc Re-Threading Master Kit - Metric/UNF/UNC**

Taps and dies are suitable for chasing out damaged threads and the removal of nicks and burrs without undercutting good threads. Thread file restores damaged external threads on any diameter, right or left-hand.

**Contents:** Taps; Metric - 6 x 1, 8 x 1.25, 10 x 1.25, 10 x 1.5, 12 x 1.25, 12 x 1.5, 12 x 1.75mm, National Fine - 1/4" x 28, 5/16" x 24, 3/8" x 24, 7/16" x 20, 1/2" x 20, 9/16" x 18tpi, National Coarse - 1/4" x 20, 5/16" x 18, 3/8" x 16, 7/16" x 14, 1/2" x 13, 9/16" x 12tpi, Dies; Metric - 6 x 1, 8 x 1.25, 10 x 1.25, 10 x 1.5, 12 x 1.25, 12 x 1.5, 12 x 1.75mm, National Fine - 1/4" x 28, 5/16" x 24, 3/8" x 24, 7/16" x 20, 1/2" x 20, 9/16" x 18, 5/8" x 18tpi, National Coarse - 1/4" x 20, 5/16" x 18, 3/8" x 16, 7/16" x 14, 1/2" x 13, 9/16" x 12, 5/8" x 11tpi, Thread Restorer File #1; 11, 12, 13, 14, 16, 18, 20, 24, Thread Restorer File #2; 9, 10, 12, 16, 20, 27, 28, 32tpi



**D TRMK**  
**Thread Repair Master Kit**

Suitable for five common sizes of thread. Creates a stronger internal thread in soft metals. Ideal for repairing damaged or stripped internal threads. Protects tapped threads against wear and damage. Includes drill bits, thread taps, stainless steel thread inserts, insert installation and lug breaking tools. Supplied in metal storage case.

**Thread Sizes:** M5 x 0.8, M6 x 1, M8 x 1.25, M10 x 1.5, M12 x 1.75mm

**Thread Lengths:** M5 x 4.5mm (x25), M6 x 5.5mm (x25), M8 x 8 (x25), M10 x 10mm (x25), M12 x 11mm (x10)

**Replacement Inserts:** TRM5R, TRM6R, TRM8R, TRM10R, TRM12R



**E SEE BELOW**  
**Thread Repair Kits**

Creates a stronger internal thread in soft metals. Ideal for repairing damaged or stripped internal threads. Protects tapped threads against wear and damage. Set includes drill bit, thread tap, insert installation and lug breaking tool. Each size supplied with three different lengths of thread insert.

**Model No:** TRM5  
**Thread Size:** M5 x 0.8mm  
**Thread Lengths:** 3.5, 5, 7mm (5pc of each)  
**Replacement Inserts:** TRM5R

**Model No:** TRM6  
**Thread Size:** M6 x 1mm  
**Thread Lengths:** 4, 6, 9mm (5pc of each)  
**Replacement Inserts:** TRM6R

**Model No:** TRM8  
**Thread Size:** M8 x 1.25mm  
**Thread Lengths:** 6, 9, 12mm (5pc of each)  
**Replacement Inserts:** TRM8R

**Model No:** TRM9  
**Thread Size:** M9 x 1.25mm  
**Thread Lengths:** 7, 14mm (3pc of each), 11mm (x4)  
**Replacement Inserts:** TRM9R

**Model No:** TRM10  
**Thread Size:** M10 x 1.5mm  
**Thread Lengths:** 7, 15mm (3pc of each), 11mm (x4)  
**Replacement Inserts:** TRM10R

**Model No:** TRM12  
**Thread Size:** M12 x 1.75mm  
**Thread Lengths:** 9, 18mm (2pc of each), 14mm (x4)  
**Replacement Inserts:** TRM12R

**Model No:** TRM14  
**Thread Size:** M14 x 1.25mm  
**Thread Lengths:** 10, 21mm (1pc of each), 16mm (x3)  
**Replacement Inserts:** TRM14R



**F SEE BELOW**  
**Thread Inserts**

Replacement thread inserts for Sealey Thread Repair Kits.

**Model No:** TRM5R  
**Thread Size:** M5 x 0.8mm  
**Thread Lengths:** 3.5, 5, 7mm (5pc of each)

**Model No:** TRM6R  
**Thread Size:** M6 x 1mm  
**Thread Lengths:** 4, 6, 9 (5pc of each)

**Model No:** TRM8R  
**Thread Size:** M8 x 1.25mm  
**Thread Lengths:** 6, 9, 12mm (5pc of each)

**Model No:** TRM9R  
**Thread Size:** M9 x 1.25mm  
**Thread Lengths:** 7, 14mm (3pc of each), 11mm (x4)

**Model No:** TRM10R  
**Thread Size:** M10 x 1.5mm  
**Thread Lengths:** 7.5, 15mm (3pc of each), 11mm (x4)

**Model No:** TRM12R  
**Thread Size:** M12 x 1.75mm  
**Thread Lengths:** 9, 18mm (2pc of each), 14mm (x4)

**Model No:** TRM14R  
**Thread Size:** M14 x 1.25mm  
**Thread Lengths:** 10, 21mm (1pc of each), 16mm (x3)



**G VS7232**  
**Stud Remover & Installer**

Suitable for the removal and installation of various sizes of stud. Cam rotates to grip onto the stud for quick and easy use. Use with 1/2" Sq drive ratchet wrench.

**Drive:** 1/2" Sq  
**Capacity:** 8-19mm

A

**A CV026****Crankshaft Rotator - DAF**

Designed to rotate crankshaft on DAF commercial vehicles via flywheel ring gear.

Drive:	24mm Hex
Application:	DAF; 35-42 Tonne Euro 3

C

1/2"  
Sq Drive**C CV002****Crankshaft Rotator - DAF**

Designed to rotate crankshaft on DAF commercial vehicles via flywheel ring gear.

Drive:	1/2" Sq
Applications:	DAF; 35-42 Tonne Euro 4, XF105 Euro 5

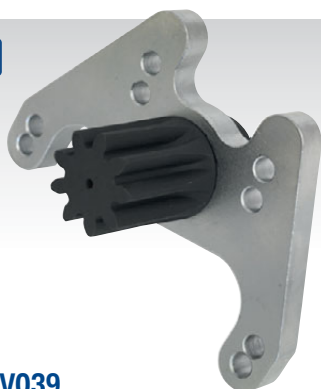
F

1/2"  
Sq Drive**F CV005****Crankshaft Rotator - MAN**

Designed to rotate crankshaft on MAN commercial vehicles via flywheel ring gear.

Drive:	1/2" Sq
Applications:	MAN; D20, D25, D26, D28

G

1/2"  
Sq Drive**G CV039****Crankshaft Rotator - Volvo**

Designed to rotate crankshaft on Volvo commercial vehicles via flywheel ring gear.

Drive:	1/2" Sq
Applications:	Volvo; D9A, D11B, D12, D16C, Renault; DXi11, DXi12

**B 1500E****1.5 Tonne Floor Transmission Jack**

Heavy-duty model supplied with chain for safe loading. Precision valve allows delicate adjustment when taking out gearbox and realigning during replacement. Four castors for extra manoeuvrability in confined spaces. Fully adjustable saddle with forward, backward and side-to-side tilt.

Capacity:	1500kg
Minimum Saddle Height:	215mm
Maximum Saddle Height:	950mm
Overall Width/Length:	655/1100mm
Fixed/Adjustable Saddle:	Adjustable
Saddle Tilt - Forward:	10°
Saddle Tilt - Backward:	15°
Saddle Tilt - Side-to-Side:	12°
Weight:	132kg

B

1500kg Premier



D

1/2"  
Sq Drive**D CV038****Crankshaft Rotator - Mercedes**

Designed to rotate crankshaft on Mercedes commercial vehicles via flywheel ring gear.

Drive:	1/2" Sq
Applications:	Mercedes; OM457, OM541, OM542, OM902, OM904, OM906, OM924, OM926, MAN; D25, D28

E

1/2"  
Sq Drive**E CV037****Crankshaft Rotator - Mercedes**

Designed to rotate crankshaft on Mercedes commercial vehicles via flywheel ring gear.

Drive:	1/2" Sq
Applications:	Mercedes; OM401, OM402, OM403, OM404, OM407, OM409, OM421, OM422, OM423, OM424, OM427, OM429, OM441, OM442, OM444, OM446, OM447, OM457, OM489, OM541, OM542, MAN; D2842

H

1/2"  
Sq Drive**H CV011****Crankshaft Rotator - Scania**

Chrome Vanadium steel with a phosphate finish. Designed to rotate the crankshaft on Scania commercial vehicles.

Drive:	1/2" Sq
Application:	Scania

**I VS858****Folding Mechanic's Work Mat**

Flexible work mat with two handles for portability. Durable composite cover that resists stains and fluids. High-density padding for added comfort. Ideal for working on cold garage floors and for roadside repairs.

Folded Size (L x W x D):	610 x 444 x 76mm
Unfolded Size (L x W x D):	1220 x 444 x 38mm





**A VS936**  
**Oil Filter Chain Wrench**  
 Steel chain wrench with 180° pivoting handle suitable for filters with limited access. Heavy-duty chain with spring locking mechanism for added security.

Capacity: Ø60-105mm



**B CV6412**  
**Oil Filter Pliers - Commercial**  
 Large forged pliers with chemically blackened finish. Serrated jaws and long handles for extra grip on oily filters. Features a ratchet joint adjustable head. Essential tool for removing commercial filters.

Capacity: Ø95-178mm



**C AK6417**  
**Swivel Jaw Filter Pliers**  
 Jaws swivel up to 90° to give access to awkwardly positioned oil and fuel filters. Chemically blackened finish to prevent corrosion and non-slip grip for added comfort and control.

Capacity: Ø57-120mm



**D-F SEE BELOW**  
**55L Portable Dispensing Tanks**  
 For full details, see page 666.

Model No:	Application:	Colour:
<b>D</b> DT55RCOMBO1	Oil	Red
<b>E</b> DT55BCOMBO1	AdBlue®	Blue
<b>F</b> DT55GCOMBO1	Diesel	Grey



**G VS2061**  
**4pc Injector Socket Set - Commercial**  
 Suitable for the removal and installation of truck and bus diesel injectors. Castellated socket fits common injectors on MAN, Mercedes, Neoplan and Setra. Also suitable for some Iveco, Renault and Scania vehicles. Supplied in storage case.

**Contents:** 1/2" Sq Drive x 72mm x 4-Tooth, 1/2" Sq Drive x 120mm x 3-Tooth, Hex 32mm x 70mm x 4-Tooth (M14 x 1.5mm Receiver Thread), Hex 32mm x 122mm x 4-Tooth for MAN, Mercedes, Neoplan, Setra

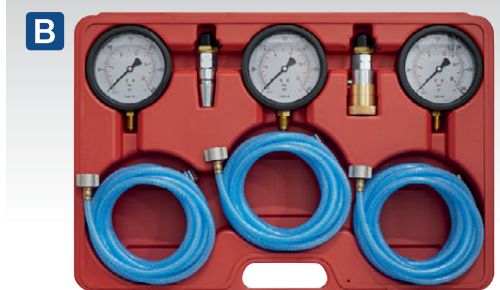


**H SCS0365**  
**500ml Freeze Shock & Release Spray Lubricant**  
 For full details, see page 1117.

**A VS931****Air Brake Test Gauge - Commercial**

Locate problems relating to commercial vehicle air brake pressure quickly and easily. Suitable for use at the roadside or workshop. Features a large 0-20bar (0-300psi) gauge with rubber bumper and hose. Supplied with wire brush and male and female couplings. Supplied in storage case.

Hose Length:	2m
Test Point Adaptor:	M16 x 1.5mm

**B VS932****Air Brake Test Gauge Set - Commercial**

Locate problems relating to commercial vehicle air brake pressure quickly and easily. Three gauges provide more accurate diagnosis when testing and locating faults along the braking system. Suitable for use at the roadside or in the workshop. Features three large 0-20bar(0-300psi) gauges with rubber bumper. Supplied with male/female couplings, three hoses and a wire brush. Supplied in storage case.

Hose Length:	5m
Test Point Adaptor:	M16 x 1.5mm

**C CV936****Air Dryer Cartridge Chain Wrench Commercial**

Steel chain wrench with 180° pivoting handle suitable for filters with limited access. Heavy-duty chain with spring locking mechanism for added security. Essential tool for removing commercial air brake filters.

Capacity:	Ø60-160mm
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**D CV013****Brake Shoe Spreader - Volvo Truck**

Locks the brake shoe open, allowing the shoe lining to be replaced. A must have tool for servicing front and rear brakes on Volvo commercial vehicles.

OEM Tool:	9998550
Applications:	Volvo; F7, F12, F16, FH12, FH16, FL7, FL10, N7, N10, N12

**E CV027****19mm Air Brake Chamber Nut Socket**

Heavy-duty, 6-point, long reach impact socket. Designed for the adjustment of air brake chamber spring cage bolt.

Drive:	1/2" Sq
Size:	19mm
Length:	136mm

**H CV124****2L Axle Oil Drain Pan**

Manufactured from hard-wearing polypropylene material. Locates comfortably in wheel and ensures safe and clean collection of waste oil.

Capacity:	2L
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**G CV252****Brake Spring Pliers - Commercial**

Designed for the removal/installation of drum shoe retaining springs, found on commercial vehicles.

Length:	510mm
---------	-------

**I**

IMP

**J**

MM

**F**

85L

Turbo Action AIR Operated

**F SM223****85L Air Operated Parts Cleaning Tank**

Heavy-duty one-piece steel tank. Fitted with fully sealed and air operated pump unit. Turbo agitation, bubbles air through fluid to reduce soaking time and requires workshop air supply. Extra-large capacity tank is suitable for cleaning larger engine components. Includes air blow gun for fast drying of workpiece. Lid of tank fitted with fusible link which automatically snaps lid shut in the event of a fire. Supplied with removable shelf and parts basket. For full specification, see page 687.

**I-J SEE BELOW****Vehicle Height Indicators - Commercial**

Fully adjustable height indicator for commercial vehicle cabs.

Model No:	Height Range:
<b>I</b> CV032	8-20ft
<b>J</b> CV032M	2-6.75m



**A TC966**  
**Hydraulic Bead Breaker**  
Hydraulic action, suitable for breaking beads on commercial and agricultural tyres. Use in conjunction with hydraulic pump and hose (not included).

Optional Hydraulics (See Below):	Model No:
1 Manual Pump:	RE97.10-01
2 Air Pump:	RE83/840
3 Hose with Half Coupling:	RE97.10-03



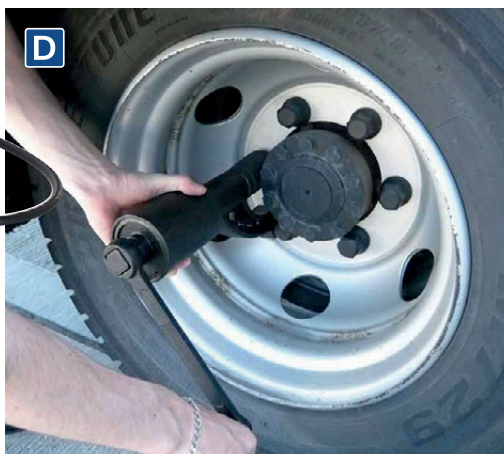
**B TC900**  
**19L Bead Seating Tool - Lever Trigger**  
The easy and instant way to seat tubeless tyre beads. Dumps air into tyre void forcing bead to seat against rim for inflation. Air release is controlled by a hand lever operating a ball valve. Fully certified tank with gauge and safety valve prevents over pressurising. Suitable for use on cars, commercials, agricultural and ATV tyres.

Maximum Pressure:	150psi(10.4bar)
Tank Capacity:	19L
Weight:	12.6kg



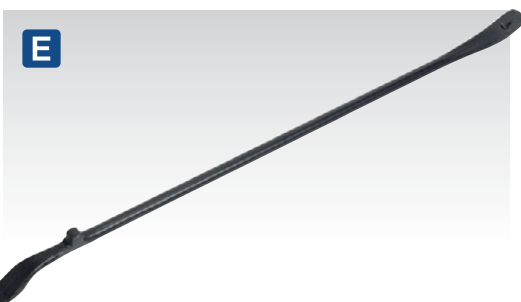
**C TC904**  
**19L Bead Seating Tool Push-Button Trigger**  
The easy and instant way to seat tubeless tyre beads. Dumps air into tyre void forcing bead to seat against rim for inflation. Air release is controlled by a diaphragm valve and push-button trigger. Features slotted key to prevent accidental operation of the trigger. Fully certified tank with gauge and safety valve prevents over pressurising. Suitable for use on cars, commercials, agricultural and ATV tyres.

Maximum Pressure:	150psi(10.4bar)
Tank Capacity:	19L
Weight:	13.2kg



**D SX500**  
**Torque Multiplier Wheel Nut Wrench 65:1**  
Ideal for removing/installing wheel nuts on commercial and light commercial vehicles when air impact wrench is not easily accessible. Supplied in storage case with two impact sockets and 210mm extension.

Output Drive:	1" Sq (Male)
Ratio:	65:1
Maximum Rated Output:	6200Nm
Socket Sizes:	32, 33mm



**E VSTL940**  
**940mm Tyre Lever - Commercial**  
Carbon steel tyre lever with hook ends. Suitable for use on commercial vehicle tyres.

Length:	940mm
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**F SA37/94**  
**Professional Tyre Inflator with 2.5m Hose & Clip-On Connector**  
Manufactured to comply with EN 12645. Aluminium body with rubber bumper. Linear pressure scale, dual calibrated in psi and bar, with parallax correction. Fitted with 2.5m hose with clip-on air connector for compliance with safety regulations relating to inflation of commercial and agricultural vehicle tyres. Supplied with a serial numbered calibration certificate.

Range:	0-9.6bar(0-140psi)
Minimum Air Supply:	5.5bar(80psi)
Maximum Air Supply:	15bar(218psi)
Inlet Size:	1/4" BSP



**G SA375**  
**Digital Tyre Inflator with 2.7m Hose & Clip-On Connector**  
Die-cast aluminium body with large rubber bumper, backlit LCD digital display and battery level indicator. Auto-power-off after 8 seconds and auto-power-on once pressure is sensed, or air inflation starts. 2.7m Flexible hose fitted with clip-on air connector.

Range:	0-12bar(0-174psi)
Maximum Air Supply:	13.8bar(200psi)
Inlet Size:	1/4" BSP
Pressure Units:	bar, psi, kPa
Battery:	2 x AAA (supplied)

A

3/4"  
Sq Drive**A CV007****Groove Axle Nut Socket with 6-Studs  
MAN/Mercedes**

Chrome Molybdenum, drop-forged, 6-stud impact socket designed for the removal and refitting of axle nut found on MAN TGA and Mercedes trucks.

Drive:	3/4"Sq, 60mm Hex
Inner Diameter:	Ø101mm
Outer Diameter:	Ø110mm
Stud Width:	12mm
Applications:	MAN TGA, Mercedes Truck

B

3/4"  
Sq Drive**B CV008****Axle Hub Nut Socket - Scania (420)**

Chrome Molybdenum, drop-forged, 8-stud impact socket, designed for grooved locknut fitted to Scania (420) axle systems.

Drive:	3/4"Sq
Inner Diameter:	Ø102mm
Outer Diameter:	Ø119mm
Stud Diameter:	Ø102mm
Stud Width:	9.5mm
Application:	Scania(420)

C

3/4"  
Sq Drive**C CV004****Rear Hub Nut Socket - Scania**

Drop-forged, 8-point, steel impact socket designed for the removal of rear hub nut found on Scania commercial vehicles.

Drive:	3/4"Sq
Size:	100mm
Application:	Scania

D

3/4"  
Sq Drive**D CV001****Front Hub Nut Socket - Scania**

Drop-forged, 8-point, steel impact socket designed for the removal of front hub nut found on Scania trucks.

Drive:	3/4"Sq
Size:	80mm
Application:	Scania Truck

E

3/4"  
Sq Drive**E CV003****Third Axle Socket Scania 10-Wheel Cab**

Drop-forged, 8-point, steel impact socket designed for the removal of the third axle nut found on 10-wheel Scania cab.

Drive:	3/4"Sq
Size:	95mm
Application:	Scania Cab

F

1"  
Sq Drive**F CV006****Wheel Shaft Cover Socket - Volvo**

Chrome Molybdenum, drop-forged, 8-point, high-impact socket designed for the removal of front and rear axle covers found on Volvo commercial vehicles.

Drive:	1"Sq
Size:	115mm
Application:	Volvo

G

**G CV015****Axle Nut Socket - Mercedes**

Chrome Molybdenum, drop-forged, 12-point, high-impact socket designed for the removal of Mercedes trailer axle nut.

Drive:	36mm Hex
Size:	95mm, 12-point
Application:	Mercedes; Trailer Axle Nut

H

**H CV016****Axle Nut Socket - Iveco**

Chrome Molybdenum, drop-forged, 6-point, high-impact socket designed for the removal of Iveco Eurocargo axle nut.

Drive:	36mm Hex
Size:	98mm
Application:	Iveco; Eurocargo Axle Nut

I

**I CV024****Axle Nut Socket - Iveco**

Chrome Molybdenum, drop-forged, 12-point, high-impact socket designed for the removal of axle nut found on Iveco Eurotech-Cursor.

Drive:	36mm Hex
Size:	110mm, 12-point
Application:	Iveco; Eurotech-Cursor

J

**J CV021****133-145mm Axle Locknut Socket**

Chrome Molybdenum, drop-forged, 6-tooth impact socket with detachable inner location sleeve. Designed for locknut fitted to MAN TGA axles.

Drive:	3/4"Sq, 60mm Hex
Application:	MAN TGA Axle

3/4"  
Sq Drive

K

**K CV019****Axle Nut Socket - SAF Euro**

Designed for axle nut fitted to SAF Euro trucks. Suitable for use with 46mm socket, together with impact or torque wrench.

Drive:	32, 46mm Hex
Size:	140mm
Application:	SAF Euro Axle







**A**

1"  
Sq Drive

Standard



**A SEE BELOW**

**Impact Sockets**

Chrome Molybdenum, drop-forged, 6-point impact sockets. Hardened and tempered for strength and with phosphate finish for greater corrosion resistance.

Drive:	1" Sq
<b>Model No:</b>	<b>Size:</b>
CV085	85mm
CV090	90mm
CV095	95mm
CV100	100mm
CV105	105mm
CV110	110mm
CV115	115mm
CV120	120mm



**D**

**E**

**D-E SEE BELOW**

**Ball Joint Splitters - Commercial**

Chemically blackened forged steel body with thrust bolt. High strength construction, suitable for commercial vehicle ball joints.

Model No:	Jaw Width:
<b>D VS3804</b>	33mm
<b>E VS3805</b>	42mm



**B**

3/4"  
Sq Drive

**B CV022**

**Axle Locknut Socket**

Chrome Molybdenum, drop-forged, 6-stud impact socket with bayonet locking tube. Designed for grooved locknut fitted to Mercedes Atego rear axle on Vario 814 and MAN vehicles.

<b>Drive:</b>	3/4" Sq
<b>Inner Diameter:</b>	Ø80mm
<b>Outer Diameter:</b>	Ø95mm
<b>Stud Diameter:</b>	Ø87mm
<b>Stud Width:</b>	10mm
<b>Locking Tube:</b>	
<b>Inner Diameter:</b>	Ø40mm
<b>Outer Diameter:</b>	Ø49mm
<b>OEM Tool:</b>	9703530026



**F**

**F VS3812**

**Ball Joint Splitter - Commercial**

Chemically blackened forged steel body with thrust bolt. Suitable for commercial applications.

<b>Jaw Width:</b>	30mm
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**C**

3/4"  
Sq Drive

**C CV020**

**Axle Locknut Socket**

Chrome Molybdenum, drop-forged, 6-stud socket with locating tube. Designed for grooved lock nut fitted to Mercedes Actros rear axle and HL/HL 8 (Hypoid) axles.

<b>Drive:</b>	3/4" Sq
<b>Inner Diameter:</b>	Ø105mm
<b>Outer Diameter:</b>	Ø125mm
<b>Stud Diameter:</b>	Ø116mm
<b>Stud Width:</b>	10mm
<b>Locating Tube:</b>	
<b>Inner Diameter:</b>	Ø47.5mm
<b>Outer Diameter:</b>	Ø60mm



**G**

1/2"  
Sq Drive

**G CV025**

**11pc Ball Joint Socket Set**

Chrome Molybdenum, 4-tooth sockets specially designed to remove castellated locknut found on ball joints, axles and other applications. Blackened finish provides corrosion resistance. Supplied in storage case.

<b>Drive:</b>	1/2" Sq
<b>Size (ID/OD):</b>	Ø15/22(3), 18.5/26(3), 21/30(4), 24.5/33(4), 27/37(4), 33.5/44(5), 38/50(5), 44.5/56(5), 50.5/63(6), 55/69(6), 61/75(6)mm

**H CV212**

**5pc Brake Caliper Slogging Wrench Set**

Used for installing and removing the brake caliper bolts on commercial vehicles. Designed with a 3/4" Sq drive for use with a torque wrench. Formula for calculating the correct effective length laser etched on wrench. Two striking faces for access and aiding in loosening of bolts.

<b>Drive:</b>	3/4" Sq
<b>Size (ID/OD):</b>	TRX-Star*; E18, E20, E24, Socket 12-point; 24.26mm



**H**



3/4"  
Sq Drive



**A VS0033**  
**5pc Cooling System Pressure Test Kit**  
 Capless tester uses cone adaptor system to seal and pressurise the cooling system. Adaptors may be used to replace both screw and bayonet type cap fittings. Kit includes pump with gauge and four system adaptors for use on a wide range of vehicle applications.

**Cone Adaptor Sizes:** 17-24, 28-31.5, 37-39.5, 47-48.5mm



**B CV0011**  
**7pc Cooling System Pressure Test Kit Commercial**  
 Cooling system pressure testing kit, designed for commercial vehicles. Pressure pump with gauge quickly identifies faulty gaskets, radiators, weeping pipes and other causes of coolant loss.

**Applications:** DAF, Iveco, MAN, Mercedes, Renault, Scania, Volvo

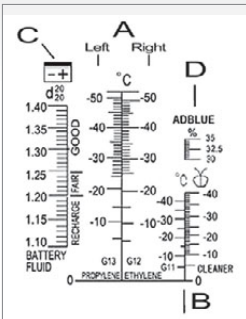


**C VS0044**  
**Coolant System Flush Gun**  
 Enables thorough flushing of debris and contaminants from cooling system during repair and maintenance. Powered by workshop air, which creates a vacuum to draw water from a container. Can also be used with mains pressure tap water.

**Adaptor Sizes:** Ø19, Ø29, Ø32, Ø37, Ø40mm  
**Air Inlet Size:** 1/4" BSP  
**Water Inlet Size:** Ø15.5mm  
**Operating Pressure:** 90psi



- Tests:
- Battery Fluid
- Antifreeze
- Screenwash
- AdBlue®



**D VS0052**  
**Refractometer Antifreeze/Battery Fluid/Screenwash/AdBlue®**  
 Accurately measures the strength of battery fluid, screenwash, antifreeze and AdBlue® by measuring the refractive index of light passing through the mixture. Suitable for synthetic antifreeze mixtures including long-life OAT (Organic Acid Technology), G13 and aqueous/urea content of AdBlue®. Temperature corrected prism ensures accuracy. Eyepiece with adjustable focus. Simple calibration check using distilled water. Supplied with pipette and storage case.



**E CV014**  
**Radiator Coupler - Scania**  
 Radiator coupler for draining and filling coolant system fitted to Scania trucks and buses.

**Applications:** Scania; 340/360 Truck/Bus - 4/5 Series



**F VS405**  
**1.5L Oil Inspection Syringe**  
 Multipurpose syringe with Viton® seal, ideal for the transfer of oils/fluids to and from vehicle components such as brake master cylinders, oil filter housings, power steering reservoirs, differentials and gearboxes. Translucent body allows easy inspection of contents.

**Capacity:** 1.5L



**G DRP04**  
**17L Antifreeze/Fluid Drain Pan**  
 Colour-coded to help keep different fluids isolated and reduce cross contamination.

**Capacity:** 17L  
**Diameter:** Ø460mm  
**Height:** 150mm

**COOLING SYSTEM PRESSURE TESTERS**  
 For our full range of Cooling System Pressure Testers, see pages 502 to 503.



**AdBlue® Pumps**  
 For our full range of AdBlue® Pumps, see pages 656 to 657.



**H HBS97.HGV**  
**Headlamp Beam Setter with Rails & Commercial Aiming Screen**  
 For full details, see page 571.



**A** 1.5 Tonne **Hydraulic**



**A VS3811**  
**Hydraulic/Manual Ball Joint Splitter**  
**Light Commercial**

Forged steel body, ball joint splitter suitable for light commercial vehicles. Specially designed to be operated manually or by 1.5 Tonne hydraulic ram supplied. Features a step down thread adaptor that allows fitting of the manual thrust screw.

<b>Jaw Width:</b>	19mm
<b>Jaw Opening Capacity:</b>	47mm

**B** 10 Tonne **Hydraulic**



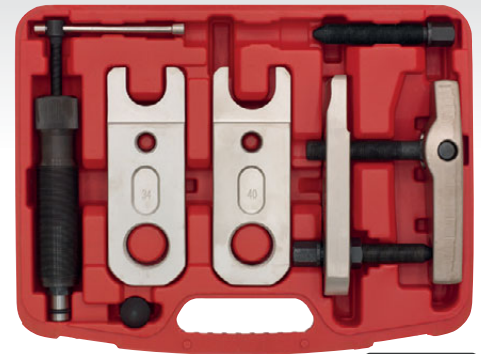
**B VS3813**  
**Hydraulic/Manual**  
**Ball Joint Splitter - Commercial**

**HEAVY DUTY**

Heavy-duty ball joint splitter suitable for commercial vehicles. Specially designed to be operated manually or by 10 Tonne hydraulic ram (supplied). Features a step down thread adaptor that allows fitting of the manual thrust screw or hydraulic ram. Hydraulic ram interchangeable with Model No. PS990.

<b>Jaw Width:</b>	35mm
<b>Jaw Opening Capacity:</b>	100mm

**C** 12 Tonne **Hydraulic**



**C VS3814**  
**9pc Hydraulic/Manual**  
**Ball Joint Splitter - Commercial**

**HEAVY DUTY**

Heavy-duty ball joint splitter with interchangeable jaws. Enables operator to select correct jaw size without taking entire splitter to the vehicle. Use manually or with 12 Tonne hydraulic ram (supplied).

<b>Jaw Width:</b>	Small; 30mm, Medium; 34mm, Large; 40mm
<b>Jaw Opening Capacity:</b>	100mm
<b>Thrust Screw Lengths:</b>	82, 100mm
<b>Pivot Rod Length:</b>	95mm

**D** 12 Tonne **Hydraulic**



**HEAVY DUTY**

**D CV040**  
**Hydraulic Bush Tool - Commercial**

Designed for the installation and removal of slotted bushes on commercial spring suspension. Includes a 12 Tonne hydraulic cylinder (supplied without hydraulic pump). Use in conjunction with Hydraulic Pump Model No's RE83/840/CWH (Air/Hydraulic) or RE97.10-01 (Hydraulic), see page 717. Installation protects the bush using the parallel working tension elements. Suitable for use on the vehicle. Safe and easy-to-use.

**Applications:** Volvo (FM12), Renault (430/450/460), MAN-TGA (410/414/460), DAF

**E**



**E CV031**  
**Clutch Alignment Set - Commercial**

Suitable for a wide range of commercial vehicles. Screw action provides fast adjustment to suit hub diameter. Four interchangeable spigot adaptors aid close alignment.

<b>Spigot Adaptors:</b>	Ø20, 25, 27, 30mm
<b>Mandrel:</b>	Ø36-45, 42-52mm

**F**



**F RJC02**  
**Ball Joint Dust Covers**  
**Commercial Vehicles - Pack of 3**

Multipurpose ball joint dust covers easily replace split or damaged dust covers on otherwise serviceable ball joints, avoiding MOT test failure. Pack contains three ball joint dust covers supplied with retaining O-rings and fitting tool. Covers a wide range of commercial vehicle applications.

<b>Hole Sizes:</b>	Ø18mm/40.5mm
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**G-I SEE BELOW**  
**PowerStart Emergency Jump Starters**  
For full details, see page 635.

Model No:

**G** POWERSTART500

**H** POWERSTART900

**I** PSTART1000HD



500kg Capacity

**A W508T**  
500kg Wheel Removal Trolley with Adjustable Width



Suitable for changing wheels and tyres on large vehicles. 8-Position adjustable roller width ranging from 440 to 780mm, giving greater flexibility. Load arms incorporate smooth roller action sleeves allowing wheel to be rotated for lining up on studs. Foot operated hydraulic mechanism with dead man's control release. Mounted on two rear locking castors and two front castors for stability and easy manoeuvrability. Supplied with safety chain.

Maximum Lifting Capacity:	500kg
Minimum Lifting Height:	50mm
Maximum Lifting Height:	640mm
Roller Length:	620mm
Width Between Rollers:	440, 496, 560, 610, 668, 724, 780mm
Weight:	133kg



1500kg Capacity



**B W1200T**  
1500kg Wheel Removal Trolley

Eight adjustable rollers (four each side), allow for easy turning of large deep tread tyres. Extra-large jacking handle and hydraulic foot pedal allow for one-person operation. Safety bar with composite guard goes around wheel to ensure stability during transportation. Locking mechanism allows rollers to be fixed at eight preset positions. Mounted on two locking and two non-locking castors for improved stability and easy manoeuvrability. Ideal for use on agricultural and commercial wheels and tyres.

Maximum Lifting Capacity:	1500kg
Minimum Lifting Height:	0.1mm
Maximum Lifting Height:	760mm
Minimum Wheel Diameter:	Ø1000mm
Maximum Wheel Diameter:	Ø2200mm
Roller Length:	490mm
Overall Size (W x D x H):	1300 x 1015 x 1500mm
Weight:	118kg

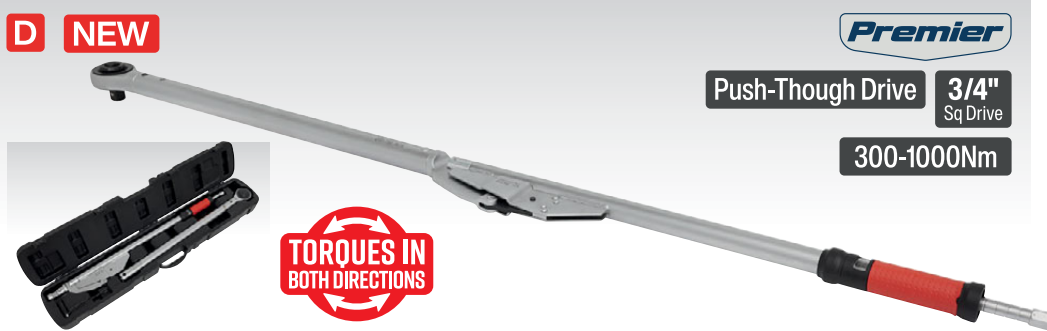


127kg

**C TH002**  
Wheel & Tyre Handling Dolly

Enables commercial sized wheels and tyres to be removed/installed on hub studs.

Capacity:	127kg
Fork Centres:	535mm
Length:	1255mm



Premier

Push-Through Drive 3/4" Sq Drive

300-1000Nm



**D STW501**  
3/4" Sq Drive Breakback Torque Wrench 300-1000Nm

Scales graduated in both lb.ft and Nm giving accurate results to ±4%. Calibration tolerance in accordance with BS EN ISO 6789:2017. Every wrench is tested and supplied with an individually numbered test certificate. Breakback design significantly reduces the risk of over torquing. Ratchet head features push-through drive to allow torquing either clockwise or anticlockwise. Comfortable soft grip handle. Supplied with additional tool to drive the external nut at base of grip clockwise/anti-clockwise for easy torque adjustment/setting. Supplied in storage case.

Drive:	3/4" Sq
Length:	1550mm
Range:	300-1000Nm (200/750lb.ft)



**E CV127**  
Wheel Chock with Bracket - Commercial

High-density plastic with anti-slip steel bar. Prevents vehicle movement when being jacked on a level surface or parked on an incline not exceeding 12°. Steel chock bracket designed to mount to wall or trailer.

Chock Weight:	1.7kg
Chock Dimensions (W x D x H):	200 x 475 x 225mm



**A VS77**

**3pc Triple Leg Gear Reversible Puller Set**

Drop-forged, carbon steel reversible legs and body. Heat treated and chrome plated to resist corrosion. Hex head forcing screws suitable for use with a ratchet or spanner.

Size/Spread:	Reach:
65mm	75mm
115mm	100mm
175mm	150mm

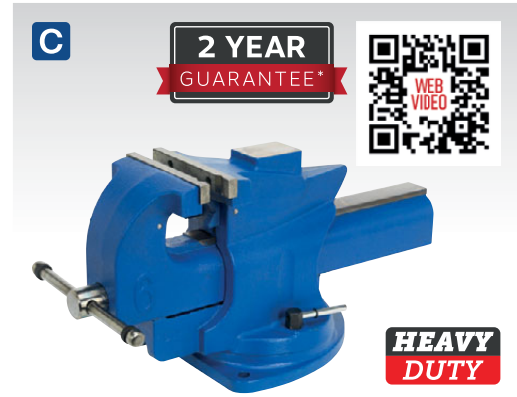


**B VS95**

**4pc Triple Leg Gear Reversible Puller Set**

Drop-forged, carbon steel reversible legs and body. Heat treated and chrome plated to resist corrosion. Hex head forcing screws suitable for use with a ratchet or spanner.

Size/Spread:	Reach:
65mm	75mm
115mm	100mm
175mm	150mm
220mm	200mm



**C QAV150**

**Quick Action Swivel Base Cast Iron Vices**

For full details, see page 1213.

**2 YEAR  
GUARANTEE\***



**HEAVY  
DUTY**



**D SEE BELOW**

**Triple Leg Reversible Pullers**

Triple leg pullers with reversible, drop-forged, Chrome Vanadium steel legs. Heat treated for added strength and chrome plated to resist corrosion.

Model No:	Size/Spread:	Reach:
SGP33	65mm	75mm
SGP34	115mm	100mm
SGP36	175mm	150mm
SGP38	220mm	200mm

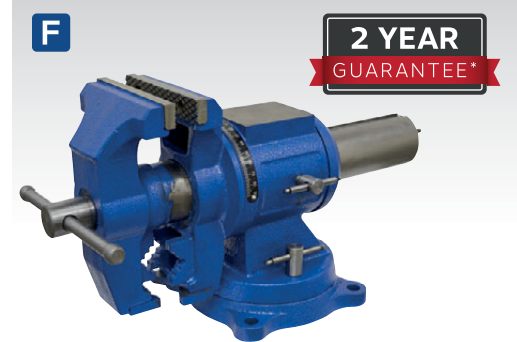


**E AK78**

**3pc Triple Leg Gear Reversible Puller Set**

Drop-forged, Chrome Vanadium steel reversible legs. Swivel thrust plates on larger sizes prevent damage to shaft ends. Hex head forcing screws suitable for use with a ratchet or spanner.

Size/Spread:	Reach:
65mm	75mm
115mm	100mm
175mm	150mm



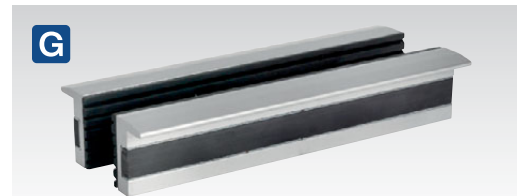
**F MFV150**

**150mm Cast Iron Multifunction Swivel Base Vice**

For full details, see page 1213.

**2 YEAR  
GUARANTEE\***

**HEAVY  
DUTY**



**G VSJ150**

**150mm Soft Jaws for Vices**

For full details, see page 1213.



**H AK79**

**4pc Triple Leg Gear Reversible Puller Set**

Drop-forged, Chrome Vanadium steel reversible legs. Swivel thrust plates on larger sizes prevent damage to shaft ends. Hex head forcing screws suitable for use with a ratchet or spanner.

Size/Spread:	Reach:
65mm	75mm
115mm	100mm
175mm	150mm
220mm	200mm



**I SEE BELOW**

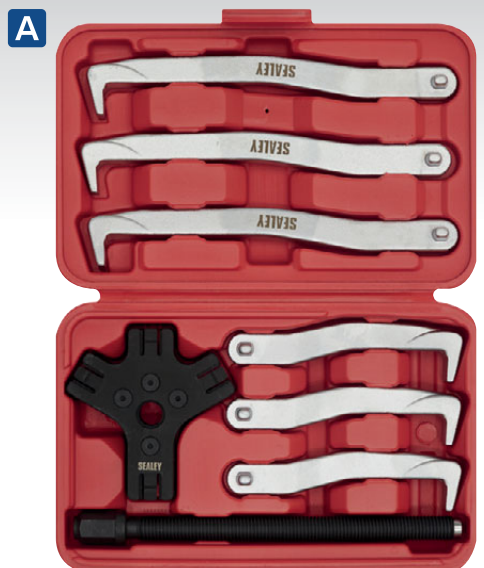
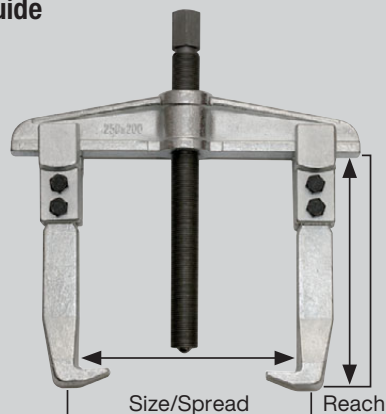
**Twin Leg Reversible Puller Bars**

Heavy-duty twin leg bar type pullers, suitable for easy removal of pulleys, flywheels, bearings and gears. Drop-forged Chrome Vanadium steel. Heat treated for added strength. Zinc plated for corrosion resistance. Thrust bearing prevents wear and damage to shaft.

Model No:	Size/Spread:	Reach:
AK46080	80mm	100mm
AK46120	120mm	100mm
AK46150	150mm	150mm
AK46200	200mm	150mm

**HEAVY  
DUTY**

Specification Guide



**A VS83**  
8pc Fast Action Twin/Triple Leg Reversible Puller Set

Drop-forged, Chrome Molybdenum steel reversible legs and body. Suitable for pulling hubs, flanges, gears and bearings. Features ratcheting mechanism to locate and hold the legs in the correct position, making the tool faster and easier to operate than conventional pullers. Supplied in storage case.

Size:	150, 220mm
Reach:	100, 170mm



**B PS9821**  
Hydraulic Bearing Separator/Puller

Forged steel 3-way bearing separator and gear puller set. Operated with supplied 10 Tonne hydraulic ram or manual force screw. Features a selection of extension rods depending on reach required.

Puller Leg Reach:	160mm
Puller Leg Size/Spread:	190mm
Separator Capacity:	30-84mm
Manual Thrust Screw Length:	210mm
Extension Rods:	15, 65, 185, 340mm (3 of each)
Hydraulic Ram:	10 Tonne



10 Tonne  
Hydraulic

**C**  
10 Tonne  
Hydraulic  
Bench Mounting



**C YK10B**  
10 Tonne Bench Type Hydraulic Press

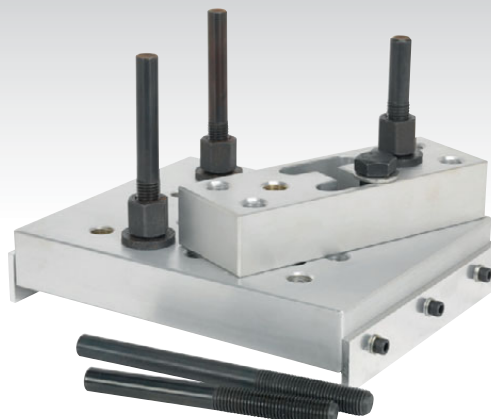
For full details, see page 326.

**A** Fast Action Leaves All Others Behind



Pull leg up to disengage. Pull leg to remove.

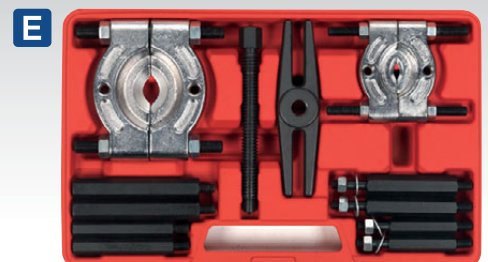
**D**



**D VS7036**  
Universal Press Support Block

Designed to be used with a standard workshop press. Multiple threaded holes in aluminium base plate enable the support bars to be installed in virtually any position, allowing the bearing or bush to be positioned horizontally. Includes a packing block for added versatility. Ideal for the removal of wheel bearings and bushes.

Aluminium Base Plate Size (L x W x H):	250 x 200 x 40mm
Aluminium Packing Block Size (L x W x H):	200 x 70 x 40mm
Support Bar Length:	110mm, 150mm (x3), 190mm



**E PS984**  
12pc Mechanical Bearing Separator/Puller Set

Mechanical puller set with Ø25-50mm and Ø45-75mm separators and single yoke with 170mm thrust bolt. Suitable for engineering, automotive, marine and agricultural applications. Supplied in storage case.

Contents:	Separators; Ø25-50mm, Ø45-75mm, 170mm Thrust Bolt, Extension Bars; 61mm (x2), 82mm (x2), 90mm (x2), 104mm (x2), 160mm Cross Beam	
Separator Size:	Ø25-50mm	Maximum Reach: 220mm
	Ø45-75mm	170mm



**A HP5**  
**5 Tonne Triple Leg Hydraulic Puller**  
 Heavy-duty triple leg 5 Tonne hydraulic puller. Suitable for pulling hubs, flanges, gears and bearings. Supplied with three 2-position puller legs and storage case.  
**Contents:** 230mm Leg (x3), Triple Head, 5 Tonne Ram and Handle, 80mm Leg Connector (x6), Nut and Bolt (x6)



**B HP10**  
**10 Tonne Triple Leg Hydraulic Puller**  
 Heavy-duty triple leg 10 Tonne hydraulic puller. Suitable for pulling hubs, flanges, gears and bearings. Supplied with three 2-position puller legs and storage case.  
**Contents:** 325mm Leg (x3), Triple Head, 10 Tonne Ram and Handle, 115mm Leg Connector (x6), Nut and Bolt (x6)

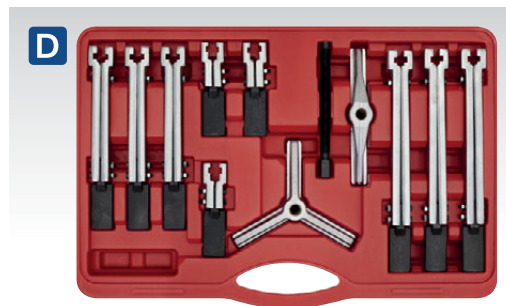


HP5 and HP10 are supplied in sturdy storage case.



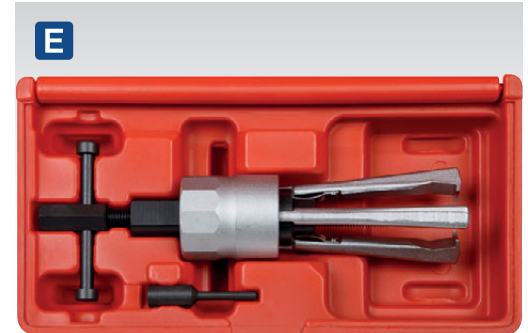
**C PS993**  
**10 Tonne Hydraulic Hub Puller Set**  
 Puller yoke with 10 Tonne hydraulic ram. Suitable for four and five stud hubs. Hydraulic ram provides additional power to extract the most stubborn hubs.  

<b>Minimum/Maximum Stud Spread:</b>	85/128mm
<b>Maximum Hub Flange:</b>	64mm
<b>4-Stud Min./Max. Hole Spacing:</b>	84 -127mm
<b>5-Stud Min./Max. Hole Spacing:</b>	79 -122mm



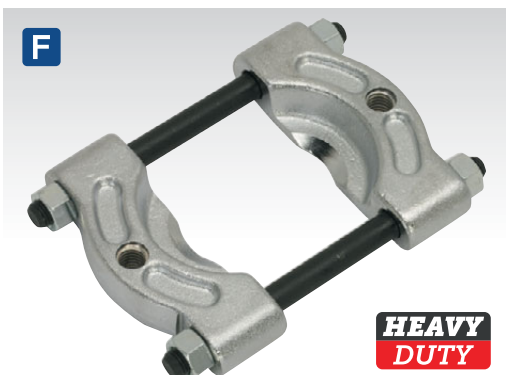
**D PS900**  
**Bearing & Gear Puller Set**  
 Twin/triple leg puller set with reversible legs allowing internal and external pulling operations. Supplied with two and three leg yokes. Thrust bearing prevents wear and damage to shaft. Hex head forcing screws suitable for use with a ratchet or spanner.  

<b>Size/Spread (2 and 3-Leg):</b>	35-130mm
<b>Reach:</b>	100, 209, 259mm
<b>Claw Depth:</b>	8mm
<b>Claw Thickness:</b>	3mm



**E PS995**  
**Ø19-45mm Fast Fit Micro-Puller**  
 Designed for the fast and safe removal of small bearings. Screw press, operated by tommy-bar or by 14mm drive, exerts up to 1 Tonne of pressure. Spring loaded and drop-forged legs are secured around the bearing or gear by a screw collar to prevent slipping and subsequent damage or injury. Supplied with thrust bearing and storage case.  
**Suitable for the following ISO bearings:** 606, 607, 609, 626, 627, 628, 629, 636, 637, 638, 639, 668, 688, 689, 697, 698, 699, 6001, 6002, 6003, 6200, 6201, 6202, 6300, 6301, 6302, 6800, 6801, 6802, 6803, 6900, 6901, 6902, 6903.  

<b>Minimum Leg Spread:</b>	Ø19mm
<b>Maximum Leg Spread:</b>	Ø45mm
<b>Maximum Reach:</b>	71mm



**F SEE BELOW**  
**Bearing Separators**  
 Forged steel jaws. Suitable for removing bearings, gears and bushes from shafts.  

<b>Model No:</b>	<b>Capacity:</b>
PS986	Ø30-50mm
PS987	Ø50-75mm
PS988	Ø75-105mm
PS989	Ø105-150mm



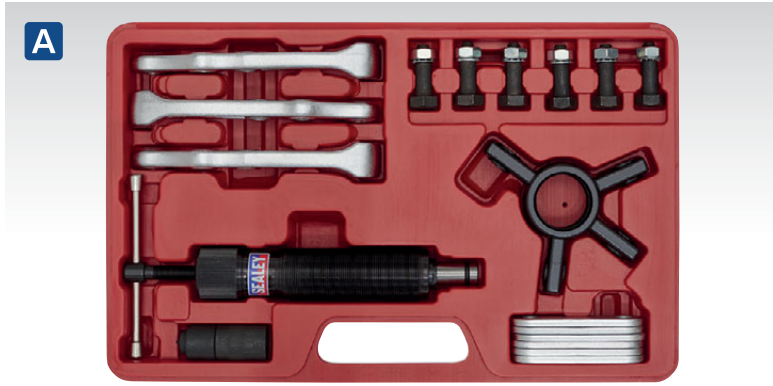
**G VS7022**  
**Universal Bearing Packer**  
 Suitable for packing bearings with an even spread of grease. Clean, quick operation simply place bearing on to the bottom cone, screw down the cone lid and pump grease into nipple. Works on most tapered roller bearings fitted on cars, boats, trailers, etc. Both cones feature knurled grips for use with oily fingers. Suitable for use with Sealey and other best-selling grease guns.  

<b>Maximum Cone Diameter:</b>	Ø104mm
<b>Shaft (Height x Diameter):</b>	60 x Ø11mm



**H VS410**  
**1kg Slide Hammer Locking Pliers**  
 Manufactured from Chrome Vanadium steel. Suitable for a wide variety of applications.  

<b>Jaw Capacity:</b>	40mm
<b>Length:</b>	Pliers Only; 255mm, including Slide Hammer; 600mm



**A PS981**  
19pc Hydraulic Puller Set

Forged steel 2-way yoke allows twin or triple leg pulls. 10 Tonne hydraulic power unit with tommy bar. Suitable for pulling hubs, flanges, gears and bearings. Three 3-position puller arms and three sets of extension plates, supplied in storage case. Hydraulic ram interchangeable with others in series.

Puller Type: 2-Legged		
Size:	Spread:	Reach:
100mm:	50-100mm	0-100mm
150mm:	75-150mm	0-150mm
200mm:	100-200mm	0-200mm
250mm:	150-250mm	0-250mm
Puller Type: 3-Legged		
100mm:	50-100mm	0-100mm
150mm:	75-150mm	0-150mm
200mm:	100-200mm	0-200mm
250mm:	150-250mm	0-250mm

10 Tonne **Hydraulic**



10 Tonne **Hydraulic**

**B PS982**  
25pc Hydraulic Puller Set

Master set of gear pullers and bearing separators supplied in storage case. Forged steel bearing separator. 10 Tonne hydraulic ram compatible with other sets in the range.

**Contents:** 10 Tonne Hydraulic Ram, 100mm Leg (x3), 150mm Leg (x3), 200mm Leg (x3), Twin Head, Triple Head, Extension Rods; 25 x 50mm (x1), 25 x 100mm (x1), Main Rod; 200mm (x4), Beam, Separator 75-105mm, 5/8" Bolt, Ram Service Kit, Ram Nut



10 Tonne **Hydraulic**



**C PS990**  
10 Tonne Hydraulic Ram

Hydraulic ram piston fits all Sealey hydraulic puller sets and is also suitable for use with other popular makes of hydraulic gear pullers. Screw mechanism converts power to 10 Tonne ram head with enough force to remove most stubborn bearings, pulleys and shafts.

**Compatible With:** PS980, PS981, PS982, PS985, VSE127H



**D PS980**  
8pc Hydraulic Bearing Separator/Puller Set

Cast puller yoke with forged separator. Hydraulic ram interchangeable with other units in the series. Supplied with Ø75-105mm bearing separator. Maximum puller depth 420mm. Supplied in metal case.

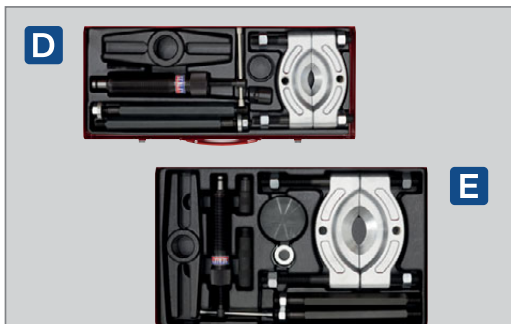
**Contents:** 10 Tonne Hydraulic Ram, Ø75-105mm Separator, 5/8" Bolt, 200mm Extension Rod (x4), Cross Beam



**E PS985**  
10pc Hydraulic Bearing Separator/Puller Set

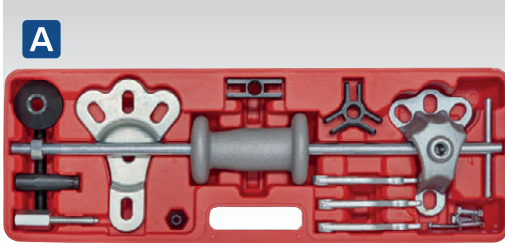
Cast puller yoke with forged separator. Supplied with 10 Tonne hydraulic ram. Suitable for pulling commercial vehicle size bearings from Ø105-200mm. Hydraulic ram interchangeable with other sets in the range. Maximum puller depth 420mm. Supplied in metal case.

**Contents:** 10 Tonne Hydraulic Ram, Separator Ø105-200mm, Plug, Extension Rod 250mm (x4), Cross Beam



PS980 and PS985 are supplied in strong, steel cases.

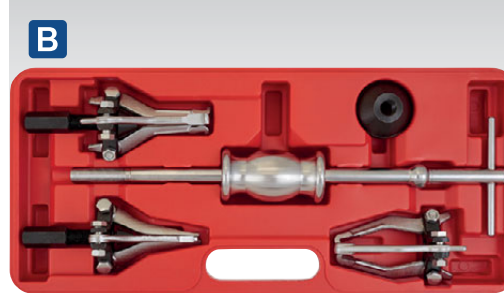




**A PS983**  
**10pc Slide Hammer/Puller Set**

2.3kg Slide hammer with 580mm shaft. Use eight ways: external three leg puller, internal three leg puller, external two leg puller, internal two leg puller, grip wrench adaptor, lip puller, hub puller, dent puller. Supplied in storage case.

<b>Twin Leg:</b>	
<b>Internal Capacity:</b>	Ø35-110mm Reach: 83mm
<b>External Capacity:</b>	Ø35-110mm Reach: 83mm
<b>Triple Leg:</b>	
<b>Internal Capacity:</b>	Ø50-135mm Reach: 83mm
<b>External Capacity:</b>	Ø30-110mm Reach: 83mm



**B PS992**  
**5pc Slide Hammer Gear/Bearing Puller Set**

Drop-forged Chrome Vanadium steel puller arms with locking/gripping feature. Set includes three sets of 100mm triple leg pullers with locking features which clamp the jaws firmly inside/outside the gear or bearing. Includes 1.2kg slide hammer. Supplied in storage case.

<b>Internal Pullers:</b>	<b>Capacity:</b>
<b>100mm Triple Leg:</b>	Ø15-40mm, Ø29-100mm
<b>External Puller:</b>	<b>Capacity:</b>
<b>100mm Triple Leg:</b>	Ø20-130mm



**C AK716**  
**12pc Blind Bearing Puller Set**

Medium stroke 1.5kg slide hammer with 395mm shaft and a screw-type bridge extractor. Gently removes blind bearings where the use of a slide hammer may damage the surrounding material.

<b>Collet Diameter:</b>	Ø8-9.5, 10-11.5, 12-13.5, 15-16, 17-18.5, 20-23, 24.5-27, 30-32, 32-34mm
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**D PS979**  
**49pc Harmonic Balancer Puller Set**

Multipurpose puller set for extracting flywheels and pulleys. Supplied in storage case.

**Contents:** Yoke, 130mm Thrust Bolt, Centring Adaptors; Small, Large, Flat, Bolts; 1/4" x 28 x 2-12" (x2), 5/16" x 18 x 3-1/2" (x2), 5/16" x 18 x 5-1/2" (x2), 3/8" x 16 x 2" (x3), 3/8" x 16 x 3" (x2), 3/8" x 16 x 4-1/2" (x5), 3/8" x 24 x 1-1/2" (x3), M8 x 1.25 x 45mm (x3), M8 x 1.25 x 65mm (x2), M8 x 1.25 x 90mm (x3), M10 x 1.5 x 35mm (x3), Washers; Ø8mm ID (x6), Ø10mm ID (x4), Ø12mm ID (x4)

<b>Minimum/Maximum Size/Spread:</b>	40/93mm
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**E AK999**  
**10pc Blind Bearing Removal Tool Kit**

Suitable for removal of a variety of blind bearings where traditional bearing and gear pullers will not reach. Ball-end tips fit inside bearing races to provide traction for bearing extraction. Chrome Vanadium steel components. Ideal for a wide variety of bearing sizes. Supplied in storage case.

**Applications:** 6004-6010, 6201-6206, 6300-6302



**F PS977**  
**18pc Combined Puller Set**

Steering wheel yoke manufactured from drop-forged carbon steel. Suitable also as two or 3-way puller for removal of pulleys and flywheels from small engines. The larger ductile steel yoke is suitable for pulling harmonic balancers, timing gears and various other components. Supplied in storage tray.

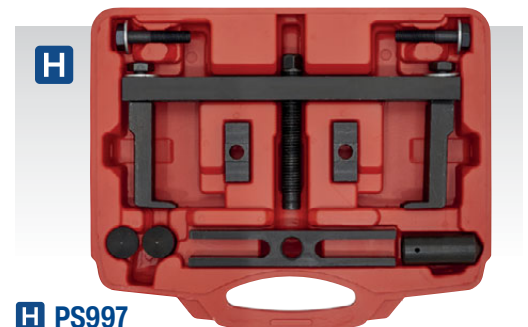
<b>Contents:</b>	Yoke, Thrust Bolt, Screw 5/16" x 24 x 3" (x2), Screw 3/8" x 16NC x 3" (x2), Screw 5/16" x 18NC x 3-1/2" (x2), Harmonic Balancer Application; Yoke, Thrust Bolt, Adaptor, Screw 3/8" x 24 x 3" (x3), Screw 3/8" x 16 x 3" (x3)
<b>Minimum/Maximum Spread:</b>	32/65, 38/117mm



**G AK714**  
**5pc Blind Bearing Puller Set**

Fully chromed carbon steel medium stroke slide hammer. 370mm Overall length with 0.85kg hammer. Bearing extractor collets with internal capacity from Ø11-32mm. Supplied in storage case.

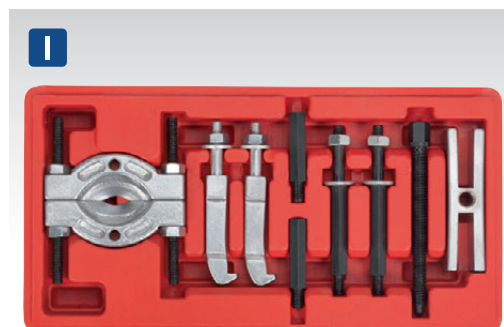
<b>Collet Diameter:</b>	Ø11-16mm (3/8 - 1/2"), 15-19mm (9/16 - 11/16"), 18-25mm (5/8 - 1"), 26-32mm (1- 1-1/4")
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**H PS997**  
**12pc Crankshaft Pulley Removal Tool Set**

Enables fast and simple removal of crankshaft and auxiliary pulleys - even in a confined space. Chrome Molybdenum legs with thin jaws allow removal of pulleys with narrow tolerance between pulley and block. Supplied in storage case.

<b>Depth Range:</b>	68-88mm
<b>Diameter Range:</b>	Ø40-120mm, Ø132-195mm



**I PS996**  
**9pc Mini Bearing Separator Set**

Compact set containing bearing separator, yoke and extensions. Chrome Vanadium components ensure long tool life. Also suitable for removing small gears, wheels and fittings from shafts. Supplied in storage case.

<b>Contents:</b>	Ø15-58mm Separator, 50mm Jaw (x2), Thrust Screw, 45mm Extension Rod (x2), 34mm Extension (x2), Cross Beam
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**A CSC5**

**2pc Lightweight Front Seat Protector Set**

Set includes two reusable front seat covers. Manufactured from water-resistant lightweight nylon. Ideal for protecting the vehicle's interior from dirt, grease and oil, as well as food and drink spills. Suitable for most cars and light commercial vehicles. Can be fitted to seats with or without airbags.



**B CSC6**

**2pc Heavy-Duty Front Seat Protector Set**

Set includes two reusable front seat covers. Manufactured from heavy-duty water-resistant nylon. Ideal for protecting the vehicle's interior from dirt, grease and oil, as well as food and drink spills. Suitable for most cars and light commercial vehicles. Can be fitted to seats with or without airbags.



**C CSC7**

**2pc Heavy-Duty Van Seat Protector Set**

Set includes driver and twin passenger reusable seat covers. Manufactured from a heavy-duty waterproof nylon. Ideal for protecting the vehicle's interior from dirt, grease and oil, as well as food and drink spills. Also helps to protect against general wear and tear of a vehicle's interior when getting in or out. Ideal protection against dirty overalls.

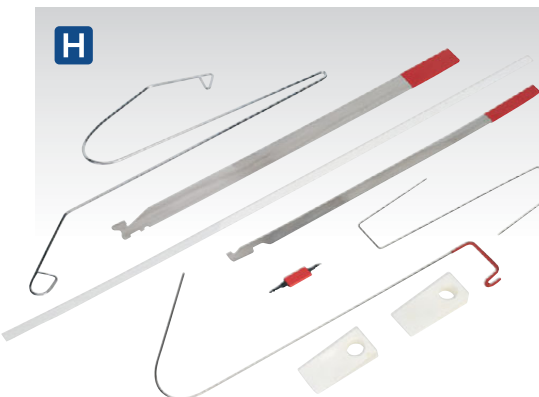


**D-G SEE BELOW**

**Panel Bag Sets**

Multipurpose durable air cushion devices with rigid edges and fine air control valve. Suitable for positioning panels, bonnets and boots, prior to fitment. 2mm Thickness and semi-rigid construction allow bags to be slid between window frame and weather-stripping for improved access for emergency vehicle opening tools. Soft air cushion is gentle on paintwork, frame, beadings and glass. Can also be used for positioning kitchen units, windows and doors.

	<b>D</b>	<b>E</b>	<b>F</b>	<b>G</b>
<b>Model No:</b>	VS9111	VS9112	VS9113	VS9114
<b>Load Capacity:</b>	135kg	135kg	135kg	135kg
<b>Dimensions (W x H):</b>	115 x 190mm	150 x 165mm	128 x 270mm	128 x 270mm, 150 x 165mm, 115 x 190mm
<b>Minimum/Maximum Thickness:</b>	2/60mm	2/70mm	2/80mm	2/80mm



**H EC95**

**Emergency Car Opening Kit**

Will open a comprehensive range of European and Japanese cars. Supplied in pouch.

**Contents:** Window Wedges, Strip Type Catches, Wire Catches, Plastic Knob Catch, Fuel Cap Keys

**I VS5212**

**Airbag Removal Tool - Land Rover**

For safely removing the airbag module from the steering wheel. Suitable for Land Rover Discovery 3-4, Freelander 2 and Range Rover Sport. Land Rover OEM tool 501-106. Also used across the VAG ranges as a trim, door handle, A/C vent, clock removal, fuel tank flap removal/release tool. VAG OEM tool T40207.





**A**

Magnetic



**A VS8503**  
**Magnetic & Suction Grip Workshop Wing Cover**

Soft-faced vinyl material prevents scratching and marking of paintwork during servicing. Unique design featuring a cut-out, allowing access to wheel whilst in place. Wing cover can be held in place with eight integral magnets, four suction grips or a combination of both. Ideal for metal and plastic wings or securing onto headlight covers.

Size (W x H): 1050 x 590mm



**B**



**B VS8501**  
**Non-Slip Wing Cover**

Fits over car wing to protect against marking and scratching of the paint finish. Manufactured from water-resistant nylon with a non-slip foam lining. Resistant to water, oil and grease.

Size (W x H): 800 x 450mm



**C**



**C VS8502**  
**Non-Slip Wing/Grille Cover**

Fits over car wing or grille to protect against marking and scratching of the paint finish. Manufactured from water-resistant nylon with a non-slip foam lining. Resistant to water, oil and grease.

Size (W x H): 1200 x 500mm



**D**

Magnetic



**D VS855**  
**Magnetic Workshop Wing Cover**

Soft-faced vinyl material prevents scratching and marking of paintwork during servicing. Wing cover held in place by integral magnets.

Size (W x H): 1070 x 400mm



**E**

Magnetic



**E VS856**  
**Magnetic Workshop Wing Cover with 4 Pockets**

Soft-faced vinyl material prevents scratching and marking of paintwork during servicing. Wing cover held in place by integral magnets. Features four pockets for holding tools while working on car.

Size (W x H): 1065 x 600mm



**A NEW****Premier**

31mm

**A VS8583****31mm Premier Folding Mechanic's Work Mat**

Flexible premier work mat with five folds for easy storage. EVA foam padding for added comfort and hard wearing. Two storage compartments ideal to place fittings when working of the floor. Ideal for working on cold garage floors and for roadside repairs.

Size (L x W x D):

1200 x 565 x 31mm

**B NEW**

23mm

**B VS8582****23mm Folding Mechanic's Work Mat**

Flexible work mat with five folds for easy storage. EVA foam padding for added comfort and hard wearing. Ideal for working on cold garage floors and for roadside repairs.

Size (L x W x D):

1200 x 455 x 23mm

**C NEW**

23mm

**C VS8581****23mm Folding Mechanic's Kneeling Mat**

Flexible kneeling mat with one fold for easy storage. EVA foam padding for added comfort and hard wearing. Ideal for working on cold garage floors and for roadside repairs.

Size (L x W x D):

500 x 230 x 23mm

**D NEW**

40mm

**D VS8597****40mm Premium EVA Kneeling Mat Large**

Premium 40mm shock absorbing EVA large kneeling mat. Neoprene wipe clean material. Suitable for workshop, home and garden. Cut-out handle.

Size (L x W x D):

800 x 380 x 40mm

**E NEW**

40mm

**E VS8595****40mm Premium EVA Kneeling Mat**

Premium 40mm shock absorbing EVA kneeling mat with cut-out handle. Neoprene wipe clean material. Suitable for workshop, home and garden.

Size (L x W x D):

470 x 280 x 40mm





**A** 35mm



**B** 38mm



**C** 28mm

**A VS860**

**35mm Folding Mechanic's Mat with Headrest**

Portable foldable work mat with headrest. Can be used folded for kneeling or, unfolded for under vehicle work. Ideal for working on cold garage floors or for roadside repairs. Folds away neatly with hook-and-loop straps when not in use.

<b>Folded (L x W x D):</b>	660 x 444 x 70mm
<b>Unfolded (L x W x D):</b>	1220 x 444 x 35mm

**B VS858**

**38mm Folding Mechanic's Work Mat**

Flexible work mat with two handles for portability. Durable composite cover that resists stains and fluids. High-density padding for added comfort. Ideal for working on cold garage floors and for roadside repairs.

<b>Folded (L x W x D):</b>	610 x 444 x 76mm
<b>Unfolded (L x W x D):</b>	1220 x 444 x 38mm

**C VS8590**

**28mm EVA Mechanic's Mat**

Quality 28mm EVA mat ideal for the busy mechanic. Oil and water-resistant. Suitable for use on workshop floor when working on wheels, brakes, tyres and exhausts. Also ideal for roadside repairs.

<b>Size (L x W x D):</b>	990 x 490 x 28mm
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**D** 22mm

**D S08561**

**22mm EVA Mechanic's Mat Set**

Quality 22mm EVA mats ideal for the busy mechanic. Oil and water-resistant. Set comprises of full length and kneeler mats for use on workshop floors when working on wheels, brakes, tyres and exhausts. Also ideal for roadside repairs.

<b>Contents:</b>	
<b>Kneeler Mat (L x W x D):</b>	450 x 215 x 22mm
<b>Full Length Mat (L x W x D):</b>	980 x 380 x 22mm



**E** 28mm

**E VS8571**

**28mm EVA Mechanic's Mat Set**

Quality 28mm EVA mats ideal for the busy mechanic. Oil and water-resistant. Set comprises of full length and kneeler mats for use on workshop floors when working on wheels, brakes, tyres and exhausts. Also ideal for roadside repairs.

<b>Contents:</b>	
<b>Kneeler Mat (L x W x D):</b>	450 x 215 x 28mm
<b>Full Length Mat (L x W x D):</b>	980 x 380 x 28mm



**F** 28mm

**F VS8573**

**28mm EVA Mechanic's Kneeling Mat**

Quality 28mm EVA kneeling mat ideal for the busy mechanic. Oil and water-resistant. Suitable for use on workshop floor when working on wheels, brakes, tyres and exhausts. Also ideal for roadside repairs.

<b>Size (L x W x D):</b>	450 x 215 x 28mm
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**G** 22mm

**G S08563**

**22mm EVA Mechanic's Kneeling Mat**

Quality 22mm EVA kneeling mat ideal for the busy mechanic. Oil and water-resistant. Suitable for use on workshop floor when working on wheels, brakes, tyres, exhausts etc. Also ideal for roadside repairs.

<b>Size (L x W x D):</b>	450 x 215 x 22mm
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