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EXCLUSIVE DEALER EDITION

ENGINE ADJUSTMENT TOOLS

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Then here we go, Brudi! With **BRILLIANT TOOLS**, **KS Tools** offers both the ambitious handyman as well as the professional from the trades and the automotive sector an attractive range of tools at a sensationally good price-performance ratio.

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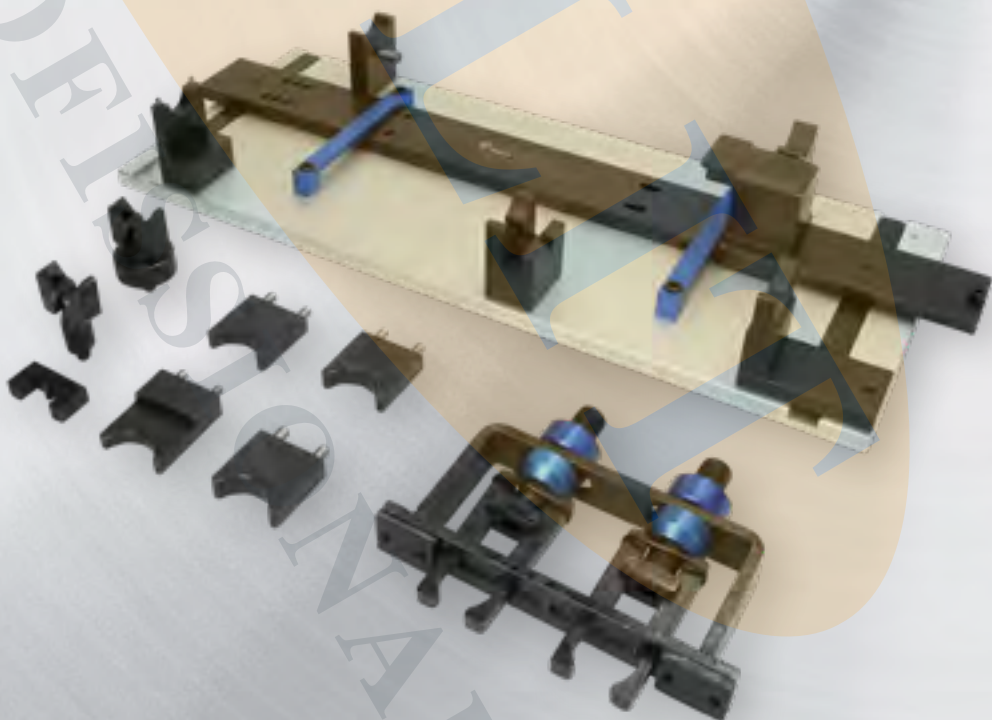
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Regardless of whether you are a handyman, craftsman or mechanic or everything together:

In the BRILLIANT TOOLS range you will find professional tools of the highest quality for your DIY projects or in the hard everyday work in the workshop or on assembly.





Vanessa Lumizio,
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Each tool has more than a quarter of a century of experience from our experts in the craft and automotive sectors. This uncompromising quality is one of BRILLIANT TOOLS - recipes for success.

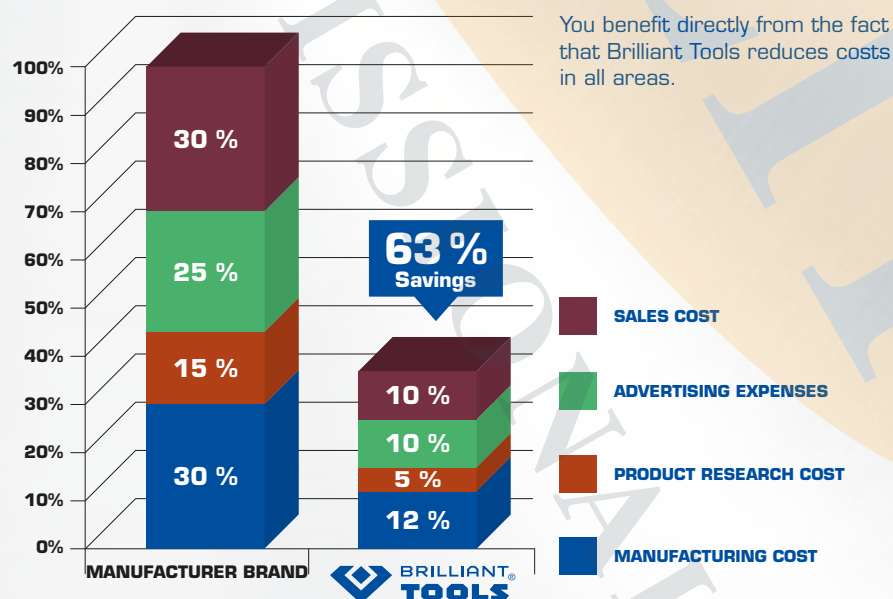
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ALFA ROMEO



ART.NR	ITEM NAME
BT591350	Engine adjustment tool set for Fiat, Lancia, Alfa Romeo

FOR THE FOLLOWING MODELS

Alfa Romeo 145 1.4, 1.6 16V Step A – 2013 146 1.4, 1.6 16V Step A – 2013 147 1.6 16V Step A – 2013 147 105 PS – 2013 147 1.6 eco 103 PS – 2013 155 1.4, 1.6 16V Step A – 2013 156 1.6 16V Step A – 2013 156 1.8, 2.0 16V – 2013 156 2.0 JTS – 2013 166 2.0 – 2013 GTV 2.0 JTS – 2013 Spider GT 2.0 JTS 16V 165 PS

Lancia K5 2.0 20V, 4-cylinder, VIS engines from year of construction 1996 onwards, Delta 1.8 16V Step A, Dedra 1.8 16V Step A, Y10 1.4 12V

Fiat Bravo 1.4 12V, 2.0 20V – 2013 Brava 1.4 12V, 2.0 20V – 2013 Marea 2.0 20V, Coupe 1.8 16V, Barchetta 1.8 16V, Punto 1.8 16V

DESCRIPTION

Special insert, drive square socket 12.5 mm (1/2– 201d) for dismantling the phaser

23 precisely fitting locking devices for the feed and discharge camshaft

prevent the camshafts from twisting after assembly and position them in assembly position for the toothed belt.

The locking devices are labelled with numbers and additionally colour-coded to avoid confusion

The OT point adjustment mandrel and a micrometer clock (not scope of delivery) makes a precise alignment of the crankshaft possible

DELIVERY SCOPE

Cam shaft locking devices, use as OEM 1 825 041 000, 1 825 042 000, 1 860 096 100, 1 860 819 000, 1 860 847 000, 1 860 892 000, 1 860 899 000, 1 870 797 000

Bracket for dial gauge for adjusting the piston OT (requires dial gauge), use as 1 860 895 000, 1 895 879 000, 1 825 013 000

Insert for phaser, use as OEM 1 822 110 000, 1 852 161 000



ART.NR	ITEM NAME
BT591250	Engine adjustment tool set for Alfa Romeo 1.4, 1.6, 1.8, 2.0 Twin-Spark

DESCRIPTION

For adjusting engine timing when replacing the toothed belt, repairing the cylinder head, replacing the cylinder head seal, etc.

Suitable for Alfa Romeo models 145, 146, 147, 155, 156, 166, Spider, GTV

Fits Twin Spark engines 1.4, 1.6, 1.8, 2.0 I 16V Twin Cam, engine code 162.01, 322.01, 323.01, 323.10 /335.03, 671.06, 672.04, 676.01

DELIVERY SCOPE

Tool for toothed belt tensioner, use as OEM 1822149000

Tool for balance shaft, use as OEM 1822154000

Camshaft interlock (purple), use as OEM 1825042000

Camshaft interlock (blue), use as OEM 1825041000



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ART.NR	ITEM NAME
BT595703	Camshaft locking tool for Opel 1.6, 1.8

DESCRIPTION

Contains important tools for inspecting and adjusting the engine timing

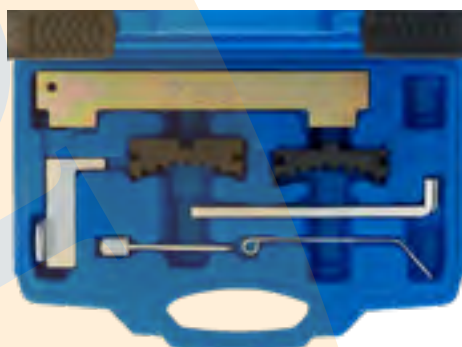
Suitable for Opel Astra G/H, Corsa D, Insignia, Meriva, Signum, Tigra, Vectra C, Zafira B (2003-2012) with engine codes A16LET, A16XER, Z16LEL, Z16LER, Z16LET, Z16XE, Z16XE1, Z16XEP, Z16XER, Z18XER, A18XER

Also suitable for Alfa Romeo 159, Fiat Croma with engine code 939A4.000

DELIVERY SCOPE

Camshaft interlock, use as OEM KM-6340, EN-6340, 2000012100

Tensioning element interlock, use as OEM KM-6333, EN-6333



ART.NR	ITEM NAME
BT591300	Engine adjustment tool set for Opel 1.6, 1.8

DESCRIPTION

Contains tools for locking the camshaft and crankshaft

Suitable for 1.6 and 1.8 L engines with toothed belt control, installed in models from Opel, Vauxhall, Chevrolet, Fiat, Alfa Romeo (2003-2012), e.g. Astra G, H, Corsa D, Insignia, Meriva, Signum, Vectra C, Zafira B (2003-2011)

Suitable for Chevrolet Cruze, Orlando 1.4 1.6 1.8 and Fiat Croma, Alfa Romeo 159 with 939A4.000 engines

Use as OEM tools KM-6628-A, 2000012000, KM-6340, 2000012100, KM-6333, KM-6625, 2000012800, KM-6349, KM 6130, KM-911



ART.NR	ITEM NAME	
BT594450	Engine adjustment tool set for Fiat, Opel, Alfa 1.9, 2.4 16V Diesel	

FOR THE FOLLOWING MODELS

Opel 1.9 CDTi Z19DT, Z19DTH, Z19DTJ

Alfa-Romeo 1.9 and 2.4 L diesel with engine code: 323.02, 371.01, 342.02, 325.01, 362.02, 182B9.000, 937A2.000, 937A3.000, 192A5.000, 192B1.000, 937A4.000, 937A5.000, 939A2.000, 939A1.000, 939A7.000, 939A8.000, 839A6.000, 841C.000

Fiat 1.9 and 2.4 L diesel with engine code: 182B4.000, 182B9.000, 185A6.000, 186A6.000, 186A8.000, 186A9.000, 188A2.000, 188A7.000, 188B2.000, 192A1.000, 192A3.000, 192A5.000, 192A8.000, 192A9.000, 192B4.000, 192B5.000, 198A2.000, 198A3.000, 198A6.000, 199A5.000, 223A7.000, 937A5.000, 939A1.000, 939A2.000, 939A3.000, 939A7.000

DESCRIPTION

For adjusting the engine timing e.g. when replacing the toothed belt, repairing the cylinder head, etc.

DELIVERY SCOPE

Crankshaft interlock, use as OEM Opel EN-46788, Fiat 1.860.905.000, 1.860.905.010

Flywheel interlock, use as OEM Fiat 1.860.898.000

Camshaft interlock, use as OEM Opel EN-46789, Fiat 1.870.896.900

Marking mandrel Ø 3.7mm x 70mm, use as OEM Opel KM 6130, KM 6349



ART.NR	ITEM NAME	
BT592700	Engine adjustment tool set for Alfa Romeo, Fiat 1.4 MultiAir	

FOR THE FOLLOWING MODELS

Alfa Romeo Giulietta, Mito, Fiat Punto, Punto Evo 1.4 (Turbo) MultiAir (105/135/163/170PS)

Engine codes: 940A2.000, 940A2.000, 955A8.000, 955A8.000, 940A2.000, 955A8.000, 955A2.000, 955A7.000, 955A6.000, 955A8.000

DESCRIPTION

For adjusting the engine timing when replacing the toothed belt

DELIVERY SCOPE

Camshaft adjustment tool including 3 fastening screws, use as OEM 2000034400

Crankshaft locking tool including 4 fastening screws, use as OEM 2000004500

Tension roller key, use as OEM 1860987000



ART.NR	ITEM NAME	
BT591215	Engine adjustment tool set for Alfa Romeo 2.0 JTS	

FOR THE FOLLOWING MODELS

Alfa Romeo 156, GT, GTV, Spider 2.0 JTS (165 PS) with engine codes: 937A1000, 932A2000

DESCRIPTION

For checking and adjusting the camshaft timing
Needed when replacing the toothed belt

DELIVERY SCOPE

Balance shaft belt clamping tool, use as OEM 1822154000

Toothed belt clamping tool, use as OEM 1822149000

Intake camshaft locking block, use as OEM 1860856001

Exhaust camshaft locking block, use as OEM 1860831002



ART.NR	ITEM NAME	
BT591210	Camshaft locking tool set for Alfa Romeo 1.6i ECO	

FOR THE FOLLOWING MODELS

Alfa Romeo 147 (937) 1.6L 77KW ECO Twin Spark

DESCRIPTION

For adjusting and checking the engine timing
Use as OEM 1870797000

DELIVERY SCOPE

Camshaft adjustment tool for intake cam 3-cylinder

Camshaft adjustment tool for exhaust cam 2-cylinder



ART.NR	ITEM NAME	
BT591220	Camshaft locking tool set for Alfa Romeo 147 1.6 105 PS	

FOR THE FOLLOWING MODELS

Alfa Romeo 147 1.6 105 PS

DESCRIPTION

For checking and adjusting the camshaft timing
Needed when replacing the toothed belt

DELIVERY SCOPE

Intake and exhaust camshaft locking block, use as OEM 1870797000





SUITABLE FOR:



SUITABLE FOR:



ART.NR	ITEM NAME
BT591225	Camshaft locking tool set for Fiat, Lancia 1.8l 130 PS

FOR THE FOLLOWING MODELS

Fiat, Lancia 1.8L 16V 130PS

DESCRIPTION

For checking and adjusting the camshaft timing
Use as OEM 1860847000

DELIVERY SCOPE

Camshaft adjustment tool for intake cam 2-cylinder
Camshaft adjustment tool for exhaust cam 3-cylinder

ART.NR	ITEM NAME
BT591235	Camshaft locking tool set for Alfa Romeo 2.0l 16V JTS

FOR THE FOLLOWING MODELS

Alfa Romeo 147, 156, 166, GTV, Spider GT with 2.0 16V JTS (165 PS) engine

DESCRIPTION

For checking and adjusting the camshaft timing
Use as OEM 1870859000

DELIVERY SCOPE

Camshaft adjustment tool for intake cam 2-cylinder
Camshaft adjustment tool for exhaust cam 3-cylinder



SUITABLE FOR:



ART.NR	ITEM NAME
BT591245	Camshaft locking tool set for Alfa Romeo, Lancia 3.0 V6 24V

FOR THE FOLLOWING MODELS

Alfa Romeo, Lancia 3.0L V6 24V

DESCRIPTION

For checking and adjusting the camshaft timing
Use as OEM 1825040000

DELIVERY SCOPE

Camshaft adjustment tool for intake cam 1-cylinder
Camshaft adjustment tool for exhaust cam 1-cylinder
Camshaft adjustment tool for intake cam 6-cylinder
Camshaft adjustment tool for exhaust cam 4-cylinder



SUITABLE FOR:



SUITABLE FOR:



ART.NR	ITEM NAME
BT591230	Camshaft locking tool set for Alfa Romeo 1.6l 16V

FOR THE FOLLOWING MODELS

Alfa Romeo 145, 146, 147, 156 1.6 16V (Step „A“)

DESCRIPTION

For checking and adjusting the camshaft timing
Use as OEM 1870734000

DELIVERY SCOPE

Camshaft adjustment tool for intake cam 2-cylinder
Camshaft adjustment tool for exhaust cam 3-cylinder

ART.NR	ITEM NAME
BT591240	Camshaft locking tool set for Alfa Romeo 1.8l, 2.0l 16V

FOR THE FOLLOWING MODELS

Alfa Romeo 147, 156 1.8 16V (140 PS), 1.8 16V (144 PS), 2.0 16V (150 PS), 2.0 16V (155 PS)

DESCRIPTION

For checking and adjusting the camshaft timing
Use as OEM 1825041000

DELIVERY SCOPE

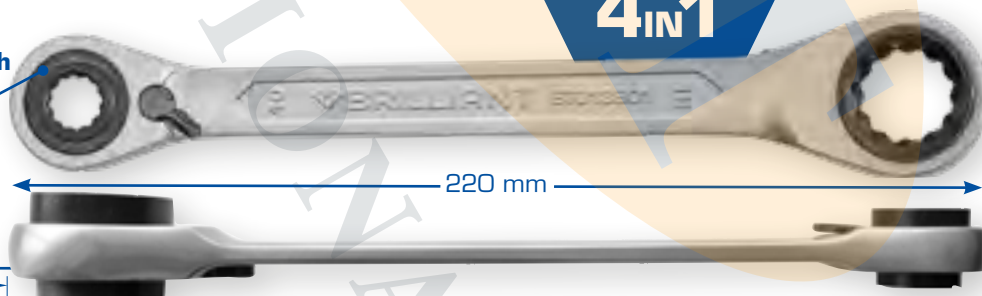
Camshaft adjustment tool for intake cam 2-cylinder
Camshaft adjustment tool for exhaust cam 3-cylinder



**FROM OUR
HAND TOOLS
CATALOG**



BT013901 • EAN 4042146774052 4in1 Double ratcheting box-end wrench



	A1 mm	A2 mm	← L → mm	EAN 4042146+
10x13 mm 17x19 mm	20,0	17,0	220,0	774052



ART.NR	ITEM NAME
BT591260	Camshaft sprocket locking tool set, universal

FOR THE FOLLOWING MODELS

Can be used universally on vehicles from the following manufacturers: Audi, Alfa Romeo, Chrysler, Citroën, Ford, Honda, Hyundai, Isuzu, Land Rover, Lexus, Mazda, Mitsubishi, Peugeot, Renault, MG, Seat, Škoda, Subaru, Toyota, Opel, Volkswagen, Volvo

DESCRIPTION

For locking the camshaft sprockets e.g. when replacing the toothed belt

Suitable for engines with 1, 2 and 4 camshafts (V engines); also suitable for locking between the camshaft sprocket and diesel injection pump wheel in some diesel engines

DELIVERY SCOPE

Double camshaft locking tool with short and long connecting arm

Single camshaft locking tool with short and long locking screw

AUDI



SUITABLE FOR: **Universal**

ART.NR	ITEM NAME
BT596002	Universal camshaft wheel puller

DESCRIPTION

For pulling the pulley and camshaft gear

Gripping arms are connected with each other via adjusting disk, thus the gripping arms can be set easily and exactly

Continuous adjustment range of the gripping arms from 42 – 2013 82 mm

Gripping arm depth is 27 mm

DELIVERY SCOPE

3 x gripping arms, Ø 12 mm, M10 x 1.5, suitable for material thickness up to max. 10 mm

6-groove puller body with adjusting disc

Spindle, M14 x 1.5, 19 mm hex, with centring cone



SUITABLE FOR: **Audi SEAT SKODA Volkswagen**

ART.NR	ITEM NAME
BT595850	Camshaft control valve inserts for VAG 1.8, 2.0 TFSI, TSI

FOR THE FOLLOWING MODELS

Audi A3, A4, A5, Q5, TT, Seat Altea, Leon, Toledo, Exeo, Škoda Octavia II, Superb II, Yeti, Volkswagen Eos, Golf, Jetta, Passat, Scirocco, Sharan, Tiguan

DESCRIPTION

For fitting/removal of the 4/3-way central valve of the camshaft adjustment

Suitable for 1.8, 2.0 L 4-cylinder fuel injection and direct injection engines with timing chain, installed in the following models:



SUITABLE FOR: **Audi Volkswagen SEAT SKODA**

ART.NR	ITEM NAME
BT561006	Ignition coil extractor for VAG

DESCRIPTION

For pulling off ignition coils on VAG models from year of construction 2013 onwards

Pin-shaped for insertion into the ignition coil fixing hole

Suitable for 4-cylinder 1.2, 1.4, 1.8, 2.0 FSI, TFSI engines, installed in e.g. VW Golf, Audi A3, Seat Leon, Škoda Octavia

Use as OEM T10530



SUITABLE FOR: **Volkswagen**

ART.NR	ITEM NAME
BT595800	Engine adjustment tool set for Volkswagen 1.2

DELIVERY SCOPE

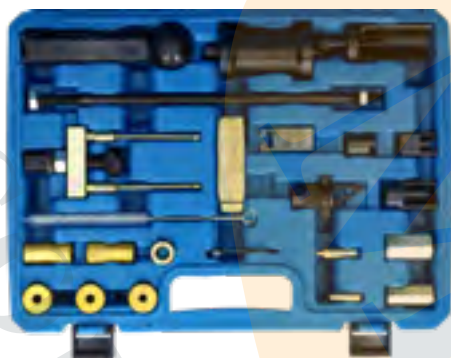
Can also be used as a replacement for Art. BT597800

Use as OEM T10123



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ART.NR	ITEM NAME
BT551360	FSI nozzle assembly and disassembly set

DESCRIPTION
VW, Audi, Seat, Škoda with petrol direct injection and engines with a pump/nozzle unit
Use as tools OEM T10133 + T10163

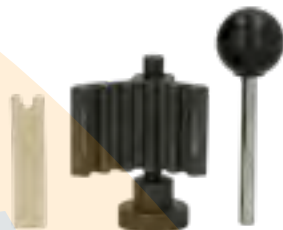
DELIVERY SCOPE
Puller for dismantling FSI nozzles, use as T10133/1
Extractor claw for dismantling FSI nozzles, use as T10133/2
Slide hammer, use as T10133/3
Assembly cone for fitting the combustion chamber sealing rings, use as T10133/5
Calibration sleeves for fitting the combustion chamber sealing rings, use as T10133/6, T10133/7, T10133/8
Fitting mandrel for fitting the FSI nozzles, use as T10133/9
Puller for removing pump/nozzle units



ART.NR	ITEM NAME
BT591080	Engine adjustment tool set for VAG

DESCRIPTION
VAG 2.0 L TDI and some 1.9L TDI with oval crankshaft wheel

DELIVERY SCOPE
Interlock tool for crankshaft wheel, use as OEM T10100
Interlock mandrel for pump wheel, use as OEM 3359
Interlock plate for tensioning roll, use as OEM T10008



ART.NR	ITEM NAME
BT597100	Engine adjustment tool set for VAG

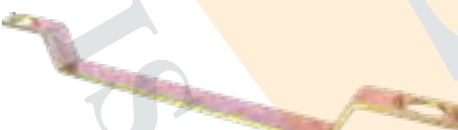
DESCRIPTION
VAG 1.2 1.4 1.9 L TDI with round crankshaft wheel

DELIVERY SCOPE
Interlock tool for crankshaft wheel, use as OEM T10050
Interlock mandrel for pump wheel, use as OEM 3359
Interlock plate for tensioning roll, use as OEM T10008



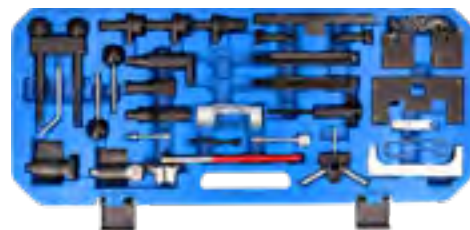
ART.NR	ITEM NAME
BT597152	Locking tool for crankshaft timing belt pulleys for VAG

DESCRIPTION
VAG 1.2, 1.4, 1.9 L TDI with round crankshaft wheel
Use as OEM T10050



ART.NR	ITEM NAME
BT591010	Camshaft fixing tool for Audi, VW

DESCRIPTION
Needed for changing the toothed belt in Audi and VW models with the following engines: AUDI A4 2.4 2.8 year of construction 1997, 2002, A6 2.4 year of construction 1997, 2002, A6 2.8 year of construction 1997, 2002, A8 2.8 year of construction 1997, 2002, S4 2.7 Turbo year of construction 1997, 2001 or Volkswagen with ACK, ALG, APR, AQD engines, and Passat 2.4 year of construction 1996, 2002, Passat 2.8 30v year of construction 1996, 2001
The camshaft cannot turn while the toothed belt is being fitted
Easy, accurate fitting of the toothed belt



ART.NR	ITEM NAME
BT597800	Engine adjustment tool set for VAG

FOR THE FOLLOWING MODELS
1.9L, 2.0L TDI pump/nozzle
1.9L TDI, 2.5L V6-TDI, 3.3L V8-TDI
1.2L 3-cylinder and 1.4, 1.6L petrol engines

ENGINE CODES
OE-Code Audi: 2065A, T10008, T10016, T10020, T10050, T10060A, T10098, T10100, T10120, T10121, T10264, T10265, T40011, 2064, 3242, 3359, 3366, 3369, 3418, 3458, T10123
OE-Code Seat: 2065A, T10008, T10016, T10020, T10050, T10060A, T10098, T10100, T10120, T10121, T10264, T10265, T40011, 2064, 3242, 3359, 3366, 3369, 3418, 3458, T10123
OE-Code Škoda: 2065A, T10008, T10016, T10020, T10050, T10060A, T10098, T10100, T10120, T10121, T10264, T10265, T40011, 2064, 3242, 3359, 3366, 3369, 3418, 3458, T10123
OE-Code Volkswagen: 2065A, T10008, T10016, T10020, T10050, T10060A, T10098, T10100, T10120, T10121, T10264, T10265, T40011, 2064, 3242, 3359, 3366, 3369, 3418, 3458, T10123

DELIVERY SCOPE
Camshaft adjustment gauge (e.g. VW 1.9 L TDI)
Toothed belt pulley interlock tool (e.g. VW, Škoda 1.9L, 2.0L TDI pump/nozzle)
Camshaft interlock tool (e.g. VW, Audi 2.5L V6 TDI)
3-way adjustable toothed belt tension roller spanner (universal, for VW, Audi)
Interlock mandrel for injection pump wheel (e.g. VW, Audi, Seat, Škoda amongst others)
Retaining plate for toothed belt tensioning device (VW, Škoda 4-cylinder TDI pump/nozzle)
Open plug-in unit SW22 for assembly and disassembly of diesel injection nozzles
Camshaft adjustment tools, use as OEM T10123, T10120, 3458, 3418, 2065A, 3366, T10098, 3418
Crankshaft adjustment tools, use as OEM T10121, 3242, T10050, T10100
Tensioning roller interlock tools, use as OEM T10060A, T10020, T10008, T40011
Injection pump interlock tools, use as OEM 3359, 2064





SUITABLE FOR:  

ART.NR	ITEM NAME
BT591011	Camshaft fixing tool for Audi, VW

DESCRIPTION

Needed for changing the toothed belt in Audi and VW models with 2-valve V6 engines, e.g. Audi 80, 90, A4, A6 1994-97 ABC, AFC engine

The camshaft cannot turn while the toothed belt is being fitted

The fixing hook ensures a secure fit

Easy, accurate fitting of the toothed belt



SUITABLE FOR: 

ART.NR	ITEM NAME
BT591015	Camshaft retainer for Audi 8-cylinder engines

DESCRIPTION

Suitable for Audi A4 models up to 2001 and A6 up to 1998 with 8-cylinder engines

For checking the engine timing or adjusting the camshafts

Use as OEM T40046



SUITABLE FOR:  

ART.NR	ITEM NAME
BT591018	Front mask propping aid for Audi A4

DESCRIPTION

For pushing the front mask into the service position, e.g. for Audi A4, Passat from 1997 onwards

Allows for timing belt changes or the renewal of the water pump

Use as T10093



SUITABLE FOR:   

ART.NR	ITEM NAME
BT597450	Engine adjustment tool set for VAG

FOR THE FOLLOWING MODELS

VW Passat, Sharan

AUDI A4, A6, A8, Allroad (1997-2006), A8

Škoda Superb 2.5 (2002-2006)

ENGINE CODES

AFB, AKN, AKE, AYM, BAU, BCZ, BDG, BDH, BFC

DESCRIPTION

For inspecting and adjusting the camshaft control times

DELIVERY SCOPE

Interlock plate with chain, use as OEM 3458

Special spanner, spanner width 22 mm, 1/2- 201d drive, use as OEM 3078

Propping aid for front masks, use as OEM 3369

Crankshaft locking pin, use as OEM 3242

Marking pin of injection pump wheel, use as OEM 3359



SUITABLE FOR: 

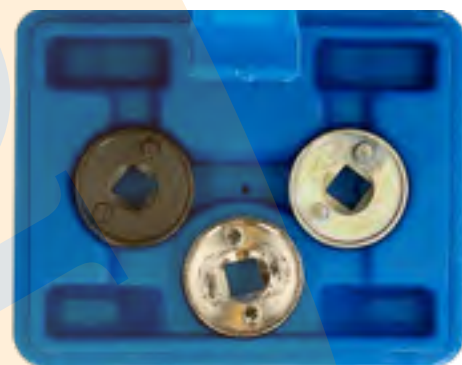
ART.NR	ITEM NAME
BT591020	Camshaft spacers for VAG

DESCRIPTION

For positioning the camshaft slide elements

Suitable for 4-cylinder petrol direct injection, 2.0 turbo, 4-valve engines, e.g. in the Audi A4 up to year of construction 2008, Audi Q5 up to year of construction 2009

Use as OEM T40191



SUITABLE FOR:    

ART.NR	ITEM NAME
BT595850	Camshaft control valve inserts for VAG 1.8, 2.0 TFSI, TSI

DESCRIPTION

For fitting/removal of the 4/3-way central valve of the camshaft adjustment

Suitable for 1.8, 2.0 L 4-cylinder fuel injection and direct injection engines with timing chain, installed in the following models:

Audi A3, A4, A5, Q5, TT, Seat Altea, Leon, Toledo, Exeo, Škoda Octavia II, Superb II, Yeti, Volkswagen Eos, Golf, Jetta, Passat, Scirocco, Sharan, Tiguan



SUITABLE FOR:

ART.NR	ITEM NAME
BT591150	Engine adjustment tool set for Audi 2.4, 2.8, 3.0 TFSI

DESCRIPTION
For adjusting the engine timing when replacing the cylinder head seal, camshaft etc.
Suitable for e.g. Audi A6, Q5

DELIVERY SCOPE
2 camshaft interlocks, use as OEM T40133
Crankshaft locking pin, use as OEM T40069
Chain tensioner interlock, use as OEM T40071
Crankshaft turning tool, use as OEM T40058

SUITABLE FOR:

ART.NR	ITEM NAME
BT591030	Engine adjustment tool set for VAG

FOR THE FOLLOWING MODELS
Audi A3 1.8 Turbo (AGN AGU AJQ APG APP AQA ARX ARY ARZ AUM AUG) 1996-2003, A3 1.6 FSI (BAG) 2003-2006, S3 1.8 Turbo (AMK APY BAM) 1996, A4 1.8 Turbo (ADR AEB AJL AJP ANB APU AVJ AWT) 1994-2006, A6 1.8 Turbo (ADR AEB AJL AJP ANB APU AVJ AWT) 1994-2006, Cabriolet 1.8 (ADR) 1997-2000, TT 1.8 Turbo (AJQ APP APX AUM AUG BAM) 1998-2006
Volkswagen Beetle 1.8 Turbo (AVC) 1999-2006, Touran 1.6 FSI (BAG BLP) 2003-2007, Golf 1.8 Turbo (AGN AGU AQA ARZ AUM AUG) 1997-2005, Bora 1.8 Turbo (AGN AGU AQA ARZ AUM AUG) 1997-2005, Passat 1.8 Turbo (ADR AEB ANB APT APU ARG AWT) 1996-2005, Sharan 1.8 Turbo (AJH AWC) 1997-2007
Škoda Octavia 1.8 FSI Turbo (AGN AGU ARX ARZ AUM) 1996-2005, Octavia 1.8 Turbo 20V RS (AUG) 2000-2006, Octavia 1.6 FSI (BLF) 2004-2007

DESCRIPTION
Suitable for 1.8 L turbo and 1.6 L FSI engines

DELIVERY SCOPE
Counter support for crankshaft, use as OEM 3036
Camshaft fixing tool, use as OEM T10171
Counter support for drive sprockets of oil pump gear, camshaft, vibration damper, use as OEM T10172
Adapter pieces for counter support, use as OEM T10172
Chain tensioner bracket for installation and removal of the chain tensioner, use as OEM T20018, 3366
Tension roller element fixing pin, use as OEM T40011

SUITABLE FOR:

ART.NR	ITEM NAME
BT597500	Engine adjustment tool for VAG 1.2, 1.4, 1.6 FSI, 1.4 TSI

FOR THE FOLLOWING MODELS
Audi A1, A3, A3 Sportback, A3 Cabriolet
Seat Altea, Altea XL, Ibiza, Ibiza Sport Coupe, Leon, Toledo
Škoda Fabia, Fabia, Octavia, Rapid, Roomster, Yeti
VW New Beetle, Caddy, Golf, Golf Plus, Golf Cabriolet, Golf Variant, Jetta, Polo, Touran

ENGINE CODES
AXU, BAG, BKG, BLF, BLN, BLP, BMY, BTS, BLG, BWK, CAVA, CAVB, CAVC, CAVD, CAVF, CAXA, CAXC, CDGA

DESCRIPTION
For adjusting and checking the engine timing

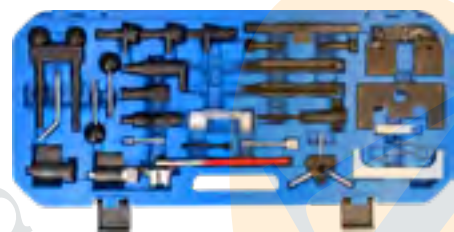
DELIVERY SCOPE
Camshaft locking device, use as OEM T10171
Dial gauge, use as OEM T10170 (dial gauge holder with 274 mm total length, exterior thread M14 x 1.25 mm)
Crankshaft interlock, use as OEM T10340
Hydraulic tensioner interlock, use as OEM T40011 (8 mm tension shaft)
Precision dial gauge for locating the piston OT (resolution: 0.01 mm / measuring range: 0-8 mm / diameter: 41 mm)
2x crankshaft wheel locking pin, use as OEM T10341 (two guide bolts with 135 mm length, 24 mm long exterior thread M8 x 1.25 mm, reciprocal external hex with 6 mm width between flats)
Camshaft interlock, use as OEM T10414



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BT023002 • EAN 4042146777770
Fine-tooth reversible ratchet set, 2 pcs.





SUITABLE FOR:

ART.NR	ITEM NAME
BT597800	Engine adjustment tool set for VAG

FOR THE FOLLOWING MODELS

1.9L, 2.0L TDI pump/nozzle
1.9L TDI, 2.5L V6-TDI, 3.3L V8-TDI
1.2L 3-cylinder and 1.4, 1.6L petrol engines

ENGINE CODES

OE-Code Audi: 2065A, T10008, T10016, T10020, T10050, T10060A, T10098, T10100, T10120, T10121, T10264, T10265, T40011, 2064, 3242, 3359, 3366, 3369, 3418, 3458, T10123
OE-Code Seat: 2065A, T10008, T10016, T10020, T10050, T10060A, T10098, T10100, T10120, T10121, T10264, T10265, T40011, 2064, 3242, 3359, 3366, 3369, 3418, 3458, T10123
OE-Code Škoda: 2065A, T10008, T10016, T10020, T10050, T10060A, T10098, T10100, T10120, T10121, T10264, T10265, T40011, 2064, 3242, 3359, 3366, 3369, 3418, 3458, T10123
OE-Code Volkswagen: 2065A, T10008, T10016, T10020, T10050, T10060A, T10098, T10100, T10120, T10121, T10264, T10265, T40011, 2064, 3242, 3359, 3366, 3369, 3418, 3458, T10123

DELIVERY SCOPE

Camshaft adjustment gauge (e.g. VW 1.9 l TDI)
Toothed belt pulley interlock tool (e.g. VW, Škoda 1.9L, 2.0L TDI pump/nozzle)
Camshaft interlock tool (e.g. VW, Audi 2.5L V6 TDI)
3-way adjustable toothed belt tension roller spanner (universal, for VW, Audi)
Interlock mandrel for injection pump wheel (e.g. VW, Audi, Seat, Škoda amongst others)
Retaining plate for toothed belt tensioning device (VW, Škoda 4-cylinder TDI pump/nozzle)
Open plug-in unit SW22 for assembly and disassembly of diesel injection nozzles
Camshaft adjustment tools, use as OEM T10123, T10120, 3458, 3418, 2065A, 3366, T10098, 3418
Crankshaft adjustment tools, use as OEM T10121, 3242, T10050, T10100
Tensioning roller interlock tools, use as OEM T10060A, T10020, T10008, T40011
Injection pump interlock tools, use as OEM 3359, 2064

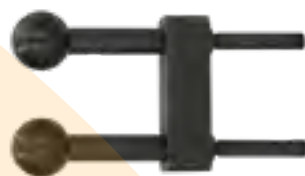


SUITABLE FOR:

ART.NR	ITEM NAME
BT596004	Tensioning spanner for VAG

DESCRIPTION

For adjusting the tensioner pulley
Use as OEM T10020



SUITABLE FOR:

ART.NR	ITEM NAME
BT596003	Cam shaft arresting tool

FOR THE FOLLOWING MODELS

VAG 1.4l, 1.6l 16V

ENGINE CODES

ARC, AUB, AUA, AUS, APE, ATN, AVY, AFK, AHW, APE, AQG, AJV, AKQ, AZD

DESCRIPTION

For adjusting the camshaft e.g. when replacing the toothed belt
Use as OEM T10016



SUITABLE FOR:

ART.NR	ITEM NAME
BT596005	Tension pulley spanner, bi-hexagonal, SW 32 mm

FOR THE FOLLOWING MODELS

Audi 100 from 1991 onwards, A4, A6 2.5 TDI 5-cylinder
VW Polo Diesel, Lupo from 1999 onwards, LT and T4 2.5 TDI

DESCRIPTION

For actuating the automatic tension roller while replacing the toothed belt



SUITABLE FOR:

ART.NR	ITEM NAME
BT591200	Engine adjustment tool set for VAG

DESCRIPTION

suitable for 2.0 L FSI and TFSI engines, e.g. Golf, Touran, Audi A3, engine codes AWA, BMB, AXW

DELIVERY SCOPE

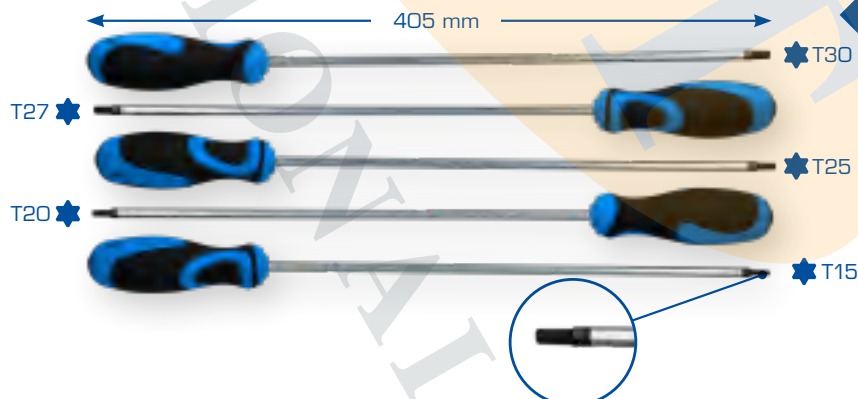
Marking mandrel, use as OEM T10060A
Marking pins, use as OEM T10115
Marking pins, use as OEM T40011
Chain adjuster, use as OEM 3366
Camshaft mount, use as OEM T10252
Tensioning bolt, use as OEM T10092
Two hole nut screw driver, use as OEM T10020



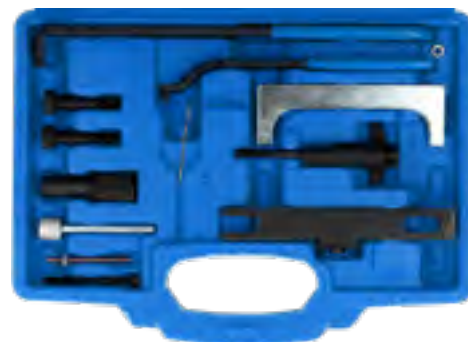
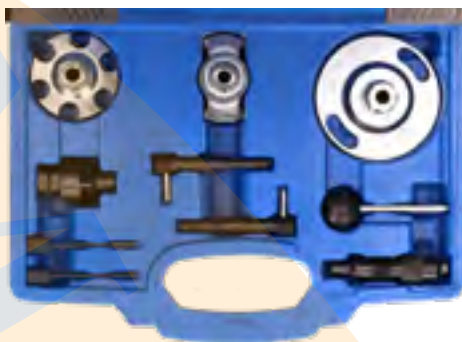
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EAN 4042146778791
Extra long Torx® screwdriver set



5 pcs.



SUITABLE FOR:

ART.NR	ITEM NAME
BT595950	Engine adjustment tool set for Audi A4, A6, A8

FOR THE FOLLOWING MODELS

Suitable for Audi A4, A6, A8 mit with engine code ASN, AVK, BBJ

DESCRIPTION

Needed for replacing the toothed belt and carrying out servicing work on the engine

Easy assembly of the toothed belt as camshaft and crankshaft are fixed

DELIVERY SCOPE

 2 camshaft fixer, use as OEM T40030
 Crankshaft interlock, use as OEM T40026
 Tension roller key, use as OEM 3387
 Insert for basic setting of the camshaft adjuster, use as OEM T40028
 Fixing pins for tensioning element, use as OEM T40011

SUITABLE FOR:

ART.NR	ITEM NAME
BT597400	Engine adjustment tool set for VAG 2.7, 3.0 TDI

FOR THE FOLLOWING MODELS

Suitable for Audi A4, A5, A6, AB, Q5, Q7 and VW Touareg, Phaeton with engine code ASB, BKN, BKS, BMK, BMZ, BNG, BPP, BSG, BUG, BUN, CAMA, CAMB, CANA, CANB, CANG, CAND, CAPA, CARA, CARB, CASA, CASB, CASC, CATA, CCMA, CCWA, CCWB, CDYA, CDYB, CDYC, CEXA, CGKA, CGKB

DESCRIPTION

For locking the camshaft/crankshaft and fixing the tensioners

Needed for replacing the timing chain or carrying out other work on engine timing

DELIVERY SCOPE

 Camshaft blocking, use as OEM T40062
 Camshaft tool, use as OEM T40061
 Swivel adapter for crankshaft, use as OEM T40049
 Marking mandrel for injection pump, use as OEM 3359
 Swivel adapter for crankshaft, use as OEM T40058
 2 camshaft interlocks, use as OEM T40060
 Crankshaft marking mandrel, use as OEM 3242
 2 chain tensioner interlocks

SUITABLE FOR:

ART.NR	ITEM NAME
BT597650	Engine adjustment tool set for VAG 1.7, 1.9 D, SDI, TDI, 1.6, 1.8, 1.8T, 2.0

FOR THE FOLLOWING MODELS

VW Beetle (1998-2002), Bora (1994-2005), Caddy (1996-2004), Golf (1994-2005), Lupo (1998-2005), Passat (1996-2000), Polo (1995-2006), Sharan (1995-2000), Touran (2003-2008), Transporter (1990-2003)

Audi 80 (1991-1996), A3 (1996-2003), S3 (1999-2003), A4 (1995-2001) Cabriolet (1991-2000), A6 (1994-2002), TT (1998-2005)

Seat Alhambra (1996-2000), Arosa (1998-2005), Altea (2004-2008), Cordoba (1993-2006), Ibiza (1993-2006), Inca (1994-2004), Leon (1999-2005), Toledo (1994-2005)

Škoda Fabia (1999-2006), Felicia (1995-2001), Octavia (1996-2006), Superb (2002-2008)

ENGINE CODES

Diesel: 1.7 SDI: AHB, AHG, AKU, AKW, 1.9D: 1Y, AAZ, ABL, AEF, 1.9 SDI: EAF, AEY, AGD, AGP, AQM, ASX, ASY, AYQ, 1.9 TDI: 1Z, AAZ, AFF, AFN, AGR, AHF, AHH, AHU, ALE, ALH, ASV, AVG

Petrol: 1.6: 1F, ABM, ADA, ADP, AEH, AEK, AFT, AHL, AKL, AKS, ALZ, ANA, APF, ARM, AUR, AVU, AYD, BFQ, BFS, BFQ, BGU, BSE, BSF, 1.8: ABS, ADR, ADZ, AGN, AJP, APG, APT, APX, ARG, 1.8T: AEB, AGU, AJH, AJL, AJQ, AMK, ANB, APP, APU, APY, AQA, AQX, ARX, ARY, ARZ, AUM, AVC, AWC, AWT, AWU, AUQ, AYP, BAM, 1.8 16v: ADL, 2.0: 2E, AAC, AAE, ABF, ABK, ABT, ACE, ADY, AEG, AGG, AKT, APK, AQY, ATM, ATU, AVF, AWG, AXA, AZH, AZJ, AZL, AZM, BEH, 2.0 16v: ABF, 2.0FSI/TFsi: AXW, AXX, BGB, BHD, BLR, BLY, BMB, BPJ, BPY, BWA

DESCRIPTION

For inspecting and adjusting the camshaft control times

Use as 3359, 2064/15-046/U20003/U40074, 2065A/U40021, T20038/MP1-312/T10098, MP1302/V159, T10020, T10092, T40011, 3366/T20044


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20 pcs.

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Radio removal tool set





ART.NR	ITEM NAME
BT597700	Engine adjustment tool set for VAG

FOR THE FOLLOWING MODELS

Audi A1 (2010-2012), A2 (2001-2006), A3 (2001-2012), A4/Allroad (1999-2012), A5 (2008-2012), A6/Allroad (1998-2011), TT (2008-2010), Q5 (2008-2012)

Seat Alhambra (1999-2010), Altea/Altea XL (2004-2012), Arosa (1999-2005), Cordoba (2002-2009), Ibiza (2002-2010), Leon (2000-2012), Toledo (2004-2011)

Škoda Fabia (2000-2007), Fabia II (2007-2012), Octavia (2000-2010), Octavia II (2004-2012), Roomster (07-12), Superb (2002-2008), Superb II (2008-2012), Yeti (2009-2012)

VW Amarok (2010-2012), Beetle (2000-2011), Bora (1998-2008), Caddy/Maxi (2003-2012), Eos (06-10), Fox (2005-2011), Golf (1998-2012), Golf Plus (2005-2012), Jetta (2005-2011), Lupo (1999-2005), Passat/CC (1998-2012), Polo (1999-2012), Scirocco (2008-2012), Sharan (1999-2010), Tiguan (2007-2012), Touran (2003-2012), Transporter (2003-2012)

Dodge Caliber (2006-2011)

Mitsubishi Grandis (2005-2010), Lancer (2005-2010), Outlander (2007-2010)

DESCRIPTION

For inspecting and adjusting the camshaft control times
1.2, 2.0 TDI PD, 1.2, 1.6, 2.0 TDI CR



ART.NR	ITEM NAME
BT597050	Engine adjustment tool set for Audi, VW V6 TDI

FOR THE FOLLOWING MODELS

Volkswagen Passat 2.5 V6 TDI

Audi A4 2.5 V6 TDI

Audi A6 2.5 V6 TDI

Audi A8 2.5 V6 TDI

Škoda Superb 2.5 V6 TDI

ENGINE CODES

Engine code: AFB, AKN, AKE, AYM, BAU, BCZ, BDG, BDH, BFC

DESCRIPTION

For locking the crankshaft/camshaft, and for carrying out work on the engine control, e.g. replacing the toothed belt, removing the cylinder heads etc.

DELIVERY SCOPE

Crankshaft fixing mandrel, use as OEM 3242
Camshaft interlock plates, use as OEM 3458



ART.NR	ITEM NAME
BT597760	Engine adjustment tool set for VAG 1.8, 2.0 FSI, TFSI

DESCRIPTION

For checking and adjusting the engine timing

Suitable for 1.8, 2.0L VAG engines with engine code BYT, BZB, CABA, CABB, CABD, CADA, CAEA, CAEB, CAWA, CAWB, CBFA, CCTA, CCZA, CCZB, CCZC, CCZD, CDAA, CDAB, CDHA, CDHB, CDNB, CDNC, CDND, CESA, CETA, CFKA, CFPA, CGYA, CHHA, CHHB, CJBA, CJEB, CJK, CJKB, CJS, CJSB, CNCD, CPLA, CPSA

Installed e.g. in Audi A4, A5 (from 2008 onwards), A6 (from 2012 onwards)

DELIVERY SCOPE

Crankshaft counter support tool, use as OEM T10355
Crankshaft thrust piece, use as OEM T10368
Crankshaft thrust piece, use as OEM T10354
Camshaft interlock bolt (4x), use as OEM T40196
Chain adjuster interlocking clamp (2x), use as OEM T40267
Drive sprocket blocking tool (2x), use as OEM T40271, T20208
Camshaft valve tool, use as OEM T10352
Camshaft valve tool, use as OEM T10352/1
Camshaft valve tool, use as OEM T10352/2
Tensioning marking pin, use as OEM T10060A
Tensioning marking pin (2x), use as OEM T40011
Marking pin for oil pump, use as OEM T40265



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BT020023

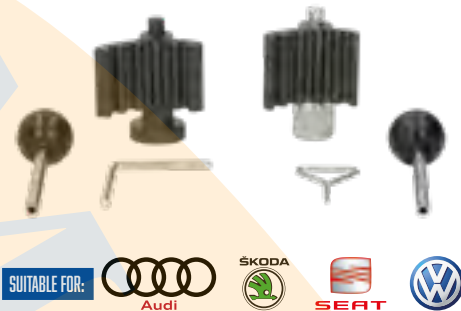
EAN 4042146774281

Socket set, 23 pcs.

23 pcs.



12x	1/4"		4 • 4.5 • 5 • 5.5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 mm
4x			T15 • T20 • T25 • T30
2x			PH1 • PH2
2x			PZ1 • PZ2
1x	1/4"		110 mm
1x	1/4"		100 mm
1x	1/4"		25 mm



ART.NR	ITEM NAME	
BT591070	Engine adjustment tool set for VAG 1.6, 2.0 CR TDI	

FOR THE FOLLOWING MODELS

Audi A1, A3 (8P), A4 (B8), A5A6 (C6, C7), TT (8J), Q3, Q5
 Škoda Fabia II, Roomster, Praktik, Oktavia II, Superb II, Yeti
 Seat Ibiza (6J), Leon III, Exeo, Altea, Alhambra II
 Volkswagen Golf V, VI und Plus, Eos, Polo V Jetta V und VI, Scirocco III, Beetle II, Caddy II, Passat B6, B7 und CC, Touran, Sharan II, T5, Amarok

ENGINE CODES

Engine codes CAYB, CAYC, CBAB, CB8B, CBAA, CFFB, CAGA, CAHA, CAGB, CAHB, CAGC, FCA, CAAA, CAAB, CAAC, CCHA, CAVA, CBAB, CBDA, CBDD, CBAC, CBDA, CBDC, etc.

DESCRIPTION

Contains important tools for checking and adjusting the timing after replacing the toothed belt
 Also suitable for earlier pump/nozzle engines

DELIVERY SCOPE

Injection pump interlock, use as OEM T20102, U40074, 3359
 Crankshaft interlock, use as OEM T10050, T10100
 Ball head hexagon socket 6 mm, use as OEM T10264
 2.5 mm tension roller locking pin, use as OEM T10265
 3.9mm tension roller locking pin, use as OEM T40098
 Toothed belt pulley holding tool, use as OEM T10051
 Puller for toothed belt pulley, use as OEM T10052
 Oil pump/balance shaft adjustment tool, use as OEM T10255



ART.NR	ITEM NAME	
BT597150	Engine adjustment tool set for VAG 1.4, 1.6, 1.9, 2.0 SDI, TDI	

FOR THE FOLLOWING MODELS

Audi A2 1.4 TDI (2002, 2006), A3 1.9, 2.0 TDI (2002, 2008), A4 1.6 TDI (2002, 2005), A4 1.9, 2.0 TDI (2004, 2008) Engine codes: AMF, ASZ, ATD, AVB, AVF, AWW, AXR, AZV, BHC, BKC, BKD, BKE, BLB, BMN, BNA, BPW, BRB, BRC, BRD, BRE, BUJ, BVA, BVF, BVG

Seat Altea 1.9 SDI, TDI (2005, 2008), Leon 1.9, 2.0 TDI (2005, 2008), Toledo 1.9 SDI, TDI (2005, 2008) Engine codes: BJB, BKC, BLS, BMM, BXE

Škoda Fabia 1.4 TDI (2003, 2006), Octavia II 2.0 TDI (2003, 2006), Engine codes: AMF, AZV, BKD

Volkswagen Beetle 1.9 TDI (2002, 2008), Bora 1.9 TDI (2002, 2008), Fox 1.4 TDI (2002, 2008), Golf 1.9, 2.0 TDI (2002, 2008), Lupo 1.4 TDI (2002, 2008), Polo 1.4, 1.9 TDI (2002, 2008), Sharan 1.9 TDI (2002, 2008) Engine codes: AJM, AMF, ANU, ARL, ASZ, ATD, AUY, AVB, AVF, AWW, AXR, BAY, BMS, BNM, BNV, BWV

DESCRIPTION

For adjusting and checking the engine timing when replacing the toothed belt, camshaft etc.

DELIVERY SCOPE

Crankshaft interlock, use as OEM T10100
 Pump wheel/camshaft interlock, use as OEM 3359, T20102, 9882, MB995206
 Crankshaft interlock, use as OEM T10050, 9883, 310-085, 23-059, MB995209
 4 mm marking pin, use as OEM T10115, 303-1054, MB995208
 Auxiliary belt: locking pin, use as OEM T10060A, T40098



ART.NR	ITEM NAME	
BT591100	Engine adjustment tool set for VAG 2.4, 2.8, 3.0 FSI	

DESCRIPTION

For checking and adjusting the control times
 Suitable for Audi V6, V8 and V10 engines with chain

DELIVERY SCOPE

Camshaft interlock, use as OEM T40070
 Crankshaft fixing mandrel, use as OEM T40069
 Locking pin for chain adjuster, use as OEM T40071
 Swivel adapter for crankshaft, use as OEM T40058



ART.NR	ITEM NAME	
BT591050	Engine adjustment tool set for VAG 2.8, 3.0 FSI	

DESCRIPTION

For checking and adjusting the control times
 Suitable for Audi V6, V8 and V10 engines with chain



ART.NR	ITEM NAME	
BT591084	Crankshaft turning tool for VAG	

DESCRIPTION

Makes it easier to turn the crankshaft e.g. when checking the timing
 Suitable for Audi A6 up to year of construction 2005, Audi A8 up to year of construction 2003 with 6- and 8-cylinder engines 2.4L, 3.2L FSI, 6- and 8-cylinder TDI common rail
 Use as OEM T40058





ART.NR	ITEM NAME
BT591260	Camshaft sprocket locking tool set, universal

FOR THE FOLLOWING MODELS

Can be used universally on vehicles from the following manufacturers: Audi, Alfa Romeo, Chrysler, Citroën, Ford, Honda, Hyundai, Isuzu, Land Rover, Lexus, Mazda, Mitsubishi, Peugeot, Renault, MG, SEAT, Skoda, Subaru, Toyota, Opel, Volkswagen, Volvo

DESCRIPTION

For locking the camshaft sprockets e.g. when replacing the toothed belt

Suitable for engines with 1, 2 and 4 camshafts (V engines); also suitable for locking between the camshaft sprocket and diesel injection pump wheel in some diesel engines

DELIVERY SCOPE

Double camshaft locking tool with short and long connecting arm

Single camshaft locking tool with short and long locking screw

SUITABLE FOR: **Universal**

ART.NR	ITEM NAME
BT596002	Universal camshaft wheel puller

DESCRIPTION

For pulling the pulley and camshaft gear

Gripping arms are connected with each other via adjusting disk, thus the gripping arms can be set easily and exactly

Continuous adjustment range of the gripping arms from 42 - 82 mm

Gripping arm depth is 27 mm

DELIVERY SCOPE

3 x gripping arms, Ø 12 mm, M10 x 1.5, suitable for material thickness up to max. 10 mm

6-groove puller body with adjusting disc

Spindle, M14 x 1.5, 19 mm hex, with centring cone



SUITABLE FOR: **Audi SEAT**

ART.NR	ITEM NAME
BT591087	Camshaft turning insert for VAG 1.8, 2.0 TFSI

DESCRIPTION

For turning and holding the camshaft adjuster when working on the timing chain

Suitable for 1.8, 2.0 TFSI engines (3rd generation), installed in e.g. the following models: Audi A3 (from 2012 onwards), A4 (from 2008 onwards), A5 (from 2009 onwards), A5 Coupe (from 2008 onwards), Q5 (from 2008 onwards), SEAT Alhambra (from 2008 onwards), Exeo (from 2009 onwards), Altea (from 2009 onwards)

Use as OEM T40266



SUITABLE FOR: **Audi Volkswagen**

ART.NR	ITEM NAME
BT542070	crank/camshaft radial seal extraction set for VAG

DESCRIPTION

For removing radial sealing rings

Grips the seal from the inside with its conical profile

Suitable for most commercially available sealing rings

Contains the following extractors: 5 short extractors, Ø 25, 32, 35, 27, 55 mm

1 long extractor, Ø 32 mm

1 longer Auszieher Ø 32 mm



SUITABLE FOR: **Audi Volkswagen**

ART.NR	ITEM NAME
BT591089	Drive gear fixing tool for VAG 3.6 FSI

DESCRIPTION

For fixing the high-pressure pump driving toothed wheel

Needed for adjusting the valve timing

Suitable for VAG 3.6L 6-cylinder 4-valve engines, installed in the Volkswagen Passat (357), (3C2), (3C5) from 2006 onwards, Touareg (7L6), (7LA) from 2006 onwards, Audi Q7 (4LB) from 2007 onwards

Engine codes: BLV, BHL, BHK

Use as OEM T10363



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SUITABLE FOR: Audi

ART.NR	ITEM NAME
BT542078	crankshaft seal assembly device for VAG petrol & diesel engines

FOR THE FOLLOWING MODELS

VAG vehicles Volkswagen Golf, Touran and Audi A3, A4 1.4i Turbo, 1.4 & 1.6 petrol direct injection, 1.9, 2.0 SDI, 2.0 common rail diesel engines

DESCRIPTION

For fitting the radial sealing ring on the transmission
Attempting to fit the sealing ring without this tool may lead to leaks, destruction of the new sealing ring, and poor engine running
Use as OEM T10134

SUITABLE FOR:

ART.NR	ITEM NAME
BT591094	Crankshaft locking tool for VAG 1.4, 1.6, 2.0 TDI (EA288)

FOR THE FOLLOWING MODELS

For the following vehicles: 1.4 TDI Audi A1, 1.4 TDI Seat Ibiza, Toledo IV, 1.4 TDI Škoda Fabia III, Rapid (2012-), 1.4 TDI VW Polo V, 1.6 TDI Audi A1, A3 8V, A4 B9, Q2, 1.6 TDI Seat Leon III, Toledo IV, Ateca, 1.6 TDI Škoda Octavia III, Rapid (2012), Superb III, Karoq, 1.6 TDI VW Beetle, Golf VII, Jetta VI, Tiguan, Touran II, T-Roc, Passat B8, CC, Scirocco III, 2.0 TDI Audi A3 8V, A4 B9, Q2, 2.0 TDI Seat Leon III, Ateca, Alhambra II, 2.0 TDI Škoda Octavia III, Superb III, Kodiaq, Karoq, 2.0 TDI VW Beetle, Golf VII, Jetta VI, Tiguan, Tiguan II, Touran II, T-Roc, Sharan II, Passat B8, CC, Scirocco III, Arteon, T6, Caddy, Crafter, Amarok

DESCRIPTION

For adjusting and locking the crankshaft e.g. when working on the camshaft drive or replacing the cylinder head seal
Suitable for: TDI common rail engines in the EA288 series
Use as OEM T10490

SUITABLE FOR:

ART.NR	ITEM NAME
BT595910	Timing chain test tool set for VAG 1.2, 1.4 TFSi

FOR THE FOLLOWING MODELS

Audi: A1 (2012-2015), A1 Sportback (2012-2015), A3 (2013-2015), A3 (2013-2015), A3 Sportback (2012-2015)
Seat: Ibiza (2012-2017), Leon (2012-2015), Toledo (2012-2017)
Škoda: Fabia II (2010-2015), Fabia III (2014-2017), Octavia II (2010-2013), Octavia III (2010-2015), Praktik (2010-2015), Roomster (2010-2015), Rapid (2015-2017)
Volkswagen: Golf VI & VII (2008-2015), Golf VII Kombi (2008-2017), Jetta (2012-2017), Polo (2012-2017), Sportsvan (2014-2017)

DESCRIPTION

For checking the timing chain elongation on VAG 1.2 and 1.4L TFSi engines
Prevents costly repairs at a later stage due to the timing chain slipping

DELIVERY SCOPE

Timing chain test tool set, use as OEM T10550
Comprises the following tools: Camshaft fixing tool, use as OEM T10550/1; indicator, use as OEM T10550/2; scale sleeve with crankshaft pulley plate, use as OEM T10550/3

SUITABLE FOR:

ART.NR	ITEM NAME
BT591090	Camshaft adjustment tool set for VAG

FOR THE FOLLOWING MODELS

Installed in e.g. the following models: Audi A1 (2013-), A3 (2013-), Q3 (2014-), Volkswagen Passat (2012), Golf (2012-), Polo (2015-), Seat Leon (2014-), Ibiza (2013-), Škoda Superb (2015-)

DESCRIPTION

For fixing the camshafts in place when checking and adjusting the valve timing
Suitable for 1.2, 1.4 TSi, TFSi engines with active cylinder management ACT or COD
Engine codes: CPTA, CZEA

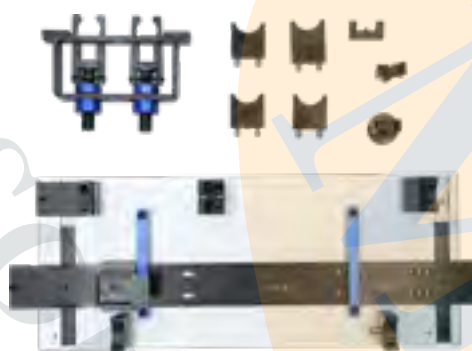
DELIVERY SCOPE

Camshaft adjustment tool, use as OEM T10504
Camshaft adjustment pin, use as OEM T10504/1
Camshaft testing pin, use as OEM T10504/2



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SUITABLE FOR:



ART.NR	ITEM NAME
BT595920	Camshaft assembly tool set for VAG and Porsche

FOR THE FOLLOWING MODELS

Suitable for the following diesel vehicles (TDI CR) from 2003 onwards: Audi, Porsche, Seat, Skoda, Volkswagen with 1.2, 1.6, 2.0, 2.7, 3.0, 4.0, 4.2 common rail engines

ENGINE CODES

Engine codes ASB, ASE, BKN, BKS, BMK, BNG, BPP, BSG, BTR, BUG, BUN, BVN, CAAA, CAAB, CAAC, CAAD, CAEE, CAGA, CAGB, CAGC, CAHA, CAHB, CAMA, CAMB, CANA, CANB, CANG, CAND, CAPA, CARA, CASA, CASB, CASC, CASD, CATA, CAYA, CAYB, CAYC, CAYD, CAYE, CBAA, CBAB, CBAC, CBBA, CBBB, CBDA, CBDB, CBDC, CCFA, CCFC, CCHA, CCHB, CCLA, CCMA, CCWA, CCWB, CDBA, CDCA, CDSB, CDTA, CDTB, CDUC, CDUD, CDYA, CDYB, CDYC, CEGA, CEXA, CFCA, CFFA, CFFB, CFFD, CFFE, CFGB, CFGC, CFGD, CFHA, CFHB, CFHC, CFHD, CFHE, CFHF, CFJA, CFWA, CGKA, CGKB, CGLA, CGLB, CGLC, CGLD, CGLE, CGGB, CJAA, CJCA, CJCB, CJCC, CJCD, CJGA, CJGC, CJGD, CJMA, CKDA, CKTB, CKTC, CKUB, CKUC, CKVB, CKVC, CLAA, CLAB, CLCA, CLCB, CLJA, CLLA, CLNA, CLZB, CMEA, CMFA, CMFB, CMGB, CMHA, CNEA, CNFA, CNRB, CRCA, CSHA, M05/9D (CAS), M05/9E, M05/9E (CRCA), M05/9E (CRCB)

DESCRIPTION

For installing the camshafts in the correct position

Needed when installing new or existing camshafts; attempting installation without this tool may lead to damage on the camshaft bearing bridge and the cylinder head

DELIVERY SCOPE

Mounting device including pre-assembled parts, use as OEM T40094
Camshaft clamp, use as OEM T40095
2 alignment clamps, use as OEM T40096, T40096/1
4 camshaft brackets for mounting device, use as OEM T40094/1, T40094/2, T40094/9, T40094/10
Interlock for camshaft bracket, use as OEM T40094/11



SUITABLE FOR:



ART.NR	ITEM NAME
BT593100	Engine adjustment tool set for Ford

FOR THE FOLLOWING MODELS

Suitable for the following Ford engines: 1.4, 1.6 16V, 1.7, 1.8 16V, 2.0 16V (including Zetec), 1.4, 1.6, 1.8, 1.9 D/ TD/ TDCi

DESCRIPTION

Contains tools for: Locking the flywheel

Locking the crankshaft, pump shaft

Locking the injection pump shaft

Removing the crankshaft pulley

Tensioning the toothed belt

Adjustment gauge for positioning the camshaft and pump shaft in relation to the crankshaft

Use as OEM 21-162, 21-162B, 303-367, 303-376, 23-059, 310-085, 21-168, 303-393, 23-020, 23-047, 23-020, 21-163, 303-620, 23-019, 21-210, 303-507, 21-251, 303-698, 21-262, 303-734, 23-029, 303-1061, 23-058, 310-084, 21-105, 21-262, 303-734, 21-168, 303-393, 21-263, 303-735, Mazda 49JE01061, Audi 3359, T10008, T10050, 2065A, Seat 3359, T10008, T10050, 2065A, Skoda 3359, T10008, T10050, 2065A, Volkswagen 3359, T10008, T10050, 2065A



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BMW



SUITABLE FOR:



ART.NR	ITEM NAME
BT596000	Engine adjustment tool for BMW

ENGINE CODES

M50, M52 TU, M54, S50, S52

DESCRIPTION

For turning the drive sprocket during dismantling and installation of the Vanos adjusting unit

Use as OEM 11 5 490



SUITABLE FOR:



ART.NR	ITEM NAME
BT591580	Engine adjustment tool set for BMW, MINI, PSA

FOR THE FOLLOWING MODELS

BMW 1.6 (N40, N45, N45T, B16, B16A, B16AC) 1.8, 2.0 (N42, N46, N46T) 2.0, 3.0 (N51, N52, N52K, N53, N54)
PSA 1.4, 1.6 16V (EP3, EP6, EP6DT, EP6DTS)
MINI 1.4, 1.6 (N12, N14)

DESCRIPTION

For aligning new and old versions of balance shafts

Prevents non-concentric engine running due to incorrectly aligned balance shafts

Needed when changing the timing chain, replacing the crankshaft sealing ring, replacing the cylinder head seal etc.

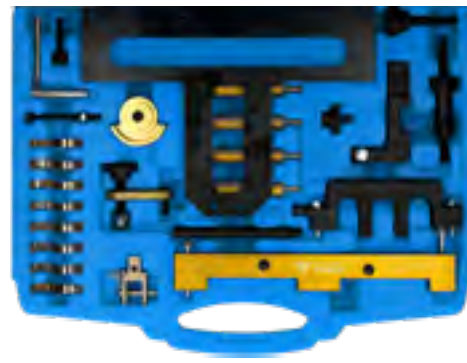
Use as OEM 115140, 119280, 119330

DELIVERY SCOPE

Balance shaft fixing tool (old and new version)

Crankshaft counter support

Locking pin for chain tensioner



SUITABLE FOR:



SUITABLE FOR:



SUITABLE FOR:



ART.NR	ITEM NAME	
BT551008	assembly tool for injection pump wheel for BMW	

FOR THE FOLLOWING MODELS

E46 (318D-320D) (1988, 2005) and E60, E61 (318TD-320TD-525D-530D-530-535) (2000, 2006)

ENGINE CODES

M47, M47T2, M47TU, M57, M57TU

DESCRIPTION

Holds the gear in place while the injection pump is installed



SUITABLE FOR:



ART.NR	ITEM NAME	
BT591520	Engine adjustment tool set for BMW N13, N18	

FOR THE FOLLOWING MODELS

114i (F20) (N13B16) from 07/2012 onwards
116i (F20) (N13B16) from 09/2011 onwards
316i (F30) (N13B16) from 11/2012 onwards
118i (F20) (N13B16) from 09/2011 onwards
320i EfficientDynamics (F30) (N13B16) from 11/2012 onwards

DESCRIPTION

For checking and adjusting the camshaft timing e.g. when working on the valve train, replacing the cylinder head seal etc.

Use as BMW OEM 11 7 440, 11 9 340, 49 6 709, 11 9 590, 2299362

ART.NR	ITEM NAME	
BT591650	Engine adjustment tool set for BMW diesel engines	

FOR THE FOLLOWING MODELS

BMW 1, 3, 5, 6, 7, X3, X5 (series E34-36-38-39-66-83-90-91-92-93)

Land Rover, Range Rover, Freelander

Rover 75, MG, MG ZT

Vauxhall, Opel Omega-B

ENGINE CODES

M41, M51, M47 M47 TU/T2, M57 TU/T2 2.0/3.0i (1998-2008)

204D3, Td4, Td 6

M47R

DELIVERY SCOPE

Timing chain counter support, use as OEM BMW 113360, Range Rover LRT-12-115

Camshaft alignment tool, use as OEM BMW 116321 (116320), Opel KM6267

Securing bracket alignment tool, use as OEM BMW 116322 (116320)

Injection pump extractor (long), use as OEM BMW 135120

Injection pump extractor, use as OEM BMW 135120, Range Rover LRT-12-119

Injection pump extractor (short), use as OEM BMW 135191, 135192 (135190), Opel KM6270

Threaded ring, use as OEM BMW 135191, 135192 (135190), Opel KM6270

Camshaft securing bridge, use as OEM BMW 113320, Rover LRT-12-112

Crankshaft marking pin, use as OEM BMW 115180

Crankshaft marking pin, use as OEM BMW 116080

Tension roller marking pins, use as OEM BMW 113340, Range Rover LRT-12-114, Opel KM-823

Crankshaft marking pin, use as OEM BMW 112300, Range Rover LRT-12-108

ART.NR	ITEM NAME	
BT592100	Engine adjustment tool set for BMW petrol engines	

FOR THE FOLLOWING MODELS

BMW 1, 3, 5, X3, Z4 (series E87-46-60-85-83-90-91)

ENGINE CODES

N42, N46, B18-A, B20-A/B

DESCRIPTION

For e.g. installing and removing the camshafts

Checking and adjusting the engine timing

DELIVERY SCOPE

Clips for intermediate lever, use as OEM 119310

Bearing bridge clamp, use as OEM 119320

Knurled screw, use as OEM 119302

Bracket of eccentric shaft, use as OEM 119301

Camshaft interlock, use as OEM 119290

Camshaft interlock (intake), use as OEM 119302

Clamping tool, use as OEM 119340

Torsion spring holder, use as OEM 119390

Camshaft sensor tool, use as OEM 119350

Retaining screw, use as OEM 119390

Camshaft key, use as OEM 119270

Crankshaft marking mandrel (straight), use as OEM 112300

3x assembly bolts, use as OEM 119320

Retaining screw, use as OEM 119290

Camshaft interlock, use as OEM 119290

Crankshaft marking mandrel (bent), use as OEM 119190

Assembly bolt, use as OEM 119320

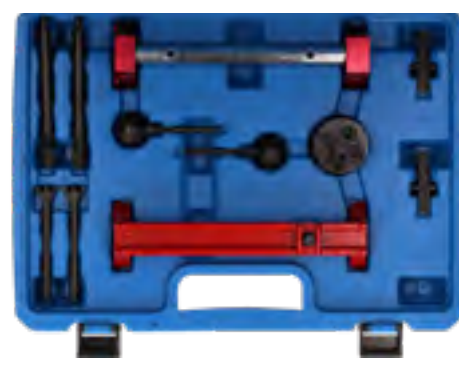
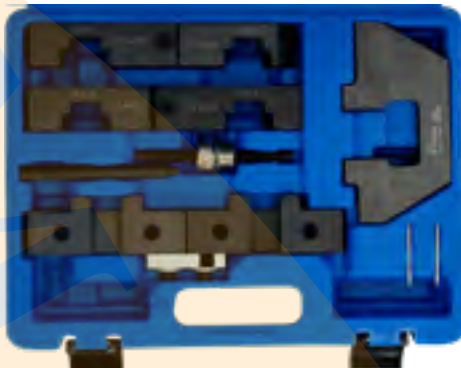
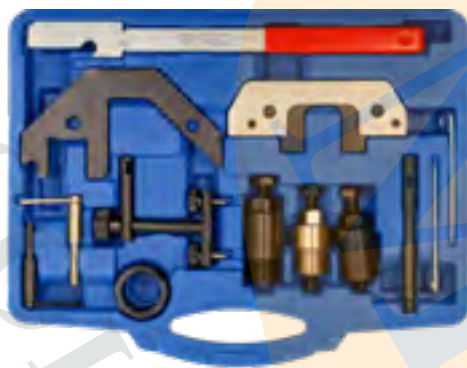
Balance shaft rule, use as OEM 119330



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SUITABLE FOR:

ART.NR	ITEM NAME
BT591560	Engine adjustment tool set for BMW M62 Vanos

DESCRIPTION

For inspecting and adjusting the engine control times
Suitable for e.g. engine series: M62B35, M62B44, M62TUB44

DELIVERY SCOPE

Vanos valve insert, use as OEM 11 6 420
Chain tensioning aid, use as OEM 11 7 380
Turning tool, use as OEM 11 6 440
Sensor wheel tool set, use as OEM 11 6 450, consisting of: Sensor wheel tool for cylinders 1 to 4, use as OEM 11 6 451; sensor wheel tool for cylinders 5 to 8, use as OEM 11 6 452
Camshaft interlock for cylinders 1 to 4, use as OEM 11 2 445, 11 2 441
Camshaft interlock for cylinders 5 to 8, use as OEM 11 2 442, 11 2 446
Chain tensioner, use as OEM 11 3 390
Crankshaft interlock, use as OEM 11 2 300



SUITABLE FOR:

ART.NR	ITEM NAME
BT591900	Engine adjustment tool set for BMW 1.6

FOR THE FOLLOWING MODELS

For BMW models 116 1.6 i E81, E87, 316 1.6 i E46, E90 316 1.6 Ci, E46 316 1.6 ti E46

DESCRIPTION

Suitable for timing-chain-driven engines with Vanos, engine code N40, N45, N45T (B16)

DELIVERY SCOPE

Crankshaft adjusting pin, use as OEM 119190
Timing chain tensioning tool, use as OEM 119340, 119341
Camshaft adjustment tool (intake), use as OEM 117252
Camshaft adjustment tool (exhaust), use as OEM 117251
Vanos adjustment tool, use as OEM 117260



SUITABLE FOR:

ART.NR	ITEM NAME
BT592260	Engine adjustment tool set for BMW S54

FOR THE FOLLOWING MODELS

BMW M3 Cabriolet (2000-2006), Sports Coupe (1999-2006), CSL Sport Coupe (2003-2004)

DESCRIPTION

For checking and adjusting the camshaft timing when installing the Vanos adjustment unit on S54 engines
Use as OEM 119140, 119130, 119170, 117340, 115100, 17160, 112300, 110480



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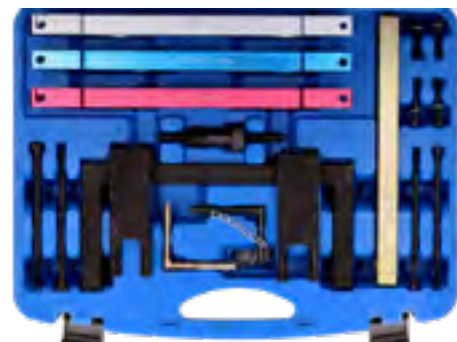
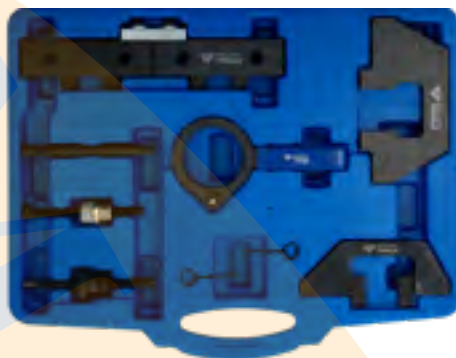
21 pcs.



BT011021
4042146782002
Combination wrench set,
21 pcs.



21x		• 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 • 16 • 17 • 18 • 19 • 20 • 21 • 22 • 24 • 27 • 30 • 32 mm
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SUITABLE FOR: 

ART.NR	ITEM NAME	
BT591580	Engine adjustment tool set for BMW, MINI, PSA	

FOR THE FOLLOWING MODELS

BMW 1.6 (N40, N45, N45T, B16, B16A, B16AC) 1.8, 2.0 (N42, N46, N46T) 2.0, 3.0 (N51, N52, N52K, N53, N54)
PSA 1.4, 1.6 16V (EP3, EP6, EP6DT, EP6DTS)
MINI 1.4, 1.6 (N12, N14)

DESCRIPTION

For aligning new and old versions of balance shafts
Prevents non-concentric engine running due to incorrectly aligned balance shafts
Needed when changing the timing chain, replacing the crankshaft sealing ring, replacing the cylinder head seal etc.
Use as OEM 115140, 119280, 119330

DELIVERY SCOPE

Balance shaft fixing tool (old and new version)
Crankshaft counter support
Locking pin for chain tensioner

SUITABLE FOR: 

ART.NR	ITEM NAME	
BT591950	Engine adjustment tool set for BMW M42, M50	

DESCRIPTION

For adjusting the camshaft e.g. after replacing the timing chain and cylinder head seal
Suitable for BMW engines in the M42 and M50 series
Use as OEM 113240 and 112300

DELIVERY SCOPE

Camshaft interlock
Flywheel interlock



SUITABLE FOR: 

ART.NR	ITEM NAME	
BT591556	Balancing shaft fixing tool for BMW	

DESCRIPTION

For fixing/adjusting the balancing shafts
L-shaped with 9 mm slit
Use as OEM 118700

SUITABLE FOR: 

ART.NR	ITEM NAME	
BT592000	Engine adjustment tool set for BMW N51, N52, N52K, N53, N54, N55	

FOR THE FOLLOWING MODELS

E60 523i, 523Li, 525i, 525Li, 525xi, 528i, 528xi, 530i, 530Li, 530xi, 535i, 535xi
E61/E63 523i, 525i, 525xi, 530i, 530xi, 535xi, 630i
E64/E65 630i, 730i
E66/E70 730Li, X5 3.0Si
E81/E82 130i, 135is
E83 X3 2.5i, 2.5Si, 3.0i, 3.0S
E85/E86 Z4 2.5i, 2.5Si, 3.0i, 3.0Si, Z4 3.0Si
E87/E90 130i, 323i, 325i, 325xi, 328i, 328xi, 330i, 330xi, 335i, 335xi
E91 323i, 325i, 325xi, 328i, 328xi, 330i, 330xi, 335i, 335xi
E92 323i, 325i, 325xi, 328i, 328xi, 330i, 330xi, 335i

DESCRIPTION

Contains important tools for e.g. installing and removing the camshafts, replacing the toothed belt, checking and adjusting the timing

DELIVERY SCOPE

Flywheel docking tool, use as OEM 110300
Camshaft fixing tool, use as OEM 114280, 114281, 114282, 114283
Camshaft sensor wheel retainer, use as OEM 118520
Camshaft sensor wheel retainer, use as OEM 114290



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SUITABLE FOR:



ART.NR	ITEM NAME	
BT592200	Engine adjustment tool set for BMW N42, N46, N46T	

FOR THE FOLLOWING MODELS

E81 (116i, 118i, 120i) E87 (118i, 120i)
E88 (120i) E46 (316i, 316ti, 316i, 318ci, 318ti)
E90 (318i, 320i) E91 (318i, 320i) E92 (320i)
E93 (320i) E60 (520i) E83 (X3 2.0) E85 (Z4 2.0)

DESCRIPTION

For adjusting/checking the engine timing and Vanos unit

DELIVERY SCOPE

Clamping tool, use as OEM 119340
Sensor wheel adjustment tool, use as OEM 119350
E-camshaft interlock, use as OEM 119292
A-camshaft interlock, use as OEM 119291
Flywheel interlock, use as OEM 115120
Camshaft alignment, use as OEM 119270
Screw for interlock tool, use as OEM 119293
Crankshaft locking bolt, use as OEM 119190



SUITABLE FOR:



ART.NR	ITEM NAME	
BT591824	Crankshaft counter holder for BMW M52TU/M54/M56	

DESCRIPTION

For holding the crankshaft pulley while loosening or tightening the middle pulley screw
Enables safe, damage-free assembly/disassembly
Use with 12.5 mm (1/2") ratchet, slide grip etc.

SUITABLE FOR:



ART.NR	ITEM NAME	
BT593750	Engine adjustment tool set for MINI	

FOR THE FOLLOWING MODELS

Suitable for the following models: MINI One, Cooper, Cooper S, Cooper S JC Cooper S JCW (series R50, 52, 53, 55, 56, 57)

ENGINE CODES

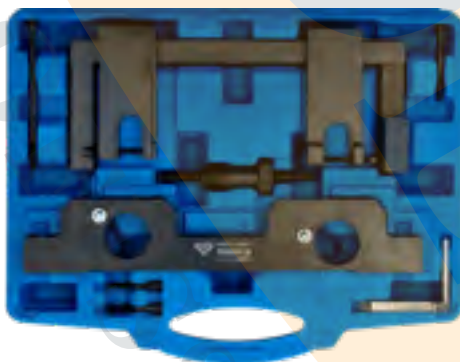
For engine codes W10, W11, N14

DESCRIPTION

For working on intake and exhaust camshafts

DELIVERY SCOPE

Fixing of camshafts, use as OEM 119551 and 119552
Fixing of crankshaft, use as OEM 119590
Tools for chain tensioner, use as OEM 119340



SUITABLE FOR:



ART.NR	ITEM NAME	
BT591750	Engine adjustment tool set for BMW N20, N26	

FOR THE FOLLOWING MODELS

For the following BMW models: 320i (F30) (2.0 I N20B20) from 2012, 328i (F30) (2.0 I N20B20) from 2012 onwards, X1 xDrive20i, sDrive20i (E84) (2.0 I N20B20) 2010-2012

DESCRIPTION

For checking and adjusting the camshaft timing e.g. when working on the valve train, replacing the cylinder head seal etc.
Use as OEM 119340, 2212830, 2212831, 2219548

SUITABLE FOR:



ART.NR	ITEM NAME	
BT591810	Engine adjustment tool set for BMW N62, N73	

FOR THE FOLLOWING MODELS

E60, E61, E63, E64, E65, E66, E53
540i, 545i, 550i, 645i, 650i, 735i, 740i, 745i, 750i, 760i, X5

ENGINE CODES

With engines of the following series: N62 B40A, B44A, B48B (year of construction 2003, 2010), N62 B44A, B48B (year of construction 2003, 2010), N62 B36A, B40A, B44A, B48B, N73 B60A (year of construction 2002, 2008), N62 B44A, B48A (year of construction 2003, 2007)

DESCRIPTION

For checking and adjusting the engine timing

DELIVERY SCOPE

Holder
Timing chain tensioner
Intake camshaft interlock
Discharge camshaft interlock
Crankshaft interlock
Graduated disc segment
Spacer
Socket
Special ring with indicator
Crankshaft marking pin

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SUITABLE FOR:

ART.NR	ITEM NAME	
BT591550	Engine adjustment tool set for BMW N47, N47S, N57	

FOR THE FOLLOWING MODELS

Installed in the following vehicles: 116d 118d 120d 123d, product line E81 E82 E87 E88 F20, 316d 318d 320d 325d 330d product line E90 E91 E92 E93 F30, 520d 525d 530d 530d GT 535d 535d GT M550d, product line E60 E61 F07 F10 F11, 640d product line F12, 730d 740d 750d, product line F01, X1 1.8d 2.0d 2.3d, product line E84, X3 1.8d 2.0d 3.0d, 3.5d product line E83 F25, X5 3.0d 4.0d M5.0d, product line E70, X6 3.0d 4.0d M5.0d, product line E71

DESCRIPTION

For adjusting and checking the engine timing
Used when installing or removing the camshaft, replacing the timing chain, replacing the cylinder head seal

DELIVERY SCOPE

Crankshaft lathe tool, use as OEM 116480
Camshaft interlock, use as OEM 118760
Sprocket support sleeve, use as OEM 118740, 118741, 118742
Crankshaft gear locking pin, use as OEM 115320

SUITABLE FOR:

ART.NR	ITEM NAME	
BT591500	Engine adjustment tool set for BMW M60, M62	

DESCRIPTION

For adjusting the camshaft e.g. after replacing the timing chain and cylinder head seal
Suitable for BMW engines in the M60 and M62 series
Use as OEM 112441, 112442, 112445, 112446, 112300, 113390

DELIVERY SCOPE

Camshaft interlock
Flywheel interlock

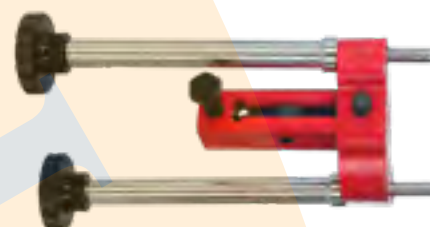


SUITABLE FOR:

ART.NR	ITEM NAME	
BT591822	Crankshaft Holding Tool for BMW N47, N57	

DESCRIPTION

For holding the crankshaft in place
Use as OEM 114320
Required when replacing the secondary drive chain
Supplementary tool for engine adjustment tool set for BMW Art. BT591550



SUITABLE FOR:

ART.NR	ITEM NAME	
BT591850	Engine adjustment tool set for BMW N63	

DESCRIPTION

For adjusting the engine timing when replacing the timing belt, repairing the cylinder head, replacing the cylinder head seal, etc.

DELIVERY SCOPE

Crankshaft interlock, use as OEM 118570, 119190
Camshaft interlock, use as OEM 119890
Knurled screw, use as OEM 119891
Hold-down bar, use as OEM 119892
Snap gauge for intake and discharge camshaft, use as OEM 119893
Spacer, use as OEM 119894

SUITABLE FOR:

ART.NR	ITEM NAME	
BT591825	Timing chain tensioning tool for BMW N63	

DESCRIPTION

Needed for adjusting the engine timing
Calibrating the timing without this tool may result in faulty settings
Use as OEM 119900



SUITABLE FOR:

ART.NR	ITEM NAME
BT591860	Balancing shaft locking tool for BMW N20

DESCRIPTION

For locking the balancing shaft and securing the sprocket
Needed e.g. when carrying out repairs on the chain drive

DELIVERY SCOPE

- 1 balancing shaft fixing mandrel, use as OEM 2212825
- 1 sprocket holder, use as OEM 2318117
- 2 screws PH3 M6 x 1.0 drive external hex SW 10 (length: 26mm)



SUITABLE FOR:

ART.NR	ITEM NAME
BT591870	Engine adjustment tool set for MINI, Citroën, Peugeot 1.6L diesel

FOR THE FOLLOWING MODELS

BMW MINI, MINI Clubman, series R55, R56, R57
Citroën C2, C3, C4, C5, Grand Picasso, Berlingo (MK3), Xsara Picasso
Peugeot 206, 206cc, 207, 207cc, 1007, 307, 308, 308cc, 3008, 5008, Partner (MK3)

ENGINE CODES

Engine codes: BMW: W16D16 (9HZ), W16D16UO, PSA: 9HZ, 9HX, 9HY (DV6TED4)

DESCRIPTION

For adjusting and checking the engine timing
Suitable for the following models with a 1.6L diesel engine

DELIVERY SCOPE

- Crankshaft marking pin, use as OEM PSA 0194A, BMW 119790
- Marking pins for camshaft and high-pressure pump, use as OEM PSA 0194B, BMW 110300
- Flywheel interlock, use as OEM PSA 0194C, BMW 119850, 119851, 119852

SUITABLE FOR:

ART.NR	ITEM NAME
BT591880	Engine adjustment tool set for BMW, Land Rover V8

FOR THE FOLLOWING MODELS

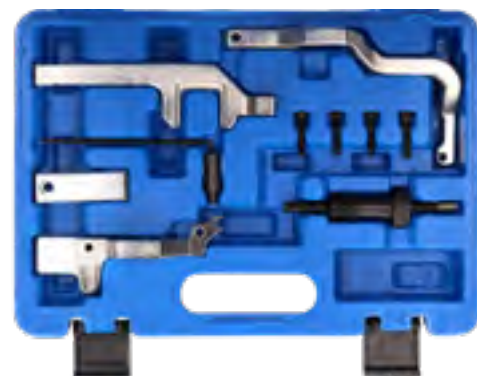
BMW 530i (1994, 1995), 540i (1997, 2003), 740i (1993, 1995), 740iL (1993, 2001), 840Ci (1995, 1996), X5 (2000, 2003)
Range Rover with M60, M62 and M62TU V8 engines

DESCRIPTION

For adjusting and checking the engine timing
Needed e.g. when working on the valve train and replacing the cylinder head seal

DELIVERY SCOPE

- Discharge camshaft adjustment tool (cylinders 1-4), use as OEM BMW 112445, Rover LRT 12-223/2
- Intake camshaft adjustment tool (cylinders 1-4), use as OEM BMW 112441, Rover LRT 12-223/1
- Intake camshaft adjustment tool (cylinders 5-8), use as OEM BMW 112442, Rover LRT 12-223/3
- Discharge camshaft adjustment tool (cylinders 5-8), use as OEM BMW 112446, LRT 12-223/4
- Fixing tools for camshaft adjuster (A-D)
- Crankshaft locking pin, use as OEM 112300
- Timing chain tensioner, use as OEM 113390



SUITABLE FOR:

ART.NR	ITEM NAME
BT593800	Engine adjustment tool set for MINI, PSA

FOR THE FOLLOWING MODELS

MINI One, Cooper HB, Cooper (R55-56) N12 engine
Citroën C4 (year of construction 2008, 2009), C4 Picasso (year of construction 2008, 2009)
Peugeot 207 (year of construction 2006, 2009), 207CC (year of construction 2007, 2009), 308 (year of construction 2001, 2009)
Engines: 1.4, 1.6 VTi, EP3 (8FS) EP6 (5FW), EP6C 1.6 THP, EP6DT (5FX) EP6DTS (5FY)

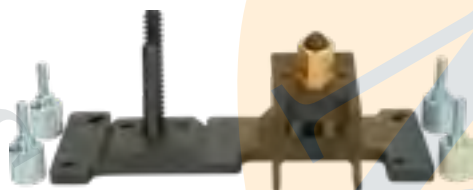
DESCRIPTION

Needed when replacing the cylinder head seal and when working on the engine timing

DELIVERY SCOPE

- Crankshaft fixer, use as OEM 119590, 0197-BZ
- Camshaft fixer, use as OEM 119540, 0197-A1, 0197-A3
- Chain tensioner, use as OEM 119340, 0197-M





SUITABLE FOR: 

ART.NR	ITEM NAME	
BT541060	camshaft assembly tool for BMW N53, N54	
DESCRIPTION		
For holding down the valve springs when fitting the camshafts		
Prevents breakage of the camshaft		
DELIVERY SCOPE		
Camshaft assembly tool, use as OEM 11 8 550, consisting of:		
Valve spring hold-down device, use as OEM 11 8 551		
Fixing bolt, use as OEM 11 8 552		

SUITABLE FOR: 

ART.NR	ITEM NAME	
BT593750	Engine adjustment tool set for MINI	
FOR THE FOLLOWING MODELS		
Suitable for the following models: MINI One, Cooper, Cooper S, Cooper S JC Cooper S JCW (series R50, 52, 53, 55, 56, 57)		
ENGINE CODES		
For engine codes W10, W11, N14		
DESCRIPTION		
For working on intake and exhaust camshafts		
DELIVERY SCOPE		
Fixing of camshafts, use as OEM 119551 and 119552		
Fixing of crankshaft, use as OEM 119590		
Tools for chain tensioner, use as OEM 119340		

SUITABLE FOR: 

ART.NR	ITEM NAME	
BT641060	fly wheel locking tool for Citroën, Fiat, Peugeot	
FOR THE FOLLOWING MODELS		
Citroën, Fiat, Peugeot		
Also suitable for structurally identical engines in BMW, Renault, Mercedes		
DELIVERY SCOPE		
Flywheel interlock, use as OEM BMW 119260, Renault MOT 582-01, PSA 0153A, 6012T, 9765.54, Fiat 1860161000, 1867030000, Mercedes 607589014000		



SUITABLE FOR:    

ART.NR	ITEM NAME	
BT671050	drive shaft retractor set	
FOR THE FOLLOWING MODELS		
M16 x 1.5 mm: for Subaru		
M20 x 1.5 mm: for VW Beetle, Touareg, Porsche Cayenne		
M22 x 1.5 mm: for BMW E30, E46		
M24 x 1.5 mm: for BMW E36, Mercedes W203		
M27 x 1.5 mm: for BMW E32, E34, E38, E39, X5		
M30 x 1.5 mm: for BMW E32, E34, E36		
DESCRIPTION		
For pulling the drive shaft into the wheel hub		
In a standardised industrial bearing		
Contains 6 pulling sleeves with various threads		



CHEVROLET



SUITABLE FOR:    

ART.NR	ITEM NAME
BT591300	Engine adjustment tool set for Opel 1.6, 1.8

DESCRIPTION

Contains tools for locking the camshaft and crankshaft

Suitable for 1.6 and 1.8 L engines with toothed belt control, installed in models from Opel, Vauxhall, Chevrolet, Fiat, Alfa Romeo (2003-2012), e.g. Astra G, H, Corsa D, Insignia, Meriva, Signum, Vectra C, Zafira B (2003-2011)

Suitable for Chevrolet Cruze, Orlando 1.4 1.6 1.8 and Fiat Croma, Alfa Romeo 159 with 939A4.000 engines

Use as OEM tools KM-6628-A, 2000012000, KM-6340, 2000012100, KM-6333, KM-6625, 2000012800, KM-6349, KM 6130, KM-911



SUITABLE FOR:  

ART.NR	ITEM NAME
BT594300	Engine adjustment tool set for Opel, Chevrolet 2.0 CDI

DESCRIPTION

For replacing the toothed belt and checking the timing

Holds the camshaft and crankshaft in the correct position

Suitable for 2.0 L common rail diesel engines with engine code Z20DM, Z20DMH, LLWZ20DMH, RA420, Z20SI, Z20S3, Z20S4, Z20S5

DELIVERY SCOPE

Camshaft interlock, use as OEM EN-48245

Crankshaft interlock, use as OEM EN-48246

SUITABLE FOR:   

ART.NR	ITEM NAME
BT593870	Engine adjustment tool set for Opel, Saab, Chevrolet 2.0, 2.4

FOR THE FOLLOWING MODELS

Opel Astra, Insignia, Antara

Chevrolet Captiva, HHR, Malibu

Saab 9-5

With engines: OPC, OPC/XR, Turbo, E85, Turbo T-B

ENGINE CODES

2.0L > LHU, A20NFT, LTG, A20NHT, LDK, A20NHT

2.4L > A24XE, A24XF, LE5, LE9

DESCRIPTION

For adjusting the engine timing when replacing the timing chain etc.

Suitable for 2.0 L and 2.4 L petrol turbo engines with dual camshafts

DELIVERY SCOPE

Crankshaft wheel alignment tool, use as OEM EN-48585

Flywheel locking tool, use as OEM EN-43653, J43653

Tensioning element locking pin, 2.5 mm, use as OEM EN-955-10, KM 955

Tensioning element locking pin, 4.0 mm, use as OEM EN-955-20, KM 955-20

Tensioning tappet resetting tool, use as EN-45027-1, J-45027-1

Tensioning tappet holder, use as OEM J45027-2, EN45027-2, EN-45027

Camshaft interlock (left-hand side), use as OEM EN-49212, EN-49212-1

Camshaft interlock (right-hand side), use as OEM EN-49212, EN-49212-2

Camshaft adjuster holding tool, use as OEM EN-48953

SUITABLE FOR:   

ART.NR	ITEM NAME
BT593815	Engine adjustment tool set for Opel, Saab, Buick, Cadillac, Chevrolet 2.8, 3.6 V6

FOR THE FOLLOWING MODELS

Buick Enclave 3.6, engine code: LY7

Cadillac SRX, STS, CTS 3.6, engine code: LY7, LLT

Chevrolet Camaro 2.8, engine code: LTT, LFX

Opel Insignia 2.8 V6 Turbo, engine code: LAU/A28NER

Opel Antara 3.2 V6 (from 2007 onwards), engine code: Z32SE

Saab 9-5 2.8 (2009-2013), engine code: LAU/A28NER

DESCRIPTION

For adjusting and checking the engine timing

DELIVERY SCOPE

Camshaft adjustment tools, use as OEM EN-48383-1, EN-48383-2, EN-48383-3

Flywheel locking tools, use as OEM EN-46106

Crankshaft turning tool, use as OEM EN-46111



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CHRYSLER



SUITABLE FOR: **CHRYSLER Jeep**

SUITABLE FOR: **CHRYSLER Jeep**

ART.NR	ITEM NAME	
BT593890	Engine adjustment tool set for Chrysler 2.5 CRD	

FOR THE FOLLOWING MODELS

Chrysler Voyager, Grand Voyager R2516C, R2516L, R2816K engines
Jeep Cherokee (year of construction 2001, 2008) 2.5, 2.8 engines
LDV Maxus (year of construction 2005, 2008) VM2516L engines

DESCRIPTION

For checking and adjusting the engine timing

DELIVERY SCOPE

Camshaft locking pin (intake), use as OEM VM1052
Camshaft locking pin (exhaust), use as OEM VM1053
Flywheel locking pin (Voyager, Grand Voyager 2.5, 2.8 and LDV Maxus), use as OEM VM1068, VM1089
Flywheel locking pin (Jeep Cherokee 2.8), use as OEM VM1080
Flywheel locking pin (Jeep Cherokee 2.5), use as OEM VM8873
Tensioning spanner, use as OEM VM9660
Balance shaft locking pin
Flywheel locking pin

ART.NR	ITEM NAME	
BT593670	Engine adjustment tool set for Chrysler, Jeep, Dodge 2.8l Diesel	

FOR THE FOLLOWING MODELS

Grand Voyager
Jeep Cherokee
Wrangler
Dodge Nitro

ENGINE CODES

Engine codes: VM64C, ENS, ENS (51C), 49C, 50C, ENS VM10D, ENS VM11D

DESCRIPTION

For checking and adjusting the engine timing

DELIVERY SCOPE

Camshaft locking tool, use as OEM VM9991
Crankshaft locking tool, use as OEM VM9992



SUITABLE FOR: **Universal**

ART.NR	ITEM NAME	
BT596002	Universal camshaft wheel puller	

DESCRIPTION

For pulling the pulley and camshaft gear
Gripping arms are connected with each other via adjusting disk, thus the gripping arms can be set easily and exactly
Continuous adjustment range of the gripping arms from 42 - 82 mm
Gripping arm depth is 27 mm

DELIVERY SCOPE

3 x gripping arms, Ø 12 mm, M10 x 1.5, suitable for material thickness up to max. 10 mm
6-groove puller body with adjusting disc
Spindle, M14 x 1.5, 19 mm hex, with centring cone



ART.NR	ITEM NAME	
BT591260	Camshaft sprocket locking tool set, universal	

FOR THE FOLLOWING MODELS

Can be used universally on vehicles from the following manufacturers: Audi, Alfa Romeo, Chrysler, Citroën, Ford, Honda, Hyundai, Isuzu, Land Rover, Lexus, Mazda, Mitsubishi, Peugeot, Renault, MG, Seat, Skoda, Subaru, Toyota, Opel, Volkswagen, Volvo

DESCRIPTION

For locking the camshaft sprockets e.g. when replacing the toothed belt
Suitable for engines with 1, 2 and 4 camshafts (V engines); also suitable for locking between the camshaft sprocket and diesel injection pump wheel in some diesel engines

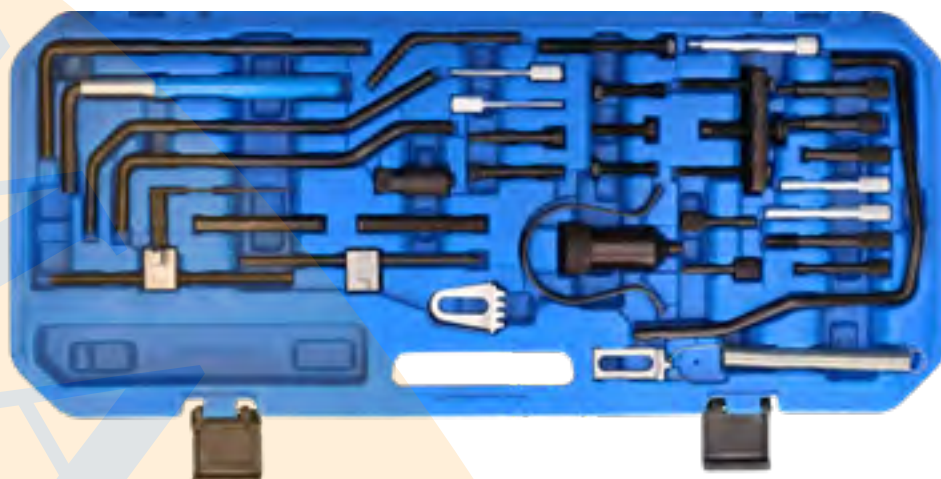
DELIVERY SCOPE

Double camshaft locking tool with short and long connecting arm
Single camshaft locking tool with short and long locking screw



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ART.NR	ITEM NAME
BT595700	Camshaft locking tool set for VAG, Ford, Opel, Saab

DESCRIPTION
Universal set for a wide range of models

DELIVERY SCOPE
Camshaft interlock for Opel Calibra, Omega, Sintra, Vectra -1.8, 2.0, use as OEM KM-852, 18G1570
Camshaft interlock for Opel Calibra, Omega, Sintra, Vectra -1.4, 1.6, use as OEM KM-853
Right camshaft with Saab 900, 900 -2.5, 3.0, Opel Calibra, Sintra, Vectra -2.5, 3.0, use as OEM KM-800-2
Left camshaft with Saab 900.900 -2.5, 3.0, Opel Calibra, Sintra, Vectra -2.5, 3.0, use as OEM KM-800-1
Crankshaft toothed belt pulley interlock tool for TDI pump-injection engines with VW, Audi, Skoda, Seat and Ford, use as VAG T10050
Flywheel interlock tools for Citroën, Fiat and Peugeot, use as OEM 153A, 6012T, 9765.54
Flywheel holder unit for Isuzu 1.5 and 1.7 diesel, Opel 1.6, 1.7 diesel engines, Opel 1.2, 1.4, 1.6, 1.8, 2.0 OHC petrol engines, use as OEM KM-517-B



ART.NR	ITEM NAME
BT592250	Engine adjustment tool set for PSA

FOR THE FOLLOWING MODELS
Petrol 1.0, 1.1, 1.4, 1.5, 1.6, 1.6 16V, 1.8, 1.8 16V, 1.9, 2.0, 2.0 16V, 2.0 Turbo
Diesel 1.4D, 1.4HDI, 1.5D, 1.7D, 1.7TD, 1.9D, 1.9TD, 2.0Hdi, 2.1TD 2.1TD, 2.2D, 2.5TD, 2.2Hdi
Suitable for structurally identical engines in Toyota and Fiat

ENGINE CODES
159A, 161A, 171B, 171C, 171D, 180A, 180Z, 3FZ (EW12J4), 4HX (DW12ATED), 4HZ (DW12ATED) 6FZ (EW7J4), A8A, A9A, AJZ, B1A /E /F, B2C, B4A, B6D, B6E, BAY, BDY, BFZ, C1A, CDY, CDZ, D2A /C /E /F, D6A /B /D /E, D8A /B /C, D9B, DDZ, DFZ, DHV /W /X /Y, DJ5 (T9A), DJ5T (T8A), DJY, DJZ, DKZ, EW10J4D, EW7J4, H1A, HDY, HDZ, K1A, K1F, K1G, K2A, K2B, K2D, K3A, K6B, KDX, KDY, KDZ, KFW, KFX, KFY, KFZ, L6A, LFW, LFX, LFY (XU7JP4), LFZ, M4A, NFU, NFX (TU5J4/L3), P8A, P8B, P8C, P9A, PHZ (XUD11), R2A, R6A, R6D, RDZ, RFR, RFN (EW10J4), RFS, RFT, RFU, RFV, RFW, RFX, RFY, RFZ, RGX, RGY, RHW (DW10ATED4), RHY (DW10ATD), RHZ (DW10ATED/L), RLZ(EW10J4D), T8A/THZ (DJ5T), T9A (DJ5), THX (DJ-5TED), THY (DK5ATE), TU1/2/3/5/9, TU1/3/5 (HFY, HFZ, KFX, NFZ), TU5J4/L3 (NFX), TU5JP4 (NFU), WJY (DW8B), WJZ (DW8), XU10J2C/Z, XU10J2CTE/L3, XU10J2TE/Z, XU10J4R/S (RFV/R6E/RFS), XU10J4RS (RFS), XU10J4RS (RFS), XU10-R2A, R5A, R6A, RDZ, XU5-171B, 180A, B1E, XU5-B6D/E, B1A, B1E, B2A, B2B, BDY, BDZ, XU5JP (BFZ), XU7JP4 (LFY), XU7-L6A, LFW, LFX, LFZ, XU9.D2H, D6A, D6B, D6D, DDZ, DKZ, DFZ, XU9-D2A/D, XU9J4, XUD 11 BTE (P8C), XUD11A, XUD11ATE, XUD7 (A9A), XUD7TE, XUD9 (DHY), XUD9A (D9B/DJY), XUD9AU (D8C), XUD9SD (DHW), XUD9TF (D8B), XUD9UTF (DHY), XUD9Y (DJZ)

DESCRIPTION
For adjusting the engine timing e.g. when replacing the toothed belt

DELIVERY SCOPE
Clamping tool, use as OEM 4507-TJ, 9767.89, 0188G1, 0132X1Z, 0188G1, 0132X1Z, 0132X
Camshaft adjustment pin 6 mm, use as OEM 4507-TA, 0132Z, 0132QZ
2 crankshaft/camshaft adjustment pins, use as OEM 0153ZY, 4507-TB, 0153AB, 9041-TZ, 0132R, 9767.27
Flywheel locking pins, use as OEM 4507-TL, 0189C
Adjustment tool, angled, 8 mm, use as OEM 0188D, 7004TG, 9767-34, 0153G, 7014-TJ, 1 860 863 000, 0153N

Bolts M8 x 35 mm / M8 x 40 mm / M8 x 70 mm
Flywheel adjustment pin, 7 mm, use as OEM 7017-TR
Flywheel adjustment pin, 8 mm, use as OEM 1 860 863 000, OUT0000127, 0153N, 0288D, 7099-TM, 0188Y, 0188D
Flywheel adjustment pin with spring, use as OEM 0188X, 0189X
Camshaft adjustment pin, use as OEM 18G 1580, 11 9 790, 5711-TD, 21-260, 07744-1110400, 303-732, 4527-T.S2, 07744-00104-00, 1 860 617 000, 0132AB, 999 7169, 0178D
Injection pump adjustment pin, use as OEM 0188H
Crankshaft/camshaft adjustment pin, use as OEM 0188M, 0187B, 0194B, 303-1277, MOT1430, 0189B, 303-735, 49JE01 061, 21-263
Injection pump adjustment pin, use as OEM 4527-T.S1
Camshaft adjustment pin (CA1), use as OEM 4533-TAC1, 0132AJ1
Camshaft adjustment pin (CA2), use as OEM 0132AJ2, 2000 023 000, 0188M, 4533-TAC2
2 camshaft adjustment pins, use as OEM 9041-TZ, 5711-TC
Camshaft adjustment pin, use as OEM 0189A, 1 871 008 100
Camshaft adjustment pin, use as OEM 0189AZ
Intake camshaft adjustment pin (VTC), use as OEM 0189L
Tension lever, use as OEM 5711-TE, 0178E, 0188JJ1
Flywheel locking tool, use as OEM 0188F, 0134Q, 1 870 765 001, 1 870 827 000, 0134AF, 9044-T, 1 871 000 400
Hdi tension lever, use as OEM 0188J2
Tensioning spanner, 8 mm, use as OEM 7017-TW
Toothed belt retaining clip, use as OEM 0189K, MOT1436, 4533-TAX, 0188K, 0187J, 0132AK, 0153AK, 1 870 00 100
Flywheel locking tool, use as OEM 1 867 030 000, 0153A, 9765.54, 6012T, 1 860 161 000
Roller extractor, use as OEM 0174, 0188P, 018892, 7015-T



SUITABLE FOR:

CITROËN PEUGEOT

ART.NR	ITEM NAME
BT592300	Engine adjustment tool set for PSA 1.8, 2.0 16V petrol

FOR THE FOLLOWING MODELS

Citroën C5 1.8, 2.0 HPI (2002, 2005) Xsara 2.0 16V (2002, 2005) Xsara, Picasso 1.8, 2.0 16V (2002, 2005)
Peugeot 406 1.8 16V (2000, 2004), 807 2.0 16V (2002, 2005)
Engine codes 6FZ (EW7J4) FRN (EW10J4, L4, 5) RLZ (EW10D)

DESCRIPTION

Contains important tools for checking and adjusting the engine timing when replacing the toothed belt and carrying out repairs on the engine

DELIVERY SCOPE

Tension roller locking tools, use as OEM 0189S2
Tool for tensioner, use as OEM 0178E, 5711TE, 178J/J2
Tools for tensioner, use as OEM 0188J2
Adjustment tools for tensioning unit, use as OEM 0189S1
Locking pins, use as OEM 0132AB, 0194A, 0178D
Locking pin, use as OEM 0194B
Locking pin, use as OEM 0188M
Locking pin, use as OEM 0189B
Flywheel locking tools, use as OEM 0189R
Interlock for tensioning unit, use as OEM 7017TR, 0153U
Adjustment tools for crankshaft wheel, use as OEM 0188AH

SUITABLE FOR:

CITROËN IVECO PEUGEOT

ART.NR	ITEM NAME
BT592520	Engine adjustment tool set for Fiat Ducato, Peugeot Boxer, Citroën Jumper 2.3 D JTD, 3.0 JTD, HDi

FOR THE FOLLOWING MODELS

Citroën Relay/Jumper III
Fiat Ducato
Iveco Daily (03-10), Daily/EcoDaily (2009-2011)
Peugeot Boxer III (2006-2012)
2.3D, 2.3 JTD F1AE0418A, F1AE0481B, F1AE0481C, F1AE0418D, F1AE0481F, F1AE0481FA, F1AE0481G, F1AE0481H, F1AE0481HA, F1AE0481N, F1AE0481UA, F1AE0481VA
3.0Hdi F30DTE, F1CE0481D, F1CE3481DM, F1CE3481N

DESCRIPTION

Use as OEM Fiat 99360187, 99360614, 99360615, 1860617000, 1860815000, 20000180200, Citroën/Peugeot 0191-2A, 0191-2B, 0191-2J, 0191-2K

DELIVERY SCOPE

2 camshaft fixing mandrels
1 crankshaft fixing mandrel

SUITABLE FOR:

CITROËN Ford MITSUBISHI PEUGEOT

ART.NR	ITEM NAME
BT592320	Balance shaft adjustment tool set for Land Rover, Citroën, Mitsubishi, Peugeot, Ford 2.2 DOHC diesel engines

FOR THE FOLLOWING MODELS

Land Rover Discovery, Discovery Sport, Freelander 2, eD4, TD4, TD4e (2009-2015) engine codes: 224DT, DW12CTE-D4/224DT, DW12BTED4/224DT
Citroën C5, C5 II, C5 III, C6, C8, C-Crosser HDi (200-2015) engine codes: 4HX (DW12CTED4), 4HP (DW12BTED4), 4HX (DW12TED4), 4HW (DW12TED4/L4)
Mitsubishi Outlander DI-D, DI-DC (2007-2013) engine codes: 4HK, 4HN
Peugeot 4007, 407, 607, 807, 406, 508, 607, HDi, GT HDi (2000-2015) engine codes: DW12MTED4 (4HK), DW12MTED4 (4HN), DW12BTED4 (4HP), DW12BTED4 (4HR), DW12BTED4 (4HT), DW12TED4/L4 (4HW), DW12BTED4 (4HS), DW12ATED (4HZ), DW12ATED4 (4HX), DW12ATED (4HZ), DW12CTED4 (4HL)
Ford Galaxy, Mondeo, S-Max, TDCI, TCI (2008-2015) engine codes: KNBB, KNBA, KNWA, G4BA

DESCRIPTION

For adjusting the balance shaft

DELIVERY SCOPE

Balance shaft fixing tool, use as OEM 303-1329
Balancing tool, use as OEM 303-1330
Balance shaft adjustment tool, use as OEM 303-1328, 0190D

BT022992

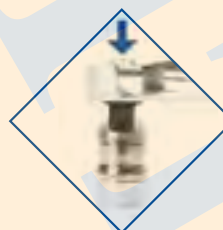
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1/2" Telescopic reversible ratchet

1/2"



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305 - 445 mm

72

5°



SUITABLE FOR:



ART.NR	ITEM NAME
BT593750	Engine adjustment tool set for MINI

FOR THE FOLLOWING MODELS

Suitable for the following models: MINI One, Cooper, Cooper S, Cooper S JC Cooper S JCW (series R50, 52, 53, 55, 56, 57)

ENGINE CODES

For engine codes W10, W11, N14

DESCRIPTION

For working on intake and exhaust camshafts

DELIVERY SCOPE

Fixing of camshafts, use as OEM 119551 and 119552

Fixing of crankshaft, use as OEM 119590

Tools for chain tensioner, use as OEM 119340



SUITABLE FOR:



ART.NR	ITEM NAME
BT597940	Engine adjustment tool set for Peugeot, Citroën, PSA

FOR THE FOLLOWING MODELS

Citroën AX, Berlingo, BX, C5, C15, C25, Dispatch, Evasion, Jumper, Jumpy, Relay, Saxo, Synergie, Visa, Xsara, Xantia, XM, XJR, ZX, etc.

Peugeot 106, 205, 306, 405, 406, 605, 806, J5, Boxer, Expert, Partner, Solara, Talbot Express, Talbot Horizon, etc.

PSA petrol engines 1.9, 1.1, 1.4, 1.6, 1.8, 1.9, 2.0, 1.6, 1.8, 2.0, 2.2 16V (turbo and dual camshafts)

PSA diesel engines 1.4, 1.5, 1.7, 1.8, 1.9, 2.1, 2.5 D, TD, TDI, 1.4, 1.6, 2.0, 2.2 HDI

Suitable for structurally identical engines in Fiat, Ford, Nissan, Renault, Rover, Toyota, etc.

DESCRIPTION

For checking and adjusting the engine timing

DELIVERY SCOPE

Flywheel adjustment pin with spring, use as OEM 0188X, 0189X

Tensioning spanner, 8 mm, use as OEM 7017-TW

Flywheel fixing mandrel, 7 mm, use as OEM 7017-TR

Angled adjustment pin, 8 mm, use as OEM 0188D, 7004TG, 9767-34, 0153G, 7014-TJ, 1 860 863 000, 0153N

Clamping tool, use as OEM 4507-TJ, 9767.89, 0188Q1, 0132X1Z, 0132X

Camshaft marking mandrel, use as OEM 0189A, 1 871 008 100

Hdi tension roller lever, use as OEM 0188J2

Tension roller lever, use as OEM 5711-TE, 0178E, 0188J/J1

Flywheel disc extractor, use as OEM 0174.0188P, 018892, 7015-T

Toothed belt retaining clamp, use as OEM 0189K, MOT1436, 4533-TAX, 0188K, 0187J, 0132AK, 0153AK, 1 870 00 100

Flywheel retainer, use as OEM 0195K, 4507-TL

Clamping tool, use as OEM 0189S1

Flywheel retainer, use as OEM 1867030000, 0153A, 9765.54, 6012T, 1860161000

Tension lever, use as OEM 0189S2

Angled locking pin, 5 mm

Flywheel fixing mandrel (for automatic transmission), use as OEM 0189R

Camshaft marking mandrel, use as OEM 0189AZ

Crankshaft retainer, use as OEM 0288D, 0188Y, 7014

Flywheel fixing mandrel (manual transmission), use as OEM 0189C

Flywheel interlock, use as OEM 0188F, 0134Q, 1870765001.1870827000, 0134AF, 9044-T, 1871000400

Camshaft marking mandrel (CA1), use as OEM 4533-TAC1, 0132AJ1

Camshaft and crankshaft retainer, use as OEM 0188M, 0187B, 0194B, 303-1277, MOT1430, 0189B, 303-735, 49JE01061, 21-263

Camshaft marking mandrel (CA2), use as OEM 0132AJ2, 2000023000, 0188M, 4533-TAC2

Marking mandrel for injection pump, use as OEM 4527-TS1

Injection pump fixing mandrel, use as OEM 0188H, 1 860 965 000

Flywheel fixing mandrel, use as OEM 49JE02020, 0194C, 21-262, 999-7121, 999-7169, 303-734

2 camshaft and crankshaft marking mandrels, use as OEM 4507-TB.7014-TN, 0132-R, 0153-AB, 0158-G

2 camshaft and crankshaft interlocks, use as OEM KM-955, 7014-TM

2 camshaft marking mandrels, use as OEM 9041-TZ, 5711-TC

2 crankshaft fixing mandrels, use as OEM 5711-TD, 119790, 0194A, 1860617000, 303-732, 07744-00104-00, 49JE02018, 0178D, 9997169, 4527-TS2, 21-260, 999-7169, 0132AB

Camshaft fixing mandrel, use as OEM 0189L

Screw M8 x 80 mm

Pin for clamping device, 3 mm, use as OEM 0153AL, 4200TA

Centring clip for crankshaft pulley, use as OEM 0188AH

Crankshaft marking mandrel, 6 mm, use as OEM 4507-TA, 0132Z, 0132QZ



SUITABLE FOR:

ART.NR	ITEM NAME	
BT591580	Engine adjustment tool set for BMW, MINI, PSA	

FOR THE FOLLOWING MODELS

BMW 1.6 (N40, N45, N45T, B16, B16A, B16AC) 1.8, 2.0 (N42, N46, N46T) 2.0, 3.0 (N51, N52, N52K, N53, N54)
PSA 1.4, 1.6 16V (EP3, EP6, EP6DT, EP6DTS)
MINI 1.4, 1.6 (N12, N14)

DESCRIPTION

For aligning new and old versions of balance shafts
Prevents non-concentric engine running due to incorrectly aligned balance shafts
Needed when changing the timing chain, replacing the crankshaft sealing ring, replacing the cylinder head seal etc.
Use as OEM 115140, 119280, 119330

DELIVERY SCOPE

Balance shaft fixing tool (old and new version)
Crankshaft counter support
Locking pin for chain tensioner

SUITABLE FOR:

ART.NR	ITEM NAME	
BT593750	Engine adjustment tool set for MINI	

FOR THE FOLLOWING MODELS

Suitable for the following models: MINI One, Cooper, Cooper S, Cooper S JC Cooper S JCW (series R50, 52, 53, 55, 56, 57)

ENGINE CODES

For engine codes W10, W11, N14

DESCRIPTION

For working on intake and exhaust camshafts

DELIVERY SCOPE

Fixing of camshafts, use as OEM 119551 and 119552
Fixing of crankshaft, use as OEM 119590
Tools for chain tensioner, use as OEM 119340



SUITABLE FOR:

ART.NR	ITEM NAME	
BT596002	Universal camshaft wheel puller	

DESCRIPTION

For pulling the pulley and camshaft gear
Gripping arms are connected with each other via adjusting disk, thus the gripping arms can be set easily and exactly
Continuous adjustment range of the gripping arms from 42 - 82 mm
Gripping arm depth is 27 mm

DELIVERY SCOPE

3 x gripping arms, Ø 12 mm, M10 x 1.5, suitable for material thickness up to max. 10 mm
6-groove puller body with adjusting disc
Spindle, M14 x 1.5, 19 mm hex, with centring cone



ART.NR	ITEM NAME	
BT591260	Camshaft sprocket locking tool set, universal	

FOR THE FOLLOWING MODELS

Can be used universally on vehicles from the following manufacturers: Audi, Alfa Romeo, Chrysler, Citroën, Ford, Honda, Hyundai, Isuzu, Land Rover, Lexus, Mazda, Mitsubishi, Peugeot, Renault, MG, Seat, Škoda, Subaru, Toyota, Opel, Volkswagen, Volvo

DESCRIPTION

For locking the camshaft sprockets e.g. when replacing the toothed belt
Suitable for engines with 1, 2 and 4 camshafts (V engines); also suitable for locking between the camshaft sprocket and diesel injection pump wheel in some diesel engines

DELIVERY SCOPE

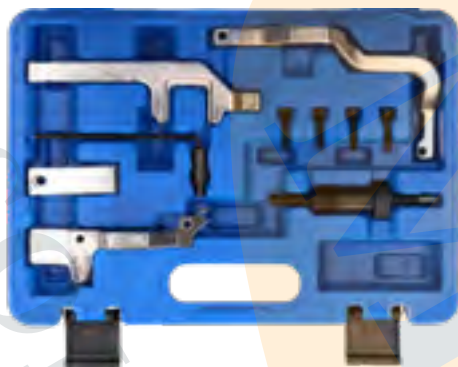
Double camshaft locking tool with short and long connecting arm
Single camshaft locking tool with short and long locking screw

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SUITABLE FOR:

ART.NR	ITEM NAME
BT593800	Engine adjustment tool set for MINI, PSA

FOR THE FOLLOWING MODELS

MINI One, Cooper HB, Cooper (R55-56) N12 engine
Citroën C4 (year of construction 2008, 2009), C4 Picasso (year of construction 2008, 2009)

Peugeot 207 (year of construction 2006, 2009), 207CC (year of construction 2007, 2009), 308 (year of construction 2001, 2009)

Engines: 1.4, 1.6 VTi, EP3 (8FS) EP6 (5FW), EP6C 1.6 THP, EP6DT (5FX) EP6DTS (5FY)

DESCRIPTION

Needed when replacing the cylinder head seal and when working on the engine timing

DELIVERY SCOPE

Crankshaft fixer, use as OEM 119590, 0197-BZ
Camshaft fixer, use as OEM 119540, 0197-A1, 0197-A3
Chain tensioner, use as OEM 119340, 0197-M

SUITABLE FOR:

ART.NR	ITEM NAME
BT593160	Engine adjustment tool set for Jaguar, Land Rover, Ford, Citroën 2.0, 2.2, 2.4, 3.2 diesel

FOR THE FOLLOWING MODELS

Ford Mondeo (2000 - 2007), Transit (2000 - 2011)

Citroën Relay (2006 - 2011), Jumper III

Fiat Ducato (2006 - 2011)

Jaguar X-Type (2001 - 2010)

Land Rover Defender (2007 - 2011)

Peugeot Boxer III (2006 - 2011)

LDV Convoy (2002 - 2006)

with DURATORQ (PUMA) diesel engines

ENGINE CODES

2.0L engine code ABFA, D3FA, D5BA, D6BA, F3FA, F5FA, FMBA, HJBA, HJBB, HJBC, HJBE, N7BA, N7BB

2.2L (with chain-driven high-pressure pump), engine code QJBA (BG), QJBB, QJBC, QJBD

2.2L (high-pressure pump driven via camshaft), engine code 4HM, 4HU, 4HV, P8FA, P22DTE, QVFA, QWFA

2.4L with engine code 244DT, D0FA, D2FA, D2FB, D4FA, F4FA, FXFA, H9FA, H9FB, HE FA, HFFA, JXFA, PHFA, ZSD 424

3.2L with engine code SAFA (timing only)

DESCRIPTION

For checking and adjusting the engine timing

Needed e.g. when working on the valve train and replacing the cylinder head seal

DELIVERY SCOPE

Engine cover adjustment tool, use as OEM 303-682

Tool for engine cover/crankshaft radial sealing ring, use as OEM 303-679A

High-pressure pump wheel holding tool, use as OEM 303-1151

High-pressure pump wheel disassembly tool, use as OEM 303-249

Flywheel locking bolt, use as OEM 303-675

Flywheel locking bolt, use as OEM 303-698

Locking pin set, 3 pcs, 6 mm

Tensioner locking pin, 2 mm

SUITABLE FOR:

ART.NR	ITEM NAME
BT593180	Engine adjustment tool set for Jaguar, Land Rover 2.7, 3.0 TD V6

FOR THE FOLLOWING MODELS

Citroën C5 III (2007 - 2009), C6 (2005 - 2009)

Jaguar S-Type (2004 - 2008), XF (2008 - 2012), XJ (2010 - 2012), XJ6 (2005 - 2010)

Range Rover Sport (2005 - 2009)

Peugeot 407 (2004 - 2009), 407 Coupe (2006 - 2009), 607 (2004 - 2011) 2.7TD V6, TDVi (276DT) 2.7D HDi (DT17BTD4) (UHZ) 3.0D HDi (D20CTED4) (X8Z) 3.0D SD V6, TD V6 (306DT) (AJ-V6D)

DESCRIPTION

For checking and adjusting the engine timing

Needed e.g. when working on the valve train and replacing the cylinder head seal

DELIVERY SCOPE

Flywheel interlock (manual), use as OEM (Rover) 303-1116

Flywheel interlock (automatic), use as OEM (Rover) 303-1117

Camshaft sprocket adjustment pin, use as OEM (Rover) 303-1132

Camshaft sprocket adjustment pin, 2 pcs, use as OEM (Rover) 303-1126, (PSA) 0195H

Water pump locking pin, use as OEM (PSA) 0195-C

Flywheel locking tool, use as OEM (PSA) 0195-K

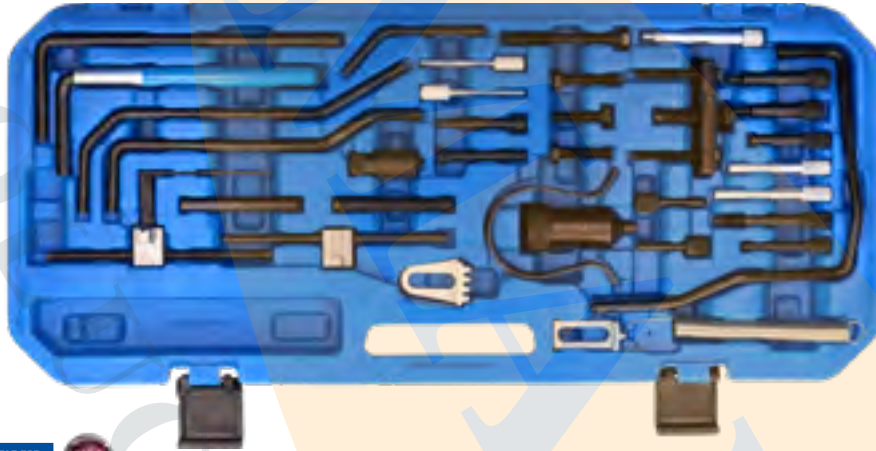
Toothed belt retaining clip, use as OEM (PSA) 0188-K



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FIAT



SUITABLE FOR: 

ART.NR	ITEM NAME	
BT592250	Engine adjustment tool set for PSA	

FOR THE FOLLOWING MODELS

Petrol 1.0, 1.1, 1.4, 1.5, 1.6, 1.6 16V, 1.8, 1.8 16V, 1.9, 2.0, 2.0 16V, 2.0 Turbo

Diesel 1.4D, 1.4HDI, 1.5D, 1.7D, 1.7TD, 1.9D, 1.9TD, 2.0Hdi, 2.1TD 2.1TD, 2.2D, 2.5TD, 2.2Hdi

Suitable for structurally identical engines in Toyota and Fiat

ENGINE CODES

159A, 161A, 171B, 171C, 171D, 180A, 180Z, 3FZ (EW12J4), 4HX (DW12ATED), 4HZ (DW12ATED) 6FZ (EW7J4), A8A, A9A, AJZ, B1A /E /F, B2C, B4A, B6D, B6E, BAY, BDY, BFZ, C1A, CDY, CDZ, D2A /C /E /F, D6A /B /D /E, D8A /B /C, D9B, DDZ, DFZ, DHV /W /X /Y, DJ5 (T9A), DJ5T (T8A), DJY, DJZ, DKZ, EW10J4D, EW7J4, H1A, HDY, HDZ, K1A, K1F, K1G, K2A, K2B, K2D, K3A, K6B, KDX, KDY, KDZ, KFW, KFX, KFY, KFZ, L6A, LFW, LFX, LFY (XU7JP4), LFZ, M4A, NFU, NFX (TU5J4/L3), P8A, P8B, P8C, P9A, PHZ (XUD11), R2A, R6A, R6D, RDZ, RFR, RFN (EW10J4), RFS, RFT, RFU, RFV, RFW, RFX, RFY, RFZ, RGX, RGY, RHW (DW10ATED4), RHY (DW10ATED), RHZ (DW10ATED/L), RLZ (EW10J4D), T8A/THZ (DJ5T), T9A (DJ5), THX (DJ5TED), THY (DK5ATE), TU1/2/3/5/9, TU1/3/5 (HFY, HFZ, KFX, NFZ), TU5J4/L3 (NFX), TU5JP4 (NFU), WJY (DW8B), WJZ (DW8), XU10J2C/Z, XU10J2CTE/L3, XU10J2TE/Z, XU10J4R/S (RFV/R6E/RFS), XU10J4RS (RFS), XU10J4RS (RFS), XU10-R2A, R5A, R6A, RDZ, XU5-171B, 180A, B1E, XU5-B6D/E, B1A, B1E, B2A, B2B, BDY, BDZ, XU5JP (BFZ), XU7JP4 (LFY), XU7-L6A, LFW, LFX, LFZ, XU9-D2H, D6A, D6B, D6D, DDZ, DKZ, DFZ, XU9-D2A/D, XU9J4, XUD 11 BTE (P8C), XUD11A, XUD11ATE, XUD7 (A9A), XUD7TE, XUD9 (DHY), XUD9A (D9B/DJY), XUD9AU (D8C), XUD9SD (DHW), XUD9TF (D8B), XUD9UTF (DHY), XUD9Y (DJZ)

DESCRIPTION

For adjusting the engine timing e.g. when replacing the toothed belt

DELIVERY SCOPE

Clamping tool, use as OEM 4507-TJ, 9767.89, 0188Q1, 0132X1Z, 0188Q1, 0132X1Z, 0132X

Camshaft adjustment pin 6 mm, use as OEM 4507-TA, 0132Z, 0132QZ

2 crankshaft/camshaft adjustment pins, use as OEM 0153ZY, 4507-TB, 0153AB, 9041-TZ, 0132R, 9767.27

Flywheel locking pins, use as OEM 4507-TL, 0189C

Adjustment tool, angled, 8 mm, use as OEM 0188D, 7004TG, 9767-34, 0153G, 7014-TJ, 1 860 863 000, 0153N

Bolts M8 x 35 mm / M8 x 40 mm / M8 x 70 mm

Flywheel adjustment pin, 7 mm, use as OEM 7017-TR

Flywheel adjustment pin, 8 mm, use as OEM 1 860 863 000, OUT0000127, 0153N, 0288D, 7099-TM, 0188Y, 0188D

Flywheel adjustment pin with spring, use as OEM 0188X, 0189X

Camshaft adjustment pin, use as OEM 186 1580, 11 9 790, 5711-TD, 21-260, 07744-1110400, 303-732, 4527-T.S2, 07744-00104-00, 1 860 617 000, 0132AB, 999 7169, 0178D

Injection pump adjustment pin, use as OEM 0188H

Crankshaft/camshaft adjustment pin, use as OEM 0188M, 0187B, 0194B, 303-1277, MOT1430, 0189B, 303-735, 49JE01 061, 21-263

Injection pump adjustment pin, use as OEM 4527-T.S1

Camshaft adjustment pin (CA1), use as OEM 4533-TAC1, 0132AJ1

Camshaft adjustment pin (CA2), use as OEM 0132AJ2, 2000 023 000, 0188M, 4533-TAC2

2 camshaft adjustment pins, use as OEM 9041-TZ, 5711-TC

Camshaft adjustment pin, use as OEM 0189A, 1 871 008 100

Camshaft adjustment pin, use as OEM 0189AZ

Intake camshaft adjustment pin (VTC), use as OEM 0189L

Tension lever, use as OEM 5711-TE, 0178E, 0188J/J1

Flywheel locking tool, use as OEM 0188F, 0134Q, 1 870 765 001, 1 870 827 000, 0134AF, 9044-T, 1 871 000 400

Hdi tension lever, use as OEM 0188J2

Tensioning spanner, 8 mm, use as OEM 7017-TW

Toothed belt retaining clip, use as OEM 0189K, MOT1436, 4533-TAX, 0188K, 0187J, 0132AK, 0153AK, 1 870 00 100

Flywheel locking tool, use as OEM 1 867 030 000, 0153A, 9765.54, 6012T, 1 860 161 000

Roller extractor, use as OEM 0174, 0188P, 018892, 7015-T



SUITABLE FOR:



ART.NR	ITEM NAME	
BT592700	Engine adjustment tool set for Alfa Romeo, Fiat 1.4 MultiAir	

FOR THE FOLLOWING MODELS

Alfa Romeo Giulietta, Mito, Fiat Punto, Punto Evo 1.4 (Turbo) MultiAir (105/135/163/170PS)

Engine codes: 940A2.000, 940A2.000, 955A8.000, 955A8.000, 940A2.000, 955A8.000, 955A2.000, 955A7.000, 955A6.000, 955A8.000

DESCRIPTION

For adjusting the engine timing when replacing the toothed belt

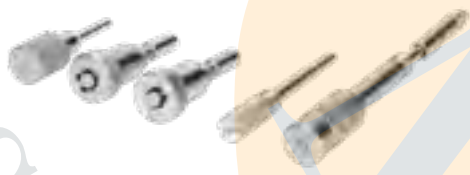
DELIVERY SCOPE

Camshaft adjustment tool including 3 fastening screws, use as OEM 2000034400

Crankshaft adjustment tool including 4 fastening screws, use as OEM 2000004500

Tension roller key, use as OEM 1860987000





SUITABLE FOR: **IVECO**

ART.NR	ITEM NAME
BT592520	Engine adjustment tool set for Fiat Ducato, Peugeot Boxer, Citroën Jumper 2.3 D JTD, 3.0 JTD, HDi

FOR THE FOLLOWING MODELS

Citroën Relay/Jumper III
Fiat Ducato
Iveco Daily (03-10), Daily/EcoDaily (2009-2011)
Peugeot Boxer III (2006-2012)
2.3D, 2.3 JTD F1AE0418A, F1AE0481B, F1AE0481C, F1AE0481D, F1AE0481F, F1AE0481FA, F1AE0481G, F1AE0481H, F1AE0481HA, F1AE0481N, F1AE0481UA, F1AE0481VA
3.0JTD F1CE0481A, F1CE0481B, F1CE0481D, F1CE0481F, F1CE0481H, F1CE3481M
3.0HDi F30DTE, F1CE0481D, F1CE3481DM, F1CE3481N

DESCRIPTION

Use as OEM Fiat 99360187, 99360614, 99360615, 1860617000, 1860815000, 20000180200, Citroën/Peugeot 0191-2A, 0191-2B, 0191-2J, 0191-2K

DELIVERY SCOPE

2 camshaft fixing mandrels
1 crankshaft fixing mandrel



SUITABLE FOR:

ART.NR	ITEM NAME
BT591310	Engine adjustment tool set for Alfa Romeo, Lancia, Fiat 0.9

FOR THE FOLLOWING MODELS

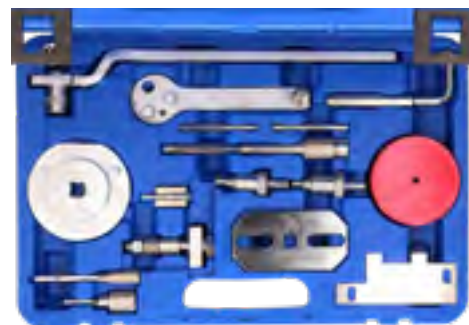
Alfa Romeo Mito from 2012 onwards
Fiat 500 from 2010 onwards
Fiat Panda from 2012 onwards
Fiat Punto from 2012 onwards
Lancia Ypsilon from 2012 onwards

DESCRIPTION

For adjusting the engine timing, e.g. when replacing the timing chain, repairing the cylinder head, etc.

DELIVERY SCOPE

Crankshaft locking mandrel, use as OEM 2000035300
Pulley locking mandrel, use as OEM 2000035200
Camshaft interlock plate, use as OEM 2000035100



SUITABLE FOR:

ART.NR	ITEM NAME
BT592750	Engine adjustment tool set for Fiat, PSA

DESCRIPTION

For checking and adjusting the engine timing
Suitable for Fiat engines: 2.2 JTD 4HV - 2.3 JTD F1AE0481D 120PS - 2.3 JTD F1AE0481D 127PS - 3.0 JTD
Suitable for PSA engines: Puma 22DT 4HV 100PS - Puma 22DT 4HV 120PS - F30DT

DELIVERY SCOPE

Crankshaft sealing ring installation and dismantling tool, use as OEM 2000016900, 303-679 / 303-679A, 0198D
Crankshaft fixing tools, use as OEM 2000018700, 303-1587
Holding/lathe tools for crankshaft, use as OEM 2000018400 / 2000010000, 303-1177
Flywheel docking tool, use as OEM 2000019200
Centring of control housing, use as OEM 2000017000, 303-682, 0198G
Crankshaft fixing mandrel, use as OEM 2000017100, 303-698 / 21-251, 0198A
Camshaft wheel fixing mandrel, use as OEM 2000016500, 0198.B2
Holding and lathe tools for crankshaft, use as OEM 1860815000, 0191-2K
Oil pump gauge, use as OEM 2000016700, 303-705 / 303-1093, 0198H
Tools for water sensor, use as OEM 2000017300
Flywheel docking tool, use as OEM 1860846000
Crankshaft fixing mandrel, use as OEM 99360615, 2000018200, 0191-2A
Camshaft fixing tools, use as OEM 99360614, 0191-2B
Camshaft fixing tools, use as OEM 1860617000, 2000018200



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21 pcs.





SUITABLE FOR:

ART.NR	ITEM NAME	
BT594450	Engine adjustment tool set for Fiat, Opel, Alfa 1.9, 2.4 16V Diesel	

FOR THE FOLLOWING MODELS

Opel 1.9 CDTi Z19DT, Z19DTH, Z19DTJ

Alfa-Romeo 1.9 and 2.4 L diesel with engine code: 323.02, 371.01, 342.02, 325.01, 362.02, 182B9.000, 937A2.000, 937A3.000, 192A5.000, 192B1.000, 937A4.000, 937A5.000, 939A2.000, 939A1.000, 939A7.000, 939A8.000, 939A6.000, 841C.000

Fiat 1.9 and 2.4 L diesel with engine code: 182B4.000, 182B9.000, 185A6.000, 186A6.000, 186A8.000, 186A9.000, 188A2.000, 188A7.000, 188B2.000, 192A1.000, 192A3.000, 192A5.000, 192A8.000, 192A9.000, 192B4.000, 192B5.000, 198A2.000, 198A3.000, 198A6.000, 199A5.000, 223A7.000, 937A5.000, 939A1.000, 939A2.000, 939A3.000, 939A7.000

DESCRIPTION

For adjusting the engine timing e.g. when replacing the toothed belt, repairing the cylinder head, etc.

DELIVERY SCOPE

Crankshaft interlock, use as OEM Opel EN-46788, Fiat 1.860.905.000, 1.860.905.010
Flywheel interlock, use as OEM Fiat 1.860.898.000
Camshaft interlock, use as OEM Opel EN-46789, Fiat 1.870.896.900
Marking mandrel Ø 3.7mm x 70mm, use as OEM Opel KM 6130, KM 6349

SUITABLE FOR:

ART.NR	ITEM NAME	
BT591300	Engine adjustment tool set for Opel 1.6, 1.8	

DESCRIPTION

Contains tools for locking the camshaft and crankshaft.

Suitable for 1.6 and 1.8 L engines with toothed belt control, installed in models from Opel, Vauxhall, Chevrolet, Fiat, Alfa Romeo (2003-2012), e.g. Astra G, H, Corsa D, Insignia, Meriva, Signum, Vectra C, Zafira B (2003-2011)

Suitable for Chevrolet Cruze, Orlando 1.4 1.6 1.8 and Fiat Croma, Alfa Romeo 159 with 939A4.000 engines

Use as OEM tools KM-6628-A, 2000012000, KM-6340, 2000012100, KM-6333, KM-6625, 2000012800, KM-6349, KM 6130, KM-911

SUITABLE FOR:

ART.NR	ITEM NAME	
BT592540	Engine adjustment tool set for Fiat, Ford, Opel, Suzuki 1.3 diesel	

FOR THE FOLLOWING MODELS

Fiat Punto 1.3 JTD Multi-Jet 188A9.000, 2003 - 2007, Panda 1.3 JTD Multi-Jet 169A1.000, 188A8.000, 2003 - 2009, Idea 1.3 JTD Multi-Jet 199A3.000, 188A9.000, 2004 - 2006, Doblo 1.3 JTD Multi-Jet 188A9.000, 2004 - 2006, Doblo Cargo 1.3 JTD 188A9.000, 2004 - 2006

Opel/Vauxhall Agila 1.3 CDTi Z13DT, 2003 - 2008, Corsa-C 1.3 CDTi Z13DT, 2003 - 2007, Combo-C 1.3 CDTi Z13DT, 2003 - 2009, Corsa-D 1.3 CDTi Z13DTH, Z13DTJ, 2006 - 2009, Astra-H 1.3 CDTi Z13DTH, 2004 - 2009, Tigra-B 1.3 CDTi Z13DT, 2004 - 2009, Meriva 1.3 CDTi Z13DT, Z13DTJ, 2004 - 2009

Suzuki: Ingis 1.3 CDTi Z13DT, 2003 - 2009, Wagon R 1.3 CDTi Z13DT, 2003 - 2009, Swift 1.3 CDTi Z13DT, 2003 - 2010

Ford Ka 1.3 TDCi

DESCRIPTION

For checking and adjusting the engine timing

DELIVERY SCOPE

Counter-support spanner for crankshaft pulley, use as Fiat OEM 1871000200 - Ford OEM 303-1469 - Opel/Vauxhall OEM KM-662-C

Crankshaft adjustment tool, use as Opel/Vauxhall OEM EN 46785, OEM KM 955 - Suzuki 09912-38300

Camshaft adjustment tool, use as Fiat OEM 1871000900, 1860985000 - Ford OEM 303-1472 - Opel/Vauxhall OEM EN 46781 - Suzuki OEM 09917-68610

Chain tension lever, use as Fiat OEM 1870900400

Crankshaft interlock tool, use as Fiat OEM 1870900300 - Ford OEM 303-1468

Crankshaft adjustment tool, Fiat 8 mm

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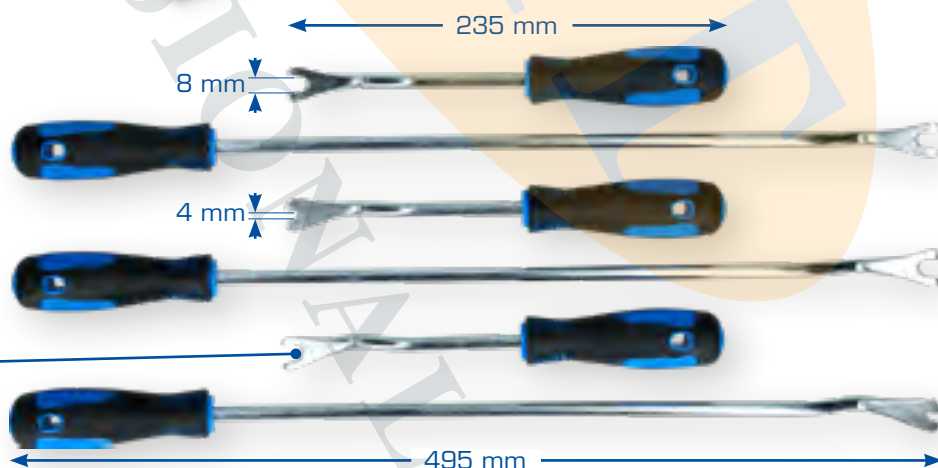
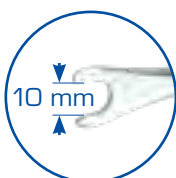


BT511045
EAN 4042146778715
**Panel/trim removal
tool set, 6 pcs.**

6 pcs.



4 + 8 + 10 mm





SUITABLE FOR:



Multijet

SUITABLE FOR:



ART.NR	ITEM NAME
BT592650	Engine adjustment tool for Fiat 1.3 Multijet

FOR THE FOLLOWING MODELS

Fiat 500, Albea (TR), Doblo (Cargo), Fiorino, Grande Punto, Idea, Linea, Panda, Punto Evo
Lancia Musa, Ypsilon
Suzuki Splash, Swift, Wagon R+ Ignis
Opel Agila, Agila B, Astra-H, Astra-J, Combo-C, Corsa-C, Corsa-D, Meriva-A, Meriva-B, Tigra-B

ENGINE CODES

169A1.000, 188A8.000, 188A9.000, 199A2.000, 199A3.000, 199A9.000, 199B1.000, 199B2.000, 223A9.000

D13A, Z13DT, Z13DTJ, A13DTC, A13DTE, A13DTR, D13A, LDV/A13DTC, LSF/A13DTE, Y13DT, Y13DTH, Z13DT, Z13DTi, Z13DTH, Z13DTJ, Z13DTR

DESCRIPTION

For checking and adjusting the engine timing



ART.NR	ITEM NAME
BT592250	Engine adjustment tool set for PSA

FOR THE FOLLOWING MODELS

Petrol 1.0, 1.1, 1.4, 1.5, 1.6, 1.6 16V, 1.8, 1.8 16V, 1.9, 2.0, 2.0 16V, 2.0 Turbo

Diesel 1.4D, 1.4HDI, 1.5D, 1.7D, 1.7TD, 1.9D, 1.9TD, 2.0Hdi, 2.1TD 2.1TD, 2.2D, 2.5TD, 2.2Hdi

Suitable for structurally identical engines in Toyota and Fiat

ENGINE CODES

159A, 161A, 171B, 171C, 171D, 180A, 180Z, 3FZ (EW12J4), 4HX (DW12ATED), 4HZ (DW12ATED) 6FZ (EW7J4), A8A, A9A, AJZ, B1A /E /F, B2C, B4A, B6D, B6E, BAY, BDY, BFZ, C1A, CDY, CDZ, D2A /C /E /F, D6A /B /D /E, D8A /B /C, D9B, DDZ, DFZ, DHV /W /X /Y, DJ5 (T9A), DJ5T (T8A), DJY, DJZ, DKZ, EW10J4D, EW7J4, H1A, HDY, HDZ, K1A, K1F, K1G, K2A, K2B, K2D, K3A, K6B, KDX, KDY, KDZ, KFW, KFX, KFZ, L6A, LFW, LFX, LFY (XU7JP4), LFZ, M4A, NFU, NFX (TU5J4/L3), P8A, P8B, P8C, P9A, PHZ (XUD11), R2A, R6A, R6D, RDZ, RFR, RFN (EW10J4), RFS, RFT, RFU, RFV, RFW, RFX, RFY, RFZ, RGX, RGY, RHW (DW10ATED4), RHY (DW10ATD), RHZ (DW10ATE-D/L), RLZ (EW10J4D), T8A/THZ (DJ5T), T9A (DJ5), THX (DJ5TED), THY (DK5ATE), TU1/2/3/5/9, TU1/3/5 (HFY, HFZ, KFX, NFZ), TU5J4/L3 (NFX), TU5JP4 (NFU), WJY (DW8B), WJZ (DW8), XU10J2C/Z, XU10J2CTE/L3, XU10J2TE/Z, XU10J4R/S (RFV/R6E/RFS), XU10J4RS (RFS), XU10J4RS (RFS), XU10-R2A, R5A, R6A, RDZ, XU5-171B, 180A, B1E, XU5-B6D/E, B1A, B1E, B2A, B2B, BDY, BDZ, XU5JP (BFZ), XU7JP4 (LFY), XU7-L6A, LFW, LFX, LFZ, XU9-D2H, D6A, D6B, D6D, DDZ, DKZ, DFZ, XU9-D2A/D, XU9J4, XUD 11 BTE (P8C), XUD11A, XUD11ATE, XUD7 (A9A), XUD7TE, XUD9 (DHY), XUD9A (D9B/DJY), XUD9AU (D8C), XUD9SD (DHW), XUD9TF (D8B), XUD9UTF (DHY), XUD9Y (DJZ)

DESCRIPTION

For adjusting the engine timing e.g. when replacing the toothed belt

DELIVERY SCOPE

Clamping tool, use as OEM 4507-TJ, 9767.89, 0188Q1, 0132X1Z, 0188G1, 0132X1Z, 0132X

Camshaft adjustment pin 6 mm, use as OEM 4507-TA, 0132Z, 0132QZ

2 crankshaft/camshaft adjustment pins, use as OEM 0153ZY, 4507-TB, 0153AB, 9041-TZ, 0132R, 9767.27

Flywheel locking pins, use as OEM 4507-TL, 0189C

Adjustment tool, angled, 8 mm, use as OEM 0188D, 7004TG, 9767-34, 0153G, 7014-TJ, 1 860 863 000, 0153N

Bolts M8 x 35 mm / M8 x 40 mm / M8 x 70 mm

Flywheel adjustment pin, 7 mm, use as OEM 7017-TR

Flywheel adjustment pin, 8 mm, use as OEM 1 860 863 000, OUT0000127, 0153N, 0288D, 7099-TM, 0188Y, 0188D

Flywheel adjustment pin with spring, use as OEM 0188X, 0189X

Camshaft adjustment pin, use as OEM 18G 158D, 11 9 790, 5711-TD, 21-260, 07744-1110400, 303-732, 4527-T.S2, 07744-00104-00, 1 860 617 000, 0132AB, 999 7169, 0178D

Injection pump adjustment pin, use as OEM 0188H

Crankshaft/camshaft adjustment pin, use as OEM 0188M, 0187B, 0194B, 303-1277, MOT1430, 0189B, 303-735, 49JED1 061, 21-263

Injection pump adjustment pin, use as OEM 4527-T.S1

Camshaft adjustment pin (CA1), use as OEM 4533-TAC1, 0132AJ1

Camshaft adjustment pin (CA2), use as OEM 0132AJ2, 2000 023 000, 0188M, 4533-TAC2

2 camshaft adjustment pins, use as OEM 9041-TZ, 5711-TC

Camshaft adjustment pin, use as OEM 0189A, 1 871 008 100

Camshaft adjustment pin, use as OEM 0189AZ

Intake camshaft adjustment pin (VTC), use as OEM 0189L

Tension lever, use as OEM 5711-TE, 0178E, 0188J/J1

Flywheel locking tool, use as OEM 0188F, 0134Q, 1 870 765 001, 1 870 827 000, 0134AF, 9044-T, 1 871 000 400

Hdi tension lever, use as OEM 0188J2

Tensioning spanner, 8 mm, use as OEM 7017-TW

Toothed belt retaining clip, use as OEM 0189K, MOT1436, 4533-TAX, 0188K, 0187J, 0132AK, 0153AK, 1 870 00 100

Flywheel locking tool, use as OEM 1 867 030 000, 0153A, 9765.54, 6012T, 1 860 161 000

Roller extractor, use as OEM 0174, 0188P, 018892, 7015-T



SUITABLE FOR:



ART.NR	ITEM NAME
BT592600	Engine adjustment tool set for Fiat 1.2 16V

FOR THE FOLLOWING MODELS

Fiat 500 1.2 (2007), Brava 1.2, Bravo 1.2 16V (1995-2002), Grande Punto 1.2, Idea 1.2, Idea 1.2 16V, Marea 1.2, Marea Weekend, Marengo 1.2, Palio Weekend 1.2 16V (1993-1999), Punto 1.2 (1993-1999), Punto Classic 1.2 16V (1999), Stilo 1.2
Lancia Ypsilon 1.2 16V (1996 - 2003)

ENGINE CODES

Engine codes: 176B9.000, 169A4.000, 182B2.000, 188A5.000

DESCRIPTION

For checking and adjusting the engine timing

DELIVERY SCOPE

Measurement adapter for piston height (2 x), use as OEM 1860992000
Camshaft adjustment tools (2 x), use as OEM 1860985000
Tension roller key, use as OEM 1860987000

SUITABLE FOR:



ART.NR	ITEM NAME
BT595700	Camshaft locking tool set for VAG, Ford, Opel, Saab

DESCRIPTION

Universal set for a wide range of models

DELIVERY SCOPE

Camshaft interlock for Opel Calibra, Omega, Sintra, Vectra -1.8, 2.0, use as OEM KM-852, 18G1570
Camshaft interlock for Opel Calibra, Omega, Sintra, Vectra -1.4, 1.6, use as OEM KM-853
Right camshaft with Saab 900, 900 -2.5, 3.0, Opel Calibra, Sintra, Vectra -2.5, 3.0, use as OEM KM-800-2
Left camshaft with Saab 900.900 -2.5, 3.0, Opel Calibra, Sintra, Vectra -2.5, 3.0, use as OEM KM-800-1
Crankshaft toothed belt pulley interlock tool for TDI pump-injection engines with VW, Audi, Škoda, Seat and Ford, use as VAG T10050
Flywheel interlock tools for Citroën, Fiat and Peugeot, use as OEM 153A, 6012T, 9765.54
Flywheel holder unit for Isuzu 1.5 and 1.7 diesel, Opel 1.6, 1.7 diesel engines, Opel 1.2, 1.4, 1.6, 1.8, 2.0 OHC petrol engines, use as OEM KM-517-B

SUITABLE FOR:



ART.NR	ITEM NAME
BT592800	Engine adjustment tool set for Fiat, Lancia

DESCRIPTION

For checking and adjusting the engine timing
Locking the flywheel
Locking the crankshaft
Locking the camshaft
Locking the injection pump shaft
Removing the crankshaft pulley
Tensioning the toothed belt





SUITABLE FOR:  

ART.NR	ITEM NAME
BT592700	Engine adjustment tool set for Alfa Romeo, Fiat 1.4 MultiAir

FOR THE FOLLOWING MODELS

Alfa Romeo Giulietta, Mito, Fiat Punto, Punto Evo 1.4 (Turbo) MultiAir (105/135/163/170PS)

Engine codes: 940A2.000, 940A2.000, 955A8.000, 955A8.000, 940A2.000, 955A8.000, 955A2.000, 955A7.000, 955A6.000, 955A8.000

DESCRIPTION

For adjusting the engine timing when replacing the toothed belt

DELIVERY SCOPE

Camshaft adjustment tool including 3 fastening screws, use as OEM 2000034400

Crankshaft locking tool including 4 fastening screws, use as OEM 2000004500

Tension roller key, use as OEM 1860987000

SUITABLE FOR:   

ART.NR	ITEM NAME
BT591350	Engine adjustment tool set for Fiat, Lancia, Alfa Romeo

FOR THE FOLLOWING MODELS

Alfa Romeo 145 1.4, 1.6 16V Step A - 146 1.4, 1.6 16V Step A - 147 1.6 16V Step A - 147 105 PS - 147 1.6 eco 103 PS - 155 1.4, 1.6 16V Step A - 156 1.6 16V Step A - 156 1.8, 2.0 16V - 156 2.0 JTS - 166 2.0 - GTV 2.0 JTS - Spider GT 2.0 JTS 16V 165 PS

Lancia K5 2.0 20V, 4-cylinder, VIS engines from year of construction 1996 onwards, Delta 1.8 16V Step A, Dedra 1.8 16V Step A, Y10 1.4 12V

Fiat Bravo 1.4 12V, 2.0 20V - Brava 1.4 12V, 2.0 20V - Marea 2.0 20V, Coupe 1.8 16V, Barchetta 1.8 16V, Punto 1.8 16V

DESCRIPTION

Special insert, drive square socket 12.5 mm (1/2") for dismantling the phaser

23 precisely fitting locking devices for the feed and discharge camshaft

prevent the camshafts from twisting after assembly and position them in assembly position for the toothed belt.

The locking devices are labelled with numbers and additionally colour-coded to avoid confusion

The OT point adjustment mandrel and a micrometer clock (not scope of delivery) makes a precise alignment of the crankshaft possible

DELIVERY SCOPE

Cam shaft locking devices, use as OEM 1 825 041 000, 1 825 042 000, 1 860 096 100, 1 860 819 000, 1 860 847 000, 1 860 892 000, 1 860 899 000, 1 870 797 000

Bracket for dial gauge for adjusting the piston OT (requires dial gauge), use as 1 860 895 000, 1 895 879 000, 1 825 013 000

Insert for phaser, use as OEM 1 822 110 000, 1 852 161 000



SUITABLE FOR: 

ART.NR	ITEM NAME
BT592550	Engine adjustment tool for Fiat for 1.6 16V

FOR THE FOLLOWING MODELS

Fiat Stilo 1.6 16V, Brava, Bravo, Marea, Weekend, Stilo, Multipla, Palio Weekend (1995-2004)

ENGINE CODES

178B3.000, 182A4.000, 182A6.000, 182B6.000

DESCRIPTION

For checking and adjusting the engine timing

DELIVERY SCOPE

Camshaft interlock tool, intake side, use as OEM 1860874000

Camshaft interlock tool, exhaust side, use as OEM 1860874000

Tension roller interlock, use as OEM 1860876000, including M8 to M10 adapter for models from 2000 onwards

Dial gauge adapter for determining OT on the first cylinder with M14 thread, total length 270mm, use as OEM 1860895000 / 1895879000 / 1825013000



SUITABLE FOR:  

ART.NR	ITEM NAME
BT592575	Camshaft locking block for Fiat, Lancia 1.4 12V

FOR THE FOLLOWING MODELS

Fiat Bravo, Brava, Lancia Y10 1.4 12V

ENGINE CODES

Engine code: 182A3.000, 182A5.000

DESCRIPTION

For locking the camshafts when adjusting the engine timing
Use as OEM 1860899000



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SUITABLE FOR:



ART.NR	ITEM NAME	
BT592580	Camshaft locking tool set for Fiat 2.0 20V	

FOR THE FOLLOWING MODELS

Fiat Bravo, Brava, Marea 2.0 20V, 5-cylinder

DESCRIPTION

For checking and adjusting the engine timing

Use as OEM 1860892000

DELIVERY SCOPE

Camshaft adjustment tool for intake cam 3-cylinder

Camshaft adjustment tool for exhaust cam 2-cylinder

SUITABLE FOR:



ART.NR	ITEM NAME	
BT592585	Camshaft locking tool set for Fiat, Lancia 1.8, 115 PS	

FOR THE FOLLOWING MODELS

Fiat Bravo, Brava, Marea 1800 16V, 115 PS

Lancia Delta, Dedra 1800 16V, 115 PS

DESCRIPTION

For checking and adjusting the engine timing

Use as OEM 1860875000

DELIVERY SCOPE

Camshaft adjustment tool for intake cam 2-cylinder

Camshaft adjustment tool for exhaust cam 3-cylinder



SUITABLE FOR:



ART.NR	ITEM NAME	
BT595703	Camshaft locking tool for Opel 1.6, 1.8	

DESCRIPTION

Contains important tools for inspecting and adjusting the engine timing

Suitable for Opel Astra G/H, Corsa D, Insignia, Meriva, Signum, Tigra, Vectra C, Zafira B (2003-2012) with engine codes A16LET, A16XER, Z16LEL, Z16LER, Z16LET, Z16XE, Z16XE1, Z16XEP, Z16XER, Z18XER, A18XER

Also suitable for Alfa Romeo 159, Fiat Croma with engine code 939A4.000

DELIVERY SCOPE

Camshaft interlock, use as OEM KM-6340, EN-6340, 2000012100

Tensioning element interlock, use as OEM KM-6333, EN-6333



SUITABLE FOR:



ART.NR	ITEM NAME	
BT591225	Camshaft locking tool set for Fiat, Lancia 1.8L 130 PS	

FOR THE FOLLOWING MODELS

Fiat, Lancia 1.8L 16V 130PS

DESCRIPTION

For checking and adjusting the camshaft timing

Use as OEM 1860847000

DELIVERY SCOPE

Camshaft adjustment tool for intake cam 2-cylinder

Camshaft adjustment tool for exhaust cam 3-cylinder

SUITABLE FOR:



ART.NR	ITEM NAME	
BT592590	Camshaft locking tool set for Fiat, Lancia 1.8 16V	

FOR THE FOLLOWING MODELS

Fiat Coupe, Barchetta, Punto (HGT), Barchetta (HGT)

Lancia Delta, Dedra Step „A“

DESCRIPTION

For checking and adjusting the engine timing

Use as OEM 1870697000

DELIVERY SCOPE

Camshaft adjustment tool for intake cam 2-cylinder

Camshaft adjustment tool for exhaust cam 3-cylinder



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Trim removal set 5 pcs.

5 pcs.





SUITABLE FOR:

ART.NR	ITEM NAME	
BT597940	Engine adjustment tool set for Peugeot, Citroën, PSA	

FOR THE FOLLOWING MODELS

Citroën AX, Berlingo, BX, C5, C15, C25, Dispatch, Evasion, Jumper, Jumpy, Relay, Saxo, Synergie, Visa, Xsara, Xantia, XM, XJR, ZX, etc.

Peugeot 106, 205, 306, 405, 406, 605, 806, J5, Boxer, Expert, Partner, Solara, Talbot Express, Talbot Horizon, etc.

PSA petrol engines 1.9, 1.1, 1.4, 1.6, 1.8, 1.9, 2.0, 1.6, 1.8, 2.0, 2.2 16V (turbo and dual camshafts)

PSA diesel engines 1.4, 1.5, 1.7, 1.8, 1.9, 2.1, 2.5 D, TD, TDI, 1.4, 1.6, 2.0, 2.2 HDI

Suitable for structurally identical engines in Fiat, Ford, Nissan, Renault, Rover, Toyota, etc.

DESCRIPTION

For checking and adjusting the engine timing

DELIVERY SCOPE

Flywheel adjustment pin with spring, use as OEM 0188X, 0189X

Tensioning spanner, 8 mm, use as OEM 7017-TW

Flywheel fixing mandrel, 7 mm, use as OEM 7017-TR

Angled adjustment pin, 8 mm, use as OEM 0188D, 7004TG, 9767-34, 0153G, 7014-TJ, 1 860 863 000, 0153N

Clamping tool, use as OEM 4507-TJ, 9767.89, 0188Q1, 0132X1Z, 0132X

Camshaft marking mandrel, use as OEM 0189A, 1 871 008 100

Hdi tension roller lever, use as OEM 0188J2

Tension roller lever, use as OEM 5711-TE, 0178E, 0188J/J1

Flywheel disc extractor, use as OEM 0174.0188P, 018892, 7015-T

Toothed belt retaining clamp, use as OEM 0189K, MOT1436, 4533-TAX, 0188K, 0187J, 0132AK, 0153AK, 1 870 00 100

Flywheel retainer, use as OEM 0195K, 4507-TL

Clamping tool, use as OEM 0189S1

Flywheel retainer, use as OEM 1867030000, 0153A, 9765.54, 6012T, 1860161000

Tension lever, use as OEM 0189S2

Angled locking pin, 5 mm

Flywheel fixing mandrel (for automatic transmission), use as OEM 0189R

Camshaft marking mandrel, use as OEM 0189AZ

Crankshaft retainer, use as OEM 0288D, 0188Y, 7014

Flywheel fixing mandrel (manual transmission), use as OEM 0189C

Flywheel interlock, use as OEM 0188F, 0134Q, 1870765001.1870827000, 0134AF, 9044-T, 1871000400

Camshaft marking mandrel (CA1), use as OEM 4533-TAC1, 0132AJ1

Camshaft and crankshaft retainer, use as OEM 0188M, 0187B, 0194B, 303-1277, MOT1430, 0189B, 303-735, 49JE01061, 21-263

Camshaft marking mandrel (CA2), use as OEM 0132AJ2, 2000023000, 0188M, 4533-TAC2

Marking mandrel for injection pump, use as OEM 4527-TS1

Injection pump fixing mandrel, use as OEM 0188H, 1 860 965 000

Flywheel fixing mandrel, use as OEM 49JE02020, 0194C, 21-262, 999-7121, 999-7169, 303-734

2 camshaft and crankshaft marking mandrels, use as OEM 4507-TB.7014-TN, 0132-R, 0153-AB, 0158-G

2 camshaft and crankshaft interlocks, use as OEM KM-955, 7014-TM

2 camshaft marking mandrels, use as OEM 9041-TZ, 5711-TC

2 crankshaft fixing mandrels, use as OEM 5711-TD, 119790, 0194A, 1860617000, 303-732, 07744-00104-00, 49JE02018, 0178D, 9997169, 4527-TS2, 21-260, 999-7169, 0132AB

Camshaft fixing mandrel, use as OEM 0189L

Screw M8 x 80 mm

Pin for clamping device, 3 mm, use as OEM 0153AL, 4200TA

Centring clip for crankshaft pulley, use as OEM 0188AH

Crankshaft marking mandrel, 6 mm, use as OEM 4507-TA, 0132Z, 0132QZ

FORD



SUITABLE FOR:

ART.NR	ITEM NAME	
BT593050	Engine adjustment tool set for Ford	

DESCRIPTION

Suitable for petrol engines 1.25 L, 1.4 L, 1.6 L, 1.8 L, 2.0 L, e.g. for Zetec, Zetec SE, etc.

DELIVERY SCOPE

Crankshaft interlocks, use as OEM 303-748, 999-7152 21-259, 303-574, 21-163, 303-620, 49J E02 024, 999-7201, 303-507, 21-210

Camshaft rule, use as 303-376, 303-376B, 999-7151



SUITABLE FOR:

ART.NR	ITEM NAME	
BT592900	Engine adjustment tool set for Ford Focus	

DESCRIPTION

For replacing the toothed belt in Ford Focus 1.6 TI-VCT engines, engine code HXDA (2003-2007) and 2.0 TDCI engine code G6DA, G6DB, G6DC 2003-2007

DELIVERY SCOPE

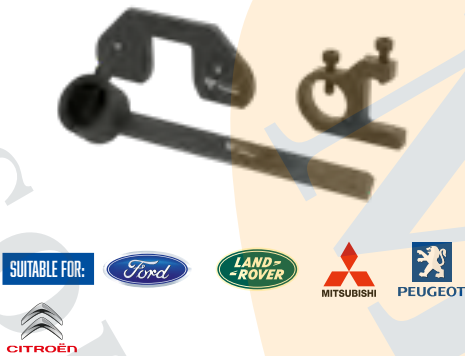
Holder for camshaft wheel, use as OEM 303-1097

Locking pin for tension roller, use as OEM 303-1054

Locking pin for flywheel, use as OEM 303-1059, 303-1270, 0188X, 999-7121

Locking pin for crankshaft, use as OEM 303-748, 999-7152, 21-259

Locking pin for camshaft wheel, use as OEM 303-735, 999 7122, 0187B, 0189B, 0132AJ1, 21-263, 0188M, MOT 1430, 303-1277, 0194B



ART.NR	ITEM NAME
BT592320	Balance shaft adjustment tool set for Land Rover, Citroën, Mitsubishi, Peugeot, Ford 2.2 DOHC diesel engines

FOR THE FOLLOWING MODELS

Land Rover Discovery, Discovery Sport, Freelander 2, eD4, TD4, TD4e (2009-2015) engine codes: 224DT, DW12CTE-D4/224DT, DW12BTE4/224DT

Citroën C5, C5 II, C5 III, C6, C8, C-Crosser HDi (200-2015) engine codes: 4HX (DW12CTED4), 4HP (DW12B-TED4), 4HX (DW12TED4), 4HW (DW12TED4/L4)

Mitsubishi Outlander DI-D, DI-DC (2007-2013) engine codes: 4HK, 4HN

Peugeot 4007, 407, 607, 807, 406, 508, 607, HDi, GT HDi (2000-2015) engine codes: DW12MTED4 (4HK), DW12MTED4 (4HN), DW12BTE4 (4HP), DW12BTE4 (4HR), DW12BTE4 (4HT), DW12TED4/L4 (4HW), DW12BTE4 (4HS), DW12ATED (4HZ), DW12ATED4 (4HX), DW12ATED (4HZ), DW12CTED4 (4HL)

Ford Galaxy, Mondeo, S-Max, TDCi, TCI (2008-2015) engine codes: KNBB, KNBA, KNWA, Q4BA

DESCRIPTION

For adjusting the balance shaft

DELIVERY SCOPE

Balance shaft fixing tool, use as OEM 303-1329

Balancing tool, use as OEM 303-1330

Balance shaft adjustment tool, use as OEM 303-1328, 0190D



SUITABLE FOR:

ART.NR	ITEM NAME
BT551110	injector alignment tool for Ford Duratorq

DESCRIPTION

For aligning injectors with the fuel lines

Aligning the injectors with the fuel lines eliminates the risk of fuel line breakage that could occur during operation

Ford Duratorq engines 2.0 / 2.2 / 2.4 DI / TDCi / TDDi, installed in Ford Mondeo, year of manufacture 2000 - 2007 / Ford Transit year of manufacture 2000 - 2006 / Jaguar X-Type

Tool for simultaneous alignment of two injectors, use as OEM 303-678

Tool for aligning injectors, adjustable, use as OEM 303-711



SUITABLE FOR:

ART.NR	ITEM NAME
BT551105	timing case cover alignment and pump wheel removal tool set for Ford 1.8 TDDi / TDCi

FOR THE FOLLOWING MODELS

Focus 1.8 TDCi (2004 - 2011), Engine codes: KKDA, KKDB

C-Max 1.8 TDCi (2003 - 2007), Engine codes: KKDA, BHPA, HCPA

Tourneo Connect 1.8 TDCi (2002 - 2013), Engine codes: HCPA, HCPB (2002 - 2006), RWPA, R2PA, P7PA, P9PA, R3PA (2006-2013), P9PB, RWPC (2009 - 2013)

Tourneo Connect 1.8 TDDi (2002 - 2006), Engine code: BHPA

Mondeo 1.8 TDCi ECONetic (2008 - 2010), Engine code: KHBA

Transit Connect 1.8 TDCi (2002 - 2013), Engine codes: HCPA, HCPB (2002 - 2006), RWPA, P7PA, R2PA, P9PA, R3PA (2006 - 2013), P9PB, RWPC (2009 - 2013)

Transit Connect 1.8 TDDi (2002 - 2006), Engine code: BHPA

DESCRIPTION

For aligning the timing case cover and for removing the high-pressure pump wheel

When working on e.g. the high-pressure pump chain

Supplementary tool for engine adjustment tool set Art. BT593100

DELIVERY SCOPE

Alignment tool for timing case cover, use as OEM 303-652 (21-230)

Disassembly tool for high-pressure pump wheel, use as OEM 303-095 (23-067)



SUITABLE FOR:

ART.NR	ITEM NAME
BT592540	Engine adjustment tool set for Fiat, Ford, Opel, Suzuki 1.3 diesel

FOR THE FOLLOWING MODELS

Fiat Punto 1.3 JTD Multi-Jet 188A9.000, 2003 - 2007, Panda 1.3 JTD Multi-Jet 169A1.000, 188A8.000, 2003 - 2009, Idea 1.3 JTD Multi-Jet 199A3.000, 188A9.000, 2004 - 2006, Doblo 1.3 JTD Multi-Jet 188A9.000, 2004 - 2006, Doblo Cargo 1.3 JTD 188A9.000, 2004 - 2006

Opel/Vauxhall Agila 1.3 CDTi Z13DT, 2003 - 2008, Corsa-C 1.3 CDTi Z13DT, 2003 - 2007, Combo-C 1.3 CDTi Z13DT, 2003 - 2009, Corsa-D 1.3 CDTi Z13DTH, Z13DTJ, 2006 - 2009, Astra-H 1.3 CDTi Z13DTH, 2004 - 2009, Tigra-B 1.3 CDTi Z13DT, 2004 - 2009, Meriva 1.3 CDTi Z13DT, Z13DTJ, 2004 - 2009

Suzuki: Ingis 1.3 CDTi Z13DT, 2003 - 2009, Wagon R 1.3 CDTi Z13DT, 2003 - 2009, Swift 1.3 CDTi Z13DT, 2003 - 2010

Ford Ka 1.3 TDCi

DESCRIPTION

For checking and adjusting the engine timing

DELIVERY SCOPE

Counter-support spanner for crankshaft pulley, use as Fiat OEM 1871000200 - Ford OEM 303-1469 - Opel/Vauxhall OEM KM-662-C

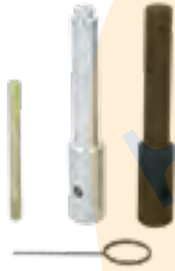
Crankshaft adjustment tool, use as Opel/Vauxhall OEM EN 46785, OEM KM 955 - Suzuki 09912-38300

Camshaft adjustment tool, use as Fiat OEM 1871000900, 1860985000 - Ford OEM 303-1472 - Opel/Vauxhall OEM EN 46781 - Suzuki OEM 09917-68610

Chain tension lever, use as Fiat OEM 1870900400

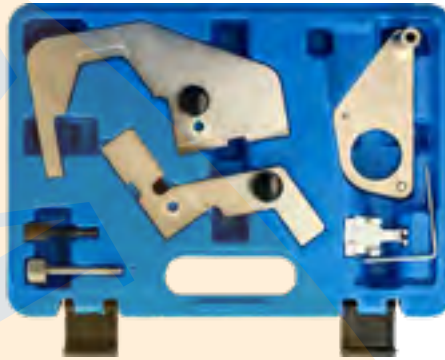
Crankshaft interlock tool, use as Fiat OEM 1870900300 - Ford OEM 303-1468

Crankshaft adjustment tool, Fiat 8 mm



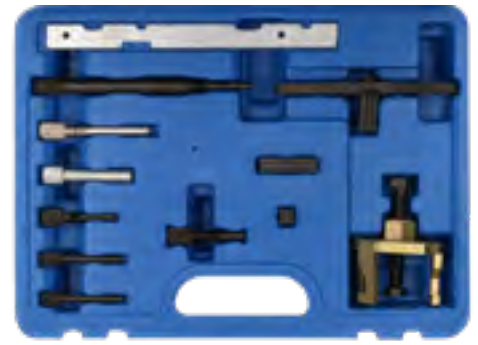
SUITABLE FOR:

ART.NR	ITEM NAME	
BT592870	Engine adjustment tool set for Ford Duratorq 2.0, 2.4 diesel	
ENGINE CODES		
ABFA, D2FA, D3FA, D5BA, D6BA, D0FA, F1FA, F3FA, F4FA, FMBA/B, FXFA, H9FA, H9FB, HJBA/B, HJBC, HJBE, JXFA, N7BA/B, PHFA, SDBA		
DESCRIPTION		
Needed for working on the timing chain, cylinder head etc.		
Contains a locking pin for the flywheel, pump, camshaft and chain tensioner, use as OEM 21-234, 21-251		
Suitable for Ford Mondeo and Transit 2.0 I / 2.4 I Duratorq 16V (TDDi and TDCi)		



SUITABLE FOR:

ART.NR	ITEM NAME	
BT592970	Engine adjustment tool set for Ford 2.0 Ecoboost	
FOR THE FOLLOWING MODELS		
Installed in the models Galaxy / Mondeo / S-MAX / Focus		
ENGINE CODES		
Engine code: TNWA, TNBA, TPWA, MGDA, XGDA		
DESCRIPTION		
For adjusting the timing on chain-driven 2.0L petrol direct injection engines with variable valve control		
DELIVERY SCOPE		
Crankshaft interlock, use as OEM 303-748		
Camshaft adjustment plate (up until 05/2011), use as OEM 303-1504		
Camshaft adjustment plate (from 05/2011 onwards), use as OEM 303-1565		
Adjustment tool for crankshaft position sensor, use as OEM 303-1521		
2.5 mm belt tensioner locking pin		



SUITABLE FOR:

ART.NR	ITEM NAME	
BT592850	Engine adjustment tool for Ford, Mazda	
FOR THE FOLLOWING MODELS		
Ford Fiesta, Fusion, Focus, C-Max, Mondeo, Mondeo S-Max, Galaxy, Tourneo Connect, Transit Connect		
Mazda 2, 3, 5, 121		
ENGINE CODES		
F6JA, F6JB, F6JC, HHJA, HHJB, G8DA, HHDA, HHDB, RTN, RTQ, RTP, C9DC, BHDA/B, BHPA, C9DA/B, C9DC, HXDA, G6DA, AZWA, G6DB, QXWA, G6DC, F9DA/B, FFBA, FFDA, HCPA, HCPB, KKDA, P7PA, P9PA, QYWA, R2PA, R3PA and RWPA		
4HB, F6JA, F6JB, RTJ, Y6, MZ-CD 1.6 (Y6)		
DESCRIPTION		
For checking and adjusting the engine timing		
DELIVERY SCOPE		
Camshaft interlocks, use as 303-732		
Crankshaft interlocks, use as 303-193		
Crankshaft interlock, use as OEM 303-507		
Crankshaft interlock, use as OEM 303-574		
Crankshaft interlock, use as OEM 303-748		
Flywheel interlocks, use as OEM 303-1602, 303-393-01 and 303-393-02		
Flywheel interlocks, use as OEM 303-734		
Camshaft rule, use as OEM 303-376		
Camshaft wheel puller, use as OEM 303-651		



SUITABLE FOR:

ART.NR	ITEM NAME	
BT592700	Engine adjustment tool set for Alfa Romeo, Fiat 1.4 MultiAir	
FOR THE FOLLOWING MODELS		
Alfa Romeo Giulietta, Mito, Fiat Punto, Punto Evo 1.4 (Turbo) MultiAir (105/135/163/170PS)		
Engine codes: 940A2.000, 940A2.000, 955A8.000, 955A8.000, 940A2.000, 955A8.000, 955A2.000, 955A7.000, 955A6.000, 955A8.000		
DESCRIPTION		
For adjusting the engine timing when replacing the toothed belt		
DELIVERY SCOPE		
Camshaft adjustment tool including 3 fastening screws, use as OEM 2000034400		
Crankshaft locking tool including 4 fastening screws, use as OEM 2000004500		
Tension roller key, use as OEM 1860987000		



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BT034012 • EAN 4042146844267
Screwdriver set, 12 pcs.

12 pcs.

— + 2K

5x	—	3,2 x 75 mm • 5,0 x 75 mm • 6,0 x 100 mm • 8,0 x 150 mm • 9,5 x 200 mm
5x	+	PH0 x 75 mm • PH1 x 75 mm • PH2 x 100 mm • PH3 x 150 mm • PH4 x 200 mm

1x	—	5,5 x 38 mm
1x	+	PH2 x 38 mm



ART.NR	ITEM NAME
BT591260	Camshaft sprocket locking tool set, universal

FOR THE FOLLOWING MODELS

Can be used universally on vehicles from the following manufacturers: Audi, Alfa Romeo, Chrysler, Citroën, Ford, Honda, Hyundai, Isuzu, Land Rover, Lexus, Mazda, Mitsubishi, Peugeot, Renault, MG, Seat, Skoda, Subaru, Toyota, Opel, Volkswagen, Volvo

DESCRIPTION

For locking the camshaft sprockets e.g. when replacing the toothed belt

Suitable for engines with 1, 2 and 4 camshafts (V engines); also suitable for locking between the camshaft sprocket and diesel injection pump wheel in some diesel engines

DELIVERY SCOPE

Double camshaft locking tool with short and long connecting arm

Single camshaft locking tool with short and long locking screw



SUITABLE FOR: **Universal**

ART.NR	ITEM NAME
BT596002	Universal camshaft wheel puller

DESCRIPTION

For pulling the pulley and camshaft gear

Gripping arms are connected with each other via adjusting disk, thus the gripping arms can be set easily and exactly

Continuous adjustment range of the gripping arms from 42 - 82 mm

Gripping arm depth is 27 mm

DELIVERY SCOPE

3 x gripping arms, Ø 12 mm, M10 x 1.5, suitable for material thickness up to max. 10 mm

6-groove puller body with adjusting disc

Spindle, M14 x 1.5, 19 mm hex, with centring cone



SUITABLE FOR: **Ford**

ART.NR	ITEM NAME
BT593100	Engine adjustment tool set for Ford

FOR THE FOLLOWING MODELS

Suitable for the following Ford engines: 1.4, 1.6 16V, 1.7, 1.8 16V, 2.0 16V (including Zetec), 1.4, 1.6, 1.8, 1.9 D/ TD/TDCi

DESCRIPTION

Contains tools for: Locking the flywheel

Locking the crankshaft, pump shaft

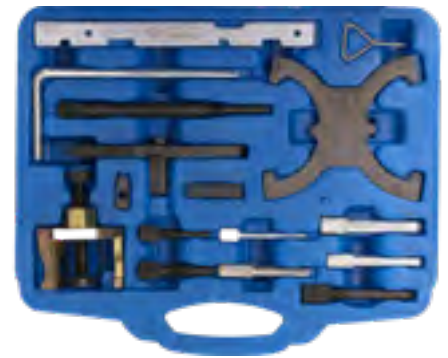
Locking the injection pump shaft

Removing the crankshaft pulley

Tensioning the toothed belt

Adjustment gauge for positioning the camshaft and pump shaft in relation to the crankshaft

Use as OEM 21-162, 21-162B, 303-367, 303-376, 23-059, 310-085, 21-168, 303-393, 23-020, 23-047, 23-020, 21-163, 303-620, 23-019, 21-210, 303-507, 21-251, 303-698, 21-262, 303-734, 23-029, 303-1061, 23-058, 310-084, 21-105, 21-262, 303-734, 21-168, 303-393, 21-263, 303-735, Mazda 49JE01061, Audi 3359, T10008, T10050, 2065A, Seat 3359, T10008, T10050, 2065A, Skoda 3359, T10008, T10050, 2065A, Volkswagen 3359, T10008, T10050, 2065A



SUITABLE FOR: **Ford**

ART.NR	ITEM NAME
BT592950	Engine adjustment tool for Ford

FOR THE FOLLOWING MODELS

Ford Fiesta (1995-2008), Fusion (2002-2008), Puma (1997-2002), Focus (1998-2008), Focus C-Max (2003-2008), Mondeo (1993-2008), Cougar (1998-2001), S-Max (2006-2008), Galaxy (2006-2008), Courier (1995-2008), Tourneo Connect (2002-2006), Transit Connect (2002-2006)

ENGINE CODES

Petrol: DHA, DHB, DHC, DHD, DHE, DHF, DHG, F8JA, F8JB, FUJA, FUJB, M7JA, M7JB, ASDA, ASDB, FHA, FHD, FHE, FHF, FXDA/C, FXDB/D, FXJA, FXJB, BHPA, C9DA/B, C9DC, HXDA, G6DA, AZWA, G6DB, QXWA, G6DC, F9DA/B, FFBA, FFDA, HCPA, HCPB, KKDA, P7PA, P9PA, QYWA, R2PA, R3PA, RWPA, FYDA/C, FYDB/D, FYJA, FYJB, L1F, L1J, L1L, L1N, L1O, L1T, L1V, L1W, HWDA, HWDB, MHA, MHB, EYDB, EYDC, EYDD, EYDE, EYDF, EYDG, EYDI, EYDJ, EYPA, EYPC, RKA, RKB, RKF, RKH, RKJ, RKK, CDBB, CGBA/B, CHBA/B, CSDA, CSDB, QQDA, QQDB, QQDC, ED-BA/C, EDBB, EDBD, EDDA, EDDC, EDDD, EDDF, NGA, NGB, NGC, NGD, ALDA, HMDA, AODA, AODB, AOWA, CJBAB

Diesel: F6JA, F6JB, F6JC, HHJA, HHJB, G8DA, G8DB, HHDA, HHDB, RTN, RTO, RTP, C9DC, BHDA/B, BHPA, C9DA/B, C9DC, F9DA/B, FFBA, FFDA, HCPA, HCPB, KKDA, P7PA, P9PA, QYWA, R2PA, R3PA, RWPA, G6DA, AZWA, G6DB, QXWA, G6DC

1.25 16V, 1.4 16V, 1.6 16V, 1.7 16V, 1.8 16V, 1.8 16V with timing chain, 2.0 16V, 2.0 RS/ ST170, 2.0 with timing chain

1.4 TDCi, 1.6 TDCi, 1.8 D Turbo, 1.8 TDdi, 1.8 TDCi and 2.0 TDCi

DESCRIPTION

For checking and adjusting the engine timing



SUITABLE FOR:

ART.NR	ITEM NAME
BT592976	Camshaft adjustment tool for Ford 1.6 EcoBoost

FOR THE FOLLOWING MODELS

Ford Galaxy, S-Max, Mondeo, C-Max, Focus, Fiesta, Kuga, Transit, Tourneo Connect
1.6L EcoBoost (Sigma)

DESCRIPTION

For locking the camshafts when removing/replacing the timing chain

DELIVERY SCOPE

Camshaft adjustment tool, use as OEM 303-1552



SUITABLE FOR:

ART.NR	ITEM NAME
BT594670	Engine adjustment tool set for Renault, Volvo, Ford 16V, 20V petrol

FOR THE FOLLOWING MODELS

Renault Laguna (1996, 1999), Safrane (1996, 2001) with engine codes: N7Q 704, 710, 711 N7U 700, 701

Ford Kuga (from 02/2008 onwards), Focus ST RS (from 07/2004 onwards), S-Max (from 03/2006 onwards), Galaxy (from 03/2006 onwards), Mondeo (from 02/2007 onwards) with engine codes: JZDA, HYDB, HYDC, HUWA

Volvo 850 (1992, 1997), C70 (1998, 2002), S40 (1996, 2004), V40 (1996, 2004), S60 (2001, 2005), S70 (1997, 2000), S80 (1999, 2005) with engine codes: B4164 S/S2, B4184 S/S2/S3/S9/S10, B4194 T/T2, B4204 S/S2/T/T2/T3/T5, B5202 FS, B5204 FT/T2/T3/T4/T5, B5234 T3/T4/T5/T6/T7/T8/T9, B5244 S/S2/SG/SG2/T3/T4/T5/T7, B5252 FS, B5254 T/T2/T4

DESCRIPTION

Contains important tools for adjusting the engine timing
1.6, 1.8, 1.9, 2.0, 2.3, 2.4, 2.5L DOHC engines

DELIVERY SCOPE

Camshaft retainer, use as OEM MOT1337, 999-5452, 303-1178

Tension roller key, use as OEM MOT1348

Flywheel retainer, use as OEM MOT1340, 999-5451, 303-1182



SUITABLE FOR:

ART.NR	ITEM NAME
BT593040	Engine adjustment tool set for Ford 2.5, 1.6, 2.5 and 2.4D

FOR THE FOLLOWING MODELS

Ford Focus 2.5 RS, ST, Mondeo 2.5, S-Max 2.5, Galaxy 2.5 ST (from 2005 onwards)

Volvo C30 (2006, 2010), C70 (1998, 2010), S40 (1996, 2010), S60 (2000, 2009), S70 (1997, 2007), S80 (1998, 2006), V40 (1996, 2010), V50 (2004, 2010), V70 (1997, 2007), XC70 (2002, 2007), XC90 (2002, 2010)

ENGINE CODES

Ford engine codes: 2.5 Turbo (Euro 4), HUBA, HUWA, HYDA, JZDA

Engine codes: 1.6 (B4164S), 1.8 (B4184S), 1.9T (B4194T), 2.0 (B4204S, B4204T), 2.0T (B5204T3, B5204T4, B5204T5), 2.3 (B5234FS), 2.3T (B5234T3, B5234T7, B5234T9), 2.4 (B5244S, B5244S2, B5244S4, B5244S5, B5244S7), 2.4T (B5244T, B5244T3, B5244T4, B5244T5, B5244T7), 2.5R (B5254FS), 2.4D (D5244T9, D5244T8, D5244T13)

DESCRIPTION

For adjusting the camshaft and crankshaft when replacing the cylinder head seal

DELIVERY SCOPE

Crankshaft pulley holding tool, use as OEM 999 5433, 303-1179

Camshaft alignment tool, use as OEM 303-1178

Crankshaft alignment tool, use as OEM 303-1182

Camshaft holder, use as OEM 303-1183



SUITABLE FOR:

ART.NR	ITEM NAME
BT593010	Engine adjustment tool set for Ford 1.0, 3-cylinder EcoBoost

ENGINE CODES

Engine code: M1DD, M1JA, M1JC, M1JE, M1JHM1JJ, M1DA, M2DA, M2DB, M2DC, SFDBSFJA, SFJB, SFJC, SFJD

DESCRIPTION

For checking and adjusting the engine timing

Suitable for Ford engines 1.0L 3-cylinder, with 74 KW, 88 KW, 92 KW, 103 KW, installed in e.g. Fiesta, Focus, B-MAX, EcoSport

DELIVERY SCOPE

Camshaft fixing tool, use as OEM 303-1605 (x 2)

Adjustment tool for camshaft adjuster, use as OEM 303-1606 (x 2)

Crankshaft fixing mandrel, use as OEM 303-1604

Flywheel fixing tool, use as OEM 303-1602, 303-393A, 21-168

Tension roller fixing pin, use as OEM 303-1054



SUITABLE FOR:

ART.NR	ITEM NAME
BT593029	Crankshaft locking pin for Ford Zetec, Duratec engines

DESCRIPTION

Suitable for Ford Zetec SE and Duratec 1.25, 1.4, 1.6l engines, installed in the Fiesta, Fusion and Focus

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ART.NR	ITEM NAME
BT593160	Engine adjustment tool set for Jaguar, Land Rover, Ford, Citroën 2.0, 2.2, 2.4, 3.2 diesel

FOR THE FOLLOWING MODELS

Ford Mondeo (2000 - 2007), Transit (2000 - 2011)
 Citroën Relay (2006 - 2011), Jumper III
 Fiat Ducato (2006 - 2011)
 Jaguar X-Type (2001 - 2010)
 Land Rover Defender (2007 - 2011)
 LDV Convoy (2002 - 2006)
 with DURATORQ (PUMA) diesel engines

ENGINE CODES

2.0L engine code ABFA, D3FA, D5BA, D6BA, F3FA, F4FA, FMBA, HJBA, HJBB, HJBC, HJBE, N7BA, N7BB
 2.2L (with chain-driven high-pressure pump), engine code QJBA (BG), QJBB, QJBC, QJBD
 2.2L (high-pressure pump driven via camshaft), engine code 4HM, 4HU, 4HV, P8FA, P22DTE, QVFA, QWFA
 2.4L with engine code 244DT, DOFA, D2FA, D2FB, D4FA, F4FA, FXFA, H9FA, H9FB, HE FA, HFFA, JXFA, PHFA, ZSD 424
 3.2L with engine code SAFA (timing only)

DESCRIPTION

For checking and adjusting the engine timing
 Needed e.g. when working on the valve train and replacing the cylinder head seal

DELIVERY SCOPE

Engine cover adjustment tool, use as OEM 303-682
 Tool for engine cover/crankshaft radial sealing ring, use as OEM 303-679A
 High-pressure pump wheel holding tool, use as OEM 303-1151
 High-pressure pump wheel disassembly tool, use as OEM 303-249
 Flywheel locking bolt, use as OEM 303-675
 Flywheel locking bolt, use as OEM 303-698
 Locking pin set, 3 pcs, 6 mm
 Tensioner locking pin, 2 mm



ART.NR	ITEM NAME
BT597940	Engine adjustment tool set for Peugeot, Citroën, PSA

FOR THE FOLLOWING MODELS

Citroën AX, Berlingo, BX, C5, C15, C25, Dispatch, Evasion, Jumper, Jumpy, Relay, Saxo, Synergie, Visa, Xsara, Xantia, XM, XJR, ZX, etc.
 Peugeot 106, 205, 306, 405, 406, 605, 806, J5, Boxer, Expert, Partner, Solara, Talbot Express, Talbot Horizon, etc.
 PSA petrol engines 1.9, 1.1, 1.4, 1.6, 1.8, 1.9, 2.0, 1.6, 1.8, 2.0, 2.2 16V (turbo and dual camshafts)
 PSA diesel engines 1.4, 1.5, 1.7, 1.8, 1.9, 2.1, 2.5 D, TD, TDI, 1.4, 1.6, 2.0, 2.2 HDI
 Suitable for structurally identical engines in Fiat, Ford, Nissan, Renault, Rover, Toyota, etc.

DESCRIPTION

For checking and adjusting the engine timing

DELIVERY SCOPE

Flywheel adjustment pin with spring, use as OEM 0188X, 0189X
 Tensioning spanner, 8 mm, use as OEM 7017-TW
 Flywheel fixing mandrel, 7 mm, use as OEM 7017-TR
 Angled adjustment pin, 8 mm, use as OEM 0188D, 7004TG, 9767-34, 0153G, 7014-TJ, 1 860 863 000, 0153N
 Clamping tool, use as OEM 4507-TJ, 9767.89, 0188Q1, 0132X1Z, 0132X
 Camshaft marking mandrel, use as OEM 0189A, 1 871 008 100
 Hdi tension roller lever, use as OEM 0188J2
 Tension roller lever, use as OEM 5711-TE, 0178E, 0188J/J1
 Flywheel disc extractor, use as OEM 0174.0188P, 018892, 7015-T
 Toothed belt retaining clamp, use as OEM 0189K, MOT1436, 4533-TAX, 0188K, 0187J, 0132AK, 0153AK, 1 870 00 100
 Flywheel retainer, use as OEM 0195K, 4507-TL
 Clamping tool, use as OEM 0189S1
 Flywheel retainer, use as OEM 1867030000, 0153A, 9765.54, 6012T, 1860161000
 Tension lever, use as OEM 0189S2
 Angled locking pin, 5 mm

Flywheel fixing mandrel (for automatic transmission), use as OEM 0189R

Camshaft marking mandrel, use as OEM 0189AZ

Crankshaft retainer, use as OEM 0288D, 0188Y, 7014

Flywheel fixing mandrel (manual transmission), use as OEM 0189C

Flywheel interlock, use as OEM 0188F, 0134Q, 1870765001.1870827000, 0134AF, 9044-T, 1871000400

Camshaft marking mandrel (CA1), use as OEM 4533-TAC1, 0132AJ1

Camshaft and crankshaft retainer, use as OEM 0188M, 0187B, 0194B, 303-1277, MOT1430, 0189B, 303-735, 49JE01061, 21-263

Camshaft marking mandrel (CA2), use as OEM 0132AJ2, 2000023000, 0188M, 4533-TAC2

Marking mandrel for injection pump, use as OEM 4527-TS1

Injection pump fixing mandrel, use as OEM 0188H, 1 860 965 000

Flywheel fixing mandrel, use as OEM 49JE02020, 0194C, 21-262, 999-7121, 999-7169, 303-734

2 camshaft and crankshaft marking mandrels, use as OEM 4507-TB.7014-TN, 0132-R, 0153-AB, 0158-G

2 camshaft and crankshaft interlocks, use as OEM KM-955, 7014-TM

2 camshaft marking mandrels, use as OEM 9041-TZ, 5711-TC

2 crankshaft fixing mandrels, use as OEM 5711-TD, 119790, 0194A, 1860617000, 303-732, 07744-00104-00, 49JE02018, 0178D, 9997169, 4527-TS2, 21-260, 999-7169, 0132AB

Camshaft fixing mandrel, use as OEM 0189L

Screw M8 x 80 mm

Pin for clamping device, 3 mm, use as OEM 0153AL, 4200TA

Centring clip for crankshaft pulley, use as OEM 0188AH

Crankshaft marking mandrel, 6 mm, use as OEM 4507-TA, 0132Z, 0132QZ

IVECO



SUITABLE FOR: **Universal**

SUITABLE FOR:



IVECO



SUITABLE FOR: **IVECO**

ART.NR	ITEM NAME
BT596002	Universal camshaft wheel puller

DESCRIPTION

For pulling the pulley and camshaft gear

Gripping arms are connected with each other via adjusting disk, thus the gripping arms can be set easily and exactly

Continuous adjustment range of the gripping arms from 42 - 82 mm

Gripping arm depth is 27 mm

DELIVERY SCOPE

3 x gripping arms, Ø 12 mm, M10 x 1.5, suitable for material thickness up to max. 10 mm

6-groove puller body with adjusting disc

Spindle, M14 x 1.5, 19 mm hex, with centring cone

ART.NR	ITEM NAME
BT592520	Engine adjustment tool set for Fiat Ducato, Peugeot Boxer, Citroën Jumper 2.3 D JTD, 3.0 JTD, HDi

FOR THE FOLLOWING MODELS

Citroën Relay/Jumper III

Fiat Ducato

Iveco Daily (03-10), Daily/EcoDaily (2009-2011)

Peugeot Boxer III (2006-2012)

2.3D, 2.3 JTD F1AE0418A, F1AE0481B, F1AE0481C, F1AE0418D, F1AE0481F, F1AE0481FA, F1AE0481G, F1AE0481H, F1AE0481HA, F1AE0481N, F1AE0481UA, F1AE0481VA

3.0JTD F1CE0481A, F1CE0481B, F1CE0481D, F1CE0481F, F1CE0481H, F1CE3481M

3.0HDi F30DTE, F1CE0481D, F1CE3481DM, F1CE3481N

DESCRIPTION

Use as OEM Fiat 99360187, 99360614, 99360615, 1860617000, 1860815000, 20000180200, Citroën/Peugeot 0191-2A, 0191-2B, 0191-2J, 0191-2K

DELIVERY SCOPE

2 camshaft fixing mandrels

1 crankshaft fixing mandrel

ART.NR	ITEM NAME
BT541062	crankshaft lathe tool for Iveco

FOR THE FOLLOWING MODELS

Euro Cargo, Cargo 150E27R PR, FPR, 320E27T, PT Euro Tech, Eurostar

ENGINE CODES

8360.46/F3A/F3B

DESCRIPTION

For turning the crankshaft when adjusting the engine or carrying out other repairs

Attached to the transmission bell housing and engages in the starter sprocket

DELIVERY SCOPE

Crank shaft lathe tool, use as OEM 99360321

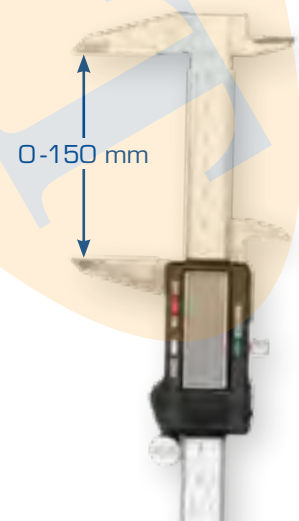


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BT114900 • EAN 4042146778456
Digital measuring stick

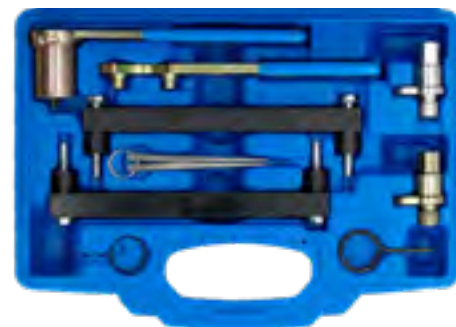


235 mm



0-150 mm

JAGUAR



SUITABLE FOR:  

ART.NR	ITEM NAME	
BT593300	Crankshaft pulley tool set 1 for Jaguar, Land Rover	
DESCRIPTION		
Non-destructive removal and fitting of the crankshaft pulley		
Needed when working on the camshaft drive		
Crankshaft pulley counter support, use as OEM 303-893		
2 fastening screws, use as OEM 303-588		

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SUITABLE FOR:  

ART.NR	ITEM NAME	
BT593150	Engine adjustment tool set for Land Rover, Jaguar 2.7	
FOR THE FOLLOWING MODELS		
Jaguar S-Type TDVi (2004, 2009)		
Land Rover TDV6 Discovery		
Range Rover Sport TDV6 (2004, 2006)		

ENGINE CODES		
Engine code: 276DT		
DESCRIPTION		
For adjusting and checking the engine timing		
Needed when working on the valve train and replacing the cylinder head seal		
DELIVERY SCOPE		
Flywheel interlock (manual tension roller), use as OEM 303-1116		
Flywheel interlock (automatic tension roller), use as OEM 303-1117		
Camshaft wheel adjustment tool, use as OEM 303-1132		
Camshaft wheel adjustment pin, 2 pieces, use as OEM 303-1126 (PSA 0195H)		

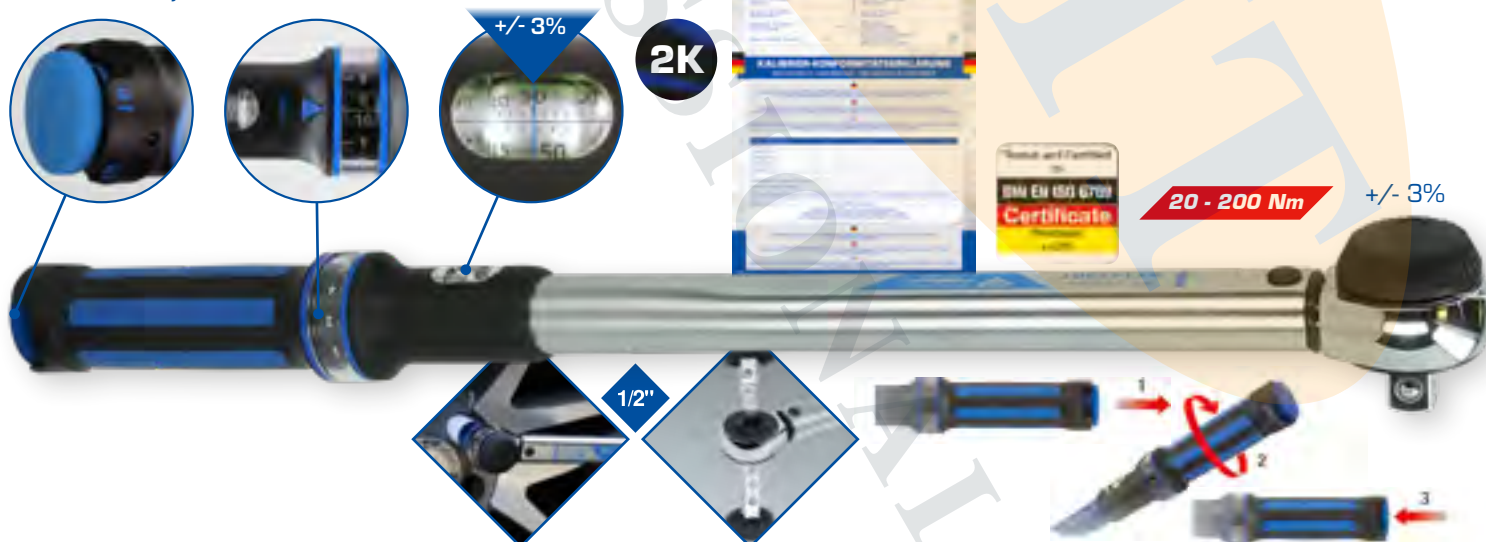
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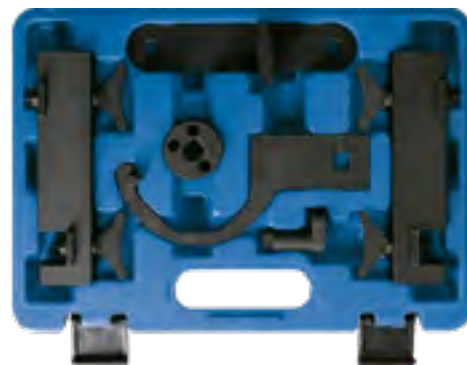
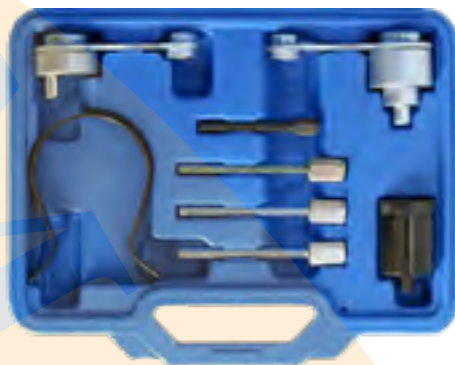
ART.NR	ITEM NAME	
BT593250	Engine adjustment tool set for Land Rover, Jaguar V8	

FOR THE FOLLOWING MODELS		
Suitable for 3.2 3.5 4.0 4.2 4.4L engines in the following models: Jaguar XJ8 (1997, 2009), engine AJ26 AC, BC, LC, 1B, 5G, SB, Jaguar XJR (1997, 2009), engine AJ27 KB, CC, MA, 2B, 9G, TB, Jaguar S-Type (1999, 2008), engine AJ28 KC, CE, MB, 3B, HB, PC, Jaguar XF (2008, 2009), engine AJ34 3.5, DC, NB, 1G, HG, Jaguar XK8 (1997, 2009), engine RB, EC, NC, Jaguar XKR (1998, 2009), engine GB, PA, Range Rover (2006, 2009), 4.2L engine (428PS), Range Rover (2005, 2009), 4.2L engine (428PS), Land Rover Discovery III (2005, 2009)		

DESCRIPTION		
For adjusting and checking the engine timing		
Needed e.g. when working on the valve train and replacing the cylinder head seal		
DELIVERY SCOPE		
Flywheel locking bolt (silver), use as OEM 303-531		
Flywheel locking bolt (gold), use as OEM 303-645		
2 camshaft adjustments plate, use as OEM 303-530		
Camshaft sprocket holding tool, use as OEM 303-532		
2 wedges, use as OEM 303-533		
Primary tensioner locking pin, use as OEM T40011		
Adjustment tool for VVT unit, use as OEM 303-654		
Tensioner locking pin		

BT141901 • EAN 4042146813140
1/2" torque wrench with rotary mushroom ratchet head, 20-200 Nm





ART.NR	ITEM NAME
BT593160	Engine adjustment tool set for Jaguar, Land Rover, Ford, Citroën 2.0, 2.2, 2.4, 3.2 diesel

FOR THE FOLLOWING MODELS

Ford Mondeo (2000 - 2007), Transit (2000 - 2011)
 Citroën Relay (2006 - 2011), Jumper III
 Fiat Ducato (2006 - 2011)
 Jaguar X-Type (2001 - 2010)
 Land Rover Defender (2007 - 2011)
 LDV Convoy (2002 - 2006)
 with DURATORQ (PUMA) diesel engines

ENGINE CODES

2.0L engine code ABFA, D3FA, D5BA, D6BA, F3FA, F1FA, FMBA, HJBA, HJBB, HJBC, HJBE, N7BA, N7BB
 2.2L (with chain-driven high-pressure pump), engine code QJBA (BG), QJBB, QJBC, QJBD
 2.2L (high-pressure pump driven via camshaft), engine code 4HM, 4HU, 4HV, P8FA, P22DTE, QVFA, QWFA
 2.4L with engine code 244DT, DOFA, D2FA, D2FB, D4FA, F4FA, FXFA, H9FA, H9FB, HE FA, HFFA, JXFA, PHFA, ZSD 424
 3.2L with engine code SAFA (timing only)

DESCRIPTION

For checking and adjusting the engine timing
 Needed e.g. when working on the valve train and replacing the cylinder head seal

DELIVERY SCOPE

Engine cover adjustment tool, use as OEM 303-682
 Tool for engine cover/crankshaft radial sealing ring, use as OEM 303-679A
 High-pressure pump wheel holding tool, use as OEM 303-1151
 High-pressure pump wheel disassembly tool, use as OEM 303-249
 Flywheel locking bolt, use as OEM 303-675
 Flywheel locking bolt, use as OEM 303-698
 Locking pin set, 3 pcs, 6 mm
 Tensioner locking pin, 2 mm



ART.NR	ITEM NAME
BT593180	Engine adjustment tool set for Jaguar, Land Rover 2.7, 3.0 TD V6

FOR THE FOLLOWING MODELS

Citroën C5 III (2007 - 2009), C6 (2005 - 2009)
 Jaguar S-Type (2004 - 2008), XF (2008 - 2012), XJ (2010 - 2012), XJ6 (2005 - 2010)
 Range Rover Sport (2005 - 2009)
 Peugeot 407 (2004 - 2009), 407 Coupe (2006 - 2009), 607 (2004 - 2011) 2.7D V6, TDVi (276DT) 2.7D HDi (DT17BTED4) (UHZ) 3.0D HDi (D20CTED4) (X8Z) 3.0D SD V6, TD V6 (306DT) (AJ-V6D)

DESCRIPTION

For checking and adjusting the engine timing
 Needed e.g. when working on the valve train and replacing the cylinder head seal

DELIVERY SCOPE

Flywheel interlock (manual), use as OEM (Rover) 303-1116
 Flywheel interlock (automatic), use as OEM (Rover) 303-1117
 Camshaft sprocket adjustment pin, use as OEM (Rover) 303-1132
 Camshaft sprocket adjustment pin, 2 pcs, use as OEM (Rover) 303-1126, (PSA) 0195H
 Water pump locking pin, use as OEM (PSA) 0195-C
 Flywheel locking tool, use as OEM (PSA) 0195-K
 Toothed belt retaining clip, use as OEM (PSA) 0188-K

ART.NR	ITEM NAME
BT593190	Engine adjustment tool set for Jaguar, Land Rover 5.0 V8

FOR THE FOLLOWING MODELS

Suitable for the following models with a 5L V8 engine:
 X150-XK (10MY), X250-XF (10MY), X351-XJ (10MY)

DESCRIPTION

For adjusting and checking the engine timing
 Needed when working on the valve train and replacing the cylinder head seal

DELIVERY SCOPE

Camshaft adjustment tool, use as OEM 303-1445
 Crankshaft locking bolt, use as OEM 303-1447
 Flywheel locking tool, use as OEM 303-1448
 Crankshaft turning tool, use as OEM 303-1452
 Timing chain tensioning tool, use as OEM 303-1482

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BT013012 • EAN 4042146774076
Ratcheting combination wrench set,
long style, 12 pcs.



72 5°

12 pcs.

12x		• 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 • 16 • 17 • 18 • 19 mm
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JEEP



SUITABLE FOR: **Jeep**

ART.NR	ITEM NAME
BT593310	Engine adjustment tool set for Jeep 3.0 V6 diesel

FOR THE FOLLOWING MODELS

Jeep Grand Cherokee 3.0 V6 CRD (2011, 2015), engine code: EXF VM23D
Jeep Grand Cherokee 3.0 Multijet (2011, 2015), engine code: EXF VM44D

DESCRIPTION

For adjusting the engine timing when replacing the timing chain or the cylinder head seal

DELIVERY SCOPE

Camshaft locking tool for the right cylinder head, use as OEM VM10338-1
Camshaft locking tool for the left cylinder head, use as OEM VM10338-2
Chain tensioner locking pin, use as OEM VM1039a
Crankshaft locking pin, use as OEM VM10339

SUITABLE FOR: **Jeep**

CHRYSLER

ART.NR	ITEM NAME
BT593670	Engine adjustment tool set for Chrysler, Jeep, Dodge 2.8l Diesel

FOR THE FOLLOWING MODELS

Grand Voyager
Jeep Cherokee
Wrangler
Dodge Nitro

ENGINE CODES

Engine codes: VM64C, ENS, ENS (51C), 49C, 50C, ENS VM10D, ENS VM11D

DESCRIPTION

For checking and adjusting the engine timing

DELIVERY SCOPE

Camshaft locking tool, use as OEM VM9991
Crankshaft locking tool, use as OEM VM9992

SUITABLE FOR: **Jeep**

CHRYSLER

ART.NR	ITEM NAME
BT593890	Engine adjustment tool set for Chrysler 2.5 CRD

FOR THE FOLLOWING MODELS

Chrysler Voyager, Grand Voyager R2516C, R2516L, R2816K engines
Jeep Cherokee (year of construction 2001, 2008) 2.5, 2.8 engines
LDV Maxus (year of construction 2005, 2008) VM2516L engines

DESCRIPTION

For checking and adjusting the engine timing

DELIVERY SCOPE

Camshaft locking pin (intake), use as OEM VM1052
Camshaft locking pin (exhaust), use as OEM VM1053
Flywheel locking pin (Voyager, Grand Voyager 2.5, 2.8 and LDV Maxus), use as OEM VM1068, VM1089
Flywheel locking pin (Jeep Cherokee 2.8), use as OEM VM1080
Flywheel locking pin (Jeep Cherokee 2.5), use as OEM VM8873
Tensioning spanner, use as OEM VM9660
Balance shaft locking pin
Flywheel locking pin



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BT521300

EAN 4042146778845

VAG Water pump removal tool kit

Volkswagen T5 | Touareg 2,5 L Diesel

3 pcs.



LANCIA



SUITABLE FOR:

ART.NR	ITEM NAME
BT592700	Engine adjustment tool set for Alfa Romeo, Fiat 1.4 MultiAir

FOR THE FOLLOWING MODELS

Alfa Romeo Giulietta, Mito, Fiat Punto, Punto Evo 1.4 (Turbo) MultiAir (105/135/163/170PS)

Engine codes: 940A2.000, 940A2.000, 955A8.000, 955A8.000, 940A2.000, 955A8.000, 955A2.000, 955A7.000, 955A6.000, 955A8.000

DESCRIPTION

For adjusting the engine timing when replacing the toothed belt

DELIVERY SCOPE

Camshaft adjustment tool including 3 fastening screws, use as OEM 2000034400

Crankshaft locking tool including 4 fastening screws, use as OEM 2000004500

Tension roller key, use as OEM 1860987000

SUITABLE FOR:

ART.NR	ITEM NAME
BT592600	Engine adjustment tool set for Fiat 1.2 16V

FOR THE FOLLOWING MODELS

Fiat 500 1.2 (2007), Brava 1.2, Bravo 1.2 16V (1995-2002), Grande Punto 1.2, Idea 1.2, Idea 1.2 16V, Marea 1.2, Marea Weekend, Marengo 1.2, Palio Weekend 1.2 16V (1993-1999), Punto 1.2 (1993-1999), Punto Classic 1.2 16V (1999), Stilo 1.2

Lancia Ypsilon 1.2 16V (1996 - 2003)

ENGINE CODES

Engine codes: 176B9.000, 169A4.000, 182B2.000, 188A5.000

DESCRIPTION

For checking and adjusting the engine timing

DELIVERY SCOPE

Measurement adapter for piston height (2 x), use as OEM 1860992000

Camshaft adjustment tools (2 x), use as OEM 1860985000

Tension roller key, use as OEM 1860987000

SUITABLE FOR:

ART.NR	ITEM NAME
BT591310	Engine adjustment tool set for Alfa Romeo, Lancia, Fiat 0.9

FOR THE FOLLOWING MODELS

Alfa Romeo Mito from 2012 onwards

Fiat 500 from 2010 onwards

Fiat Panda from 2012 onwards

Fiat Punto from 2012 onwards

Lancia Ypsilon from 2012 onwards

DESCRIPTION

For adjusting the engine timing, e.g. when replacing the timing chain, repairing the cylinder head, etc.

DELIVERY SCOPE

Crankshaft locking mandrel, use as OEM 2000035300

Pulley locking mandrel, use as OEM 2000035200

Camshaft interlock plate, use as OEM 2000035100

Brilliant Tools®
powered by





SUITABLE FOR:



ART.NR	ITEM NAME
BT591350	Engine adjustment tool set for Fiat, Lancia, Alfa Romeo

FOR THE FOLLOWING MODELS

Alfa Romeo 145 1.4, 1.6 16V Step A - 146 1.4, 1.6 16V Step A - 147 1.6 16V Step A - 147 105 PS - 147 1.6 eco 103 PS - 155 1.4, 1.6 16V Step A - 156 1.6 16V Step A - 156 1.8, 2.0 16V - 156 2.0 JTS - 166 2.0 - GTV 2.0 JTS - Spider GT 2.0 JTS 16V 165 PS

Lancia K5 2.0 20V, 4-cylinder, VIS engines from year of construction 1996 onwards, Delta 1.8 16V Step A, Dedra 1.8 16V Step A, Y10 1.4 12V

Fiat Bravo 1.4 12V, 2.0 20V - Brava 1.4 12V, 2.0 20V - Marela 2.0 20V, Coupe 1.8 16V, Barchetta 1.8 16V, Punto 1.8 16V

DESCRIPTION

Special insert, drive square socket 12.5 mm (1/2") for dismantling the phaser

23 precisely fitting locking devices for the feed and discharge camshaft

prevent the camshafts from twisting after assembly and position them in assembly position for the toothed belt.

The locking devices are labelled with numbers and additionally colour-coded to avoid confusion

The OT point adjustment mandrel and a micrometer clock (not scope of delivery) makes a precise alignment of the crankshaft possible

DELIVERY SCOPE

Cam shaft locking devices, use as OEM 1 825 041 000, 1 825 042 000, 1 860 096 100, 1 860 819 000, 1 860 847 000, 1 860 892 000, 1 860 899 000, 1 870 797 000

Bracket for dial gauge for adjusting the piston OT (requires dial gauge), use as 1 860 895 000, 1 895 879 000, 1 825 013 000

Insert for phaser, use as OEM 1 822 110 000, 1 852 161 000

SUITABLE FOR:



ART.NR	ITEM NAME
BT592800	Engine adjustment tool set for Fiat, Lancia

DESCRIPTION

For checking and adjusting the engine timing

Locking the flywheel

Locking the crankshaft

Locking the camshaft

Locking the injection pump shaft

Removing the crankshaft pulley

Tensioning the toothed belt



SUITABLE FOR:



ART.NR	ITEM NAME
BT592575	Camshaft locking block for Fiat, Lancia 1.4 12V

FOR THE FOLLOWING MODELS

Fiat Bravo, Brava, Lancia Y10 1.4 12V

ENGINE CODES

Engine code: 182A3.000, 182A5.000

DESCRIPTION

For locking the camshafts when adjusting the engine timing

Use as OEM 1860899000

SUITABLE FOR:



ART.NR	ITEM NAME
BT591270	Camshaft locking tool set for Lancia 2.4 20V

FOR THE FOLLOWING MODELS

Lancia 2.4L 20V 5-cylinder (up until 1996)

DESCRIPTION

For adjusting and checking the engine timing

Use as OEM 1860818000

DELIVERY SCOPE

Camshaft adjustment tool for intake cam 3-cylinder

Camshaft adjustment tool for exhaust cam 2-cylinder



SUITABLE FOR:



ART.NR	ITEM NAME
BT591225	Camshaft locking tool set for Fiat, Lancia 1.8i 130 PS

FOR THE FOLLOWING MODELS

Fiat, Lancia 1.8L 16V 130PS

DESCRIPTION

For checking and adjusting the camshaft timing

Use as OEM 1860847000

DELIVERY SCOPE

Camshaft adjustment tool for intake cam 2-cylinder

Camshaft adjustment tool for exhaust cam 3-cylinder



SUITABLE FOR:

ART.NR	ITEM NAME
BT592590	Camshaft locking tool set for Fiat, Lancia 1.8 16V

FOR THE FOLLOWING MODELS

Fiat Coupe, Barchetta, Punto (HGT), Barchetta (HGT)
Lancia Delta, Dedra Step „A“

DESCRIPTION

For checking and adjusting the engine timing
Use as OEM 1870697000

DELIVERY SCOPE

Camshaft adjustment tool for intake cam 2-cylinder
Camshaft adjustment tool for exhaust cam 3-cylinder

SUITABLE FOR:

ART.NR	ITEM NAME
BT591245	Camshaft locking tool set for Alfa Romeo, Lancia 3.0 V6 24V

FOR THE FOLLOWING MODELS

Alfa Romeo, Lancia 3.0L V6 24V

DESCRIPTION

For checking and adjusting the camshaft timing
Use as OEM 1825040000

DELIVERY SCOPE

Camshaft adjustment tool for intake cam 1-cylinder
Camshaft adjustment tool for exhaust cam 1-cylinder
Camshaft adjustment tool for intake cam 6-cylinder
Camshaft adjustment tool for exhaust cam 4-cylinder



SUITABLE FOR:

ART.NR	ITEM NAME
BT592585	Camshaft locking tool set for Fiat, Lancia 1.8, 115 PS

FOR THE FOLLOWING MODELS

Fiat Bravo, Brava, Marela 1800 16V, 115 PS
Lancia Delta, Dedra 1800 16V, 115 PS

DESCRIPTION

For checking and adjusting the engine timing
Use as OEM 1860875000

DELIVERY SCOPE

Camshaft adjustment tool for intake cam 2-cylinder
Camshaft adjustment tool for exhaust cam 3-cylinder

LAND ROVER



SUITABLE FOR:



ART.NR	ITEM NAME
BT592880	Engine adjustment tool set for Rover, Peugeot, Ford, Volvo 2.0, 2.2i D

FOR THE FOLLOWING MODELS

Peugeot 807 (2005, 2011), 407 (2005, 2011), 607 (2005, 2009), engine DW10UTED4 (RHK), DW10BTED4 (RHR)/DW12BTED4 (4HS), (4HP), (4HT), (4HR)
Citroën C4 (2004, 2010), C5 II (2004, 2010), engine DW10BTED4 (RHR)
Land Rover Freelander (2006, 2010), engine DW12BTED4, 224DT
Volvo S40 (2003, 2010), V50 (2006, 2010), C70 (2006, 2010), S80 (2007, 2010), C30 (2006, 2010), V70 (2007, 2010), engine D420T 2.0D
Ford S-Max 2.2 (2008, 2010), Galaxy 2.2 (2008, 2010), Mondeo 2.2, 2.0 (2007, 2010)

ENGINE CODES

Engine codes: QXBA(2.2), QXWA(2.0), QXBB(2.0), Q4BA(2.2), QXWA(2.0), QXWB(2.0), AZBA(2.0), AZBC(2.0), AZWA(2.0)

DESCRIPTION

Makes it easier to check and adjust the engine timing

DELIVERY SCOPE

Camshaft interlock, use as OEM PSA 0188.M, Ford 303-735, 303-1277, Volvo 999-7122
Crankshaft interlock, use as OEM PSA 0188.X, Ford 303-1059, 303-1270, Volvo 999-7121
Flywheel interlock, use as PSA 0188.F, Ford 303-393A, 303-393-01, 303-1272, Volvo 999-7119/7120



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ART.NR	ITEM NAME	
BT591650	Engine adjustment tool set for BMW diesel engines	

FOR THE FOLLOWING MODELS

BMW 1, 3, 5, 6, 7, X3, X 5 (series E34-36-38-39-66-83-90-91-92-93)

Land Rover, Range Rover, Freelander

Rover 75, MG, MG ZT

Vauxhall, Opel Omega-B

ENGINE CODES

M41, M51, M47 M47 TU/T2, M57 TU/T2 2.0i/3.0i (1998-2008)

204D3, Td4, Td 6

M47R

DELIVERY SCOPE

Timing chain counter support, use as OEM BMW 113360, Range Rover LRT-12-115

Camshaft alignment tool, use as OEM BMW 116321 (116320), Opel KM6267

Securing bracket alignment tool, use as OEM BMW 116322 (116320)

Injection pump extractor (long), use as OEM BMW 135120
Injection pump extractor, use as OEM BMW 135120, Range Rover LRT-12-119

Injection pump extractor (short), use as OEM BMW 135191, 135192 (135190), Opel KM6270

Threaded ring, use as OEM BMW 135191, 135192 (135190), Opel KM6270

Camshaft securing bridge, use as OEM BMW 113320, Range Rover LRT-12-112

Crankshaft marking pin, use as OEM BMW 115180

Crankshaft marking pin, use as OEM BMW 116080

Tension roller marking pins, use as OEM BMW 113340, Range Rover LRT-12-114, Opel KM-823

Crankshaft marking pin, use as OEM BMW 112300, Range Rover LRT-12-108



ART.NR	ITEM NAME	
BT592320	Balance shaft adjustment tool set for Land Rover, Citroën, Mitsubishi, Peugeot, Ford 2.2 DOHC diesel engines	

FOR THE FOLLOWING MODELS

Land Rover Discovery, Discovery Sport, Freelander 2, eD4, TD4, TD4e (2009-2015) engine codes: 224DT, DW12CTE-D4/224DT, DW12BTED4/224DT

Citroën C5, C5 II, C5 III, C6, C8, C-Crosser HDi (200-2015) engine codes: 4HX (DW12CTED4), 4HP (DW12BTED4), 4HX (DW12TED4), 4HW (DW12TED4/L4)

Mitsubishi Outlander DI-D, DI-DC (2007-2013) engine codes: 4HK, 4HN

Peugeot 4007, 407, 607, 807, 406, 508, 607, HDi, GT HDi (2000-2015) engine codes: DW12MTED4 (4HK), DW12MTED4 (4HN), DW12BTED4 (4HP), DW12BTED4 (4HR), DW12BTED4 (4HT), DW12TED4/L4 (4HW), DW12BTED4 (4HS), DW12ATED (4HZ), DW12ATED4 (4HX), DW12ATED (4HZ), DW12CTED4 (4HL)

Ford Galaxy, Mondeo, S-Max, TDCI, TCI (2008-2015) engine codes: KNBB, KNBA, KNWA, Q4BA

DESCRIPTION

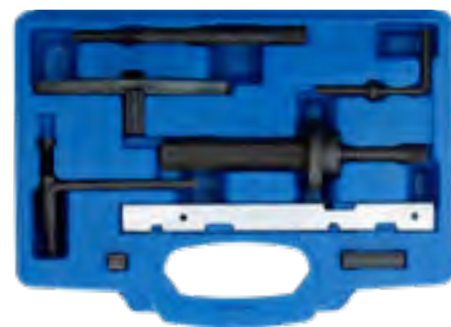
For adjusting the balance shaft

DELIVERY SCOPE

Balance shaft fixing tool, use as OEM 303-1329

Balancing tool, use as OEM 303-1330

Balance shaft adjustment tool, use as OEM 303-1328, 0190D



ART.NR	ITEM NAME	
BT593000	Engine adjustment tool for Ford 1.8 TDDI, TDCI	

FOR THE FOLLOWING MODELS

Ford C-MAX (2007-2010), Courier (2000-2002), Fiesta (2000-2002), Focus (1998-2011), Focus C-MAX (2003-2007), Galaxy (2006-2010), Mondeo (2007-2010), S-MAX (2006-2014), Tourneo Connect (2002-2013), Transit Connect (2002-2013)

ENGINE CODES

BHPA, F9DA, F9DB, FFBA, FFDA, FFWA, HCPA, HCPB, KHBA, KKDA, KKDB, P7PA, P9PA, P9PB, QYBA, QYWA, R2PA, R3PA, RWPA, RWPC, KHBA, BHDA, BHDB, BHPA, C9DA, C9DB, C9DC, RTN, RTP, RTQ

DESCRIPTION

For checking and adjusting the engine timing

Use as OEM Ford 303-193 (21-104), 303-393 (21-168), 303-376 (21-162B), 303-652 (21-230), 310-095 (23-067)



ART.NR	ITEM NAME	
BT593300	Crankshaft pulley tool set I for Jaguar, Land Rover	

DESCRIPTION

Non-destructive removal and fitting of the crankshaft pulley

Needed when working on the camshaft drive

Crankshaft pulley counter support, use as OEM 303-893

2 fastening screws, use as OEM 303-588

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SUITABLE FOR: LAND-ROVER JAGUAR

SUITABLE FOR: Audi CHRYSLER CITROËN

SUITABLE FOR: Universal

ART.NR	ITEM NAME	
BT593150	Engine adjustment tool set for Land Rover, Jaguar 2.7	

FOR THE FOLLOWING MODELS
Jaguar S-Type TDVi (2004, 2009)
Land Rover TDV6 Discovery
Range Rover Sport TDV6 (2004, 2006)

ENGINE CODES
Engine code: 276DT

DESCRIPTION
For adjusting and checking the engine timing
Needed when working on the valve train and replacing the cylinder head seal

DELIVERY SCOPE
Flywheel interlock (manual tension roller), use as OEM 303-1116
Flywheel interlock (automatic tension roller), use as OEM 303-1117
Camshaft wheel adjustment tool, use as OEM 303-1132
Camshaft wheel adjustment pin, 2 pieces, use as OEM 303-1126 (PSA 0195H)



ART.NR	ITEM NAME	
BT591260	Camshaft sprocket locking tool set, universal	

FOR THE FOLLOWING MODELS
Can be used universally on vehicles from the following manufacturers: Audi, Alfa Romeo, Chrysler, Citroën, Ford, Honda, Hyundai, Isuzu, Land Rover, Lexus, Mazda, Mitsubishi, Peugeot, Renault, MG, Seat, Škoda, Subaru, Toyota, Opel, Volkswagen, Volvo

DESCRIPTION
For locking the camshaft sprockets e.g. when replacing the toothed belt
Suitable for engines with 1, 2 and 4 camshafts (V engines); also suitable for locking between the camshaft sprocket and diesel injection pump wheel in some diesel engines

DELIVERY SCOPE
Double camshaft locking tool with short and long connecting arm
Single camshaft locking tool with short and long locking screw

ART.NR	ITEM NAME	
BT596002	Universal camshaft wheel puller	

DESCRIPTION
For pulling the pulley and camshaft gear
Gripping arms are connected with each other via adjusting disk, thus the gripping arms can be set easily and exactly
Continuous adjustment range of the gripping arms from 42 - 82 mm
Gripping arm depth is 27 mm

DELIVERY SCOPE
3 x gripping arms, Ø 12 mm, M10 x 1.5, suitable for material thickness up to max. 10 mm
6-groove puller body with adjusting disc
Spindle, M14 x 1.5, 19 mm hex, with centring cone



BT521150

EAN 4042146778869

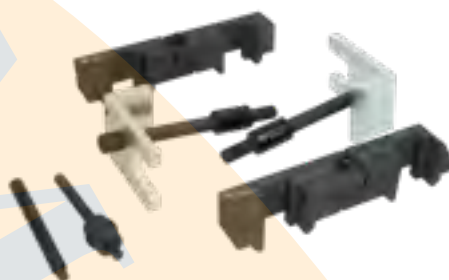
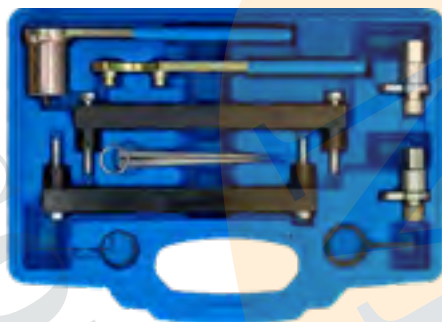
Master cooling radiator pressure tester with vacuum purge and refill kit



28 pcs.

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SUITABLE FOR:

ART.NR	ITEM NAME
BT593250	Engine adjustment tool set for Land Rover, Jaguar V8

FOR THE FOLLOWING MODELS

Suitable for 3.2 3.5 4.0 4.2 4.4L engines in the following models: Jaguar XJ8 (1997, 2009), engine AJ26 AC, BC, LC, 1B, 5G, SB, Jaguar XJR (1997, 2009), engine AJ27 KB, CC, MA, 2B, 9G, TB, Jaguar S-Type (1999, 2008), engine AJ28 KC, CE, MB, 3B, HB, PC, Jaguar XF (2008, 2009), engine AJ34 3.5, DC, NB, 1G, HG, Jaguar XK8 (1997, 2009), engine RB, EC, NC, Jaguar XKR (1998, 2009), engine GB, PA, Range Rover (2006, 2009), 4.2L engine (428PS), Range Rover (2005, 2009), 4.2L engine (428PS), Land Rover Discovery III (2005, 2009)

DESCRIPTION

For adjusting and checking the engine timing
Needed e.g. when working on the valve train and replacing the cylinder head seal

DELIVERY SCOPE

Flywheel locking bolt (silver), use as OEM 303-531
Flywheel locking bolt (gold), use as OEM 303-645
2 camshaft adjustments plate, use as OEM 303-530
Camshaft sprocket holding tool, use as OEM 303-532
2 wedges, use as OEM 303-533
Primary tensioner locking pin, use as OEM T40011
Adjustment tool for VVT unit, use as OEM 303-654
Tensioner locking pin

SUITABLE FOR:

ART.NR	ITEM NAME
BT591880	Engine adjustment tool set for BMW, Land Rover V8

FOR THE FOLLOWING MODELS

BMW 530i (1994, 1995), 540i (1997, 2003), 740i (1993, 1995), 740iL (1993, 2001), 840Ci (1995, 1996), X5 (2000, 2003)
Range Rover with M60, M62 and M62TU V8 engines

DESCRIPTION

For adjusting and checking the engine timing
Needed e.g. when working on the valve train and replacing the cylinder head seal

DELIVERY SCOPE

Discharge camshaft adjustment tool (cylinders 1-4), use as OEM BMW 112445, Rover LRT 12-223/2
Intake camshaft adjustment tool (cylinders 1-4), use as OEM BMW 112441, Rover LRT 12-223/1
Intake camshaft adjustment tool (cylinders 5-8), use as OEM BMW 112442, Rover LRT 12-223/3
Discharge camshaft adjustment tool (cylinders 5-8), use as OEM BMW 112446, LRT 12-223/4
Fixing tools for camshaft adjuster (A-D)
Crankshaft locking pin, use as OEM 112300
Timing chain tensioner, use as OEM 113390

SUITABLE FOR:



ART.NR	ITEM NAME
BT593160	Engine adjustment tool set for Jaguar, Land Rover; Ford, Citroën 2.0, 2.2, 2.4, 3.2 diesel

FOR THE FOLLOWING MODELS

Ford Mondeo (2000 - 2007), Transit (2000 - 2011)
Citroën Relay (2006 - 2011), Jumper III
Fiat Ducato (2006 - 2011)
Jaguar X-Type (2001 - 2010)
Land Rover Defender (2007 - 2011)
Peugeot Boxer III (2006 - 2011)
LDV Convoy (2002 - 2006)
with DURATORQ (PUMA) diesel engines

ENGINE CODES

2.0L engine code ABFA, D3FA, D5BA, D6BA, F3FA, FIFA, FMBA, HJBA, HJBB, HJBC, HJBE, N7BA, N7BB
2.2L (with chain-driven high-pressure pump), engine code QJBA (BG), QJBB, QJBC, QJBD
2.2L (high-pressure pump driven via camshaft), engine code 4HM, 4HU, 4HV, P8FA, P22DTE, QVFA, QWFA
2.4L with engine code 244DT, DQFA, D2FA, D2FB, D4FA, F4FA, FXFA, H9FA, H9FB, HE FA, HFFA, JXFA, PHFA, ZSD 424
3.2L with engine code SAFA (timing only)

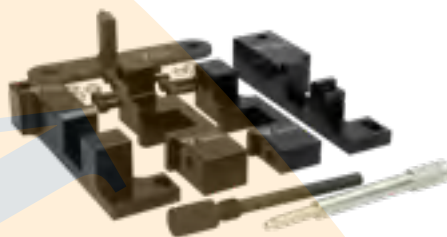
DESCRIPTION

For checking and adjusting the engine timing
Needed e.g. when working on the valve train and replacing the cylinder head seal

DELIVERY SCOPE

Engine cover adjustment tool, use as OEM 303-682
Tool for engine cover/crankshaft radial sealing ring, use as OEM 303-679A
High-pressure pump wheel holding tool, use as OEM 303-1151
High-pressure pump wheel disassembly tool, use as OEM 303-249
Flywheel locking bolt, use as OEM 303-675
Flywheel locking bolt, use as OEM 303-698
Locking pin set, 3 pcs, 6 mm
Tensioner locking pin, 2 mm





SUITABLE FOR:

ART.NR	ITEM NAME	
BT593180	Engine adjustment tool set for Jaguar, Land Rover 2.7, 3.0 TD V6	

FOR THE FOLLOWING MODELS

Citroën C5 III (2007 - 2009), C6 (2005 - 2009)
Jaguar S-Type (2004 - 2008), XF (2008 - 2012), XJ (2010 - 2012), XJ6 (2005 - 2010)
Range Rover Sport (2005 - 2009)
Peugeot 407 (2004 - 2009), 407 Coupe (2006 - 2009), 607 (2004 - 2011) 2.7D V6, TDVi (276DT) 2.7D HDi (DT17BTED4) (UHZ) 3.0D HDi (D20CTED4) (X8Z) 3.0D SD V6, TD V6 (306DT) (AJ-V6D)

DESCRIPTION

For checking and adjusting the engine timing
Needed e.g. when working on the valve train and replacing the cylinder head seal

DELIVERY SCOPE

Flywheel interlock (manual), use as OEM (Rover) 303-1116
Flywheel interlock (automatic), use as OEM (Rover) 303-1117
Camshaft sprocket adjustment pin, use as OEM (Rover) 303-1132
Camshaft sprocket adjustment pin, 2 pcs, use as OEM (Rover) 303-1126, (PSA) 0195H
Water pump locking pin, use as OEM (PSA) 0195-C
Flywheel locking tool, use as OEM (PSA) 0195-K
Toothed belt retaining clip, use as OEM (PSA) 0188-K

SUITABLE FOR:

ART.NR	ITEM NAME	
BT593320	Engine adjustment tool set for Land Rover 3.6 TD V8	

FOR THE FOLLOWING MODELS

Range Rover (L332) 3.6 TD V8 (2006-2011), engine code: 368DT
Rover Sport L320 3.6 TD V8 (2006-2011), engine code: 369DT

DESCRIPTION

For adjusting the engine timing when replacing the timing chain or the cylinder head seal

DELIVERY SCOPE

Camshaft adjustment tool (2x) with fastening screws, use as OEM 303-1236
Flywheel locking tool, use as OEM 303-1243
Crankshaft adjustment pin, use as OEM 303-1238
Camshaft turning pin, use as OEM 303-1239

SUITABLE FOR:

ART.NR	ITEM NAME	
BT593190	Engine adjustment tool set for Jaguar, Land Rover 5.0 V8	

FOR THE FOLLOWING MODELS

Suitable for the following models with a 5L V8 engine: X150-XK (10MY), X250-XF (10MY), X351-XJ (10MY)

DESCRIPTION

For adjusting and checking the engine timing
Needed when working on the valve train and replacing the cylinder head seal

DELIVERY SCOPE

Camshaft adjustment tool, use as OEM 303-1445
Crankshaft locking bolt, use as OEM 303-1447
Flywheel locking tool, use as OEM 303-1448
Crankshaft turning tool, use as OEM 303-1452
Timing chain tensioning tool, use as OEM 303-1482



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SUITABLE FOR:



ART.NR	ITEM NAME
BT593350	Engine adjustment tool for Land Rover, BMW, Opel 1.8, 2.5 with timing chain

FOR THE FOLLOWING MODELS

BMW, Land Rover, Opel, Rover

ENGINE CODES

17 4 T1 / 25 6 T1

DESCRIPTION

For adjusting and checking the engine timing

DELIVERY SCOPE

Crankshaft tapping tool, OEM: 11 2 300, KM 813, LRT12108, LRT12171
Crankshaft alignment tool - diesel, OEM: 11 3 320, KM 811, LRT12112
Locking pin (2) OEM: 11 3 340, LRT12172
Crankshaft holding tool, OEM: KM 819, KM819
Cam chain tensioner, OEM: 11 3 360, KM 822, LRT12115
Puller for injection pump, OEM: KM 825, 13 5 120I, LRT12119
Puller for injection pump shaft, OEM: KM 826, KM826

SUITABLE FOR:



ART.NR	ITEM NAME
BT593200	Engine adjustment tool for Jaguar

FOR THE FOLLOWING MODELS

Land Rover 200Tdi 300Tdi 2.5D (12J) 2.5TD

DESCRIPTION

For adjusting and checking the engine timing

DELIVERY SCOPE

Puller for crankshaft vibration damper
Blocking tool of the injection pump
Blocking tool of the injection pump 200/300 Tdi
Flywheel blocking tool 200/300 Tdi
DPS pump tapping tool 2.5
Flywheel blocking tool 2.5
EDC tapping tool 30Q gearbox
Crankshaft puller



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SUITABLE FOR:



ART.NR	ITEM NAME
BT593029	Crankshaft locking pin for Ford Zetec, Duratec engines

DESCRIPTION

Suitable for Ford Zetec SE and Duratec 1.25, 1.4, 1.6I engines, installed in the Fiesta, Fusion and Focus



SUITABLE FOR:



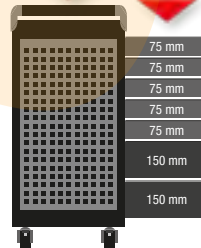
ART.NR	ITEM NAME
BT593100	Engine adjustment tool set for Ford

FOR THE FOLLOWING MODELS

Suitable for the following Ford engines: 1.4, 1.6 16V, 1.7, 1.8 16V, 2.0 16V (including Zetec), 1.4, 1.6, 1.8, 1.9 D/ TD/TDCi

DESCRIPTION

Contains tools for: Locking the flywheel
Locking the crankshaft, pump shaft
Locking the injection pump shaft
Removing the crankshaft pulley
Tensioning the toothed belt
Adjustment gauge for positioning the camshaft and pump shaft in relation to the crankshaft
Use as OEM 21-162, 21-162B, 303-367, 303-376, 23-059, 310-085, 21-168, 303-393, 23-020, 23-047, 23-020, 21-163, 303-620, 23-019, 21-210, 303-507, 21-251, 303-698, 21-262, 303-734, 23-029, 303-1061, 23-058, 310-084, 21-105, 21-262, 303-734, 21-168, 303-393, 21-263, 303-735, Mazda 49JE01061, Audi 3359, T10008, T10050, 2065A, Seat 3359, T10008, T10050, 2065A, Škoda 3359, T10008, T10050, 2065A, Volkswagen 3359, T10008, T10050, 2065A





ART.NR	ITEM NAME
BT591260	Camshaft sprocket locking tool set, universal

FOR THE FOLLOWING MODELS

Can be used universally on vehicles from the following manufacturers: Audi, Alfa Romeo, Chrysler, Citroën, Ford, Honda, Hyundai, Isuzu, Land Rover, Lexus, Mazda, Mitsubishi, Peugeot, Renault, MG, Seat, Skoda, Subaru, Toyota, Opel, Volkswagen, Volvo

DESCRIPTION

For locking the camshaft sprockets e.g. when replacing the toothed belt

Suitable for engines with 1, 2 and 4 camshafts (V engines); also suitable for locking between the camshaft sprocket and diesel injection pump wheel in some diesel engines

DELIVERY SCOPE

Double camshaft locking tool with short and long connecting arm

Single camshaft locking tool with short and long locking screw









BT022030

EAN 4042146775905

1/2" Screwdriver socket set for inside hexagon, 30 pcs.

30 pcs.

1/2"

9x	1/2"			55,0	• 5 • 6 • 7 • 8 • 10 • 12 • 14 • 17 • 19 mm
8x	1/2"			100,0	• 5 • 6 • 7 • 8 • 10 • 11 • 12 • 13 mm
7x	1/2"			140,0	• 5 • 6 • 7 • 8 • 10 • 12 • 14 mm
6x	1/2"			200,0	• 5 • 6 • 7 • 8 • 10 • 12 mm

SUITABLE FOR: Universal

ART.NR	ITEM NAME
BT596002	Universal camshaft wheel puller

DESCRIPTION

For pulling the pulley and camshaft gear

Gripping arms are connected with each other via adjusting disk, thus the gripping arms can be set easily and exactly

Continuous adjustment range of the gripping arms from 42 - 82 mm

Gripping arm depth is 27 mm

DELIVERY SCOPE

3 x gripping arms, Ø 12 mm, M10 x 1.5, suitable for material thickness up to max. 10 mm

6-groove puller body with adjusting disc

Spindle, M14 x 1.5, 19 mm hex, with centring cone



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SUITABLE FOR:



Mercedes-Benz

ART.NR	ITEM NAME
BT593600	Engine adjustment tool set for Mercedes-Benz M276, M157, M278

FOR THE FOLLOWING MODELS

Mercedes-Benz CL 500, 63 AMG (C 216) 2010 - 2013, S 500, 63 AMG (C 217) from 2014 onwards, CLS 300 (C 218) from 2012 onwards, E 300, 350, 400 (C/A 207) from 2011 onwards, CLS 350, 400, 500, 63 AMG (C/X 218) 2011 - 2014, SLK 350 (R 172) from 2011 onwards, SL 350, 400, 500, 63 AMG (R 231) from 2012 onwards, S 500 PLUG-IN HYBRID (V 222) from 2014 onwards, ML 300, 350, 500, 63 AMG (W 166) from 2011 onwards, C 400 (W 205) from 2014 onwards, E 400 HYBRID (W 212) from 2012 onwards, G 63 AMG (W 463) from 2012 onwards, E 300, 350, 400, 500, 63 AMG (W/S 212) from 2011 onwards, C 350 (W/S/C 204) from 2011 onwards, S 350, 500, 63 AMG (W/V 221) from 2010 onwards, S 400, 63 AMG (W/V 222) from 2013 onwards, R 350 BlueEFFICIENCY (W/V 251) from 2012 onwards, GL 450, 500 (X 166) from 2012 onwards, GLK 350 (X 204) from 2011 onwards

DESCRIPTION

For adjusting the camshaft in setting position



SUITABLE FOR:



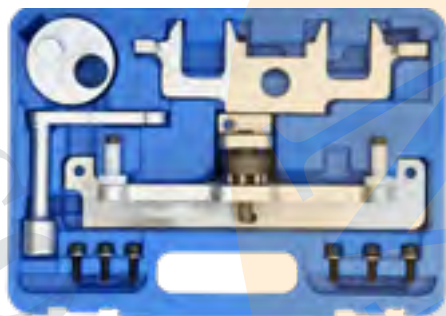
Mercedes-Benz

ART.NR	ITEM NAME
BT593545	Adapter for Art. BT593530

DESCRIPTION

Makes it possible to use the tool on Simplex timing chains

Suitable for the timing chain riveting tool Art. BT593530



SUITABLE FOR:  Mercedes-Benz

ART.NR	ITEM NAME
BT593585	Timing chain assembly tool set for Mercedes-Benz engine 651

FOR THE FOLLOWING MODELS

Mercedes-Benz engine of the OM 651 series

DESCRIPTION

Prevents the timing chain from slipping and the camshaft sprockets from turning when replacing the timing chain

No need to remove the camshaft sprockets

Makes precise positioning possible

DELIVERY SCOPE

Timing chain guide tool, use as OEM 60831800

Camshaft interlock, use as OEM 60831830

Crankshaft lathe tool, use as OEM 60831810

Camshaft spanner, use as OEM 60831820

SUITABLE FOR:  Mercedes-Benz

ART.NR	ITEM NAME
BT596001	Mercedes-Torx® 100 special socket

FOR THE FOLLOWING MODELS

C-Class (W203, W204, W205), CLK, E-Class (W211, W212), E-Class Coupé (W207), SLK (W171, W172), G-Class (W463), Sprinter (W906)

ENGINE CODES

- M133, 157, 176, 177, 270, 271, 271.8, 271.9, 272, 273, 274, 276, 278

DESCRIPTION

For works on the camshaft, control chain, or camshaft adjuster

With borehole

1/2"



SUITABLE FOR:  Mercedes-Benz

ART.NR	ITEM NAME
BT593620	Engine adjustment tool set for Mercedes-Benz OM651

FOR THE FOLLOWING MODELS

Mercedes-Benz A-Class (W176) 180.200, 220 CDI, B-Class (W246) 200, 220 CDI, C-Class (W, S, C) 204 180, 200, 220, 250 CDI, C-Class (W205) 220, 250, CLA (C117) 200, 220 CDI, CLS (C, X 218) 220, 250, E-Class (W, S 212) 200, 220, 250 CDI, E-Class (C, A 207) 220, 250 CDI, E-Class (W212) 250, 300 BlueTEC, GLA (X156) 200, 220 CDI, GLK (X 204) 200, 220, 250 CDI, ML (W166) 250, SLK (R172) 250 CDI, Sprinter (W906) 210, 310, 510, 213, 313 CDI, Sprinter (W906) 513, 216, 316, 416, 516 CDI, V-Class (W, V 447) 200, 220, 250 CDI, Viano (W, V 639) 2.0, 2.2CDI, Vito (W, V 639) 110, 113, 116 CDI

DESCRIPTION

For adjusting and checking the engine timing

DELIVERY SCOPE

Camshaft adjustment tool, use as OEM 65158 901 4000

Crankshaft turning tool, use as OEM 65158 900 4000

SUITABLE FOR:  Mercedes-Benz

ART.NR	ITEM NAME
BT593625	Balance shaft adjustment tool set for Mercedes-Benz OM651

FOR THE FOLLOWING MODELS

Mercedes-Benz A-Class (W176) 180.200, 220 CDI, B-Class (W246) 200, 220 CDI, C-Class (W, S, C) 204 180, 200, 220, 250 CDI, C-Class (W205) 220, 250, CLA (C117) 200, 220 CDI, CLS (C, X 218) 220, 250, E-Class (W, S 212) 200, 220, 250 CDI, E-Class (C, A 207) 220, 250 CDI, E-Class (W212) 250, 300 BlueTEC, GLA (X156) 200, 220 CDI, GLK (X 204) 200, 220, 250 CDI, ML (W166) 250, SLK (R172) 250 CDI, Sprinter (W906) 210, 310, 510, 213, 313 CDI, Sprinter (W906) 513, 216, 316, 416, 516 CDI, V-Class (W, V 447) 200, 220, 250 CDI, Viano (W, V 639) 2.0, 2.2CDI, Vito (W, V 639) 110, 113, 116 CDI

DESCRIPTION

For adjusting the balance shafts

For use with the engine adjustment tool set for Mercedes-Benz OM651 (Art. BT593620)

DELIVERY SCOPE

Balance shaft locking forks

Balance shaft locking rod

Fastening screws

Use as OEM 651 589 02 63 00



SUITABLE FOR:  Mercedes-Benz

ART.NR	ITEM NAME
BT593635	Engine mount ring spanner set for Mercedes-Benz

DESCRIPTION

Ring spanner, 10 mm square drive (3/8"), double-hex drive, SW 16 mm

Ring spanner, 10 mm square drive (3/8"), double-hex drive, SW 17 mm

Especially suited to engine bearings on Mercedes-Benz engines: W220, W210, W203, W221, W211, W204, W124, W140, W170, W126, W201, W202, W210



SUITABLE FOR:  Mercedes-Benz

ART.NR	ITEM NAME
BT593500	Engine adjustment tool set for Mercedes-Benz M270, M274, M133

FOR THE FOLLOWING MODELS

Mercedes-Benz A-Class (series W176) from 2012 onwards, model A180, A200, B-class (model W246) from 2011 onwards, model B180, B200

DESCRIPTION

For adjusting and inspecting the engine control times
Makes it possible to hold down and fix the camshaft

DELIVERY SCOPE

Use as OEM 270589006100

SUITABLE FOR:  Mercedes-Benz

ART.NR	ITEM NAME
BT593550	Engine adjustment tool for Mercedes

FOR THE FOLLOWING MODELS

C63, CLK63, ML63, R63, E63, S63, SL63 M159

ENGINE CODES

M156, M159

DESCRIPTION

For adjusting and checking the engine timing

DELIVERY SCOPE

1x camshaft retainer, use as OEM 156 589 00 61 00
Camshaft sensor position adjuster, OEM 156 589 00 32 00
Adjustment tool for camshaft sprocket, OEM 156 589 01 63 00



SUITABLE FOR:    

ART.NR	ITEM NAME
BT591650	Engine adjustment tool set for BMW diesel engines

FOR THE FOLLOWING MODELS

BMW 1, 3, 5, 6, 7, X3, X 5 (series E34-36-38-39-66-83-90-91-92-93)

Land Rover, Range Rover, Freelander

Rover 75, MG, MG ZT

Vauxhall, Opel Omega-B

ENGINE CODES

M41, M51, M47 M47 TU/T2, M57 TU/T2 2.0/3.0i (1998-2008)

204D3, Td4, Td 6

M47R

DELIVERY SCOPE

Timing chain counter support, use as OEM BMW 113360, Range Rover LRT-12-115

Camshaft alignment tool, use as OEM BMW 116321 (116320), Opel KM6267

Securing bracket alignment tool, use as OEM BMW 116322 (116320)

Injection pump extractor (long), use as OEM BMW 135120

Injection pump extractor, use as OEM BMW 135120, Range Rover LRT-12-119

Injection pump extractor (short), use as OEM BMW 135191, 135192 (135190), Opel KM6270

Threaded ring, use as OEM BMW 135191, 135192 (135190), Opel KM6270

Camshaft securing bridge, use as OEM BMW 113320, Rover LRT-12-112

Crankshaft marking pin, use as OEM BMW 115180

Crankshaft marking pin, use as OEM BMW 116080

Tension roller marking pins, use as OEM BMW 113340, Range Rover LRT-12-114, Opel KM-823

Crankshaft marking pin, use as OEM BMW 112300, Range Rover LRT-12-108





SUITABLE FOR:

ART.NR	ITEM NAME
BT591651	Camshaft locking tool for BMW

DESCRIPTION

Suitable for BMW engines in the M57, M57TU, M57T2N47, M47TU, M47T2 series

Also suitable for structurally identical engines in the Range Rover 2.5 DT, Freelander 2.0 TD4, Omega B Y25DT



SUITABLE FOR:

ART.NR	ITEM NAME
BT594500	Engine adjustment tool set for Land Rover, MG

FOR THE FOLLOWING MODELS

ROVER 45 (1999-2005), 75 (1999-2005), 825 (1996-1999) 2.0 V6 and 2.5 V6
MG ZT (1999-2005), ZT-T (1999-2005), ZS (1999-2005) 2.0 V6 and 2.5 V6
LAND ROVER Freelander (2000-2006) 2.0 V6 and 2.5 V6

DESCRIPTION

For adjusting and checking the engine timing

DELIVERY SCOPE

Camshaft lock, use as OEM LRT12-196 / 18G 1747
Adapter for camshafts, use as OEM LRT12-187
Adapter for camshafts, use as OEM 18G 1747-2
Camshaft wheel lock, use as OEM LRT12-175
Tie rod
Tool for camshaft wheel, use as OEM LRT12-195
Camshaft pin, use as OEM LRT12-198 / 18G 1746A
Camshaft locking pin, use as OEM D189B
Flywheel locking tool, use as OEM LRT12-232 / 18G 1747-5
Crankshaft wheel lock, use as OEM LRT12-175 / 18G 1747-1



SUITABLE FOR:

ART.NR	ITEM NAME
BT591260	Camshaft sprocket locking tool set, universal

FOR THE FOLLOWING MODELS

Can be used universally on vehicles from the following manufacturers: Audi, Alfa Romeo, Chrysler, Citroën, Ford, Honda, Hyundai, Isuzu, Land Rover, Lexus, Mazda, Mitsubishi, Peugeot, Renault, MG, Seat, Škoda, Subaru, Toyota, Opel, Volkswagen, Volvo

DESCRIPTION

For locking the camshaft sprockets e.g. when replacing the toothed belt
Suitable for engines with 1, 2 and 4 camshafts (V engines); also suitable for locking between the camshaft sprocket and diesel injection pump wheel in some diesel engines

DELIVERY SCOPE

Double camshaft locking tool with short and long connecting arm
Single camshaft locking tool with short and long locking screw



SUITABLE FOR:

ART.NR	ITEM NAME
BT596002	Universal camshaft wheel puller

DESCRIPTION

For pulling the pulley and camshaft gear

Gripping arms are connected with each other via adjusting disk, thus the gripping arms can be set easily and exactly
Continuous adjustment range of the gripping arms from 42 - 82 mm
Gripping arm depth is 27 mm

DELIVERY SCOPE

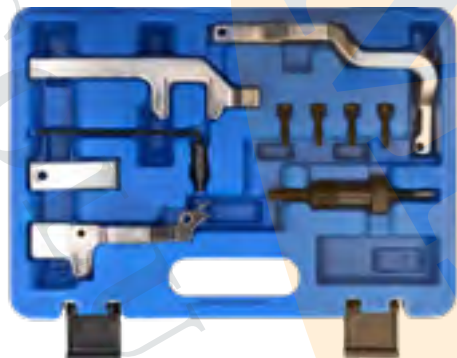
3 x gripping arms, Ø 12 mm, M10 x 1.5, suitable for material thickness up to max. 10 mm
6-groove puller body with adjusting disc
Spindle, M14 x 1.5, 19 mm hex, with centring cone



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MINI



SUITABLE FOR:

ART.NR	ITEM NAME
BT593800	Engine adjustment tool set for MINI, PSA

FOR THE FOLLOWING MODELS

MINI One, Cooper HB, Cooper (R55-56) N12 engine
Citroën C4 (year of construction 2008, 2009), C4 Picasso (year of construction 2008, 2009)

Peugeot 207 (year of construction 2006, 2009), 207CC (year of construction 2007, 2009), 308 (year of construction 2001, 2009)

Engines: 1.4, 1.6 VTi, EP3 (8FS) EP6 (5FW), EP6C 1.6 THP, EP6DT (5FX) EP6DTS (5FY)

DESCRIPTION

Needed when replacing the cylinder head seal and when working on the engine timing

DELIVERY SCOPE

Crankshaft fixer, use as OEM 119590, 0197-BZ
Camshaft fixer, use as OEM 119540, 0197-A1, 0197-A3
Chain tensioner, use as OEM 119340, 0197-M

SUITABLE FOR:

ART.NR	ITEM NAME
BT593750	Engine adjustment tool set for MINI

FOR THE FOLLOWING MODELS

Suitable for the following models: MINI One, Cooper, Cooper S, Cooper S JC Cooper S JCW (series R50, 52, 53, 55, 56, 57)

ENGINE CODES

For engine codes W10, W11, N14

DESCRIPTION

For working on intake and exhaust camshafts

DELIVERY SCOPE

Fixing of camshafts, use as OEM 119551 and 119552
Fixing of crankshaft, use as OEM 119590
Tools for chain tensioner, use as OEM 119340

SUITABLE FOR:

ART.NR	ITEM NAME
BT591580	Engine adjustment tool set for BMW, MINI, PSA

FOR THE FOLLOWING MODELS

BMW 1.6 (N40, N45, N45T, B16, B16A, B16AC) 1.8, 2.0 (N42, N46, N46T) 2.0, 3.0 (N51, N52, N52K, N53, N54)

PSA 1.4, 1.6 16V (EP3, EP6, EP6DT, EP6DTS)

MINI 1.4, 1.6 (N12, N14)

DESCRIPTION

For aligning new and old versions of balance shafts

Prevents non-concentric engine running due to incorrectly aligned balance shafts

Needed when changing the timing chain, replacing the crankshaft sealing ring, replacing the cylinder head seal etc.
Use as OEM 115140, 119280, 119330

DELIVERY SCOPE

Balance shaft fixing tool (old and new version)
Crankshaft counter support
Locking pin for chain tensioner





SUITABLE FOR:

ART.NR	ITEM NAME
BT593770	Crankshaft pulley tool set for MINI Cooper engines W11

DESCRIPTION

Makes it possible to safely install and remove the crankshaft pulley (vibration damper) on 1.6L MINI Cooper and MINI Cooper S engines (type W11)

Slots in the pull-off wheel make it possible to remove both types of W11 pulleys

Contains a pressure pin that prevents damage to the crankshaft nose

Use as OEM 118450, 118441, 118270

DELIVERY SCOPE

Pull-off wheel
Assembly pressure piece
Pressure pin
Pull-off spindle
Assembly spindle
6 fastening screws



SUITABLE FOR:

ART.NR	ITEM NAME
BT593750	Engine adjustment tool set for MINI

FOR THE FOLLOWING MODELS

Suitable for the following models: MINI One, Cooper, Cooper S, Cooper S JC Cooper S JCW (series R50, 52, 53, 55, 56, 57)

ENGINE CODES

For engine codes W10, W11, N14

DESCRIPTION

For working on intake and exhaust camshafts

DELIVERY SCOPE

Fixing of camshafts, use as OEM 119551 and 119552
Fixing of crankshaft, use as OEM 119590
Tools for chain tensioner, use as OEM 119340



SUITABLE FOR:



ART.NR	ITEM NAME
BT591870	Engine adjustment tool set for MINI, Citroën, Peugeot 1.6L diesel

FOR THE FOLLOWING MODELS

BMW MINI, MINI Clubman, series R55, R56, R57
Citroën C2, C3, C4, C5, Grand Picasso, Berlingo (MK3), Xsara Picasso
Peugeot 206, 206cc, 207, 207cc, 1007, 307, 308, 308cc, 3008, 5008, Partner (MK3)

ENGINE CODES

Engine codes: BMW: W16D16 (9HZ), W16D16UO, PSA: 9HZ, 9HX, 9HY (DV6TED4)

DESCRIPTION

For adjusting and checking the engine timing
Suitable for the following models with a 1.6L diesel engine

DELIVERY SCOPE

Crankshaft marking pin, use as OEM PSA 0194A, BMW 119790
Marking pins for camshaft and high-pressure pump, use as OEM PSA 0194B, BMW 110300
Flywheel interlock, use as OEM PSA 0194C, BMW 119850, 119851, 119852



SUITABLE FOR:



ART.NR	ITEM NAME
BT591260	Camshaft sprocket locking tool set, universal

FOR THE FOLLOWING MODELS

Can be used universally on vehicles from the following manufacturers: Audi, Alfa Romeo, Chrysler, Citroën, Ford, Honda, Hyundai, Isuzu, Land Rover, Lexus, Mazda, Mitsubishi, Peugeot, Renault, MG, Seat, Škoda, Subaru, Toyota, Opel, Volkswagen, Volvo

DESCRIPTION

For locking the camshaft sprockets e.g. when replacing the toothed belt

Suitable for engines with 1, 2 and 4 camshafts (V engines); also suitable for locking between the camshaft sprocket and diesel injection pump wheel in some diesel engines

DELIVERY SCOPE

Double camshaft locking tool with short and long connecting arm
Single camshaft locking tool with short and long locking screw

SUITABLE FOR:

Universal

ART.NR	ITEM NAME
BT596002	Universal camshaft wheel puller

DESCRIPTION

For pulling the pulley and camshaft gear
Gripping arms are connected with each other via adjusting disk, thus the gripping arms can be set easily and exactly
Continuous adjustment range of the gripping arms from 42 - 82 mm
Gripping arm depth is 27 mm

DELIVERY SCOPE

3 x gripping arms, Ø 12 mm, M10 x 1.5, suitable for material thickness up to max. 10 mm
6-groove puller body with adjusting disc
Spindle, M14 x 1.5, 19 mm hex, with centring cone



WORK
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BT160100 • EAN 4042146844403
1/2" Pneumatic impact wrench, 1.450 NM

TECHNICAL SPECIFICATIONS:

Square drive	1/2"
Max. Clockwise torque	1 = 490 Nm 2 = 660 Nm 3 = 870 Nm
Idle speed	8500 rpm
Vibration	17,5 m/s ²
Sound power level	150,0
Sound pressure level	89,9 dbA
Recommended torque	530 Nm
Air consumption	169 l/min
Operating pressure	max. 6,3 bar

1.450 NM

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SUITABLE FOR:



PEUGEOT

ART.NR	ITEM NAME
BT592320	Balance shaft adjustment tool set for Land Rover, Citroën, Mitsubishi, Peugeot, Ford 2.2 DOHC diesel engines

FOR THE FOLLOWING MODELS

Land Rover Discovery, Discovery Sport, Freelander 2, eD4, TD4, TD4e (2009-2015) engine codes: 224DT, DW12CTED4/224DT, DW12BTED4/224DT

Citroën C5, C5 II, C5 III, C6, C8, C-Crosser HDi (200-2015) engine codes: 4HX (DW12CTED4), 4HP (DW12BTED4), 4HX (DW12TED4), 4HW (DW12TED4/L4)

Mitsubishi Outlander DI-D, DI-DC (2007-2013) engine codes: 4HK, 4HN

Peugeot 4007, 407, 607, 807, 406, 508, 607, HDi, GT HDi (2000-2015) engine codes: DW12MTED4 (4HK), DW12MTED4 (4HN), DW12BTED4 (4HP), DW12BTED4 (4HR), DW12BTED4 (4HT), DW12TED4/L4 (4HW), DW12BTED4 (4HS), DW12ATED (4HZ), DW12ATED4 (4HX), DW12ATED (4HZ), DW12CTED4 (4HL)

Ford Galaxy, Mondeo, S-Max, TDCI, TCI (2008-2015) engine codes: KNBB, KNBA, KNWA, Q4BA

DESCRIPTION

For adjusting the balance shaft

DELIVERY SCOPE

Balance shaft fixing tool, use as OEM 303-1329

Balancing tool, use as OEM 303-1330

Balance shaft adjustment tool, use as OEM 303-1328, 0190D

NISSAN



SUITABLE FOR:



SUITABLE FOR:



ART.NR	ITEM NAME
BT594550	Engine adjustment tool set for Renault, Opel, Nissan

FOR THE FOLLOWING MODELS

Renault Avantime (2005, 2007), Clio (2001, 2008), Espace (2000, 2008), Kangoo (2000, 2008), Laguna (1999, 2001), Laguna II (2004, 2007), Master (2000, 2006), Megane (1999, 2008), Modus (2004, 2008), Scenic (1999, 2008), Traffic (2001, 2008), Twingo (2007, 2008)

Nissan Almera N16 (2002, 2006), Interstar (2002, 2006), Kubistar (2003, 2008), Micra K12 (2003, 2008), Note (2006, 2008), Primastar (2002, 2007), Primera P12 (2003, 2007), Qashqai (2008, 2009)

Opel Movano (2000, 2008), Vivaro (2001, 2008)

ENGINE CODES

Engine codes: 1.5 (K9K), 1.9 (F9Q), 2.2 (G9T), 2.5 (G9U)

DESCRIPTION

For positioning and locking the crankshaft and camshaft when repairing the toothed belt or engine

DELIVERY SCOPE

Intake camshaft interlock OEM KM6205 (MOT1534)

Discharge camshaft interlock, use as OEM KM6204 (MOT1537)

Injection pump interlock, use as OEM MOT1538

Tensioning tool set (5 pcs), use as OEM MOT1543

Locking pin, use as OEM MOT1430

Crankshaft locking pin, use as OEM MOT1536

ART.NR	ITEM NAME
BT597940	Engine adjustment tool set for Peugeot, Citroën, PSA

FOR THE FOLLOWING MODELS

Citroën AX, Berlingo, BX, C5, C15, C25, Dispatch, Evasion, Jumper, Jumpy, Relay, Saxo, Synergie, Visa, Xsara, Xantia, XM, XJR, ZX, etc.

Peugeot 106, 205, 306, 405, 406, 605, 806, J5, Boxer, Expert, Partner, Solara, Talbot Express, Talbot Horizon, etc.

PSA petrol engines 1.9, 1.1, 1.4, 1.6, 1.8, 1.9, 2.0, 1.6, 1.8, 2.0, 2.2 16V (turbo and dual camshafts)

PSA diesel engines 1.4, 1.5, 1.7, 1.8, 1.9, 2.1, 2.5 D, TD, TDI, 1.4, 1.6, 2.0, 2.2 HDI

Suitable for structurally identical engines in Fiat, Ford, Nissan, Renault, Rover, Toyota, etc.

DESCRIPTION

For checking and adjusting the engine timing

DELIVERY SCOPE

Flywheel adjustment pin with spring, use as OEM 0188X, 0189X

Tensioning spanner, 8 mm, use as OEM 7017-TW

Flywheel fixing mandrel, 7 mm, use as OEM 7017-TR

Angled adjustment pin, 8 mm, use as OEM 0188D, 7004TG, 9767-34, 0153G, 7014-TJ, 1 860 863 000, 0153N

Clamping tool, use as OEM 4507-TJ, 9767.89, 0188Q1, 0132X1Z, 0132X

Camshaft marking mandrel, use as OEM 0189A, 1 871 008 100

Hdi tension roller lever, use as OEM 0188J2

Tension roller lever, use as OEM 5711-TE, 0178E, 0188J/J1

Flywheel disc extractor, use as OEM 0174.0188P, 018892, 7015-T

Toothed belt retaining clamp, use as OEM 0189K, MOT1436, 4533-TAX, 0188K, 0187J, 0132AK, 0153AK, 1 870 00 100

Flywheel retainer, use as OEM 0195K, 4507-TL

Clamping tool, use as OEM 0189S1

Flywheel retainer, use as OEM 1867030000, 0153A, 9765.54, 6012T, 1860161000

Tension lever, use as OEM 0189S2

Angled locking pin, 5 mm

Flywheel fixing mandrel (for automatic transmission), use as OEM 0189R

Camshaft marking mandrel, use as OEM 0189AZ

Crankshaft retainer, use as OEM 0288D, 0188Y, 7014

Flywheel fixing mandrel (manual transmission), use as OEM 0189C

Flywheel interlock, use as OEM 0188F, 0134Q, 1870765001.1870827000, 0134AF, 9044-T, 1871000400

Camshaft marking mandrel (CA1), use as OEM 4533-TAC1, 0132AJ1

Camshaft and crankshaft retainer, use as OEM 0188M, 0187B, 0194B, 303-1277, MOT1430, 0189B, 303-735, 49JE01061, 21-263

Camshaft marking mandrel (CA2), use as OEM 0132AJ2, 2000023000, 0188M, 4533-TAC2

Marking mandrel for injection pump, use as OEM 4527-TS1

Injection pump fixing mandrel, use as OEM 0188H, 1 860 965 000

Flywheel fixing mandrel, use as OEM 49JE02020, 0194C, 21-262, 999-7121, 999-7169, 303-734

2 camshaft and crankshaft marking mandrels, use as OEM 4507-TB, 7014-TN, 0132-R, 0153-AB, 0158-G

2 camshaft and crankshaft interlocks, use as OEM KM-955, 7014-TM

2 camshaft marking mandrels, use as OEM 9041-TZ, 5711-TC

2 crankshaft fixing mandrels, use as OEM 5711-TD, 119790, 0194A, 1860617000, 303-732, 07744-00104-00, 49JE02018, 0178D, 9997169, 4527-TS2, 21-260, 999-7169, 0132AB

Camshaft fixing mandrel, use as OEM 0189L

Screw M8 x 80 mm

Pin for clamping device, 3 mm, use as OEM 0153AL, 4200TA

Centring clip for crankshaft pulley, use as OEM 0188AH

Crankshaft marking mandrel, 6 mm, use as OEM 4507-TA, 0132Z, 0132QZ

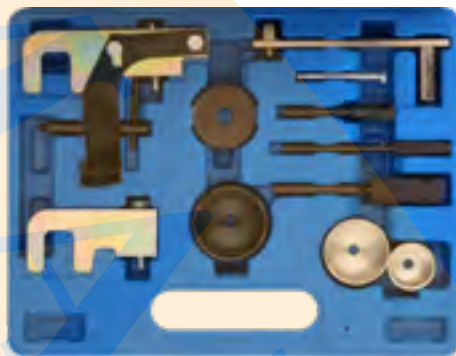
OPEL



ART.NR	ITEM NAME
BT595700	Camshaft locking tool set for VAG, Ford, Opel, Saab

DESCRIPTION
Universal set for a wide range of models

DELIVERY SCOPE
Camshaft interlock for Opel Calibra, Omega, Sintra, Vectra -1.8, 2.0, use as OEM KM-852, 18G1570
Camshaft interlock for Opel Calibra, Omega, Sintra, Vectra -1.4, 1.6, use as OEM KM-853
Right camshaft with Saab 900, 900 -2.5, 3.0, Opel Calibra, Sintra, Vectra -2.5, 3.0, use as OEM KM-800-2
Left camshaft with Saab 900.900 -2.5, 3.0, Opel Calibra, Sintra, Vectra -2.5, 3.0, use as OEM KM-800-1
Crankshaft toothed belt pulley interlock tool for TDI pump-injection engines with VW, Audi, Skoda, Seat and Ford, use as VAG T10050
Flywheel interlock tools for Citroën, Fiat and Peugeot, use as OEM 153A, 6012T, 9765.54
Flywheel holder unit for Isuzu 1.5 and 1.7 diesel, Opel 1.6, 1.7 diesel engines, Opel 1.2, 1.4, 1.6, 1.8, 2.0 OHC petrol engines, use as OEM KM-517-B



ART.NR	ITEM NAME
BT594550	Engine adjustment tool set for Renault, Opel, Nissan

FOR THE FOLLOWING MODELS

Renault Avantage (2005, 2007), Clio (2001, 2008), Espace (2000, 2008), Kangoo (2000, 2008), Laguna (1999, 2001), Laguna II (2004, 2007), Master (2000, 2006), Megane (1999, 2008), Modus (2004, 2008), Scenic (1999, 2008), Traffic (2001, 2008), Twingo (2007, 2008)

Nissan Almera N16 (2002, 2006), Interstar (2002, 2006), Kubistar (2003, 2008), Micra K12 (2003, 2008), Note (2006, 2008), Primastar (2002, 2007), Primera P12 (2003, 2007), Qashqai (2008, 2009)

Opel Movano (2000, 2008), Vivaro (2001, 2008)

ENGINE CODES
Engine codes: 1.5 (K9K), 1.9 (F9Q), 2.2 (G9T), 2.5 (G9U)

DESCRIPTION
For positioning and locking the crankshaft and camshaft when repairing the toothed belt or engine

DELIVERY SCOPE
Intake camshaft interlock OEM KM6205 (MOT1534)
Discharge camshaft interlock, use as OEM KM6204 (MOT1537)
Injection pump interlock, use as OEM MOT1538
Tensioning tool set (5 pcs), use as OEM MOT1543
Locking pin, use as OEM MOT1430
Crankshaft locking pin, use as OEM MOT1536



ART.NR	ITEM NAME
BT594250	Engine adjustment tool set for Opel, GM 2.0, 2.2 Ecotec diesel

FOR THE FOLLOWING MODELS

Opel Vectra 2.0 Turbo diesel, Sintra 2.2 Turbo diesel, Zafira 2.0 Turbo diesel, Frontera 2.2 Turbo diesel

Saab 9-3 2.2 Turbo diesel

ENGINE CODES
Engine codes: X20DTL, X20DTH, X22DTH, Y22DTR

DESCRIPTION
Makes it possible to adjust the engine timing

DELIVERY SCOPE
Adjustment spanner with holder, use as OEM Opel KM933, Saab 8395394
Injection pump adjustment pin, use as OEM Opel KM927, Saab 8395337
Crankshaft adjustment pin, use as OEM Opel KM929, Saab 8395352
Camshaft adjustment tool, use as OEM Opel KM932, Saab 8395386



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ART.NR	ITEM NAME
BT591650	Engine adjustment tool set for BMW diesel engines

FOR THE FOLLOWING MODELS

BMW 1, 3, 5, 6, 7, X3, X 5 (series E34-36-38-39-66-83-90-91-92-93)
Land Rover, Range Rover, Freelander
Rover 75, MG, MG ZT
Vauxhall, Opel Omega-B

ENGINE CODES

M41, M51, M47 M47 TU/T2, M57 TU/T2 2.0/3.0i (1998-2008)
204D3, Td4, Td 6
M47R

DELIVERY SCOPE

Timing chain counter support, use as OEM BMW 113360, Range Rover LRT-12-115
Camshaft alignment tool, use as OEM BMW 116321 (116320), Opel KM6267
Securing bracket alignment tool, use as OEM BMW 116322 (116320)
Injection pump extractor (long), use as OEM BMW 135120
Injection pump extractor, use as OEM BMW 135120, Range Rover LRT-12-119
Injection pump extractor (short), use as OEM BMW 135191, 135192 (135190), Opel KM6270
Threaded ring, use as OEM BMW 135191, 135192 (135190), Opel KM6270
Camshaft securing bridge, use as OEM BMW 113320, Rover LRT-12-112
Crankshaft marking pin, use as OEM BMW 115180
Crankshaft marking pin, use as OEM BMW 116080
Tension roller marking pins, use as OEM BMW 113340, Range Rover LRT-12-114, Opel KM-823
Crankshaft marking pin, use as OEM BMW 112300, Range Rover LRT-12-108



ART.NR	ITEM NAME
BT591651	Camshaft locking tool for BMW

DESCRIPTION

Suitable for BMW engines in the M57, M57TU, M57T2N47, M47TU, M47T2 series
Also suitable for structurally identical engines in the Range Rover 2.5 DT, Freelander 2.0 TD4, Omega B Y25DT



ART.NR	ITEM NAME
BT594450	Engine adjustment tool set for Fiat, Opel, Alfa 1.9, 2.4 16V Diesel

FOR THE FOLLOWING MODELS

Opel 1.9 CDTi Z19DT, Z19DTH, Z19DTJ
Alfa-Romeo 1.9 and 2.4 L diesel with engine code: 323.02, 371.01, 342.02, 325.01, 362.02, 182B9.000, 937A2.000, 937A3.000, 192A5.000, 192B1.000, 937A4.000, 937A5.000, 939A2.000, 939A1.000, 939A7.000, 939A8.000, 839A6.000, 841C.000
Fiat 1.9 and 2.4 L diesel with engine code: 182B4.000, 182B9.000, 185A6.000, 186A6.000, 186A8.000, 186A9.000, 188A2.000, 188A7.000, 188B2.000, 192A1.000, 192A3.000, 192A5.000, 192A8.000, 192A9.000, 192B4.000, 192B5.000, 198A2.000, 198A3.000, 198A6.000, 199A5.000, 223A7.000, 937A5.000, 939A1.000, 939A2.000, 939A3.000, 939A7.000

DESCRIPTION

For adjusting the engine timing e.g. when replacing the toothed belt, repairing the cylinder head, etc.

DELIVERY SCOPE

Crankshaft interlock, use as OEM Opel EN-46788, Fiat 1.860.905.000, 1.860.905.010
Flywheel interlock, use as OEM Fiat 1.860.898.000
Camshaft interlock, use as OEM Opel EN-46789, Fiat 1.870.896.900
Marking mandrel Ø 3.7mm x 70mm, use as OEM Opel KM 6130, KM 6349



ART.NR	ITEM NAME
BT592540	Engine adjustment tool set for Fiat, Ford, Opel, Suzuki 1.3 diesel

FOR THE FOLLOWING MODELS

Fiat Punto 1.3 JTD Multi-Jet 188A9.000, 2003 - 2007, Panda 1.3 JTD Multi-Jet 169A1.000, 188A8.000, 2003 - 2009, Idea 1.3 JTD Multi-Jet 199A3.000, 188A9.000, 2004 - 2006, Doblo 1.3 JTD Multi-Jet 188A9.000, 2004 - 2006, Doblo Cargo 1.3 JTD 188A9.000, 2004 - 2006
Opel/Vauxhall Agila 1.3 CDTi Z13DT, 2003 - 2008, Corsa-C 1.3 CDTi Z13DT, 2003 - 2007, Combo-C 1.3 CDTi Z13DT, 2003 - 2009, Corsa-D 1.3 CDTi Z13DTH, Z13DTJ, 2006 - 2009, Astra-H 1.3 CDTi Z13DTH, 2004 - 2009, Tigra-B 1.3 CDTi Z13DT, 2004 - 2009, Meriva 1.3 CDTi Z13DT, Z13DTJ, 2004 - 2009
Suzuki: Ingis 1.3 CDTi Z13DT, 2003 - 2009, Wagon R 1.3 CDTi Z13DT, 2003 - 2009, Swift 1.3 CDTi Z13DT, 2003 - 2010
Ford Ka 1.3 TDCi

DESCRIPTION

For checking and adjusting the engine timing

DELIVERY SCOPE

Counter-support spanner for crankshaft pulley, use as Fiat OEM 1871000200 - Ford OEM 303-1469 - Opel/Vauxhall OEM KM-662-C
Crankshaft adjustment tool, use as Opel/Vauxhall OEM EN 46785, OEM KM 955 - Suzuki 09912-38300
Camshaft adjustment tool, use as Fiat OEM 1871000900, 1860985000 - Ford OEM 303-1472 - Opel/Vauxhall OEM EN 46781 - Suzuki OEM 09917-68610
Chain tension lever, use as Fiat OEM 1870900400
Crankshaft interlock tool, use as Fiat OEM 1870900300 - Ford OEM 303-1468
Crankshaft adjustment tool, Fiat 8 mm

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ART.NR	ITEM NAME
BT591300	Engine adjustment tool set for Opel 1.6, 1.8

DESCRIPTION

Contains tools for locking the camshaft and crankshaft

Suitable for 1.6 and 1.8 L engines with toothed belt control, installed in models from Opel, Vauxhall, Chevrolet, Fiat, Alfa Romeo (2003-2012), e.g. Astra G, H, Corsa D, Insignia, Meriva, Signum, Vectra C, Zafira B (2003-2011)

Suitable for Chevrolet Cruze, Orlando 1.4 1.6 1.8 and Fiat Croma, Alfa Romeo 159 with 939A4.000 engines

Use as OEM tools KM-6628-A, 2000012000, KM-6340, 2000012100, KM-6333, KM-6625, 2000012800, KM-6349, KM 6130, KM-911



ART.NR	ITEM NAME
BT594650	Engine adjustment tool set for Renault

FOR THE FOLLOWING MODELS

Renault petrol engines 1.4, 1.6, 1.8, 2.0 l, each with 16V technology

Renault petrol engines 2.5 l, 20V with dual camshafts

Renault petrol engines 1.2, 1.4, 1.6, 1.7, 1.8, 2.0, 2.2 l

Renault diesel engines 1.9, 2.5, 2.8 l

Also for Opel Arena, Movano and Volvo V40, S40

DESCRIPTION

Locking the flywheel

Locking the crankshaft, injection pump shaft

Removing the crankshaft pulley

Tensioning the toothed belt

Adjustment gauge for positioning the camshaft and pump shaft in relation to the crankshaft

Use as OEM tools MOT1348, MOT1312, MOT1135 -01, MOT1384, MOT1337, MOT1496, MOT910-1, MOT910, MOT861, MOT863, MOT1054, MOT1318, MOT1489, MOT1340, MOT1386, MOT1490, MOT1490-1, KM6031



ART.NR	ITEM NAME
BT594350	Engine adjustment tool for Opel

FOR THE FOLLOWING MODELS

Opel Agila, Astra, Corsa, Frontera, Meriva, Omega, Signum, Sintra, Speedster, Tigra, Vectra, Zafira

ENGINE CODES

X10XE, X12XE, Z10XE, Z12XE, Z10XEP, Z12XEP, Z14XEP, X14XE, X16XEL, X16SEJ, X18E1, X18XE1, Y16XE, Z14XE, Z16XE, Z18XE, 18XEL, X18XE, C20SEL, X20XEV, Z20LET, X22XE, Y22XE, Z22XE, Z13DT, X20DTL, X20DTH, Y20DTL, Y20DTH, X22DTH, Y22DTH, Y22DTR, Z19DT, Z19DTH

DESCRIPTION

For adjusting and checking the engine timing



ART.NR	ITEM NAME
BT594651	Camshaft tool for Renault



ART.NR	ITEM NAME
BT594653	Flywheel fixing pin for Renault



ART.NR	ITEM NAME
BT593850	Engine adjustment tool set for Opel 1.0, 1.2, 1.4

FOR THE FOLLOWING MODELS

Opel 1.0, 1.2, 1.4 (1997, 2007), Agila (Z10XE, Z12XE, Z10XEP, Z12XEP), Corsa B (X10XE, X12XE), Astra G, H (X12XE, Z14XEL, Z14XEP), Corsa Combo C (X10XEP, X12XEP, Z14XEP), Meriva (Z14XEP), Tigra B (Z14XEP), Agila, Corsa 1.0 12V, 1.2 16V

DESCRIPTION

For replacing the timing chain and other work on the valve train, work on the intake and exhaust camshaft

DELIVERY SCOPE

Camshaft rule

Crankshaft arresting pin

Adjustment gauge for pulse generator disc

Locking mandrel for timing chain tensioner

Use as OEM KM953, KM952, KM954, KM955



SUITABLE FOR:

ART.NR	ITEM NAME	
BT594300	Engine adjustment tool set for Opel, Chevrolet 2.0 CDI	

DESCRIPTION

For replacing the toothed belt and checking the timing
Holds the camshaft and crankshaft in the correct position
Suitable for 2.0 L common rail diesel engines with engine code Z20DM, Z20DMH, LLWZ20DMH, RA420, Z20SI, Z20S3, Z20S4, Z20S5

DELIVERY SCOPE

Camshaft interlock, use as OEM EN-48245
Crankshaft interlock, use as OEM EN-48246



SUITABLE FOR:

ART.NR	ITEM NAME	
BT595702	Camshaft locking tool for Opel Astra, Corsa, Vectra	

FOR THE FOLLOWING MODELS

Opel Tigua, Corsa, Astra, Vectra, Signum with 1.4L, 1.6L, 1.8L engines

ENGINE CODES

Engine codes: Z14XE, X16XE, X16XEL, Z16XE, Z18XE

DESCRIPTION

For arresting the cam shafts

DELIVERY SCOPE

Use as OEM KM-852



SUITABLE FOR:

ART.NR	ITEM NAME	
BT594200	Engine timing tool kit for Opel Ecotec V6	

FOR THE FOLLOWING MODELS

Opel Calibra 2.5 V6 (1993, 1998), Cavalier 2.5, 2.6 V6 (1993, 1995), Omega B 2.5/2.6 V6 (1994, 2003), Omega B 3.0/3.2 V6 (1994, 2003), Signum 3.2 V6 (2003, 2005), Sintra 3.0 V6 (1996, 1999), Vectra A, B, C 2.5, 2.6, 3.2 V6 (1993, 2005)

DESCRIPTION

Engine adjustment tool set for V6 engines with multi-valve technology in Opel Ecotec
All the tools needed for locking the crankshaft and camshaft

DELIVERY SCOPE

Crankshaft interlock, use as OEM KM-800-10
Camshaft adjustment gauge, use as OEM KM-800-20
Attachment, use as OEM KM 800-30
Right camshaft interlock, use as OEM KM-800-1
Left camshaft interlock, use as OEM KM-800-2
Socket spanner insert E profile, square socket drive 12.5 mm (1/2"), SW E20, for deflection pulley
Ring spanner, angled, SW 30 mm



SUITABLE FOR:

ART.NR	ITEM NAME	
BT595703	Camshaft locking tool for Opel 1.6, 1.8	

DESCRIPTION

Contains important tools for inspecting and adjusting the engine timing
Suitable for Opel Astra G/H, Corsa D, Insignia, Meriva, Signum, Tigra, Vectra C, Zafira B (2003-2012) with engine codes A16LET, A16XER, Z16LEL, Z16LER, Z16LET, Z16XE, Z16XE1, Z16XEP, Z16XER, Z18XER, A18XER
Also suitable for Alfa Romeo 159, Fiat Croma with engine code 939A4.000

DELIVERY SCOPE

Camshaft interlock, use as OEM KM-6340, EN-6340, 2000012100
Tensioning element interlock, use as OEM KM-6333, EN-6333



SUITABLE FOR:

ART.NR	ITEM NAME	
BT593920	Engine adjustment tool set for Opel, Vauxhall 1.6 SIDI	

FOR THE FOLLOWING MODELS

Opel Cascada, Astra J, Zafira C, Insignia (2013-2016) with SIDI, SIDI Turbo, SIDI Turbo EcoFLEX engines

ENGINE CODES

Engine codes: LVP/A16XHT, LWC/A16SHT, LVP/B16XHT, LWC/B16SHT, LWC/A16SHL

DESCRIPTION

For checking and adjusting the engine timing when replacing the timing chain

DELIVERY SCOPE

Camshaft alignment tool, use as OEM EN-51148
Crankshaft pulley holding tool, use as OEM EN-51147
Balance shaft holding tool, use as OEM EN-51153
Chain tensioner locking pins, use as OEM EN-50513



SUITABLE FOR:

ART.NR	ITEM NAME	
BT593930	Camshaft adjustment tool set for Opel, Vauxhall 2.0 CDTi	

FOR THE FOLLOWING MODELS

Opel Cascada 2.0 CDTi (2015-2017), Insignia 2.0 CDTi (2014-2017), Insignia 2.0 CDTi (2014-2017), Zafira-C Tourer 2.0 CDTi (2014-2017)

ENGINE CODES

Engine code: LFS/B20DTH

DESCRIPTION

For removing, replacing the timing chain in the cylinder head
Suitable for 2.0 CDTi, EcoFLEX engines (from 2014 onwards)

DELIVERY SCOPE

Camshaft adjustment tool, use as OEM EN-51415
Chain tensioner locking pin, use as OEM EN-51418



ART.NR	ITEM NAME
BT593940	Engine adjustment tool set for Opel, Vauxhall 1.6 CDTi ecoFLEX

FOR THE FOLLOWING MODELS

Opel Astra J, Astra K, Mervia B, Mokka, Zafira C Tourer

ENGINE CODES

Engine codes: LVL, B16DTN, LVM, B16DTC, LWQ, B16DTE, LVL, B16, LVL, B16DTJ

DESCRIPTION

For adjusting and checking the engine timing when changing the cylinder head seal, replacing the timing chain etc.

DELIVERY SCOPE

Belt tensioner locking pin, use as OEM EN-6349, EN-6130
Camshaft adjustment pin, use as OEM EN-51143
Crankshaft alignment tool (including screws), use as OEM EN-51140
Tensioning element locking pin, use as OEM EN-50513
Camshaft sprocket holding tool (including screws), use as OEM EN-51188



ART.NR	ITEM NAME
BT593970	Engine adjustment tool set for GM, Opel, Vauxhall, Saab 2.0 Turbo

FOR THE FOLLOWING MODELS

Opel Signum Turbo, Vectra-C Turbo (2002-2008), Saab 9-3 1.8 Turbo (2002-2011), Saab 9-3 1.8 Turbo BioPower (2002-2011), Saab 9-3 2.0 Turbo (2002-2012), Saab 9-3 2.0 Turbo BioPower (2010-2012), Saab 9-3XT (2009-2011)

ENGINE CODES

Engine codes: Z20NET, B207, B207L, B207, B207L, B207, B207L, B207, B207L, B207, B207L

DESCRIPTION

For adjusting and checking the engine timing

DELIVERY SCOPE

Crankshaft pulley holding tool, use as OEM KMJ38122-A, 8396210
Intake camshaft alignment tool, use as OEM KM6362-1, EN-48366-001
Discharge camshaft alignment tool, use as OEM KM6362-2, EN-48366-002
Chain tensioner locking pin, use as OEM KM6077, 8396392



ART.NR	ITEM NAME
BT593815	Engine adjustment tool set for Opel, Saab, Buick, Cadillac, Chevrolet 2.8, 3.6 V6

FOR THE FOLLOWING MODELS

Buick Enclave 3.6, engine code: LY7
Cadillac SRX, STS, CTS 3.6, engine code: LY7, LLT
Chevrolet Camaro 2.8, engine code: LTT, LFX
Opel Insignia 2.8 V6 Turbo, engine code: LAU/A28NER
Opel Antara 3.2 V6 (from 2007 onwards), engine code: Z32SE
Saab 9-5 2.8 (2009-2013), engine code: LAU/A28NER

DESCRIPTION

For adjusting and checking the engine timing

DELIVERY SCOPE

Camshaft adjustment tools, use as OEM EN-48383-1, EN-48383-2, EN-48383-3
Flywheel locking tools, use as OEM EN-46106
Crankshaft turning tool, use as OEM EN-46111

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BT023172
EAN 4042146777688
Socket set, 172 pcs.



ART.NR	ITEM NAME
BT596002	Universal camshaft wheel puller

DESCRIPTION

For pulling the pulley and camshaft gear
Gripping arms are connected with each other via adjusting disk, thus the gripping arms can be set easily and exactly
Continuous adjustment range of the gripping arms from 42 - 82 mm
Gripping arm depth is 27 mm

DELIVERY SCOPE

3 x gripping arms, Ø 12 mm, M10 x 1.5, suitable for material thickness up to max. 10 mm
6-groove puller body with adjusting disc
Spindle, M14 x 1.5, 19 mm hex, with centring cone





ART.NR	ITEM NAME
BT591260	Camshaft sprocket locking tool set, universal

FOR THE FOLLOWING MODELS

can be used universally on vehicles from the following manufacturers: Audi, Alfa Romeo, Chrysler, Citroën, Ford, Honda, Hyundai, Isuzu, Land Rover, Lexus, Mazda, Mitsubishi, Peugeot, Renault, MG, Seat, Skoda, Subaru, Toyota, Opel, Volkswagen, Volvo

DESCRIPTION

For locking the camshaft sprockets e.g. when replacing the toothed belt

Suitable for engines with 1, 2 and 4 camshafts (V engines); also suitable for locking between the camshaft sprocket and diesel injection pump wheel in some diesel engines

DELIVERY SCOPE

Double camshaft locking tool with short and long connecting arm

Single camshaft locking tool with short and long locking screw



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ART.NR	ITEM NAME
BT593870	Engine adjustment tool set for Opel, Saab, Chevrolet 2.0, 2.4

FOR THE FOLLOWING MODELS

Opel Astra, Insignia, Antara
Chevrolet Captiva, HHR, Malibu
Saab 9-5
With engines: OPC, OPC/VXR, Turbo, E85, Turbo T-B

ENGINE CODES

2.0L > LHU, A20NFT, LTG, A20NHT, LDK, A20NHT
2.4L > A24XE, A24XF, LE5, LE9

DESCRIPTION

For adjusting the engine timing when replacing the timing chain etc.

Suitable for 2.0 L and 2.4 L petrol turbo engines with dual camshafts

DELIVERY SCOPE

Crankshaft wheel alignment tool, use as OEM EN-48585
Flywheel locking tool, use as OEM EN-43653, J43653
Tensioning element locking pin, 2.5 mm, use as OEM EN-955-10, KM 955
Tensioning element locking pin, 4.0 mm, use as OEM EN-955-20, KM 955-20
Tensioning tappet resetting tool, use as EN-45027-1, J-45027-1
Tensioning tappet holder, use as OEM J45027-2, EN45027-2, EN-45027
Camshaft interlock (left-hand side), use as OEM EN-49212, EN-49212-1
Camshaft interlock (right-hand side), use as OEM EN-49212, EN-49212-2
Camshaft adjuster holding tool, use as OEM EN-48953

PEUGEOT



ART.NR	ITEM NAME
BT592880	Engine adjustment tool set for Rover, Peugeot, Ford, Volvo 2.0, 2.2i D

FOR THE FOLLOWING MODELS

Peugeot 807 (2005, 2011), 407 (2005, 2011), 607 (2005, 2009), engine DW10UTED4 (RHK), DW10BTED4 (RHR)DW12BTED4 (4HS), (4HP), (4HT), (4HR)
Citroën C4 (2004, 2010), C5 II (2004, 2010), engine DW10BTED4 (RHR)
Land Rover Freelander (2006, 2010), engine DW12BTED4, 224DT
Volvo S40 (2003, 2010), V50 (2006, 2010), C70 (2006, 2010), S80 (2007, 2010), C30 (2006, 2010), V70 (2007, 2010), engine D420T 2.0D
Ford S-Max 2.2 (2008, 2010), Galaxy 2.2 (2008, 2010), Mondeo 2.2, 2.0 (2007, 2010)

ENGINE CODES

Engine codes: QXBA(2.2), QXWA(2.0), QXBB(2.0), Q4BA(2.2), QXWA(2.0), QXWB(2.0), AZBA(2.0), AZBC(2.0), AZWA(2.0)

DESCRIPTION

Makes it easier to check and adjust the engine timing

DELIVERY SCOPE

Camshaft interlock, use as OEM PSA 0188.M, Ford 303-735, 303-1277, Volvo 999-7122
Crankshaft interlock, use as OEM PSA 0188.X, Ford 303-1059, 303-1270, Volvo 999-7121
Flywheel interlock, use as PSA 0188.F, Ford 303-393A, 303-393-01, 303-1272, Volvo 999-7119/7120



SUITABLE FOR:



ART.NR	ITEM NAME
BT592320	Balance shaft adjustment tool set for Land Rover, Citroën, Mitsubishi, Peugeot, Ford 2.2 DOHC diesel engines

FOR THE FOLLOWING MODELS

Land Rover Discovery, Discovery Sport, Freelander 2, eD4, TD4, TD4e (2009-2015) engine codes: 224DT, DW12CTE-D4/224DT, DW12BTED4/224DT

Citroën C5, C5 II, C5 III, C6, C8, C-Crosser HDi (200-2015) engine codes: 4HX (DW12CTED4), 4HP (DW12BTED4), 4HX (DW12TED4), 4HW (DW12TED4/L4)

Mitsubishi Outlander DI-D, DI-DC (2007-2013) engine codes: 4HK, 4HN

Peugeot 4007, 407, 607, 807, 406, 508, 607, HDi, GT HDi (2000-2015) engine codes: DW12MTED4 (4HK), DW12MTED4 (4HN), DW12BTED4 (4HP), DW12BTED4 (4HR), DW12BTED4 (4HT), DW12TED4/L4 (4HW), DW12BTED4 (4HS), DW12ATED (4HZ), DW12ATED4 (4HX), DW12ATED (4HZ), DW12CTED4 (4HL)

Ford Galaxy, Mondeo, S-Max, TDCI, TCI (2008-2015) engine codes: KNBB, KNBA, KNWA, Q4BA

DESCRIPTION

For adjusting the balance shaft

DELIVERY SCOPE

Balance shaft fixing tool, use as OEM 303-1329
Balancing tool, use as OEM 303-1330
Balance shaft adjustment tool, use as OEM 303-1328, 0190D

SUITABLE FOR:



ART.NR	ITEM NAME
BT592300	Engine adjustment tool set for PSA 1.8, 2.0 16V petrol

FOR THE FOLLOWING MODELS

Citroën C5 1.8, 2.0 HPI (2002, 2005) Xsara 2.0 16V (2002, 2005) Xsara, Picasso 1.8, 2.0 16V (2002, 2005)

Peugeot 406 1.8 16V (2000, 2004), 807 2.0 16V (2002, 2005)

Engine codes 6FZ (EW7J4) FRN (EW10J4, L4, 5) RLZ (EW10D)

DESCRIPTION

Contains important tools for checking and adjusting the engine timing when replacing the toothed belt and carrying out repairs on the engine

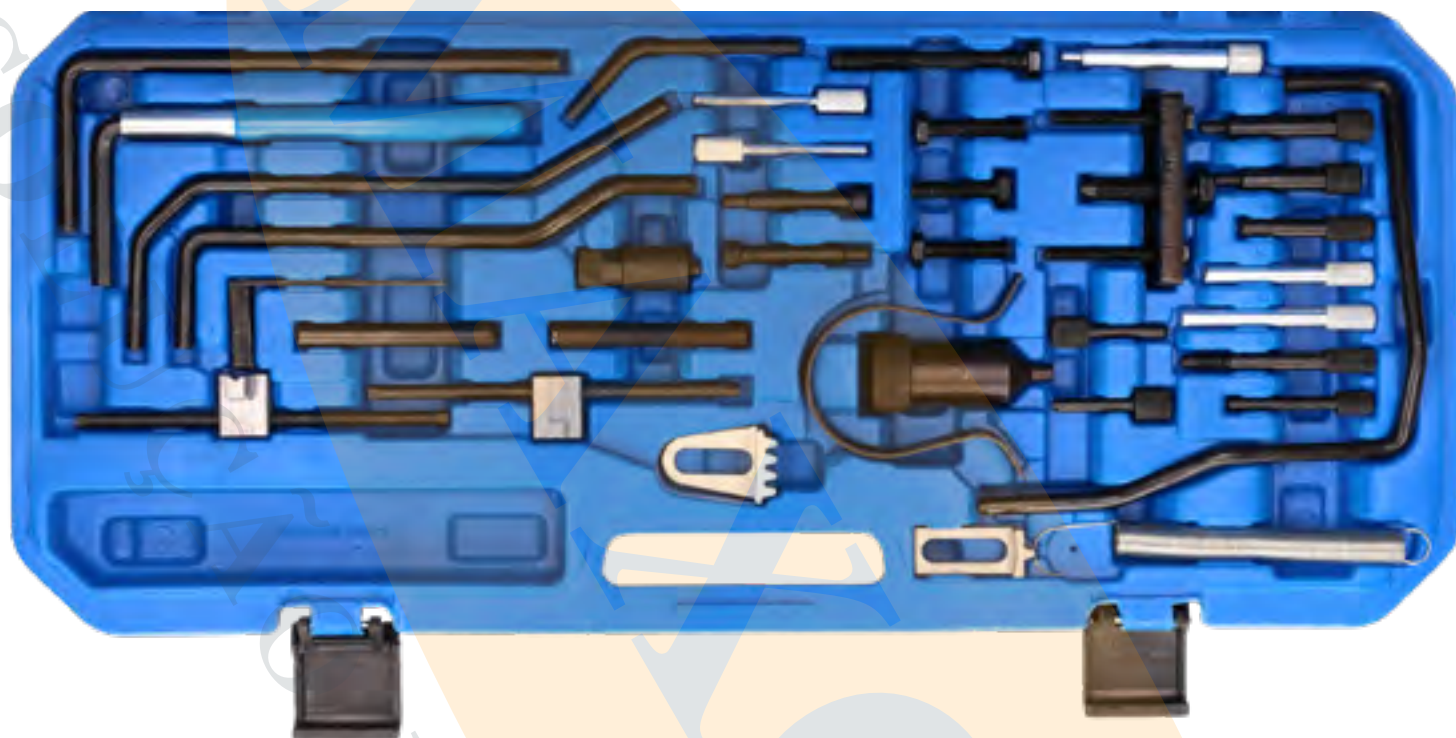
DELIVERY SCOPE

Tension roller locking tools, use as OEM 0189S2
Tool for tensioner, use as OEM 0178E, 5711TE, 178J/J2
Tools for tensioner, use as OEM 0188J2
Adjustment tools for tensioning unit, use as OEM 0189S1
Locking pins, use as OEM 0132AB, 0194A, 0178D
Locking pin, use as OEM 0194B
Locking pin, use as OEM 0188M
Locking pin, use as OEM 0189B
Flywheel locking tools, use as OEM 0189R
Interlock for tensioning unit, use as OEM 7017TR, 0153U
Adjustment tools for crankshaft wheel, use as OEM 0188AH



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SUITABLE FOR:


ART.NR	ITEM NAME
BT592250	Engine adjustment tool set for PSA

FOR THE FOLLOWING MODELS

Petrol 1.0, 1.1, 1.4, 1.5, 1.6, 1.6 16V, 1.8, 1.8 16V, 1.9, 2.0, 2.0 16V, 2.0 Turbo

Diesel 1.4D, 1.4HdI, 1.5D, 1.7D, 1.7TD, 1.9D, 1.9TD, 2.0HdI, 2.1TD 2.1TD, 2.2D, 2.5TD, 2.2HdI

Suitable for structurally identical engines in Toyota and Fiat

ENGINE CODES

159A, 161A, 171B, 171C, 171D, 180A, 180Z, 3FZ (EW12J4), 4HX (DW12ATED), 4HZ (DW12ATED) 6FZ (EW7J4), A8A, A9A, AJZ, B1A /E /F, B2C, B4A, B6D, B6E, BAY, BDY, BFZ, C1A, CDY, CDZ, D2A /C /E /F, D6A /B /D /E, D8A /B /C, D9B, DDZ, DFZ, DHV /W /X /Y, DJ5 (T9A), DJ5T (T8A), DJY, DJZ, DKZ, EW10J4D, EW7J4, H1A, HDY, HDZ, K1A, K1F, K1G, K2A, K2B, K2D, K3A, K6B, KDX, KDY, KDZ, KFW, KFX, KFY, KFZ, L6A, LFW, LFX, LFY (XU7JP4), LFZ, M4A, NFU, NFX (TU5J4/L3), P8A, P8B, P8C, P9A, PHZ (XUD11), R2A, R6A, R6D, RDZ, RFR, RFN (EW10J4), RFS, RFT, RFU, RFV, RFW, RFX, RFY, RFZ, RGX, RGY, RHW (DW10ATED4), RHY (DW10ATD), RHZ (DW10ATED/L), RLZ (EW10J4D), T8A/THZ (DJ5T), T9A (DJ5), THX (DJ5TED), THY (DK5ATE), TU1/2/3/5/9, TU1/3/5 (HFY, HFZ, KFX, NFZ), TU5J4/L3 (NFX), TU5JP4 (NFU), WJY (DW8B), WJZ (DW8), XU10J2C/Z, XU10J2CTE/L3, XU10J2TE/Z, XU10J4R/S (RFV/R6E/RFS), XU10J4RS (RFS), XU10J4RS (RFS), XU10-R2A, R5A, R6A, RDZ, XU5-171B, 180A, B1E, XU5-B6D/E, B1A, B1E, B2A, B2B, BDY, BDZ, XU5JP (BFZ), XU7JP4 (LFY), XU7-L6A, LFW, LFX, LFZ, XU9-D2H, D6A, D6B, D6D, DDZ, DKZ, DFZ, XU9-D2A/D, XU9J4, XUD 11 BTE (P8C), XUD11A, XUD11ATE, XUD7 (A9A), THX (DJ5), XUD9 (DHY), XUD9A (D9B/DJY), XUD9AU (D8C), XUD9SD (DHW), XUD9TF (D8B), XUD9UTF (DHY), XUD9Y (DJZ)

DESCRIPTION

For adjusting the engine timing e.g. when replacing the toothed belt

DELIVERY SCOPE

Clamping tool, use as OEM 4507-TJ, 9767.89, 0188Q1, 0132X1Z, 0188Q1, 0132X1Z, 0132X

Camshaft adjustment pin 6 mm, use as OEM 4507-TA, 0132Z, 0132QZ

2 crankshaft/camshaft adjustment pins, use as OEM 0153ZY, 4507-TB, 0153AB, 9041-TZ, 0132R, 9767.27

Flywheel locking pins, use as OEM 4507-TL, 0189C

Adjustment tool, angled, 8 mm, use as OEM 0188D, 7004TG, 9767-34, 0153G, 7014-TJ, 1 860 863 000, 0153N

Bolts M8 x 35 mm / M8 x 40 mm / M8 x 70 mm

Flywheel adjustment pin, 7 mm, use as OEM 7017-TR

Flywheel adjustment pin, 8 mm, use as OEM 1 860 863 000, OUT0000127, 0153N, 0288D, 7099-TM, 0188Y, 0188D

Flywheel adjustment pin with spring, use as OEM 0188X, 0189X

Camshaft adjustment pin, use as OEM 18G 1580, 11 9 790, 5711-TD, 21-260, 07744-1110400, 303-732, 4527-T.S2, 07744-00104-00, 1 860 617 000, 0132AB, 999 7169, 0178D

Injection pump adjustment pin, use as OEM 0188H

Crankshaft/camshaft adjustment pin, use as OEM 0188M, 0187B, 0194B, 303-1277, MOT1430, 0189B, 303-735, 49JE01 061, 21-263

Injection pump adjustment pin, use as OEM 4527-T.S1

Camshaft adjustment pin (CA1), use as OEM 4533-TAC1, 0132AJ1

Camshaft adjustment pin (CA2), use as OEM 0132AJ2, 2000 023 000, 0188M, 4533-TAC2

2 camshaft adjustment pins, use as OEM 9041-TZ, 5711-TC

Camshaft adjustment pin, use as OEM 0189A, 1 871 008 100

Camshaft adjustment pin, use as OEM 0189AZ

Intake camshaft adjustment pin (VTC), use as OEM 0189L

Tension lever, use as OEM 5711-TE, 0178E, 0188J/J1

Flywheel locking tool, use as OEM 0188F, 0134Q, 1 870 765 001, 1 870 827 000, 0134AF, 9044-T, 1 871 000 400

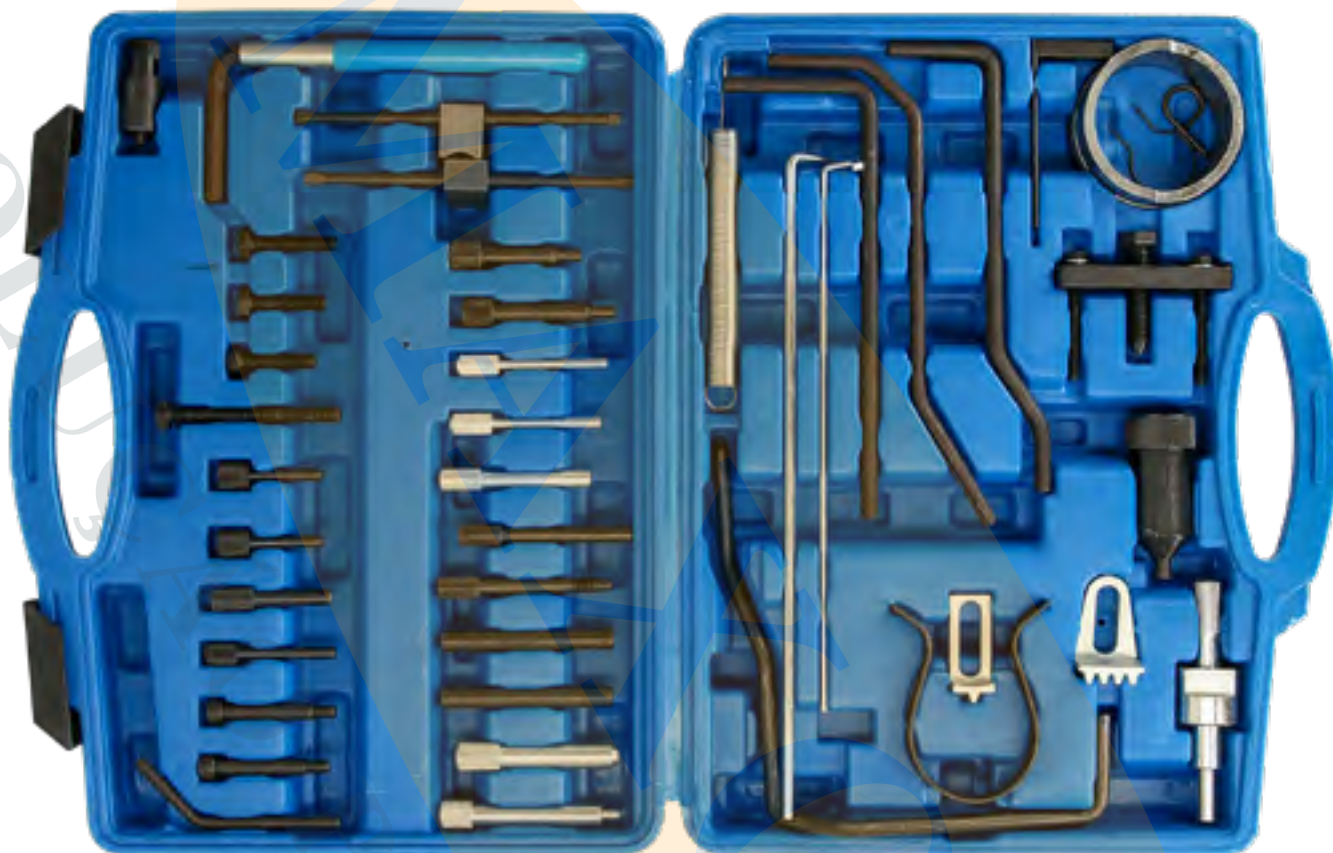
HdI tension lever, use as OEM 0188J2

Tensioning spanner, 8 mm, use as OEM 7017-TW

Toothed belt retaining clip, use as OEM 0189K, MOT1436, 4533-TAX, 0188K, 0187J, 0132AK, 0153AK, 1 870 00 100

Flywheel locking tool, use as OEM 1 867 030 000, 0153A, 9765.54, 6012T, 1 860 161 000

Roller extractor, use as OEM 0174, 0188P, 018892, 7015-T



ART.NR	ITEM NAME
BT597940	Engine adjustment tool set for Peugeot, Citroën, PSA

FOR THE FOLLOWING MODELS

Citroën AX, Berlingo, BX, C5, C15, C25, Dispatch, Evasion, Jumper, Jumpy, Relay, Saxo, Synergie, Visa, Xsara, Xantia, XM, XJR, ZX, etc.

Peugeot 106, 205, 306, 405, 406, 605, 806, J5, Boxer, Expert, Partner, Solara, Talbot Express, Talbot Horizon, etc.

PSA petrol engines 1.9, 1.1, 1.4, 1.6, 1.8, 1.9, 2.0, 1.6, 1.8, 2.0, 2.2 16V (turbo and dual camshafts)

PSA diesel engines 1.4, 1.5, 1.7, 1.8, 1.9, 2.1, 2.5 D, TD, TDI, 1.4, 1.6, 2.0, 2.2 HDI

Suitable for structurally identical engines in Fiat, Ford, Nissan, Renault, Rover, Toyota, etc.

DESCRIPTION

For checking and adjusting the engine timing

DELIVERY SCOPE

Flywheel adjustment pin with spring, use as OEM 0188X, 0189X

Tensioning spanner, 8 mm, use as OEM 7017-TW

Flywheel fixing mandrel, 7 mm, use as OEM 7017-TR

Angled adjustment pin, 8 mm, use as OEM 0188D, 7004TG, 9767-34, 0153G, 7014-TJ, 1 860 863 000, 0153N

Clamping tool, use as OEM 4507-TJ, 9767.89, 0188Q1, 0132X1Z, 0132X

Camshaft marking mandrel, use as OEM 0189A, 1 871 008 100

Hdi tension roller lever, use as OEM 0188J2

Tension roller lever, use as OEM 5711-TE, 0178E, 0188J/J1

Flywheel disc extractor, use as OEM 0174.0188P, 018892, 7015-T

Toothed belt retaining clamp, use as OEM 0189K, MOT1436, 4533-TAX, 0188K, 0187J, 0132AK, 0153AK, 1 870 00 100

Flywheel retainer, use as OEM 0195K, 4507-TL

Clamping tool, use as OEM 0189S1

Flywheel retainer, use as OEM 1867030000, 0153A, 9765.54, 6012T, 1860161000

Tension lever, use as OEM 0189S2

Angled locking pin, 5 mm

Flywheel fixing mandrel (for automatic transmission), use as OEM 0189R

Camshaft marking mandrel, use as OEM 0189AZ

Crankshaft retainer, use as OEM 0288D, 0188Y, 7014

Flywheel fixing mandrel (manual transmission), use as OEM 0189C

Flywheel interlock, use as OEM 0188F, 0134Q, 1870765001.1870827000, 0134AF, 9044-T, 1871000400

Camshaft marking mandrel (CA1), use as OEM 4533-TAC1, 0132AJ1

Camshaft and crankshaft retainer, use as OEM 0188M, 0187B, 0194B, 303-1277, MOT1430, 0189B, 303-735, 49JE01061, 21-263

Camshaft marking mandrel (CA2), use as OEM 0132AJ2, 2000023000, 0188M, 4533-TAC2

Marking mandrel for injection pump, use as OEM 4527-TS1

Injection pump fixing mandrel, use as OEM 0188H, 1 860 965 000

Flywheel fixing mandrel, use as OEM 49JE02020, 0194C, 21-262, 999-7121, 999-7169, 303-734

2 camshaft and crankshaft marking mandrels, use as OEM 4507-TB.7014-TN, 0132-R, 0153-AB, 0158-G

2 camshaft and crankshaft interlocks, use as OEM KM-955, 7014-TM

2 camshaft marking mandrels, use as OEM 9041-TZ, 5711-TC

2 crankshaft fixing mandrels, use as OEM 5711-TD, 119790, 0194A, 1860617000, 303-732, 07744-00104-00, 49JE02018, 0178D, 9997169, 4527-TS2, 21-260, 999-7169, 0132AB

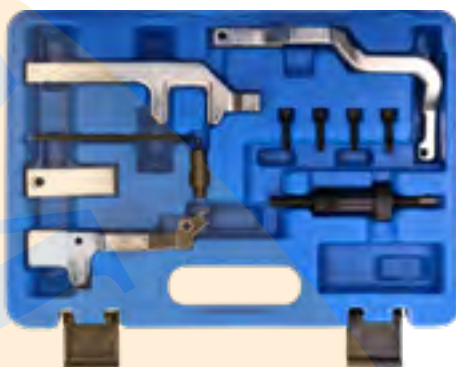
Camshaft fixing mandrel, use as OEM 0189L

Screw M8 x 80 mm

Pin for clamping device, 3 mm, use as OEM 0153AL, 4200TA

Centring clip for crankshaft pulley, use as OEM 0188AH

Crankshaft marking mandrel, 6 mm, use as OEM 4507-TA, 0132Z, 0132QZ



ART.NR	ITEM NAME
BT592520	Engine adjustment tool set for Fiat Ducato, Peugeot Boxer, Citroën Jumper 2.3 D JTD, 3.0 JTD, HDi

FOR THE FOLLOWING MODELS

Citroën Relay/Jumper III
Fiat Ducato
Iveco Daily (03-10), Daily/EcoDaily (2009-2011)
Peugeot Boxer III (2006-2012)
2.3D, 2.3 JTD F1AE0418A, F1AE0481B, F1AE0481C, F1AE0418D, F1AE0481F, F1AE0481FA, F1AE0481G, F1AE0481H, F1AE0481HA, F1AE0481N, F1AE0481UA, F1AE0481VA
3.0JTD F1CE0481A, F1CE0481B, F1CE0481D, F1CE0481F, F1CE0481H, F1CE3481M
3.0HDi F30DTE, F1CE0481D, F1CE3481DM, F1CE3481N

DESCRIPTION

Use as OEM Fiat 99360187, 99360614, 99360615, 1860617000, 1860815000, 20000180200, Citroën/Peugeot 0191-2A, 0191-2B, 0191-2J, 0191-2K

DELIVERY SCOPE

2 camshaft fixing mandrels
1 crankshaft fixing mandrel



ART.NR	ITEM NAME
BT593800	Engine adjustment tool set for MINI, PSA

FOR THE FOLLOWING MODELS

MINI One, Cooper HB, Cooper (R55-56) N12 engine
Citroën C4 (year of construction 2008, 2009), C4 Picasso (year of construction 2008, 2009)
Peugeot 207 (year of construction 2006, 2009), 207CC (year of construction 2007, 2009), 308 (year of construction 2001, 2009)
Engines: 1.4, 1.6 VTI, EP3 (8FS) EP6 (5FW), EP6C 1.6 THP, EP6DT (5FX) EP6DTS (5FY)

DESCRIPTION

Needed when replacing the cylinder head seal and when working on the engine timing

DELIVERY SCOPE

Crankshaft fixer, use as OEM 119590, 0197-BZ
Camshaft fixer, use as OEM 119540, 0197-A1, 0197-A3
Chain tensioner, use as OEM 119340, 0197-M



ART.NR	ITEM NAME
BT595700	Camshaft locking tool set for VAG, Ford, Opel, Saab

DESCRIPTION

Universal set for a wide range of models

DELIVERY SCOPE

Camshaft interlock for Opel Calibra, Omega, Sintra, Vectra -1.8, 2.0, use as OEM KM-852, 18G1570
Camshaft interlock for Opel Calibra, Omega, Sintra, Vectra -1.4, 1.6, use as OEM KM-853
Right camshaft with Saab 900, 900 -2.5, 3.0, Opel Calibra, Sintra, Vectra -2.5, 3.0, use as OEM KM-800-2
Left camshaft with Saab 900.900 -2.5, 3.0, Opel Calibra, Sintra, Vectra -2.5, 3.0, use as OEM KM-800-1
Crankshaft toothed belt pulley interlock tool for TDI pump-injection engines with VW, Audi, Škoda, Seat and Ford, use as VAG T10050
Flywheel interlock tools for Citroën, Fiat and Peugeot, use as OEM 153A, 6012T, 9765.54
Flywheel holder unit for Isuzu 1.5 and 1.7 diesel, Opel 1.6, 1.7 diesel engines, Opel 1.2, 1.4, 1.6, 1.8, 2.0 OHC petrol engines, use as OEM KM-517-B



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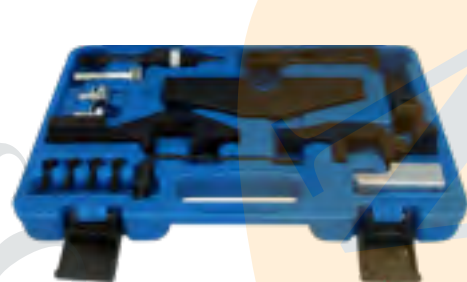
Ø 21 mm

Ø 16 mm

Ø 34 mm

Ø 28 mm





SUITABLE FOR:

ART.NR	ITEM NAME
BT593750	Engine adjustment tool set for MINI

FOR THE FOLLOWING MODELS

Suitable for the following models: MINI One, Cooper, Cooper S, Cooper S JC Cooper S JCW (series R50, 52, 53, 55, 56, 57)

ENGINE CODES

For engine codes W10, W11, N14

DESCRIPTION

For working on intake and exhaust camshafts

DELIVERY SCOPE

Fixing of camshafts, use as OEM 119551 and 119552

Fixing of crankshaft, use as OEM 119590

Tools for chain tensioner, use as OEM 119340

SUITABLE FOR:

ART.NR	ITEM NAME
BT591580	Engine adjustment tool set for BMW, MINI, PSA

FOR THE FOLLOWING MODELS

BMW 1.6 (N40, N45, N45T, B16, B16A, B16AC) 1.8, 2.0 (N42, N46, N46T) 2.0, 3.0 (N51, N52, N52K, N53, N54)

PSA 1.4, 1.6 16V (EP3, EP6, EP6DT, EP6DTS)

MINI 1.4, 1.6 (N12, N14)

DESCRIPTION

For aligning new and old versions of balance shafts

Prevents non-concentric engine running due to incorrectly aligned balance shafts

Needed when changing the timing chain, replacing the crankshaft sealing ring, replacing the cylinder head seal etc.

Use as OEM 115140, 119280, 119330

DELIVERY SCOPE

Balance shaft fixing tool (old and new version)

Crankshaft counter support

Locking pin for chain tensioner



SUITABLE FOR:

ART.NR	ITEM NAME
BT591870	Engine adjustment tool set for MINI, Citroën, Peugeot 1.6L diesel

FOR THE FOLLOWING MODELS

BMW MINI, MINI Clubman, series R55, R56, R57

Citroën C2, C3, C4, C5, Grand Picasso, Berlingo (MK3), Xsara Picasso

Peugeot 206, 206cc, 207, 207cc, 1007, 307, 308, 308cc, 3008, 5008, Partner (MK3)

ENGINE CODES

Engine codes: BMW: W16D16 (9HZ), W16D16UD, PSA: 9HZ, 9HX, 9HY (DV6TED4)

DESCRIPTION

For adjusting and checking the engine timing

Suitable for the following models with a 1.6L diesel engine

DELIVERY SCOPE

Crankshaft marking pin, use as OEM PSA 0194A, BMW 119790

Marking pins for camshaft and high-pressure pump, use as OEM PSA 0194B, BMW 110300

Flywheel interlock, use as OEM PSA 0194C, BMW 119850, 119851, 119852



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32 pcs.

1/2"


9x	1/2"		55,0	M5 • M6 • M7 • M8 • M9 • M10 • M12 • M13 • M14
9x	1/2"		100,0	M5 • M6 • M7 • M8 • M9 • M10 • M12 • M13 • M14
7x	1/2"		140,0	M8 • M9 • M10 • M10,3 • M12 • M13 • M14
7x	1/2"		200,0	M8 • M9 • M10 • M10,3 • M12 • M13 • M14



SUITABLE FOR:

ART.NR	ITEM NAME
BT596002	Universal camshaft wheel puller

DESCRIPTION

For pulling the pulley and camshaft gear

Gripping arms are connected with each other via adjusting disk, thus the gripping arms can be set easily and exactly

Continuous adjustment range of the gripping arms from 42 - 82 mm

Gripping arm depth is 27 mm

DELIVERY SCOPE

3 x gripping arms, Ø 12 mm, M10 x 1.5, suitable for material thickness up to max. 10 mm

6-groove puller body with adjusting disc

Spindle, M14 x 1.5, 19 mm hex, with centring cone



ART.NR	ITEM NAME
BT591260	Camshaft sprocket locking tool set, universal

FOR THE FOLLOWING MODELS

Can be used universally on vehicles from the following manufacturers: Audi, Alfa Romeo, Chrysler, Citroën, Ford, Honda, Hyundai, Isuzu, Land Rover, Lexus, Mazda, Mitsubishi, Peugeot, Renault, MG, Seat, Škoda, Subaru, Toyota, Opel, Volkswagen, Volvo

DESCRIPTION

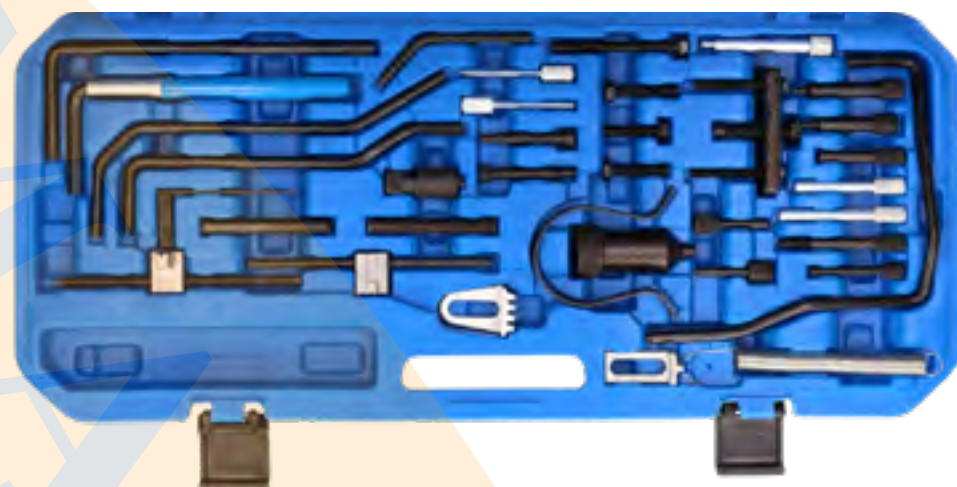
For locking the camshaft sprockets e.g. when replacing the toothed belt

Suitable for engines with 1, 2 and 4 camshafts (V engines); also suitable for locking between the camshaft sprocket and diesel injection pump wheel in some diesel engines

DELIVERY SCOPE

Double camshaft locking tool with short and long connecting arm

Single camshaft locking tool with short and long locking screw



ART.NR	ITEM NAME
BT592250	Engine adjustment tool set for PSA

FOR THE FOLLOWING MODELS

Petrol 1.0, 1.1, 1.4, 1.5, 1.6, 1.6 16V, 1.8, 1.8 16V, 1.9, 2.0, 2.0 16V, 2.0 Turbo

Diesel 1.4D, 1.4HDI, 1.5D, 1.7D, 1.7TD, 1.9D, 1.9TD, 2.0Hdi, 2.1TD 2.1TD, 2.2D, 2.5TD, 2.2Hdi

Suitable for structurally identical engines in Toyota and Fiat

ENGINE CODES

159A, 161A, 171B, 171C, 171D, 180A, 180Z, 3FZ (EW12J4), 4HX (DW12ATED), 4HZ (DW12ATED) 6FZ (EW7J4), A8A, A9A, AJZ, B1A /E /F, B2C, B4A, B6D, B6E, BAY, BDY, BFZ, C1A, CDY, CDZ, D2A /C /E /F, D6A /B /D /E, D8A /B /C, D9B, DDZ, DFZ, DHV /W /X /Y, DJ5 (T9A), DJ5T (T8A), DJY, DJZ, DKZ, EW10J4D, EW7J4, H1A, HDY, HDZ, K1A, K1F, K1G, K2A, K2B, K2D, K3A, K6B, KDX, KDY, KDZ, KFW, KFX, KFY, KFZ, L6A, LFW, LFX, LFY (XU7JP4), LFZ, M4A, NFU, NFX (TU5J4/L3), P8A, P8B, P8C, P9A, PHZ (XUD11), R2A, R6A, R6D, RDZ, RFR, RFN (EW10J4), RFS, RFT, RFU, RFV, RFW, RFX, RFY, RFZ, RGX, RGY, RHW (DW10ATED4), RHY (DW10ATD), RHZ (DW10ATED/L), RLZ (EW10J4D), T8A/THZ (DJ5T), T9A (DJ5), THX (DJ5TED), THY (DK5ATE), TU1/2/3/5/9, TU1/3/5 (HFY, HFZ, KFX, NFZ), TU5J4/L3 (NFX), TU5JP4 (NFU), WJY (DW8B), WJZ (DW8), XU10J2C/Z, XU10J2CTE/L3, XU10J2TE/Z, XU10J4R/S (RFV/R6E/RFS), XU10J4RS (RFS), XU10J4RS (RFS), XU10-R2A, R5A, R6A, RDZ, XU5-171B, 180A, B1E, XU5-B6D/E, B1A, B1E, B2A, B2B, BDY, BDZ, XU5JP (BFZ), XU7JP4 (LFY), XU7-L6A, LFW, LFX, LFZ, XU9-D2H, D6A, D6B, D6D, DDZ, DKZ, DFZ, XU9-D2A/D, XU9J4, XUD 11 BTE (P8C), XUD11A, XUD11ATE, XUD7 (A9A), XUD7TE, XUD9 (DHY), XUD9A (D9B/DJY), XUD9AU (D8C), XUD9SD (DHW), XUD9TF (D8B), XUD9UTF (D8X), XUD9Y (DJZ)

DESCRIPTION

For adjusting the engine timing e.g. when replacing the toothed belt

DELIVERY SCOPE

Clamping tool, use as OEM 4507-TJ, 9767.89, 0188Q1, 0132X1Z, 0188Q1, 0132X1Z, 0132X

Camshaft adjustment pin 6 mm, use as OEM 4507-TA, 0132Z, 0132QZ

2 crankshaft/camshaft adjustment pins, use as OEM 0153ZY, 4507-TB, 0153AB, 9041-TZ, 0132R, 9767.27

Flywheel locking pins, use as OEM 4507-TL, 0189C

Adjustment tool, angled, 8 mm, use as OEM 0188D, 7004TG, 9767-34, 0153G, 7014-TJ, 1 860 863 000, 0153N

Bolts M8 x 35 mm / M8 x 40 mm / M8 x 70 mm

Flywheel adjustment pin, 7 mm, use as OEM 7017-TR

Flywheel adjustment pin, 8 mm, use as OEM 1 860 863 000, OUT0000127, 0153N, 0288D, 7099-TM, 0188Y, 0188D

Flywheel adjustment pin with spring, use as OEM 0188X, 0189X

Camshaft adjustment pin, use as OEM 18G 1580, 11 9 790, 5711-TD, 21-260, 07744-1110400, 303-732, 4527-T.S2, 07744-00104-00, 1 860 617 000, 0132AB, 999 7169, 0178D

Injection pump adjustment pin, use as OEM 0188H

Crankshaft/camshaft adjustment pin, use as OEM 0188M, 0187B, 0194B, 303-1277, MOT1430, 0189B, 303-735, 49JE01 061, 21-263

Injection pump adjustment pin, use as OEM 4527-T.S1

Camshaft adjustment pin (CA1), use as OEM 4533-TAC1, 0132AJ1

Camshaft adjustment pin (CA2), use as OEM 0132AJ2, 2000 023 000, 0188M, 4533-TAC2

2 camshaft adjustment pins, use as OEM 9041-TZ, 5711-TC

Camshaft adjustment pin, use as OEM 0189A, 1 871 008 100

Camshaft adjustment pin, use as OEM 0189AZ

Intake camshaft adjustment pin (VTC), use as OEM 0189L

Tension lever, use as OEM 5711-TE, 0178E, 0188JJ1

Flywheel locking tool, use as OEM 0188F, 0134Q, 1 870 765 001, 1 870 827 000, 0134AF, 9044-T, 1 871 000 400

Hdi tension lever, use as OEM 0188J2

Tensioning spanner, 8 mm, use as OEM 7017-TW

Toothed belt retaining clip, use as OEM 0189K, MOT1436, 4533-TAX, 0188K, 0187J, 0132AK, 0153AK, 1 870 00 100

Flywheel locking tool, use as OEM 1 867 030 000, 0153A, 9765.54, 6012T, 1 860 161 000

Roller extractor, use as OEM 0174, 0188P, 018892, 7015-T

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ART.NR	ITEM NAME
BT593180	Engine adjustment tool set for Jaguar, Land Rover 2.7, 3.0 TD V6

FOR THE FOLLOWING MODELS

Citroën C5 III (2007 - 2009), C6 (2005 - 2009)
 Jaguar S-Type (2004 - 2008), XF (2008 - 2012), XJ (2010 - 2012), XJ6 (2005 - 2010)
 Range Rover Sport (2005 - 2009)
 Peugeot 407 (2004 - 2009), 407 Coupe (2006 - 2009), 607 (2004 - 2011) 2.7D V6, TDVi (276DT) 2.7D HDi (DT17BTD4) (UHZ) 3.0D HDi (D20CTED4) (X8Z) 3.0D SD V6, TD V6 (306DT) (AJ-V6D)

DESCRIPTION

For checking and adjusting the engine timing
 Needed e.g. when working on the valve train and replacing the cylinder head seal

DELIVERY SCOPE

Flywheel interlock (manual), use as OEM (Rover) 303-1116
 Flywheel interlock (automatic), use as OEM (Rover) 303-1117
 Camshaft sprocket adjustment pin, use as OEM (Rover) 303-1132
 Camshaft sprocket adjustment pin, 2 pcs, use as OEM (Rover) 303-1126, (PSA) 0195H
 Water pump locking pin, use as OEM (PSA) 0195-C
 Flywheel locking tool, use as OEM (PSA) 0195-K
 Toothed belt retaining clip, use as OEM (PSA) 0188-K



ART.NR	ITEM NAME
BT593160	Engine adjustment tool set for Jaguar, Land Rover, Ford, Citroën 2.0, 2.2, 2.4, 3.2 diesel

FOR THE FOLLOWING MODELS

Ford Mondeo (2000 - 2007), Transit (2000 - 2011)
 Citroën Relay (2006 - 2011), Jumper III
 Fiat Ducato (2006 - 2011)
 Jaguar X-Type (2001 - 2010)
 Land Rover Defender (2007 - 2011)
 Peugeot Boxer III (2006 - 2011)
 LDV Convoy (2002 - 2006)
 with DURATORQ (PUMA) diesel engines

ENGINE CODES

2.0L engine code ABFA, D3FA, D5BA, D6BA, F3FA, F5FA, FMBA, HJBA, HJBB, HJBC, HJBE, N7BA, N7BB
 2.2L (with chain-driven high-pressure pump), engine code QJBA (BG), QJBB, QJBC, QJBD
 2.2L (high-pressure pump driven via camshaft), engine code 4HM, 4HU, 4HV, P8FA, P22DTE, QVFA, QWFA
 2.4L with engine code 244DT, D0FA, D2FA, D2FB, D4FA, F4FA, FXFA, H9FA, H9FB, HE FA, HFFA, JXFA, PHFA, ZSD 424
 3.2L with engine code SAFA (timing only)

DESCRIPTION

For checking and adjusting the engine timing
 Needed e.g. when working on the valve train and replacing the cylinder head seal

DELIVERY SCOPE

Engine cover adjustment tool, use as OEM 303-682
 Tool for engine cover/crankshaft radial sealing ring, use as OEM 303-679A
 High-pressure pump wheel holding tool, use as OEM 303-1151
 High-pressure pump wheel disassembly tool, use as OEM 303-249
 Flywheel locking bolt, use as OEM 303-675
 Flywheel locking bolt, use as OEM 303-698
 Locking pin set, 3 pcs, 6 mm
 Tensioner locking pin, 2 mm

PORSCHE



PORSCHE



ART.NR	ITEM NAME
BT594420	Engine adjustment tool set for Porsche 911, Cayman, Boxster with MA1 engine

FOR THE FOLLOWING MODELS

Porsche 911 Coupe, Cabrio, Targa 3.6 (997) (253 KW), engine code MA1/02, 911 Coupe S, Cabrio S, Targa S 3.8 (997) (283 KW), engine code MA1/01, 911 Coupe, Cabrio, Targa 3.6 (997) (254 KW), engine code MA1/02, 911 Coupe S, Cabrio S, Targa S 3.8 (997) (283, 300 KW), engine code MA1/01, 911 Turbo 3.8 (997) (368 KW), engine code MA1/70, 911 Turbo 3.8 (997) (368, 390 KW), engine code MA1/70, 911 S 3.8 (991) (294 KW), engine code MA1/03, 911 3.4 (991) (257 KW), engine code MA1/04, 911 GT3 3.8 (991) (350 KW), engine code MA1/75, 911 GT3 RS 4.0 (991) (373 KW), engine code MA1/76, 911 Turbo 3.8 (991) (383 KW), engine code MA1/71, 911 Carrera 3.6 (997) (239 KW), engine code MA1/02, 911 Carrera S 3.8 (997) (283, 300 KW), engine code MA1/01, MA1/01S, 911 Turbo, Turbo S 3.8 (997) (368, 390 KW), engine code MA1/70, MA1/70S, Boxster 2.9 (987) (155, 188 KW), engine code MA1/20, Boxster S, Spyder 3.4 (987) (228, 235 KW), engine code MA1/21, MA1/21C, Boxster 2.7 (981) (155, 195 KW), engine code MA1/22, Boxster 3.4 (981) (232 KW), engine code MA1/3, Boxster 3.4 (981) (232 KW), engine code MA1/23, Cayman, S 2.9, 3.4 (987) (155, 195 KW), engine code MA1/20C, Cayman 2.7 (981) (155, 202 KW), engine code MA1/22C, Cayman S 3.4 (981) (239 KW), engine code MA1/23C

DESCRIPTION

For turning and aligning the crankshaft and camshaft when removing or replacing the timing chain

DELIVERY SCOPE

Camshaft adjustment tool, use as OEM 9772
 Crankshaft pulley turning tool, use as OEM 9773
 Crankshaft locking pin, use as OEM 9595/1
 Pulley holding tool, use as OEM 9775



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SUITABLE FOR:

ART.NR	ITEM NAME
BT594550	Engine adjustment tool set for Renault, Opel, Nissan

FOR THE FOLLOWING MODELS

Renault Avantage (2005, 2007), Clio (2001, 2008), Espace (2000, 2008), Kangoo (2000, 2008), Laguna (1999, 2001), Laguna II (2004, 2007), Master (2000, 2006), Megane (1999, 2008), Modus (2004, 2008), Scenic (1999, 2008), Traffic (2001, 2008), Twingo (2007, 2008)

Nissan Almera N16 (2002, 2006), Interstar (2002, 2006), Kubistar (2003, 2008), Micra K12 (2003, 2008), Note (2006, 2008), Primastar (2002, 2007), Primera P12 (2003, 2007), Qashqai (2008, 2009)

Opel Movano (2000, 2008), Vivaro (2001, 2008)

ENGINE CODES

Engine codes: 1.5 (K9K), 1.9 (F9Q), 2.2 (G9T), 2.5 (G9U)

DESCRIPTION

For positioning and locking the crankshaft and camshaft when repairing the toothed belt or engine

DELIVERY SCOPE

Intake camshaft interlock OEM KM6205 (MOT1534)
Discharge camshaft interlock, use as OEM KM6204 (MOT1537)
Injection pump interlock, use as OEM MOT1538
Tensioning tool set (5 pcs), use as OEM MOT1543
Locking pin, use as OEM MOT1430
Crankshaft locking pin, use as OEM MOT1536

SUITABLE FOR:

ART.NR	ITEM NAME
BT594670	Engine adjustment tool set for Renault, Volvo, Ford 16V, 20V petrol

FOR THE FOLLOWING MODELS

Renault Laguna (1996, 1999), Safrane (1996, 2001) with engine codes: N7Q 704, 710, 711 N7U 700, 701

Ford Kuga (from 02/2008 onwards), Focus ST RS (from 07/2004 onwards), S-Max (from 03/2006 onwards), Galaxy (from 03/2006 onwards), Mondeo (from 02/2007 onwards) with engine codes: JZDA, HYDB, HYDC, HUWA

Volvo 850 (1992, 1997), C70 (1998, 2002), S40 (1996, 2004), V40 (1996, 2004), S60 (2001, 2005), S70 (1997, 2000), S80 (1999, 2005) with engine codes: B4164 S/S2, B4184 S/S2/S3/S9/S10, B4194 T/T2, B4204 S/S2/T/T2/T3/T5, B5202 FS, B5204 FT/T2/T3/T4/T5, B5234 T3/T4/T5/T6/T7/T8/T9, B5244 S/S2/SG/SG2/T3/T4/T5/T7, B5252 FS, B5254 T/T2/T4

DESCRIPTION

Contains important tools for adjusting the engine timing
1.6, 1.8, 1.9, 2.0, 2.3, 2.4, 2.5L DOHC engines

DELIVERY SCOPE

Camshaft retainer, use as OEM MOT1337, 999-5452, 303-1178
Tension roller key, use as OEM MOT1348
Flywheel retainer, use as OEM MOT1340, 999-5451, 303-1182

SUITABLE FOR:

ART.NR	ITEM NAME
BT594650	Engine adjustment tool set for Renault

FOR THE FOLLOWING MODELS

Renault petrol engines 1.4, 1.6, 1.8, 2.0 l, each with 16V technology

Renault petrol engines 2.5 l, 20V with dual camshafts

Renault petrol engines 1.2, 1.4, 1.6, 1.7, 1.8, 2.0, 2.2 l

Renault diesel engines 1.9, 2.5, 2.8 l

Also for Opel Arena, Movano and Volvo V40, S40

DESCRIPTION

Locking the flywheel
Locking the crankshaft, injection pump shaft
Removing the crankshaft pulley
Tensioning the toothed belt
Adjustment gauge for positioning the camshaft and pump shaft in relation to the crankshaft
Use as OEM tools MOT1348, MOT1312, MOT1135 -01, MOT1384, MOT1337, MOT1496, MOT910-1, MOT910, MOT861, MOT863, MOT1054, MOT1318, MOT1489, MOT1340, MOT1386, MOT1490, MOT1490-1, KM6031



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SUITABLE FOR:

ART.NR	ITEM NAME
BT594610	Flywheel/crankshaft pulley blocking and end cover disconnection tool set for Renault, Nissan

FOR THE FOLLOWING MODELS

Renault 1.4, 1.6, 2.0, 2.5, 3.5L petrol engines with timing chain

Petrol engines 1.4 L (H4JT), 1.6 L (M5M), 2.0L (M4R), 2.5 L (2TR), 3.5 L (V4Y)

For locking the flywheel on diesel engines 2.0 L (M9R), 2.3 L (M9T), in conjunction with Art. BT593820

DESCRIPTION

For locking the flywheel and the crankshaft pulley and for disconnecting the end cover when replacing the timing chain

DELIVERY SCOPE

Crankshaft pulley holder, use as OEM MOT 2019, MOT 1789

Flywheel blocking tool, use as OEM MOT 919-02

Flywheel blocking tool, use as OEM MOT 1431

End cover disconnection tool, use as OEM MOT 1716



SUITABLE FOR:

ART.NR	ITEM NAME
BT594680	Engine adjustment tool set for Renault 1.5, 1.9 DCI

FOR THE FOLLOWING MODELS

Renault Laguna, Kangoo, Clio

DESCRIPTION

For replacing the toothed belt

Suitable for Renault Laguna, Kangoo, Clio with 1.5, 1.9 DCI engines

DELIVERY SCOPE

Crankshaft adjustment pin, use as OEM MOT 1489

Camshaft and crankshaft adjustment bolt, use as OEM 0194B, 999-7122, 21-263, MOT 1430, 0187B, 0189B, 607589011500

Crankshaft adjustment bolt, use as OEM KM603, MOT 1054, MOT 861, MOT 863



SUITABLE FOR:

ART.NR	ITEM NAME
BT597940	Engine adjustment tool set for Peugeot, Citroën, PSA

FOR THE FOLLOWING MODELS

Citroën AX, Berlingo, BX, C5, C15, C25, Dispatch, Evasion, Jumper, Jumpy, Relay, Saxo, Synergie, Visa, Xsara, Xantia, XM, XJR, ZX, etc.

Peugeot 106, 205, 306, 405, 406, 605, 806, J5, Boxer, Expert, Partner, Solara, Talbot Express, Talbot Horizon, etc.

PSA petrol engines 1.9, 1.1, 1.4, 1.6, 1.8, 1.9, 2.0, 1.6, 1.8, 2.0, 2.2 16V (turbo and dual camshafts)

PSA diesel engines 1.4, 1.5, 1.7, 1.8, 1.9, 2.1, 2.5 D, TD, TDI, 1.4, 1.6, 2.0, 2.2 HDI

Suitable for structurally identical engines in Fiat, Ford, Nissan, Renault, Rover, Toyota, etc.

DESCRIPTION

For checking and adjusting the engine timing

DELIVERY SCOPE

Flywheel adjustment pin with spring, use as OEM 0188X, 0189X

Tensioning spanner, 8 mm, use as OEM 7017-TW

Flywheel fixing mandrel, 7 mm, use as OEM 7017-TR

Angled adjustment pin, 8 mm, use as OEM 0188D, 7004TG, 9767-34, 0153G, 7014-TJ, 1 860 863 000, 0153N

Clamping tool, use as OEM 4507-TJ, 9767.89, 0188Q1, 0132X1Z, 0132X

Camshaft marking mandrel, use as OEM 0189A, 1 871 008 100

Hdi tension roller lever, use as OEM 0188J2

Tension roller lever, use as OEM 5711-TE, 0178E, 0188J/J1

Flywheel disc extractor, use as OEM 0174.0188P, 018892, 7015-T

Toothed belt retaining clamp, use as OEM 0189K, MOT1436, 4533-TAX, 0188K, 0187J, 0132AK, 0153AK, 1 870 00 100

Flywheel retainer, use as OEM 0195K, 4507-TL

Clamping tool, use as OEM 0189S1

Flywheel retainer, use as OEM 1867030000, 0153A, 9765.54, 6012T, 1860161000

Tension lever, use as OEM 0189S2

Angled locking pin, 5 mm

Flywheel fixing mandrel (for automatic transmission), use as OEM 0189R

Camshaft marking mandrel, use as OEM 0189AZ

Crankshaft retainer, use as OEM 0288D, 0188Y, 7014

Flywheel fixing mandrel (manual transmission), use as OEM 0189C

Flywheel interlock, use as OEM 0188F, 0134Q, 1870765001.1870827000, 0134AF, 9044-T, 1871000400

Camshaft marking mandrel (CA1), use as OEM 4533-TAC1, 0132AJ1

Camshaft and crankshaft retainer, use as OEM 0188M, 0187B, 0194B, 303-1277, MOT1430, 0189B, 303-735, 49JE01061, 21-263

Camshaft marking mandrel (CA2), use as OEM 0132AJ2, 2000023000, 0188M, 4533-TAC2

Marking mandrel for injection pump, use as OEM 4527-TS1

Injection pump fixing mandrel, use as OEM 0188H, 1 860 965 000

Flywheel fixing mandrel, use as OEM 49JE02020, 0194C, 21-262, 999-7121, 999-7169, 303-734

2 camshaft and crankshaft marking mandrels, use as OEM 4507-TB, 7014-TN, 0132-R, 0153-AB, 0158-G

2 camshaft and crankshaft interlocks, use as OEM KM-955, 7014-TM

2 camshaft marking mandrels, use as OEM 9041-TZ, 5711-TC

2 crankshaft fixing mandrels, use as OEM 5711-TD, 119790, 0194A, 1860617000, 303-732, 07744-00104-00, 49JE02018, 0178D, 9997169, 4527-TS2, 21-260, 999-7169, 0132AB

Camshaft fixing mandrel, use as OEM 0189L

Screw M8 x 80 mm

Pin for clamping device, 3 mm, use as OEM 0153AL, 4200TA

Centring clip for crankshaft pulley, use as OEM 0188AH

Crankshaft marking mandrel, 6 mm, use as OEM 4507-TA, 0132Z, 0132QZ

SAAB



ART.NR	ITEM NAME
BT594250	Engine adjustment tool set for Opel, GM 2.0, 2.2 Ecotec diesel

FOR THE FOLLOWING MODELS

Opel Vectra 2.0 Turbo diesel, Sintra 2.2 Turbo diesel, Zafira 2.0 Turbo diesel, Frontera 2.2 Turbo diesel
Saab 9-3 2.2 Turbo diesel

ENGINE CODES

Engine codes: X20DTL, X20DTH, X22DTH, Y22DTR

DESCRIPTION

Makes it possible to adjust the engine timing

DELIVERY SCOPE

Adjustment spanner with holder, use as OEM Opel KM933, Saab 8395394

Injection pump adjustment pin, use as OEM Opel KM927, Saab 8395337

Crankshaft adjustment pin, use as OEM Opel KM929, Saab 8395352

Camshaft adjustment tool, use as OEM Opel KM932, Saab 8395386



ART.NR	ITEM NAME
BT595700	Camshaft locking tool set for VAG, Ford, Opel, Saab

DESCRIPTION

Universal set for a wide range of models

DELIVERY SCOPE

Camshaft interlock for Opel Calibra, Omega, Sintra, Vectra -1.8, 2.0, use as OEM KM-852, 18G1570

Camshaft interlock for Opel Calibra, Omega, Sintra, Vectra -1.4, 1.6, use as OEM KM-853

Right camshaft with Saab 900, 900 -2.5, 3.0, Opel Calibra, Sintra, Vectra -2.5, 3.0, use as OEM KM-800-2

Left camshaft with Saab 900.900 -2.5, 3.0, Opel Calibra, Sintra, Vectra -2.5, 3.0, use as OEM KM-800-1

Crankshaft toothed belt pulley interlock tool for TDI pump-injection engines with VW, Audi, Skoda, Seat and Ford, use as VAG T10050

Flywheel interlock tools for Citroën, Fiat and Peugeot, use as OEM 153A, 6012T, 9765.54

Flywheel holder unit for Isuzu 1.5 and 1.7 diesel, Opel 1.6, 1.7 diesel engines, Opel 1.2, 1.4, 1.6, 1.8, 2.0 OHC petrol engines, use as OEM KM-517-B



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1/2" Screwdriver socket set for screws with internal serration (XZN), 26 pcs.

26 pcs.



1/2"

8x	1/2"		55,0	• M5 • M6 • M8 • M9 • M10 • M12 • M14 • M16
8x	1/2"		100,0	• M5 • M6 • M8 • M9 • M10 • M12 • M14
7x	1/2"		140,0	• M5 • M6 • M8 • M9 • M10 • M12 • M14
3x	1/2"		200,0	M10 • M12 • M14



SUITABLE FOR:



ART.NR	ITEM NAME
BT593320	Engine adjustment tool set for Land Rover 3.6 TD V8

FOR THE FOLLOWING MODELS

Range Rover (L332) 3.6 TD V8 (2006-2011), engine code: 368DT

Rover Sport L320 3.6 TD V8 (2006-2011), engine code: 369DT

DESCRIPTION

For adjusting the engine timing when replacing the timing chain or the cylinder head seal

DELIVERY SCOPE

Camshaft adjustment tool (2x) with fastening screws, use as OEM 303-1236

Flywheel locking tool, use as OEM 303-1243

Crankshaft adjustment pin, use as OEM 303-1238

Camshaft turning pin, use as OEM 303-1239



SUITABLE FOR:



ART.NR	ITEM NAME
BT593970	Engine adjustment tool set for GM, Opel, Vauxhall, Saab 2.0 Turbo

FOR THE FOLLOWING MODELS

Opel Signum Turbo, Vectra-C Turbo (2002-2008), Saab 9-3 1.8 Turbo (2002-2011), Saab 9-3 1.8 Turbo BioPower (2002-2011), Saab 9-3 2.0 Turbo (2002-2012), Saab 9-3 2.0 Turbo BioPower (2010-2012), Saab 9-3XT (2009-2011)

ENGINE CODES

Engine codes: Z20NET, B207, B207L, B207, B207L, B207, B207L, B207, B207L

DESCRIPTION

For adjusting and checking the engine timing

DELIVERY SCOPE

Crankshaft pulley holding tool, use as OEM KMJ38122-A, 8396210

Intake camshaft alignment tool, use as OEM KM6362-1, EN-48366-001

Discharge camshaft alignment tool, use as OEM KM6362-2, EN-48366-002

Chain tensioner locking pin, use as OEM KM6077, 8396392



SUITABLE FOR:

ART.NR	ITEM NAME
BT593815	Engine adjustment tool set for Opel, Saab, Buick, Cadillac, Chevrolet 2.8, 3.6 V6

FOR THE FOLLOWING MODELS

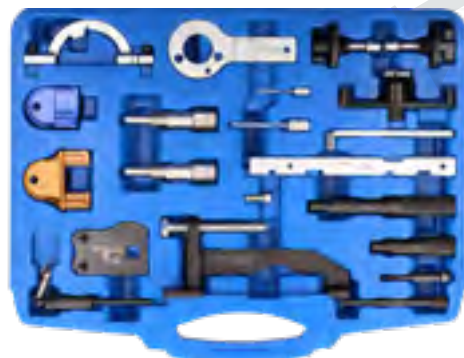
Buick Enclave 3.6, engine code: LY7
 Cadillac SRX, STS, CTS 3.6, engine code: LY7, LLT
 Chevrolet Camaro 2.8, engine code: LTT, LFX
 Opel Insignia 2.8 V6 Turbo, engine code: LAU/A28NER
 Opel Antara 3.2 V6 (from 2007 onwards), engine code: Z32SE
 Saab 9-5 2.8 (2009-2013), engine code: LAU/A28NER

DESCRIPTION

For adjusting and checking the engine timing

DELIVERY SCOPE

Camshaft adjustment tools, use as OEM EN-48383-1, EN-48383-2, EN-48383-3
 Flywheel locking tools, use as OEM EN-46106
 Crankshaft turning tool, use as OEM EN-46111



SUITABLE FOR:

ART.NR	ITEM NAME
BT594350	Engine adjustment tool for Opel

FOR THE FOLLOWING MODELS

Opel Agila, Astra, Corsa, Frontera, Meriva, Omega, Signum, Sintra, Speedster, Tigra, Vectra, Zafira

ENGINE CODES

X10XE, X12XE, Z10XE, Z12XE, Z10XEP, Z12XEP, Z14XEP, X14XE, X16XEL, X16SEJ, X18E1, X18XE1, Y16XE, Z14XE, Z16XE, Z18XE, 18XEL, X18XE, C20SEL, X20XEV, Z20LET, X22XE, Y22XE, Z22XE, Z13DT, X20DTL, X20DTH, Y20DTL, Y20DTH, X22DTH, Y22DTH, Y22DTR, Z19DT, Z19DTH

DESCRIPTION

For adjusting and checking the engine timing



SUITABLE FOR:

ART.NR	ITEM NAME
BT591030	Engine adjustment tool set for VAG

FOR THE FOLLOWING MODELS

Audi A3 1.8 Turbo (AGN AGU AJQ APG APP AQA ARX ARY ARZ AUM AUQ) 1996-2003, A3 1.6 FSI (BAG) 2003-2006, S3 1.8 Turbo (AMK APY BAM) 1996, A4 1.8 Turbo (ADR AEB AJL AJP ANB APU AVJ AWT) 1994-2006, A6 1.8 Turbo (ADR AEB AJL AJP ANB APU AVJ AWT) 1994-2006, Cabriolet 1.8 (ADR) 1997-2000, TT 1.8 Turbo (AJQ APP APX AUM AUQ BAM) 1998-2006
 Volkswagen Beetle 1.8 Turbo (AVC) 1999-2006, Touran 1.6 FSI (BAG BLP) 2003-2007, Golf 1.8 Turbo (AGN AGU AQA ARZ AUM AUQ) 1997-2005, Bora 1.8 Turbo (AGN AGU AQA ARZ AUM AUQ) 1997-2005, Passat 1.8 Turbo (ADR AEB ANB APT APU ARG AWT) 1996-2005, Sharan 1.8 Turbo (AJH AWC) 1997-2007
 Škoda Octavia 1.8 FSI Turbo (AGN AGU ARX ARZ AUM) 1996-2005, Octavia 1.8 Turbo 20V RS (AUQ) 2000-2006, Octavia 1.6 FSI (BLF) 2004-2007

DESCRIPTION

Suitable for 1.8 L turbo and 1.6 L FSI engines

DELIVERY SCOPE

Counter support for crankshaft, use as OEM 3036
 Camshaft fixing tool, use as OEM T10171
 Counter support for drive sprockets of oil pump gear, camshaft, vibration damper, use as OEM T10172
 Adapter pieces for counter support, use as OEM T10172
 Chain tensioner bracket for installation and removal of the chain tensioner, use as OEM T20018, 3366
 Tension roller element fixing pin, use as OEM T40011



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SUITABLE FOR:

ART.NR	ITEM NAME
BT597500	Engine adjustment tool for VAG 1.2, 1.4, 1.6 FSI, 1.4 TSI

FOR THE FOLLOWING MODELS

Audi A1, A3, A3 Sportback, A3 Cabriolet
 Seat Altea, Altea XL, Ibiza, Ibiza Sport Coupe, Leon, Toledo
 Škoda Fabia, Fabia, Octavia, Rapid, Roomster, Yeti
 VW New Beetle, Caddy, Golf, Golf Plus, Golf Cabriolet, Golf Variant, Jetta, Polo, Touran

ENGINE CODES

AXU, BAG, BKG, BLF, BLN, BLP, BMY, BTS, BLG, BWK, CAVA, CAVB, CAVC, CAVD, CAVF, CAXA, CAXC, CDGA

DESCRIPTION

For adjusting and checking the engine timing

DELIVERY SCOPE

Camshaft locking device, use as OEM T10171
 Dial gauge, use as OEM T10170 (dial gauge holder with 274 mm total length, exterior thread M14 x 1.25 mm)
 Crankshaft interlock, use as OEM T10340
 Hydraulic tensioner interlock, use as OEM T40011 (8 mm tension shaft)
 Precision dial gauge for locating the piston OT (resolution: 0.01 mm / measuring range: 0-8 mm / diameter: 41 mm)
 2x crankshaft wheel locking pin, use as OEM T10341 (two guide bolts with 135 mm length, 24 mm long exterior thread M8 x 1.25 mm, reciprocal external hex with 6 mm width between flats)
 Camshaft interlock, use as OEM T10414



ART.NR	ITEM NAME
BT591070	Engine adjustment tool set for VAG 1.6, 2.0 CR TDI

FOR THE FOLLOWING MODELS

Audi A1, A3 (8P), A4 (B8), A5A6 (C6, C7), TT (8J), Q3, Q5
Škoda Fabia II, Roomster, Praktik, Octavia II, Superb II, Yeti
Seat Ibiza (6J), Leon III, Exeo, Altea, Alhambra II

Volkswagen Golf V, VI und Plus, Eos, Polo V Jetta V und VI, Scirocco III, Beetle II, Caddy II, Passat B6, B7 und CC, Touran, Sharan II, T5, Amarok

ENGINE CODES

Engine codes CAYB, CAYC, CBAB, CBBB, CBAA, CFFB, CAGA, CAHA, CAGB, CAHB, CAGC, FCA, CAAA, CAAB, CAAC, CCHA, CAVA, CBAB, CBDA, CBDD, CBAC, CBDA, CBDC, etc.

DESCRIPTION

Contains important tools for checking and adjusting the timing after replacing the toothed belt

Also suitable for earlier pump/nozzle engines

DELIVERY SCOPE

Injection pump interlock, use as OEM T20102, U40074, 3359
Crankshaft interlock, use as OEM T10050, T10100
Ball head hexagon socket 6 mm, use as OEM T10264
2.5 mm tension roller locking pin, use as OEM T10265
3.9mm tension roller locking pin, use as OEM T40098
Toothed belt pulley holding tool, use as OEM T10051
Puller for toothed belt pulley, use as OEM T10052
Oil pump/balance shaft adjustment tool, use as OEM T10255



ART.NR	ITEM NAME
BT561006	Ignition coil extractor for VAG

DESCRIPTION

For pulling off ignition coils on VAG models from year of construction 2013

Pin-shaped for insertion into the ignition coil fixing hole

4-cylinder 1.2, 1.4, 1.8, 2.0 FSI, TFSI engines, installed in e.g. VW Golf, Audi A3, Seat Leon, Škoda Octavia

Use as OEM T10530



ART.NR	ITEM NAME
BT595850	Camshaft control valve inserts for VAG 1.8, 2.0 TFSI, TSI

DESCRIPTION

For fitting/removal of the 4/3-way central valve of the camshaft adjustment

Suitable for 1.8, 2.0 L 4-cylinder fuel injection and direct injection engines with timing chain, installed in the following models:

Audi A3, A4, A5, Q5, TT, Seat Altea, Leon, Toledo, Exeo, Škoda Octavia II, Superb II, Yeti, Volkswagen Eos, Golf, Jetta, Passat, Scirocco, Sharan, Tiguan



ART.NR	ITEM NAME
BT595800	Engine adjustment tool set for Volkswagen 1.2

DELIVERY SCOPE

Can also be used as a replacement for Art. BT597800
Use as OEM T10123



ART.NR	ITEM NAME
BT597800	Engine adjustment tool set for VAG

FOR THE FOLLOWING MODELS

1.9L, 2.0L TDI pump/nozzle

1.9L TDI, 2.5L V6-TDI, 3.3L V8-TDI

1.2L 3-cylinder and 1.4, 1.6L petrol engines

ENGINE CODES

OE-Code Audi: 2065A, T10008, T10016, T10020, T10050, T10060A, T10098, T10100, T10120, T10121, T10264, T10265, T40011, 2064, 3242, 3359, 3366, 3369, 3418, 3458, T10123

OE-Code Seat: 2065A, T10008, T10016, T10020, T10050, T10060A, T10098, T10100, T10120, T10121, T10264, T10265, T40011, 2064, 3242, 3359, 3366, 3369, 3418, 3458, T10123

OE-Code Škoda: 2065A, T10008, T10016, T10020, T10050, T10060A, T10098, T10100, T10120, T10121, T10264, T10265, T40011, 2064, 3242, 3359, 3366, 3369, 3418, 3458, T10123

OE-Code Volkswagen: 2065A, T10008, T10016, T10020, T10050, T10060A, T10098, T10100, T10120, T10121, T10264, T10265, T40011, 2064, 3242, 3359, 3366, 3369, 3418, 3458, T10123

DELIVERY SCOPE

Camshaft adjustment gauge (e.g. VW 1.9 I TDI)
Toothed belt pulley interlock tool (e.g. VW, Škoda 1.9L, 2.0L TDI pump/nozzle)
Camshaft interlock tool (e.g. VW, Audi 2.5L V6 TDI)
3-way adjustable toothed belt tension roller spanner (universal, for VW, Audi)
Interlock mandrel for injection pump wheel (e.g. VW, Audi, Seat, Škoda amongst others)
Retaining plate for toothed belt tensioning device (VW, Škoda 4-cylinder TDI pump/nozzle)
Open plug-in unit SW22 for assembly and disassembly of diesel injection nozzles
Camshaft adjustment tools, use as OEM T10123, T10120, 3458, 3418, 2065A, 3366, T10098, 3418
Crankshaft adjustment tools, use as OEM T10121, 3242, T10050, T10100
Tensioning roller interlock tools, use as OEM T10060A, T10020, T10008, T40011
Injection pump interlock tools, use as OEM 3359, 2064

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ART.NR	ITEM NAME
BT596004	Tensioning spanner for VAG

DESCRIPTION
For adjusting the tensioner pulley Use as OEM T10020



ART.NR	ITEM NAME
BT596003	Cam shaft arresting tool

FOR THE FOLLOWING MODELS
VAG 1.4i, 1.6i 16V

ENGINE CODES
ARC, AUB, AUA, AUS, APE, ATN, AVY, AFK, AHW, APE, AGQ, AJV, AKG, AZD

DESCRIPTION
For adjusting the camshaft e.g. when replacing the toothed belt Use as OEM T10016



ART.NR	ITEM NAME
BT596005	Tension pulley spanner, bi-hexagonal, SW 32 mm

FOR THE FOLLOWING MODELS
Audi 100 from 1991 onwards, A4, A6 2.5 TDI 5-cylinder VW Polo Diesel, Lupo from 1999 onwards, LT and T4 2.5 TDI

DESCRIPTION
For actuating the automatic tension roller while replacing the toothed belt



ART.NR	ITEM NAME
BT595700	Camshaft locking tool set for VAG, Ford, Opel, Saab

DESCRIPTION
Universal set for a wide range of models

DELIVERY SCOPE

Camshaft interlock for Opel Calibra, Omega, Sintra, Vectra -1.8, 2.0, use as OEM KM-852, 18G1570

Camshaft interlock for Opel Calibra, Omega, Sintra, Vectra -1.4, 1.6, use as OEM KM-853

Right camshaft with Saab 900, 900 -2.5, 3.0, Opel Calibra, Sintra, Vectra -2.5, 3.0, use as OEM KM-800-2

Left camshaft with Saab 900.900 -2.5, 3.0, Opel Calibra, Sintra, Vectra -2.5, 3.0, use as OEM KM-800-1

Crankshaft toothed belt pulley interlock tool for TDI pump-injection engines with VW, Audi, Škoda, Seat and Ford, use as VAG T10050

Flywheel interlock tools for Citroën, Fiat and Peugeot, use as OEM 153A, 6012T, 9765.54

Flywheel holder unit for Isuzu 1.5 and 1.7 diesel, Opel 1.6, 1.7 diesel engines, Opel 1.2, 1.4, 1.6, 1.8, 2.0 OHC petrol engines, use as OEM KM-517-B



ART.NR	ITEM NAME
BT596006	Camshaft sprocket locking tool for VAG 1.0

FOR THE FOLLOWING MODELS
Seat Mii 1.0 (3-cylinder) Škoda Citigo 1.0 (3-cylinder) Volkswagen Up 1.0 (3-cylinder)

DESCRIPTION
For locking the camshafts in the adjustment position Needed when checking and adjusting the engine timing Use as OEM T10476



ART.NR	ITEM NAME
BT546004	crankshaft sealing ring assembly tool for VAG 1.4 and 1.6 16V

FOR THE FOLLOWING MODELS

Seat Arosa, Ibiza, Cordoba, Leon, Toledo, Inca

Škoda Fabia, Octavia, Roomster

VW Lupo, Polo, Golf, Bora, Beetle, Caddy

ENGINE CODES

CHYA, CHYB, CPGA

DESCRIPTION

For fitting the radial sealing ring on the transmission

Attempting to fit the sealing ring without this tool may lead to leaks, destruction of the new sealing ring, and poor engine running

Suitable for VAG vehicles with 1.4 and 1.6 16V engines

Use as OEM T10017



ART.NR	ITEM NAME
BT596002	Universal camshaft wheel puller

DESCRIPTION

For pulling the pulley and camshaft gear

Gripping arms are connected with each other via adjusting disk, thus the gripping arms can be set easily and exactly

Continuous adjustment range of the gripping arms from 42 - 82 mm

Gripping arm depth is 27 mm

DELIVERY SCOPE

3 x gripping arms, Ø 12 mm, M10 x 1.5, suitable for material thickness up to max. 10 mm

6-groove puller body with adjusting disc

Spindle, M14 x 1.5, 19 mm hex, with centring cone



ART.NR	ITEM NAME
BT591260	Camshaft sprocket locking tool set, universal

FOR THE FOLLOWING MODELS

Can be used universally on vehicles from the following manufacturers: Audi, Alfa Romeo, Chrysler, Citroën, Ford, Honda, Hyundai, Isuzu, Land Rover, Lexus, Mazda, Mitsubishi, Peugeot, Renault, MG, Seat, Škoda, Subaru, Toyota, Opel, Volkswagen, Volvo

DESCRIPTION

For locking the camshaft sprockets e.g. when replacing the toothed belt

Suitable for engines with 1, 2 and 4 camshafts (V engines); also suitable for locking between the camshaft sprocket and diesel injection pump wheel in some diesel engines

DELIVERY SCOPE

Double camshaft locking tool with short and long connecting arm

Single camshaft locking tool with short and long locking screw



ART.NR	ITEM NAME
BT591090	Camshaft adjustment tool set for VAG

FOR THE FOLLOWING MODELS

Camshaft adjustment tool, use as OEM T10504

Camshaft adjustment pin, use as OEM T10504/1

Camshaft testing pin, use as OEM T10504/2

DESCRIPTION

For fixing the camshafts in place when checking and adjusting the valve timing

Suitable for 1.2, 1.4 TSi, TFSi engines with active cylinder management ACT or COD

Engine codes: CPTA, CZEA

Installed in e.g. the following models: Audi A1 (2013-), A3 (2013-), G3 (2014-), Volkswagen Passat (2012), Golf (2012-), Polo (2015-), Seat Leon (2014-), Ibiza (2013-), Škoda Superb (2015-)



ART.NR	ITEM NAME
BT591094	Crankshaft locking tool for VAG 1.4, 1.6, 2.0 TDI (EA288)

FOR THE FOLLOWING MODELS

For the following vehicles: 1.4 TDI Audi A1, 1.4 TDI Seat Ibiza, Toledo IV, 1.4 TDI Škoda Fabia III, Rapid (2012), 1.4 TDI VW Polo V, 1.6 TDI Audi A1, A3 8V, A4 B9, Q2, o 1.6 TDI Seat Leon III, Toledo IV, Ateca, 1.6 TDI Škoda, Octavia III, Rapid (2012), Superb III, Karoq, o 1.6 TDI VW Beetle, Golf VII, Jetta VI, Tiguan, Touran II, T-Roc, Passat B8, CC, Scirocco III, 2.0 TDI Audi A3 8V, A4 B9, Q2, 2.0 TDI Seat Leon III, Ateca, Alhambra II, 2.0 TDI Škoda Octavia III, Superb III, Kodiaq, Karoq, 2.0 TDI VW Beetle, Golf VII, Jetta VI, Tiguan, Tiguan II, Touran II, T-Roc, Sharan II, Passat B8, CC, Scirocco III, Arteon, T6, Caddy, Crafter, Amarok

DESCRIPTION

For adjusting and locking the crankshaft e.g. when working on the camshaft drive or replacing the cylinder head seal

Suitable for: TDI common rail engines in the EA288 series

Use as OEM T10490



ART.NR	ITEM NAME
BT596015	Timing chain tension lever for VAG 1.8, 2.0 TFSi

FOR THE FOLLOWING MODELS

Audi A3, A3 Cabrio, TT, Q3

Seat Alhambra, Altea Free Track, Exeo, Leon FR, Toledo

Škoda Octavia II, Superb III (3T), Yeti

Volkswagen Eos, Golf VII, Passat (B6), Passat CC, Passat Variant, Sharan, Beetle, Scirocco, Tiguan

ENGINE CODES

Engine codes: (1.8 L engines): CDAA, CDHA, CDHB, CJEB, CDAB, CGYA

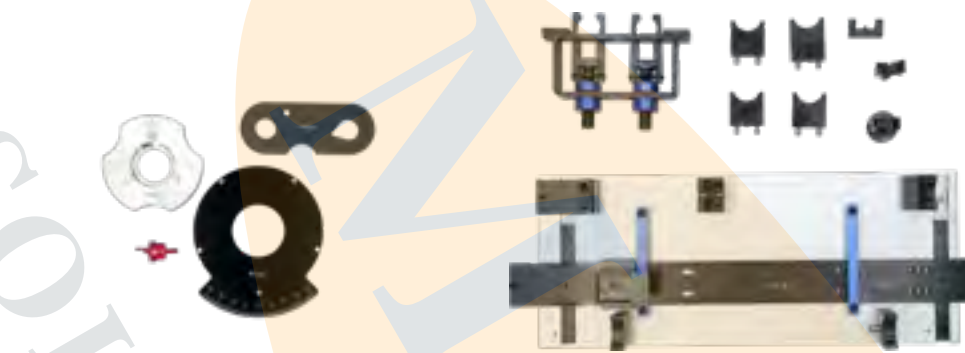
Engine codes (2.0 L engines): CCZA, CDNB, CDNC, CFKA, CCZC, CPSA, CESA, CETA, CCZB, CDND, CCZD

DESCRIPTION

For pushing back the timing chain tensioner without removing the front engine cover

Needed when replacing the timing chain





ART.NR	ITEM NAME
BT595910	Timing chain test tool set for VAG 1.2, 1.4 TFSi

FOR THE FOLLOWING MODELS

Audi: A1 (2012-2015), A1 Sportback (2012-2015), A3 (2013-2015), A3 (2013-2015), A3 Sportback (2012-2015)

Seat: Ibiza (2012-2017), Leon (2012-2015), Toledo (2012-2017)

Škoda: Fabia II (2010-2015), Fabia III (2014-2017), Octavia II (2010-2013), Octavia III (2010-2015), Praktik (2010-2015), Roomster (2010-2015), Rapid (2015-2017)

Volkswagen: Golf VI & VII (2008-2015), Golf VII Kombi (2008-2017), Jetta (2012-2017), Polo (2012-2017), Sportsvan (2014-2017)

DESCRIPTION

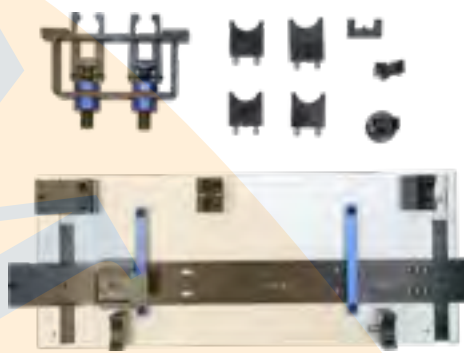
For checking the timing chain elongation on VAG 1.2 and 1.4L TFSi engines

Prevents costly repairs at a later stage due to the timing chain slipping

DELIVERY SCOPE

Timing chain test tool set, use as OEM T10550

Comprises the following tools: Camshaft fixing tool, use as OEM T10550/1; indicator, use as OEM T10550/2; scale sleeve with crankshaft pulley plate, use as OEM T10550/3



ART.NR	ITEM NAME
BT595920	Camshaft assembly tool set for VAG and Porsche

FOR THE FOLLOWING MODELS

Suitable for the following diesel vehicles (TDI CR) from 2003 onwards: Audi, Porsche, Seat, Škoda, Volkswagen with 1.2, 1.6, 2.0, 2.7, 3.0, 4.0, 4.2 common rail engines

ENGINE CODES

Engine codes: ASB, ASE, BKN, BKS, BMK, BNG, BPP, BSG, BTR, BUG, BUN, BVN, CAAA, CAAB, CAAC, CAAD, CAEE, CAGA, CAGB, CAGC, CAHA, CAHB, CAMA, CAMB, CANA, CANB, CANC, CAND, CAPA, CARA, CASA, CASB, CASC, CASD, CATA, CAYA, CAYB, CAYC, CAYD, CAYE, CBAA, CBAB, CBAC, CBBA, CBBB, CBDA, CBDG, CBDC, CCFA, CCFC, CCHA, CCHB, CCLA, CCMA, CCWA, CCWB, CDBA, CDCA, CDSB, CDTA, CDTB, CDUC, CDUD, CDYA, CDYB, CDYC, CEGA, CEXA, CFCA, CFFA, CFFB, CFFD, CFFE, CFGB, CFGC, CFGD, CFHA, CFHB, CFHC, CFHD, CFHE, CFHF, CFJA, CFWA, CGKA, CGKB, CGLA, CGLB, CGLC, CGLD, CGLE, CGGB, CJAA, CJCA, CJCB, CJCC, CJCD, CJGA, CJGC, CJGD, CJMA, CKDA, CKTB, CKTC, CKUB, CKUC, CKVB, CKVC, CLAA, CLAB, CLCA, CLCB, CLJA, CLLA, CLNA, CLZB, CMEA, CMFA, CMFB, CMGB, CMHA, CNEA, CNFA, CNRB, CRCA, CSHA, M05/9D (CAS), M05/9E, M05/9E (CRCA), M05/9E (CRCB)

DESCRIPTION

For installing the camshafts in the correct position

Needed when installing new or existing camshafts; attempting installation without this tool may lead to damage on the camshaft bearing bridge and the cylinder head

DELIVERY SCOPE

Mounting device including pre-assembled parts, use as OEM T40094

Camshaft clamp, use as OEM T40095

2 alignment clamps, use as OEM T40096, T40096/1

4 camshaft brackets for mounting device, use as OEM T40094/1, T40094/2, T40094/9, T40094/10

Interlock for camshaft bracket, use as OEM T40094/11



ART.NR	ITEM NAME
BT597150	Engine adjustment tool set for VAG 1.4, 1.6, 1.9, 2.0 SDI, TDI

FOR THE FOLLOWING MODELS

Audi A2 1.4 TDI (2002, 2006), A3 1.9, 2.0 TDI (2002, 2008), A4 1.6 TDI (2002, 2005), A4 1.9, 2.0 TDI (2004, 2008) Engine codes: AMF, ASZ, ATD, AVB, AVF, AVWX, AXR, AZV, BHC, BKC, BKD, BKE, BLB, BMN, BNA, BPW, BRB, BRC, BRD, BRE, BUY, BVA, BVF, BVG

Seat Altea 1.9 SDI, TDI (2005, 2008), Leon 1.9, 2.0 TDI (2005, 2008), Toledo 1.9 SDI, TDI (2005, 2008) Engine codes: BJB, BKC, BLS, BMM, BXE

Škoda Fabia 1.4 TDI (2003, 2006), Octavia II 2.0 TDI (2003, 2006), Engine codes: AMF, AZV, BKD

Volkswagen Beetle 1.9 TDI (2002, 2008), Bora 1.9 TDI (2002, 2008), Fox 1.4 TDI (2002, 2008), Golf 1.9, 2.0 TDI (2002, 2008), Lupo 1.4 TDI (2002, 2008), Polo 1.4, 1.9 TDI (2002, 2008), Sharan 1.9 TDI (2002, 2008) Engine codes: AJM, AMF, ANU, ARL, ASZ, ATD, AUY, AVB, AVF, AVWX, AXR, BAY, BMS, BNM, BNV, BWV

DESCRIPTION

For adjusting and checking the engine timing when replacing the toothed belt, camshaft etc.

DELIVERY SCOPE

Crankshaft interlock, use as OEM T10100

Pump wheel/camshaft interlock, use as OEM 3359, T20102, 9882, MB995206

Crankshaft interlock, use as OEM T10050, 9883, 310-085, 23-059, MB995209

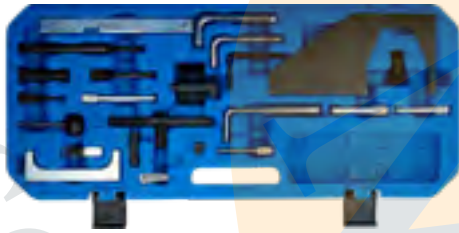
4 mm marking pin, use as OEM T10115, 303-1054, MB995208

Auxiliary belt locking pin, use as OEM T10060A, T40098

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ART.NR	ITEM NAME
BT593100	Engine adjustment tool set for Ford

FOR THE FOLLOWING MODELS

Suitable for the following Ford engines: 1.4, 1.6 16V, 1.7, 1.8 16V, 2.0 16V (including Zetec), 1.4, 1.6, 1.8, 1.9 D/ TD/TDCi

DESCRIPTION

Contains tools for: Locking the flywheel

Locking the crankshaft, pump shaft

Locking the injection pump shaft

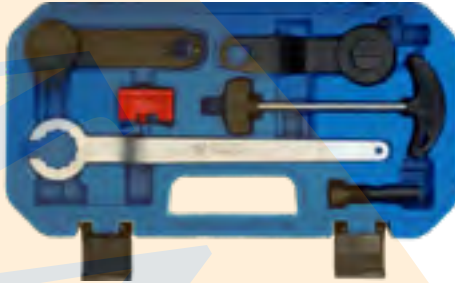
Removing the crankshaft pulley

Tensioning the toothed belt

Adjustment gauge for positioning the camshaft and pump shaft in relation to the crankshaft

Use as OEM 21-162, 21-162B, 303-367, 303-376, 23-059, 310-085, 21-168, 303-393, 23-020, 23-047, 23-020, 21-163, 303-620, 23-019, 21-210, 303-507, 21-251, 303-698, 21-262, 303-734, 23-029, 303-1061, 23-058, 310-084, 21-105, 21-262, 303-734, 21-168, 303-393, 21-263, 303-735, Mazda 49JE01061, Audi 3359, T10008, T10050, 2065A, Seat 3359, T10008, T10050, 2065A, Škoda 3359, T10008, T10050, 2065A, Volkswagen 3359, T10008, T10050, 2065A

ŠKODA



SUITABLE FOR:



ART.NR	ITEM NAME
BT597300	Engine adjustment tool set for VAG 1.0, 1.2, 1.4

FOR THE FOLLOWING MODELS

Suitable for the following VAG (EA211) engines with toothed belt: 1.0 MPI 3-cylinder, engine code CHYA, 1.0 TSI 3-cylinder, engine code CHZE, CHZC, CHZA, CHZB, CHZC, CHZD, CHZJ, 1.2 TSI 4-cylinder, engine code CJZB, CJZC, CYVA, CJZA, CJZD, CYVB, 1.4 TSI 4-cylinder, engine code CZCC, CMBA, CZCA, CHPA, CPTA (with ACT), CZDA, CVNA, CZEA (with ACT)

DESCRIPTION

For adjusting and checking the engine timing

DELIVERY SCOPE

Crankshaft interlock bolt, use as OEM T10340

Camshaft adjustment plate, use as OEM T10477

Camshaft wheel interlock, use as OEM T10476

Tensioning insert spanner, use as OEM T10499

Camshaft adjustment plate, use as OEM T10494

Assembly tool, use as OEM T10487



SUITABLE FOR:



ART.NR	ITEM NAME
BT595850	Camshaft control valve inserts for VAG 1.8, 2.0 TFSI, TSI

DESCRIPTION

For fitting/removal of the 4/3-way central valve of the camshaft adjustment

Suitable for 1.8, 2.0 L 4-cylinder fuel injection and direct injection engines with timing chain, installed in the following models:

Audi A3, A4, A5, Q5, TT, Seat Altea, Leon, Toledo, Exeo, Škoda Octavia II, Superb II, Yeti, Volkswagen Eos, Golf, Jetta, Passat, Scirocco, Sharan, Tiguan



SUITABLE FOR:



ART.NR	ITEM NAME
BT595800	Engine adjustment tool set for Volkswagen 1.2

DELIVERY SCOPE

Can also be used as a replacement for Art. BT597800

Use as OEM T10123



SUITABLE FOR:



ART.NR	ITEM NAME
BT561006	Ignition coil extractor for VAG

DESCRIPTION

For pulling off ignition coils on VAG models from year of construction 2013

Pin-shaped for insertion into the ignition coil fixing hole

Suitable for 4-cylinder 1.2, 1.4, 1.8, 2.0 FSI, TFSI engines, installed in e.g. VW Golf, Audi A3, Seat Leon, Škoda Octavia

Use as OEM T10530



ART.NR	ITEM NAME
BT591030	Engine adjustment tool set for VAG

FOR THE FOLLOWING MODELS

Audi A3 1.8 Turbo (AGN AGU AJQ APG APP AGA ARX ARY ARZ AUM AUG) 1996-2003, A3 1.6 FSI (BAG) 2003-2006, S3 1.8 Turbo (AMK APY BAM) 1996, A4 1.8 Turbo (ADR AEB AJL AJP ANB APU AVJ AWT) 1994-2006, A6 1.8 Turbo (ADR AEB AJL AJP ANB APU AVJ AWT) 1994-2006, Cabriolet 1.8 (ADR) 1997-2000, TT 1.8 Turbo (AJQ APP APX AUM AUG BAM) 1998-2006
Volkswagen Beetle 1.8 Turbo (AVC) 1999-2006, Touran 1.6 FSI (BAG BLP) 2003-2007, Golf 1.8 Turbo (AGN AGU AGA ARZ AUM AUG) 1997-2005, Bora 1.8 Turbo (AGN AGU AGA ARZ AUM AUG) 1997-2005, Passat 1.8 Turbo (ADR AEB ANB APT APU ARG AWT) 1996-2005, Sharan 1.8 Turbo (AJH AWC) 1997-2007
Škoda Octavia 1.8 FSI Turbo (AGN AGU ARX ARZ AUM) 1996-2005, Octavia 1.8 Turbo 20V RS (AUG) 2000-2006, Octavia 1.6 FSI (BLF) 2004-2007

DESCRIPTION

Suitable for 1.8 L Turbo und 1.6L FSI engines

DELIVERY SCOPE

Counter support for crankshaft, use as OEM 3036
Camshaft fixing tool, use as OEM T10171
Counter support for drive sprockets of oil pump gear, camshaft, vibration damper, use as OEM T10172
Adapter pieces for counter support, use as OEM T10172
Chain tensioner bracket for installation and removal of the chain tensioner, use as OEM T20018, 3366
Tension roller element fixing pin, use as OEM T40011



ART.NR	ITEM NAME
BT597500	Engine adjustment tool for VAG 1.2, 1.4, 1.6 FSI, 1.4 TSI

FOR THE FOLLOWING MODELS

Audi A1, A3, A3 Sportback, A3 Cabriolet
Seat Altea, Altea XL, Ibiza, Ibiza Sport Coupe, Leon, Toledo
Škoda Fabia, Fabia, Octavia, Rapid, Roomster, Yeti
VW New Beetle, Caddy, Golf, Golf Plus, Golf Cabriolet, Golf Variant, Jetta, Polo, Touran

ENGINE CODES

AXU, BAG, BKG, BLF, BLN, BLP, BMY, BTS, BLG, BWK, CAVA, CAVB, CAVC, CAVD, CAVF, CAXA, CAXC, CDGA

DESCRIPTION

For adjusting and checking the engine timing

DELIVERY SCOPE

Camshaft locking device, use as OEM T10171
Dial gauge, use as OEM T10170 (dial gauge holder with 274 mm total length, exterior thread M14 x 1.25 mm)
Crankshaft interlock, use as OEM T10340
Hydraulic tensioner interlock, use as OEM T40011 (8 mm tension shaft)
Precision dial gauge for locating the piston OT (resolution: 0.01 mm / measuring range: 0-8 mm / diameter: 41 mm)
2x crankshaft wheel locking pin, use as OEM T10341 (two guide bolts with 135 mm length, 24 mm long exterior thread M8 x 1.25 mm, reciprocal external hex with 6 mm width between flats)
Camshaft interlock, use as OEM T10414



ART.NR	ITEM NAME
BT597000	Engine adjustment tool set for VAG

FOR THE FOLLOWING MODELS

Volkswagen: Polo 1.2 L, 6V, 3-cylinder, engine code AWY, BMD, BBM, Polo 1.2 L, 12V, 3-cylinder, engine code AZQ, BME, BZG, CGPA, CGPB
Škoda: Fabia 1.2 L, 6V, 3-cylinder, engine code AWY, BMD, Fabia 1.2 L, 12V, 3-cylinder, engine code AZQ, BME, BZG, CEVA, CGPA, CGPB, Rapid 1.2 L, 12V, 3-cylinder, engine code CGPC, Roomster 1.2 L, 12V, 3-cylinder, engine code BME, BZG, CGPA, Praktik Rapid 1.2 L, 12V, 3-cylinder, engine code BZG, CGPA
Seat: Ibiza 1.2 L, 12V, 3-cylinder, engine code AZQ, BME, BXV, BZG, CGPA, CGPB, Cordoba 1.2 L, 12V, 3-cylinder, engine code AZQ, BME, BXV

DELIVERY SCOPE

Camshaft interlock, use as OEM T10123
Camshaft interlock, use as OEM T10120
Crankshaft interlock, use as OEM T10121

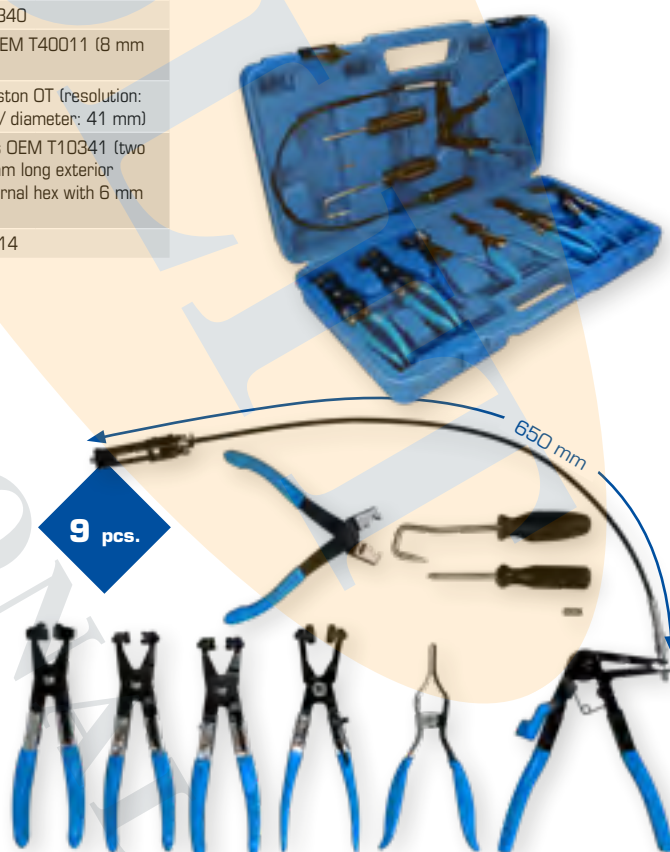


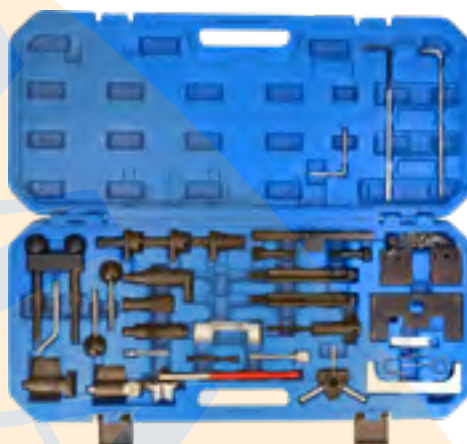
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ART.NR	ITEM NAME
BT591070	Engine adjustment tool set for VAG 1.6, 2.0 CR TDI

FOR THE FOLLOWING MODELS

Audi A1, A3 (8P), A4 (B8), A5A6 (C6, C7), TT (8J), Q3, Q5
 Škoda Fabia II, Roomster, Praktik, Oktavia II, Suberb II, Yeti
 Seat Ibiza (6J), Leon III, Exeo, Altea, Alhambra II
 Volkswagen Golf V, VI und Plus, Eos, Polo V Jetta V und VI, Scirocco III, Beetle II, Caddy II, Passat B6, B7 und CC, Touran, Sharan II, T5, Amarok

ENGINE CODES

Engine codes CAYB, CAYC, CBAB, CBBB, CBAA, CFFB, CAGA, CAHA, CAGB, CAHB, CAGC, FCA, CAAA, CAAB, CAAC, CCHA, CAVA, CBAB, CBDA, CBDD, CBAC, CBDA, CBDC, etc.

DESCRIPTION

Contains important tools for checking and adjusting the timing after replacing the toothed belt
 Also suitable for earlier pump/nozzle engines

DELIVERY SCOPE

Injection pump interlock, use as OEM T20102, U40074, 3359
 Crankshaft interlock, use as OEM T10050, T10100
 Ball head hexagon socket 6 mm, use as OEM T10264
 2.5 mm tension roller locking pin, use as OEM T10265
 3.9mm tension roller locking pin, use as OEM T40098
 Toothed belt pulley holding tool, use as OEM T10051
 Puller for toothed belt pulley, use as OEM T10052
 Oil pump/balance shaft adjustment tool, use as OEM T10255



ART.NR	ITEM NAME
BT597800	Engine adjustment tool set for VAG

FOR THE FOLLOWING MODELS

1.9L, 2.0L TDI pump/nozzle
 1.9L TDI, 2.5L V6-TDI, 3.3L V8-TDI
 1.2L 3-cylinder and 1.4, 1.6L petrol engines

ENGINE CODES

OE-Code Audi: 2065A, T10008, T10016, T10020, T10050, T10060A, T10098, T10100, T10120, T10121, T10264, T10265, T40011, 2064, 3242, 3359, 3366, 3369, 3418, 3458, T10123

OE-Code Seat: 2065A, T10008, T10016, T10020, T10050, T10060A, T10098, T10100, T10120, T10121, T10264, T10265, T40011, 2064, 3242, 3359, 3366, 3369, 3418, 3458, T10123

OE-Code Škoda: 2065A, T10008, T10016, T10020, T10050, T10060A, T10098, T10100, T10120, T10121, T10264, T10265, T40011, 2064, 3242, 3359, 3366, 3369, 3418, 3458, T10123

OE-Code Volkswagen: 2065A, T10008, T10016, T10020, T10050, T10060A, T10098, T10100, T10120, T10121, T10264, T10265, T40011, 2064, 3242, 3359, 3366, 3369, 3418, 3458, T10123

DELIVERY SCOPE

Camshaft adjustment gauge (e.g. VW 1.9 l TDI)
 Toothed belt pulley interlock tool (e.g. VW, Škoda 1.9L, 2.0L TDI pump/nozzle)
 Camshaft interlock tool (e.g. VW, Audi 2.5L V6 TDI)
 3-way adjustable toothed belt tension roller spanner (universal, for VW, Audi)
 Interlock mandrel for injection pump wheel (e.g. VW, Audi, Seat, Škoda amongst others)
 Retaining plate for toothed belt tensioning device (VW, Škoda 4-cylinder TDI pump/nozzle)
 Open plug-in unit SW22 for assembly and disassembly of diesel injection nozzles
 Camshaft adjustment tools, use as OEM T10123, T10120, 3458, 3418, 2065A, 3366, T10098, 3418
 Crankshaft adjustment tools, use as OEM T10121, 3242, T10050, T10100
 Tensioning roller interlock tools, use as OEM T10060A, T10020, T10008, T40011
 Injection pump interlock tools, use as OEM 3359, 2064



ART.NR	ITEM NAME
BT596004	Tensioning spanner for VAG

DESCRIPTION

For adjusting the tensioner pulley
 Use as OEM T10020



ART.NR	ITEM NAME
BT596003	Cam shaft arresting tool

FOR THE FOLLOWING MODELS

VAG 1.4I, 1.6I 16V

ENGINE CODES

ARC, AUB, AJA, AUS, APE, ATN, AVY, AFK, AHW, APE, AQQ, AJV, AKQ, AZD

DESCRIPTION

For adjusting the camshaft e.g. when replacing the toothed belt
 Use as OEM T10016



ART.NR	ITEM NAME
BT596005	Tension pulley spanner, bi-hexagonal, SW 32 mm

FOR THE FOLLOWING MODELS

Audi 100 from 1991 onwards, A4, A6 2.5 TDI 5-cylinder
 VW Polo Diesel, Lupo from 1999 onwards, LT and T4 2.5 TDI

DESCRIPTION

For actuating the automatic tension roller while replacing the toothed belt



ART.NR	ITEM NAME
BT595700	Camshaft locking tool set for VAG, Ford, Opel, Saab

DESCRIPTION
Universal set for a wide range of models

DELIVERY SCOPE

Camshaft interlock for Opel Calibra, Omega, Sintra, Vectra -1.8, 2.0, use as OEM KM-852, 18G1570

Camshaft interlock for Opel Calibra, Omega, Sintra, Vectra -1.4, 1.6, use as OEM KM-853

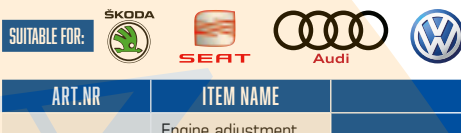
Right camshaft with Saab 900, 900 -2.5, 3.0, Opel Calibra, Sintra, Vectra -2.5, 3.0, use as OEM KM-800-2

Left camshaft with Saab 900.900 -2.5, 3.0, Opel Calibra, Sintra, Vectra -2.5, 3.0, use as OEM KM-800-1

Crankshaft toothed belt pulley interlock tool for TDI pump-injection engines with VW, Audi, Škoda, Seat and Ford, use as VAG T10050

Flywheel interlock tools for Citroën, Fiat and Peugeot, use as OEM 153A, 6012T, 9765.54

Flywheel holder unit for Isuzu 1.5 and 1.7 diesel, Opel 1.6, 1.7 diesel engines, Opel 1.2, 1.4, 1.6, 1.8, 2.0 OHC petrol engines, use as OEM KM-517-B



ART.NR	ITEM NAME
BT595900	Engine adjustment tool set for VAG 1.2 TSI, TFSI

FOR THE FOLLOWING MODELS

VAG 1.2 TSI, TFSI with engine codes CBZA, CBZB, CBZC

Audi models A1 and A3

VW New Beetle, Caddy, Golf, Jetta, Polo, Touran

Škoda Fabia II, Octaviail, Praktik, Rapid, Roomster, Yeti

Seat Altea, Ibiza, Leon, Toledo

DESCRIPTION
For locking the camshaft and crankshaft while changing the timing chain, replacing the cylinder head seal etc.

DELIVERY SCOPE

Crankshaft lock, use as OEM T10340

Camshaft interlock, use as OEM T10414

Guide bolt, use as OEM-T10341



ART.NR	ITEM NAME
BT671900	front axle transverse link bush tool for VAG

FOR THE FOLLOWING MODELS

Seat Cordoba III (from 2003), Skoda Fabia (from 2000), VW Polo IV (from 2002)

DESCRIPTION
For disassembly/assembly of the rear bush at the lower front axle transverse link
Suitable for application on the vehicle without disassembly of the transverse link
Spindle nut with 24 mm hex



ART.NR	ITEM NAME
BT596006	Camshaft sprocket locking tool for VAG 1.0

FOR THE FOLLOWING MODELS

Seat Mii 1.0 (3-cylinder)

Škoda Citigo 1.0 (3-cylinder)

Volkswagen Up 1.0 (3-cylinder)

DESCRIPTION
For locking the camshafts in the adjustment position
Needed when checking and adjusting the engine timing
Use as OEM T10476



ART.NR	ITEM NAME
BT546004	crankshaft sealing ring assembly tool for VAG 1.4 and 1.6 16V

FOR THE FOLLOWING MODELS

Seat Arosa, Ibiza, Cordoba, Leon, Toledo, Inca

Škoda Fabia, Octavia, Roomster

VW Lupo, Polo, Golf, Bora, Beetle, Caddy

ENGINE CODES
CHYA, CHYB, CPGA

DESCRIPTION
For fitting the radial sealing ring on the transmission
Attempting to fit the sealing ring without this tool may lead to leaks, destruction of the new sealing ring, and poor engine running
Suitable for VAG vehicles with 1.4 and 1.6 16V engines
Use as OEM T10017



ART.NR	ITEM NAME
BT591260	Camshaft sprocket locking tool set, universal

FOR THE FOLLOWING MODELS

Can be used universally on vehicles from the following manufacturers: Audi, Alfa Romeo, Chrysler, Citroën, Ford, Honda, Hyundai, Isuzu, Land Rover, Lexus, Mazda, Mitsubishi, Peugeot, Renault, MG, Seat, Skoda, Subaru, Toyota, Opel, Volkswagen, Volvo

DESCRIPTION

For locking the camshaft sprockets e.g. when replacing the toothed belt

Suitable for engines with 1, 2 and 4 camshafts (V engines); also suitable for locking between the camshaft sprocket and diesel injection pump wheel in some diesel engines

DELIVERY SCOPE

Double camshaft locking tool with short and long connecting arm

Single camshaft locking tool with short and long locking screw



ART.NR	ITEM NAME
BT591090	Camshaft adjustment tool set for VAG

FOR THE FOLLOWING MODELS

Camshaft adjustment tool, use as OEM T10504

Camshaft adjustment pin, use as OEM T10504/1

Camshaft testing pin, use as OEM T10504/2

DESCRIPTION

For fixing the camshafts in place when checking and adjusting the valve timing

Suitable for 1.2, 1.4 TSi, TFSi engines with active cylinder management ACT or COD

Engine codes: CPTA, CZE4

Installed in e.g. the following models: Audi A1 (2013-), A3 (2013-), Q3 (2014-), Volkswagen Passat (2012), Golf (2012-), Polo (2015-), Seat Leon (2014-), Ibiza (2013-), Skoda Superb (2015-)



ART.NR	ITEM NAME
BT597050	Engine adjustment tool set for Audi, VW V6 TDI

FOR THE FOLLOWING MODELS

Volkswagen Passat 2.5 V6 TDI

Audi A4 2.5 V6 TDI

Audi A6 2.5 V6 TDI

Audi A8 2.5 V6 TDI

Škoda Superb 2.5 V6 TDI

ENGINE CODES

Engine code: AFB, AKN, AKE, AYM, BAU, BCZ, BDG, BDH, BFC

DESCRIPTION

For locking the crankshaft/camshaft, and for carrying out work on the engine control, e.g. replacing the toothed belt, removing the cylinder heads etc.

DELIVERY SCOPE

Crankshaft fixing mandrel, use as OEM 3242

Camshaft interlock plates, use as OEM 3458



ART.NR	ITEM NAME
BT596015	Timing chain tension lever for VAG 1.8, 2.0 TFSi

FOR THE FOLLOWING MODELS

Audi A3, A3 Cabrio, TT, Q3

Seat Alhambra, Altea Free Track, Exeo, Leon FR, Toledo

Škoda Octavia II, Superb III (3T), Yeti

Volkswagen Eos, Golf VII, Passat (B6), Passat CC, Passat Variant, Sharan, Beetle, Scirocco, Tiguan

ENGINE CODES

Engine codes (1.8 L engines): CDAA, CDHA, CDHB, CJEB, CDAB, CGYA

Engine codes (2.0 L engines): CCZA, CDNB, CDNC, CFKA, CCZC, CPSA, CESA, CETA, CCZB, CDND, CCZD

DESCRIPTION

For pushing back the timing chain tensioner without removing the front engine cover

Needed when replacing the timing chain



ART.NR	ITEM NAME
BT597806	Crankshaft fixing tool for VAG 6-cylinder and 8-cylinder for Art. BT597800

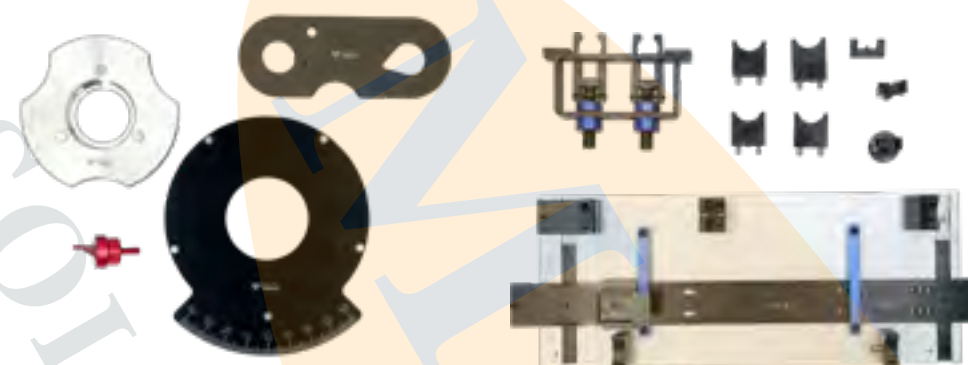
DELIVERY SCOPE

Suitable for VW and Audi models with V6 TDI and V8 engines

For adjusting the crankshaft

Use as OEM 3242

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ART.NR	ITEM NAME
BT595910	Timing chain test tool set for VAG 1.2, 1.4 TFSi

FOR THE FOLLOWING MODELS

Audi: A1 (2012-2015), A1 Sportback (2012-2015), A3 (2013-2015), A3 (2013-2015), A3 Sportback (2012-2015)

Seat: Ibiza (2012-2017), Leon (2012-2015), Toledo (2012-2017)

Škoda: Fabia II (2010-2015), Fabia III (2014-2017), Octavia II (2010-2013), Octavia III (2010-2015), Praktik (2010-2015), Roomster (2010-2015), Rapid (2015-2017)

Volkswagen: Golf VI & VII (2008-2015), Golf VII Kombi (2008-2017), Jetta (2012-2017), Polo (2012-2017), Sportsvan (2014-2017)

DESCRIPTION

For checking the timing chain elongation on VAG 1.2 and 1.4L TFSi engines

Prevents costly repairs at a later stage due to the timing chain slipping

DELIVERY SCOPE

Timing chain test tool set, use as OEM T10550

Comprises the following tools: Camshaft fixing tool, use as OEM T10550/1; indicator, use as OEM T10550/2; scale sleeve with crankshaft pulley plate, use as OEM T10550/3



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ART.NR	ITEM NAME
BT595920	Camshaft assembly tool set for VAG and Porsche

FOR THE FOLLOWING MODELS

Suitable for the following diesel vehicles (TDI CR) from 2003 onwards: Audi, Porsche, Seat, Škoda, Volkswagen with 1.2, 1.6, 2.0, 2.7, 3.0, 4.0, 4.2 common rail engines

ENGINE CODES

Engine codes ASB, ASE, BKN, BKS, BMK, BNG, BPP, BSG, BTR, BUG, BUN, BVN, CAAA, CAAB, CAAC, CAAD, CAAE, CAGA, CAGB, CAGC, CAHA, CAHB, CAMA, CAMB, CANA, CANB, CANC, CAND, CAPA, CARA, CASA, CASB, CASC, CASD, CATA, CAYA, CAYB, CAYC, CAYD, CAYE, CBAA, CBAB, CBAC, CBBA, CBBB, CBDA, CBDB, CBDC, CCFA, CCFC, CCHA, CCHB, CCLA, CCMA, CCWA, CCWB, CDBA, CDCA, CDSB, CDTA, CDTB, CDUC, CDUD, CDYA, CDYB, CDYC, CEGA, CEJA, CFCA, CFFA, CFFB, CFFD, CFFE, CFGB, CFGC, CFGD, CFHA, CFHB, CFHC, CFHD, CFHE, CFHF, CFJA, CFWA, CGKA, CGKB, CGLA, CGLB, CGLC, CGLD, CGLE, CGGB, CJAA, CJCA, CJCB, CJCC, CJCD, CJGA, CJGC, CJGD, CJMA, CKDA, CKTB, CKTC, CKUB, CKUC, CKVB, CKVC, CLAA, CLAB, CLCA, CLCB, CLJA, CLLA, CLNA, CLZB, CMEA, CMFA, CMFB, CMGB, CMHA, CNEA, CNFA, CNRB, CRCA, CSHA, M05/9D (CAS), M05/9E, M05/9E (CRCA), M05/9E (CRCB)

DESCRIPTION

For installing the camshafts in the correct position

Needed when installing new or existing camshafts; attempting installation without this tool may lead to damage on the camshaft bearing bridge and the cylinder head

DELIVERY SCOPE

Mounting device including pre-assembled parts, use as OEM T40094

Camshaft clamp, use as OEM T40095

2 alignment clamps, use as OEM T40096, T40096/1

4 camshaft brackets for mounting device, use as OEM T40094/1, T40094/2, T40094/9, T40094/10

Interlock for camshaft bracket, use as OEM T40094/11



ART.NR	ITEM NAME
BT593100	Engine adjustment tool set for Ford

FOR THE FOLLOWING MODELS

Suitable for the following Ford engines: 1.4, 1.6 16V, 1.7, 1.8 16V, 2.0 16V (including Zetec), 1.4, 1.6, 1.8, 1.9 D/ TD/TDCi

DESCRIPTION

Contains tools for: Locking the flywheel

Locking the crankshaft, pump shaft

Locking the injection pump shaft

Removing the crankshaft pulley

Tensioning the toothed belt

Adjustment gauge for positioning the camshaft and pump shaft in relation to the crankshaft

Use as OEM 21-162, 21-162B, 303-367, 303-376, 23-059, 310-085, 21-168, 303-393, 23-020, 23-047, 23-020, 21-163, 303-620, 23-019, 21-210, 303-507, 21-251, 303-698, 21-262, 303-734, 23-029, 303-1061, 23-058, 310-084, 21-105, 21-262, 303-734, 21-168, 303-393, 21-263, 303-735, Mazda 49JE01061, Audi 3359, T10008, T10050, 2065A, Seat 3359, T10008, T10050, 2065A, Škoda 3359, T10008, T10050, 2065A, Volkswagen 3359, T10008, T10050, 2065A



ART.NR	ITEM NAME
BT596002	Universal camshaft wheel puller

DESCRIPTION

For pulling the pulley and camshaft gear

Gripping arms are connected with each other via adjusting disk, thus the gripping arms can be set easily and exactly

Continuous adjustment range of the gripping arms from 42 - 82 mm

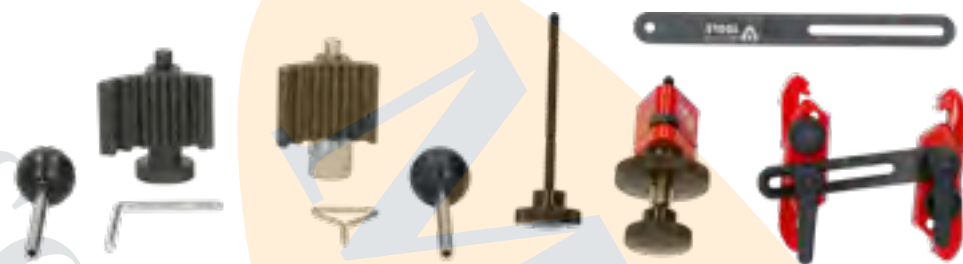
Gripping arm depth is 27 mm

DELIVERY SCOPE

3 x gripping arms, Ø 12 mm, M10 x 1.5, suitable for material thickness up to max. 10 mm

6-groove puller body with adjusting disc

Spindle, M14 x 1.5, 19 mm hex, with centring cone



ART.NR	ITEM NAME
BT597150	Engine adjustment tool set for VAG 1.4, 1.6, 1.9, 2.0 SDI, TDI

FOR THE FOLLOWING MODELS

Audi A2 1.4 TDI (2002, 2006), A3 1.9, 2.0 TDI (2002, 2008), A4 1.6 TDI (2002, 2005), A4 1.9, 2.0 TDI (2004, 2008) Engine codes: AMF, ASZ, ATD, AVB, AVF, AVX, AXR, AZV, BHC, BKC, BKD, BKE, BLB, BMN, BNA, BPW, BRB, BRC, BRD, BRE, BUY, BVA, BVF, BVG

Seat Altea 1.9 SDI, TDI (2005, 2008), Leon 1.9, 2.0 TDI (2005, 2008), Toledo 1.9 SDI, TDI (2005, 2008) Engine codes: BJB, BKC, BLS, BMM, BXE

Škoda Fabia 1.4 TDI (2003, 2006), Octavia 1.4 TDI (2003, 2006), Engine codes: AMF, AZV, BKD

Volkswagen Beetle 1.9 TDI (2002, 2008), Bora 1.9 TDI (2002, 2008), Fox 1.4 TDI (2002, 2008), Golf 1.9, 2.0 TDI (2002, 2008), Lupo 1.4 TDI (2002, 2008), Polo 1.4, 1.9 TDI (2002, 2008), Sharan 1.9 TDI (2002, 2008) Engine codes: AJM, AMF, ANU, ARL, ASZ, ATD, AUJ, AVB, AVF, AVX, AXR, BAY, BMS, BNM, BNV, BWV

DESCRIPTION

For adjusting and checking the engine timing when replacing the toothed belt, camshaft etc.

DELIVERY SCOPE

Crankshaft interlock, use as OEM T10100
Pump wheel/camshaft interlock, use as OEM 3359, T20102, 9882, MB995206
Crankshaft interlock, use as OEM T10050, 9883, 310-085, 23-059, MB995209
4 mm marking pin, use as OEM T10115, 303-1054, MB995208
Auxiliary belt locking pin, use as OEM T10060A, T40098



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ART.NR	ITEM NAME
BT591260	Camshaft sprocket locking tool set, universal

FOR THE FOLLOWING MODELS

Can be used universally on vehicles from the following manufacturers: Audi, Alfa Romeo, Chrysler, Citroën, Ford, Honda, Hyundai, Isuzu, Land Rover, Lexus, Mazda, Mitsubishi, Peugeot, Renault, MG, Seat, Škoda, Subaru, Toyota, Opel, Volkswagen, Volvo

DESCRIPTION

For locking the camshaft sprockets e.g. when replacing the toothed belt

Suitable for engines with 1, 2 and 4 camshafts (V engines); also suitable for locking between the camshaft sprocket and diesel injection pump wheel in some diesel engines

DELIVERY SCOPE

Double camshaft locking tool with short and long connecting arm
Single camshaft locking tool with short and long locking screw

BT521010
EAN 4042146778982
Hose clamp pliers set, straight

3 pcs.



Ø 15 → 60mm

max. Ø 15 mm

max. Ø 30 mm

max. Ø 60 mm



SUBARU



ART.NR	ITEM NAME
BT671050	drive shaft retractor set

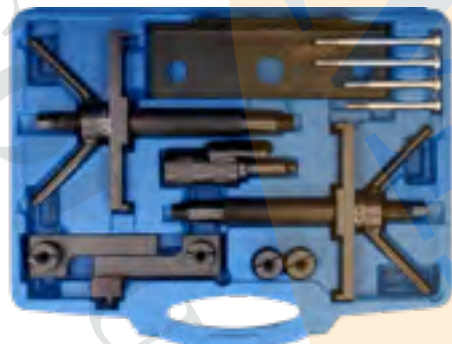
FOR THE FOLLOWING MODELS

M16 x 1.5 mm: for Subaru
M20 x 1.5 mm: for VW Beetle, Touareg, Porsche Cayenne
M22 x 1.5 mm: for BMW E30, E46
M24 x 1.5 mm: for BMW E36, Mercedes W203
M27 x 1.5 mm: for BMW E32, E34, E38, E39, X5
M30 x 1.5 mm: for BMW E32, E34, E36

DESCRIPTION

For pulling the drive shaft into the wheel hub
In a standardised industrial bearing
Contains 6 pulling sleeves with various threads

VOLVO



SUITABLE FOR:

ART.NR	ITEM NAME
BT597850	Engine adjustment tool set for Volvo 4/5/6-cylinder up to 2006

DESCRIPTION

For aligning the camshaft and crankshaft

Makes it possible to align the camshafts correctly, even when the valve cover is fitted

Suitable for 4, 5 and 6-cylinder DOHC engines (not 3.2L) up to 2006 on Volvo models 700, 800, 850, 900, 960, C70, S40, S60, S70, S80, S90, V70 -2000, V70XC, XC70, V90, XC90

DELIVERY SCOPE

Valve lid tool, 2 pcs, use as OEM 9995454

Crankshaft adjustment mandrel, use as OEM 9995452

Camshaft adjustment tool, use as OEM 9995451

Holder, use as OEM 9995453

2x 110 mm and 2x 85 mm screws

SUITABLE FOR:

ART.NR	ITEM NAME
BT597900	Engine adjustment tool set for Volvo T6

FOR THE FOLLOWING MODELS

Suitable for Volvo S80, XC90, XC60, XC70 with 3.0T and 3.2 T6 engine from 2007 onwards

DESCRIPTION

For adjusting and checking the engine timing

DELIVERY SCOPE

Crankshaft lathe tool, use as OEM 9997257, 303-1219

Camshaft adjustment tool, use as OEM 9997261, 303-1223

Tool for assembly and disassembly of the front cover, use as OEM 9997263, 303-1225

Tool for assembly and disassembly of the front cover, use as OEM 9997264, 303-1226

T-profile insert, T60, 12.5 (1/2), use as OEM 9997272

Mounting angle, use as OEM 9997271

Front cover adjustment tool, use as OEM 9997266

Front cover adjustment tool, use as OEM 9997267

SUITABLE FOR:

ART.NR	ITEM NAME
BT594670	Engine adjustment tool set for Renault, Volvo, Ford 16V, 20V petrol

FOR THE FOLLOWING MODELS

Renault Laguna (1996, 1999), Safrane (1996, 2001) with engine codes: N7Q 704, 710, 711 N7U 700, 701

Ford Kuga (from 02/2008 onwards), Focus ST RS (from 07/2004 onwards), S-Max (from 03/2006 onwards), Galaxy (from 03/2006 onwards), Mondeo (from 02/2007 onwards) with engine codes: JZDA, HYDB, HYDC, HUWA

Volvo 850 (1992, 1997), C70 (1998, 2002), S40 (1996, 2004), V40 (1996, 2004), S60 (2001, 2005), S70 (1997, 2000), S80 (1999, 2005) with engine codes: B4164 S/S2, B4184 S/S2/S3/S9/S10, B4194 T/T2, B4204 S/S2/T/T2/T3/T5, B5202 FS, B5204 FT/T2/T3/T4/T5, B5234 T3/T4/T5/T6/T7/T8/T9, B5244 S/S2/S3/S6/T3/T4/T5/T7, B5252 FS, B5254 T/T2/T4

DESCRIPTION

Contains important tools for adjusting the engine timing 1.6, 1.8, 1.9, 2.0, 2.3, 2.4, 2.5L DOHC engines

DELIVERY SCOPE

Camshaft retainer, use as OEM MOT1337, 999-5452, 303-1178

Tension roller key, use as OEM MOT1348

Flywheel retainer, use as OEM MOT1340, 999-5451, 303-1182



BT521015
EAN 4042146779019
Hose clamp pliers set, 90° angled

3 pcs.

Ø 15 → 60mm

max. Ø 15 mm

max. Ø 60 mm

max. Ø 30 mm



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ART.NR	ITEM NAME
BT594650	Engine adjustment tool set for Renault

FOR THE FOLLOWING MODELS

Renault petrol engines 1.4, 1.6, 1.8, 2.0 l, each with 16V technology
Renault petrol engines 2.5 l, 20V with dual camshafts
Renault petrol engines 1.2, 1.4, 1.6, 1.7, 1.8, 2.0, 2.2 l
Renault diesel engines 1.9, 2.5, 2.8 l
Also for Opel Arena, Movano and Volvo V40, S40

DESCRIPTION

Locking the flywheel
Locking the crankshaft, injection pump shaft
Removing the crankshaft pulley
Tensioning the toothed belt
Adjustment gauge for positioning the camshaft and pump shaft in relation to the crankshaft
Use as OEM tools MOT1348, MOT1312, MOT1135 -01, MOT1384, MOT1337, MOT1496, MOT910-1, MOT910, MOT861, MOT863, MOT1054, MOT1318, MOT1489, MOT1340, MOT1386, MOT1490, MOT1490-1, KM6031



ART.NR	ITEM NAME
BT592880	Engine adjustment tool set for Rover, Peugeot, Ford, Volvo 2.0, 2.2 l D

FOR THE FOLLOWING MODELS

Peugeot 807 (2005, 2011), 407 (2005, 2011), 607 (2005, 2009), engine DW10UTED4 (RHK), DW10BTED4 (RHR)DW12BTED4 (4HS), (4HP), (4HT), (4HR)
Citroën C4 (2004, 2010), C5 II (2004, 2010), engine DW10BTED4 (RHR)
Land Rover Freelander (2006, 2010), engine DW12BTED4, 224DT
Volvo S40 (2003, 2010), V50 (2006, 2010), C70 (2006, 2010), S80 (2007, 2010), C30 (2006, 2010), V70 (2007, 2010), engine D420T 2.0D
Ford S-Max 2.2 (2008, 2010), Galaxy 2.2 (2008, 2010), Mondeo 2.2, 2.0 (2007, 2010)

ENGINE CODES

Engine codes: QXBA(2.2), QXWA(2.0), QXBB(2.0), Q4BA(2.2), QXWA(2.0), QXWB(2.0), AZBA(2.0), AZBC(2.0), AZWA(2.0)

DESCRIPTION

Makes it easier to check and adjust the engine timing

DELIVERY SCOPE

Camshaft interlock, use as OEM PSA 0188.M, Ford 303-735, 303-1277, Volvo 999-7122
Crankshaft interlock, use as OEM PSA 0188.X, Ford 303-1059, 303-1270, Volvo 999-7121
Flywheel interlock, use as PSA 0188.F, Ford 303-393A, 303-393-01, 303-1272, Volvo 999-7119/7120



ART.NR	ITEM NAME
BT597920	Engine adjustment tool set for Volvo B4204

DESCRIPTION

For adjusting and checking the engine timing
Needed e.g. when working on the valve train and replacing the cylinder head seal
Suitable for Volvo B4204 engine (8-speed gearbox)

DELIVERY SCOPE

Crankshaft counter support, use as OEM 9997495
Crankshaft wheel extractor, use as OEM 9997493
Radial sealing ring assembly too, use as OEM 9997496
Camshaft sprocket tool, use as OEM 9997497
Camshaft adjustment tool, use as OEM 9997490



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ART.NR	ITEM NAME
BT592810	Camshaft holding tool and crankshaft sealing ring tool set for Ford, Volvo 2.5 Turbo

FOR THE FOLLOWING MODELS

Suitable for the following vehicles: Ford Focus (2005-2011), Galaxy (2006-2010), Kuga (2009-2013), Mondeo (2007-2010), S-Max (2006-2010), Volvo C30 (2006-2013), C70 (2006-2013), S40 (2003-2012), S60 (2003-2016), S80 (2003-2012), V40 (2012-2015), V50 (2004-2012), V70 (2002-2012), XC60 (2014-2016), XC70 (2002-2007), XC90 (2002-2014)

ENGINE CODES

Engine codes: HYDA, HYDB, HUBA, B5254T10, B5254T11, B5254T12, B5254T14, B5254T2, B5254T3, B5254T4, B5254T5, B5254T6, B5254T7, B5254T8, B5254T9

DESCRIPTION

For holding the camshaft in place when checking the valve clearance and fitting the front camshaft radial sealing ring

Suitable for: Ford & Volvo 2.5L Duratec-VE (VI5) Turbo petrol engines

DELIVERY SCOPE

Camshaft holder, use as OEM 303-1183, 9995765
Crankshaft sealing ring inserter, use as OEM 303-1180
Crankshaft sealing ring guide, use as OEM 303-1180



ART.NR	ITEM NAME
BT593040	Engine adjustment tool set for Ford 2.5, Volvo 1.6, 2.5 and 2.4D

FOR THE FOLLOWING MODELS

Ford Focus 2.5 RS, ST, Mondeo 2.5, S-Max 2.5, Galaxy 2.5 ST (from 2005 onwards)

Volvo C30 (2006, 2010), C70 (1998, 2010), S40 (1996, 2010), S60 (2000, 2009), S70 (1997, 2007), S80 (1996, 2006), V40 (1996, 2010), V50 (2004, 2010), V70 (1997, 2007), XC70 (2002, 2007), XC90 (2002, 2010)

ENGINE CODES

Ford engine codes: 2.5 Turbo (Euro 4), HUBA, HUWA, HYDA, JZDA

Engine codes: 1.6 (B4164S), 1.8 (B4184S), 1.9T (B4194T), 2.0 (B4204S, B4204T), 2.0T (B5204T3, B5204T4, B5204T5), 2.3 (B5234FS), 2.3T (B5234T3, B5234T7, B5234T9), 2.4 (B5244S, B5244S2, B5244S4, B5244S5, B5244S7), 2.4T (B5244T, B5244T3, B5244T4, B5244T5, B5244T7), 2.5R (B5254FS), 2.4D (D5244T9, D5244T8, D5244T13)

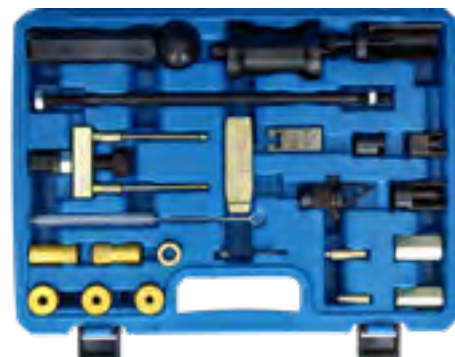
DESCRIPTION

For adjusting the camshaft and crankshaft when replacing the cylinder head seal

DELIVERY SCOPE

Crankshaft pulley holding tool, use as OEM 999 5433, 303-1179
Camshaft alignment tool, use as OEM 303-1178
Crankshaft alignment tool, use as OEM 303-1182
Camshaft holder, use as OEM 303-1183

VOLKSWAGEN



ART.NR	ITEM NAME
BT551360	FSI nozzle assembly and disassembly set

DESCRIPTION

VW, Audi, Seat, Škoda with petrol direct injection and engines with a pump/nozzle unit

Use as tools OEM T10133 + T10163

DELIVERY SCOPE

Puller for dismantling FSI nozzles, use as T10133/1
Extractor claw for dismantling FSI nozzles, use as T10133/2
Slide hammer, use as T10133/3
Assembly cone for fitting the combustion chamber sealing rings, use as T10133/5
Calibration sleeves for fitting the combustion chamber sealing rings, use as T10133/6, T10133/7, T10133/8
Fitting mandrel for fitting the FSI nozzles, use as T10133/9
Puller for removing pump/nozzle units





SUITABLE FOR:

ART.NR	ITEM NAME
BT591080	Engine adjustment tool set for VAG

DESCRIPTION

VAG 2.0 L TDI and some 1.9L TDI with oval crankshaft wheel

DELIVERY SCOPE

Interlock tool for crankshaft wheel, use as OEM T10100
Interlock mandrel for pump wheel, use as OEM 3359
Interlock plate for tensioning roll, use as OEM T10008



SUITABLE FOR:

ART.NR	ITEM NAME
BT597100	Engine adjustment tool set for VAG

DESCRIPTION

VAG 1.2 1.4 1.9 L TDI with round crankshaft wheel

DELIVERY SCOPE

Interlock tool for crankshaft wheel, use as OEM T10050
Interlock mandrel for pump wheel, use as OEM 3359
Interlock plate for tensioning roll, use as OEM T10008



SUITABLE FOR:

ART.NR	ITEM NAME
BT597152	Locking tool for crankshaft timing belt pulleys for VAG

DESCRIPTION

VAG 1.2, 1.4, 1.9 L TDI with round crankshaft wheel
Use as OEM T10050



SUITABLE FOR:

ART.NR	ITEM NAME
BT597800	Engine adjustment tool set for VAG

FOR THE FOLLOWING MODELS

1.9L, 2.0L TDI pump/nozzle
1.9L TDI, 2.5L V6-TDI, 3.3L V8-TDI
1.2L 3-cylinder and 1.4, 1.6L petrol engines

ENGINE CODES

OE-Code Audi: 2065A, T10008, T10016, T10020, T10050, T10060A, T10098, T10100, T10120, T10121, T10264, T10265, T40011, 2064, 3242, 3359, 3366, 3369, 3418, 3458, T10123

OE-Code Seat: 2065A, T10008, T10016, T10020, T10050, T10060A, T10098, T10100, T10120, T10121, T10264, T10265, T40011, 2064, 3242, 3359, 3366, 3369, 3418, 3458, T10123

OE-Code Škoda: 2065A, T10008, T10016, T10020, T10050, T10060A, T10098, T10100, T10120, T10121, T10264, T10265, T40011, 2064, 3242, 3359, 3366, 3369, 3418, 3458, T10123

OE-Code Volkswagen: 2065A, T10008, T10016, T10020, T10050, T10060A, T10098, T10100, T10120, T10121, T10264, T10265, T40011, 2064, 3242, 3359, 3366, 3369, 3418, 3458, T10123

DELIVERY SCOPE

Camshaft adjustment gauge (e.g. VW 1.9 L TDI)
Toothed belt pulley interlock tool (e.g. VW, Škoda 1.9L, 2.0L TDI pump/nozzle)
Camshaft interlock tool (e.g. VW, Audi 2.5L V6 TDI)
3-way adjustable toothed belt tension roller spanner (universal, for VW, Audi)
Interlock mandrel for injection pump wheel (e.g. VW, Audi, Seat, Škoda amongst others)
Retaining plate for toothed belt tensioning device (VW, Škoda 4-cylinder TDI pump/nozzle)
Open plug-in unit SW22 for assembly and disassembly of diesel injection nozzles
Camshaft adjustment tools, use as OEM T10123, T10120, 3458, 3418, 2065A, 3366, T10098, 3418
Crankshaft adjustment tools, use as OEM T10121, 3242, T10050, T10100
Tensioning roller interlock tools, use as OEM T10060A, T10020, T10008, T40011
Injection pump interlock tools, use as OEM 3359, 2064



SUITABLE FOR:

ART.NR	ITEM NAME
BT591030	Engine adjustment tool set for VAG

FOR THE FOLLOWING MODELS

Audi A3 1.8 Turbo (AGN AGU AJQ APG APP AQA ARX ARY ARZ AUM AUG) 1996-2003, A3 1.6 FSI (BAG) 2003-2006, S3 1.8 Turbo (AMK APY BAM) 1996, A4 1.8 Turbo (ADR AEB AJL AJP ANB APU AVJ AWT) 1994-2006, A6 1.8 Turbo (ADR AEB AJL AJP ANB APU AVJ AWT) 1994-2006, Cabriolet 1.8 (ADR) 1997-2000, TT 1.8 Turbo (AJQ APP APX AUM AUG BAM) 1998-2006



SUITABLE FOR:

ART.NR	ITEM NAME
BT597500	Engine adjustment tool for VAG 1.2, 1.4, 1.6 FSI, 1.4 TSI

FOR THE FOLLOWING MODELS

Audi A1, A3, A3 Sportback, A3 Cabriolet
Seat Altea, Altea XL, Ibiza, Ibiza Sport Coupe, Leon, Toledo
Škoda Fabia, Fabia, Octavia, Rapid, Roomster, Yeti
VW New Beetle, Caddy, Golf, Golf Plus, Golf Cabriolet, Golf Variant, Jetta, Polo, Touran

ENGINE CODES

AXU, BAG, BKG, BLF, BLN, BLP, BMY, BTS, BLG, BWK, CAVA, CAVB, CAVC, CAVD, CAVF, CAXA, CAXC, CDGA

DESCRIPTION

For adjusting and checking the engine timing

DELIVERY SCOPE

Camshaft locking device, use as OEM T10171
Dial gauge, use as OEM T10170 (dial gauge holder with 274 mm total length, exterior thread M14 x 1.25 mm)
Crankshaft interlock, use as OEM T10340
Hydraulic tensioner interlock, use as OEM T40011 (8 mm tension shaft)
Precision dial gauge for locating the piston OT (resolution: 0.01 mm / measuring range: 0-8 mm / diameter: 41 mm)
2x crankshaft wheel locking pin, use as OEM T10341 (two guide bolts with 135 mm length, 24 mm long exterior thread M8 x 1.25 mm, reciprocal external hex with 6 mm width between flats)
Camshaft interlock, use as OEM T10414



SUITABLE FOR:



ART.NR	ITEM NAME
BT595800	Engine adjustment tool set for Volkswagen 1.2

DELIVERY SCOPE
Can also be used as a replacement for Art. BT597800 Use as OEM T10123

SUITABLE FOR:



ART.NR	ITEM NAME
BT597250	Engine adjustment tool set for Volkswagen

FOR THE FOLLOWING MODELS

for VW Transporter 2.4D (95-03), Crafter 2.5TDI (06-09) and LT models

ENGINE CODES

Engine codes: AAB, AJA, BJJ, BJK, BJL, BJM

DELIVERY SCOPE

Use as OEM T10025, 2065A, 2064



SUITABLE FOR:



ART.NR	ITEM NAME
BT597800	Engine adjustment tool set for VAG

FOR THE FOLLOWING MODELS

1.9L, 2.0L TDI pump/nozzle
1.9L TDI, 2.5L V6-TDI, 3.3L V8-TDI
1.2L 3-cylinder and 1.4, 1.6L petrol engines

ENGINE CODES

OE-Code Audi: 2065A, T10008, T10016, T10020, T10050, T10060A, T10098, T10100, T10120, T10121, T10264, T10265, T40011, 2064, 3242, 3359, 3366, 3369, 3418, 3458, T10123

OE-Code Seat: 2065A, T10008, T10016, T10020, T10050, T10060A, T10098, T10100, T10120, T10121, T10264, T10265, T40011, 2064, 3242, 3359, 3366, 3369, 3418, 3458, T10123

OE-Code Škoda: 2065A, T10008, T10016, T10020, T10050, T10060A, T10098, T10100, T10120, T10121, T10264, T10265, T40011, 2064, 3242, 3359, 3366, 3369, 3418, 3458, T10123

OE-Code Volkswagen: 2065A, T10008, T10016, T10020, T10050, T10060A, T10098, T10100, T10120, T10121, T10264, T10265, T40011, 2064, 3242, 3359, 3366, 3369, 3418, 3458, T10123

DELIVERY SCOPE

Camshaft adjustment gauge (e.g. VW 1.9 l TDI)
Toothed belt pulley interlock tool (e.g. VW, Škoda 1.9L, 2.0L TDI pump/nozzle)
Camshaft interlock tool (e.g. VW, Audi 2.5L V6 TDI)
3-way adjustable toothed belt tension roller spanner (universal, for VW, Audi)
Interlock mandrel for injection pump wheel (e.g. VW, Audi, Seat, Škoda amongst others)
Retaining plate for toothed belt tensioning device (VW, Škoda 4-cylinder TDI pump/nozzle)
Open plug-in unit SW22 for assembly and disassembly of diesel injection nozzles
Camshaft adjustment tools, use as OEM T10123, T10120, 3458, 3418, 2065A, 3366, T10098, 3418
Crankshaft adjustment tools, use as OEM T10121, 3242, T10050, T10100
Tensioning roller interlock tools, use as OEM T10060A, T10020, T10008, T40011
Injection pump interlock tools, use as OEM 3359, 2064



SUITABLE FOR:



ART.NR	ITEM NAME
BT597802	Special tool for checking engine timing for VAG 1.2

FOR THE FOLLOWING MODELS

Is required to check the engine timing and when changing the timing belt

suitable for VAG 3-cylinder engines with code AMY, BMD, BBM

use like OEM T10120



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146
pcs.



BT541150

EAN 4042146779224

Thread repair set

5x		• M5 x 0,8 mm • M6 x 1,0 mm • M8 x 1,25mm • M10 x 1,5 mm • M12 x 1,75 mm
5x		• M5 x 0,8 mm • M6 x 1,0 mm • M8 x 1,25 mm • M10 x 1,5 mm • M12 x 1,75 mm
5x		• M5 x 0,8 mm • M6 x 1,0 mm • M8 x 1,25 mm • M10 x 1,5 mm • M12 x 1,75 mm
5x		• M5 x 0,8 mm • M6 x 1,0 mm • M8 x 1,25 mm • M10 x 1,5 mm • M12 x 1,75 mm

25x		M5 x 0,8 mm
25x		M6 x 1,0 mm
25x		M8 x 1,25 mm
25x		M10 x 1,5 mm
25x		M12 x 1,75 mm
1x		-





ART.NR	ITEM NAME
BT597200	Engine adjustment tool set for VAG 2.5 and 4.9D TDI pump/nozzle

FOR THE FOLLOWING MODELS

VW T5 from 2004 onwards, Touareg from 2003 onwards, VW Phaeton from 2003 onwards with 5-cylinder and 10-cylinder engines

ENGINE CODES

Engine codes: AXD, AXE, BAC, BLJ, BLK, BNZ, BPC, BPD, BPE

DELIVERY SCOPE

Camshaft interlock for checking and adjusting the timing on 5-cylinder and 10-cylinder engines, use as OEM T10193
Camshaft interlock for checking and adjusting the timing on 10-cylinder engines, use as OEM T10194
Clamp for removing and installing the camshaft sprocket of 5-cylinder and 10-cylinder engines, use as OEM T10199
Special insert, makes it possible to turn the crankshaft on 5-cylinder engines, use as OEM T10225
Crankshaft locking spanner for 5-cylinder engines, use as OEM T10226
Tensioning spanner



ART.NR	ITEM NAME
BT597210	Camshaft locking tool for VAG 5-cylinder and 10-cylinder

DELIVERY SCOPE

Suitable for VW T5 from 2004 onwards, Touareg and Phaeton from 2003 onwards with 5-cylinder and 10-cylinder engines
Clamp for removing and installing the camshaft sprocket on 5-cylinder and 10-cylinder engines
Use as OEM T10199, OEM T10199/1



ART.NR	ITEM NAME
BT596010	Crankshaft fixing tool for VAG 10 cylinder engines

DELIVERY SCOPE

Crankshaft fixing tool with dowel pin
Use as OEM T10226
Suitable for e.g. VW Tourag, Phaeton



ART.NR	ITEM NAME
BT561006	Ignition coil extractor for VAG

DESCRIPTION

For pulling off ignition coils on VAG models from year of construction 2013
Pin-shaped for insertion into the ignition coil fixing hole
4-cylinder 1.2, 1.4, 1.8, 2.0 FSI, TFSI engines, installed in e.g. VW Golf, Audi A3, Seat Leon, Škoda Octavia
Use as OEM T10530



ART.NR	ITEM NAME
BT595800	Engine adjustment tool set for Volkswagen 1.2

DELIVERY SCOPE

Can also be used as a replacement for Art. BT597800
Use as OEM T10123



ART.NR	ITEM NAME
BT595850	Camshaft control valve inserts for VAG 1.8, 2.0 TFSI, TSI

DESCRIPTION

For fitting/removal of the 4/3-way central valve of the camshaft adjustment
Suitable for 1.8, 2.0 L 4-cylinder fuel injection and direct injection engines with timing chain, installed in the following models:
Audi A3, A4, A5, Q5, TT, Seat Altea, Leon, Toledo, Exeo, Škoda Octavia II, Superb II, Yeti, Volkswagen Eos, Golf, Jetta, Passat, Scirocco, Sharan, Tiguan



ART.NR	ITEM NAME
BT597000	Engine adjustment tool set for VAG

FOR THE FOLLOWING MODELS

Volkswagen: Polo 1.2 L, 6V, 3-cylinder, engine code AWY, BMD, BBM, Polo 1.2 L, 12V, 3-cylinder, engine code AZQ, BME, BZG, CGPA, CGPB
Škoda: Fabia 1.2 L, 6V, 3-cylinder, engine code AWY, BMD, Fabia 1.2 L, 12V, 3-cylinder, engine code AZQ, BME, BZG, CEVA, CGPA, CGPB, Rapid 1.2 L, 12V, 3-cylinder, engine code CGPC, Roomster 1.2 L, 12V, 3-cylinder, engine code BME, BZG, CGPA, Praktik Rapid 1.2 L, 12V, 3-cylinder, engine code BZG, CGPA
Seat: Ibiza 1.2 L, 12V, 3-cylinder, engine code AZQ, BME, BXV, BZG, CGPA, CGPB, Cordoba 1.2 L, 12V, 3-cylinder, engine code AZQ, BME, BXV

DELIVERY SCOPE

Camshaft interlock, use as OEM T10123
Camshaft interlock, use as OEM T10120
Crankshaft interlock, use as OEM T10121



ART.NR	ITEM NAME
BT597700	Engine adjustment tool set for VAG

FOR THE FOLLOWING MODELS

Audi A1 (2010-2012), A2 (2001-2006), A3 (2001-2012), A4/Allroad (1999-2012), A5 (2008-2012), A6/Allroad (1998-2011), TT (2008-2010), Q5 (2008-2012)

Seat Alhambra (1999-2010), Altea/Altea XL (2004-2012), Arosa (1999-2005), Cordoba (2002-2009), Ibiza (2002-2010), Leon (2000-2012), Toledo (2004-2011)

Škoda Fabia (2000-2007), Fabia II (2007-2012), Octavia (2000-2010), Octavia II (2004-2012), Roomster (07-12), Superb (2002-2008), Superb II (2008-2012), Yeti (2009-2012)

VW Amarok (2010-2012), Beetle (2000-2011), Bora (1998-2008), Caddy/Maxi (2003-2012), Eos (06-10), Fox (2005-2011), Golf (1998-2012), Golf Plus (2005-2012), Jetta (2005-2011), Lupo (1999-2005), Passat/CC (1998-2012), Polo (1999-2012), Scirocco (2008-2012), Sharan (1999-2010), Tiguan (2007-2012), Touran (2003-2012), Transporter (2003-2012)

Dodge Caliber (2006-2011)

Ford Galaxy (1999-2006)

Mitsubishi Grandis (2005-2010), Lancer (2005-2010), Outlander (2007-2010)

DESCRIPTION

For inspecting and adjusting the camshaft control times

1.2, 2.0 TDI PD, 1.2, 1.6, 2.0 TDI CR



ART.NR	ITEM NAME
BT597050	Engine adjustment tool set for Audi, VW V6 TDI

FOR THE FOLLOWING MODELS

Volkswagen Passat 2.5 V6 TDI

Audi A4 2.5 V6 TDI

Audi A6 2.5 V6 TDI

Audi A8 2.5 V6 TDI

Škoda Superb 2.5 V6 TDI

ENGINE CODES

Engine code: AFB, AKN, AKE, AYM, BAU, BCZ, BDG, BDH, BFC

DESCRIPTION

For locking the crankshaft/camshaft, and for carrying out work on the engine control, e.g. replacing the toothed belt, removing the cylinder heads etc.

DELIVERY SCOPE

Crankshaft fixing mandrel, use as OEM 3242

Camshaft interlock plates, use as OEM 3458



ART.NR	ITEM NAME
BT595900	Engine adjustment tool set for VAG 1.2 TSI, TFSI

FOR THE FOLLOWING MODELS

VAG 1.2 TSI, TFSI with engine codes CBZA, CBZB, CBZC

Audi models A1 and A3

VW New Beetle, Caddy, Golf, Jetta, Polo, Touran

Škoda Fabia II, Octavia II, Praktik, Rapid, Roomster, Yeti

Seat Altea, Ibiza, Leon, Toledo

DESCRIPTION

For locking the camshaft and crankshaft while changing the timing chain, replacing the cylinder head seal etc.

DELIVERY SCOPE

Crankshaft lock, use as OEM T10340

Camshaft interlock, use as OEM T10414

Guide bolt, use as OEM-T10341



ART.NR	ITEM NAME
BT597806	Crankshaft fixing tool for VAG 6-cylinder and 8-cylinder for Art. BT597800

DELIVERY SCOPE

Suitable for VW and Audi models with V6 TDI and V8 engines

For adjusting the crankshaft

Use as OEM 3242



ART.NR	ITEM NAME
BT591010	Camshaft fixing tool for Audi, VW

DESCRIPTION

Needed for changing the toothed belt in Audi and VW models with the following engines: AUDI A4 2.4 2.8 year of construction 1997, 2002, A6 2.4 year of construction 1997, 2002, A6 2.8 year of construction 1997, 2002, S4 2.7 Turbo year of construction 1997, 2001 or Volkswagen with ACK, ALG, APR, AQD engines, and Passat 2.4 year of construction 1996, 2002, Passat 2.8 30v year of construction 1996, 2001

The camshaft cannot turn while the toothed belt is being fitted

Easy, accurate fitting of the toothed belt



SUITABLE FOR:

ART.NR	ITEM NAME
BT591011	Camshaft fixing tool for Audi, VW

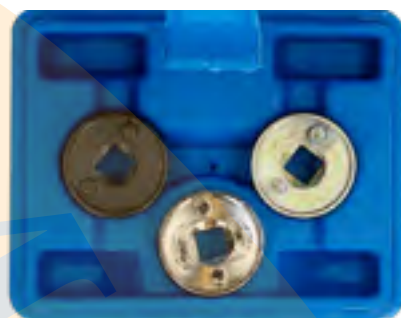
DESCRIPTION

Needed for changing the toothed belt in Audi and VW models with 2-valve V6 engines, e.g. Audi 80, 90, A4, A6 1994-97 ABC, AFC engine

The camshaft cannot turn while the toothed belt is being fitted

The fixing hook ensures a secure fit

Easy, accurate fitting of the toothed belt



SUITABLE FOR:

ART.NR	ITEM NAME
BT595850	Camshaft control valve inserts for VAG 1.8, 2.0 TFSI, TSI

DESCRIPTION

For fitting/removal of the 4/3-way central valve of the camshaft adjustment

Suitable for 1.8, 2.0 L 4-cylinder fuel injection and direct injection engines with timing chain, installed in the following models:

Audi A3, A4, A5, Q5, TT, Seat Altea, Leon, Toledo, Exeo, Škoda Octavia II, Superb II, Yeti, Volkswagen Eos, Golf, Jetta, Passat, Scirocco, Sharan, Tiguan



SUITABLE FOR:

ART.NR	ITEM NAME
BT591085	Special insert for turning the crankshaft for VAG 5-cylinder engines

FOR THE FOLLOWING MODELS

VW Lupo, Polo, New Beetle, Golf, Bora Caddy

Seat Ibiza, Cordoba

DELIVERY SCOPE

Needed for adjusting the crankshaft when working on the engine timing, and can also be used as a counter support

Suitable for all 5-cylinder VW diesel engines

Installed e.g. in the Touareg from year of construction 2003 onwards and Transporter from 2004 onwards

With fixing screw for fitting on the crankshaft

Can be used as VAG OEM T10225



SUITABLE FOR:

ART.NR	ITEM NAME
BT596008	Camshaft sprocket locking tool for Volkswagen 1.8, 2.0 TFSI

DESCRIPTION

For locking the intake and discharge camshafts when loosening the central screws



SUITABLE FOR:

ART.NR	ITEM NAME
BT597215	Camshaft fixing tool for VAG 5- and 10-cylinder engines

DELIVERY SCOPE

Suitable for VW Phaeton from 2003 onwards, Touareg from 2003 onwards, Transporter from 2004 onwards with 5-cylinder and 10-cylinder diesel engine

Use as OEM T10193 or T10194

For fixing the camshafts when checking and adjusting the timing

The camshaft cannot turn, meaning that precise adjustment is possible



SUITABLE FOR:

ART.NR	ITEM NAME
BT596006	Camshaft sprocket locking tool for VAG 1.0

FOR THE FOLLOWING MODELS

Seat Mii 1.0 (3-cylinder)

Škoda Citigo 1.0 (3-cylinder)

Volkswagen Up 1.0 (3-cylinder)

DESCRIPTION

For locking the camshafts in the adjustment position

Needed when checking and adjusting the engine timing

Use as OEM T10476



SUITABLE FOR:

ART.NR	ITEM NAME
BT591012	Camshaft fixing tool for Audi, Volkswagen

DELIVERY SCOPE

Needed for changing the toothed belt in Audi and VW with V8 3.3L to 4.2L 5-valve engines, installed in the Audi A6, A8 with e.g. engine code AKB, AUX, AYS, AQJ, ARS, ART, AVN, BBD, BCY and BFM (1998, 2003), as well as the VW Touareg and Phaeton

The camshaft cannot turn while the toothed belt is being fitted

Easy, accurate fitting of the toothed belt

Use as OEM T40005



ART.NR	ITEM NAME
BT546004	crankshaft sealing ring assembly tool for VAG 1.4 and 1.6 16V

FOR THE FOLLOWING MODELS

Seat Arosa, Ibiza, Cordoba, Leon, Toledo, Inca
Škoda Fabia, Octavia, Roomster
VW Lupo, Polo, Golf, Bora, Beetle, Caddy

ENGINE CODES

CHYA, CHYB, CPGA

DESCRIPTION

For fitting the radial sealing ring on the transmission
Attempting to fit the sealing ring without this tool may lead to leaks, destruction of the new sealing ring, and poor engine running

Suitable for VAG vehicles with 1.4 and 1.6 16V engines

Use as OEM T10017



ART.NR	ITEM NAME
BT596015	Timing chain tension lever for VAG 1.8, 2.0 TFSi

FOR THE FOLLOWING MODELS

Audi A3, A3 Cabrio, TT, Q3
Seat Alhambra, Altea Free Track, Exeo, Leon FR, Toledo
Škoda Octavia II, Superb III (3T), Yeti
Volkswagen Eos, Golf VII, Passat (B6), Passat CC, Passat Variant, Sharan, Beetle, Scirocco, Tiguan

ENGINE CODES

Engine codes (1.8 L engines): CDAA, CDHA, CDHB, CJEB, CDAB, CGYA

Engine codes (2.0 L engines): CCZA, CDNB, CDNC, CFKA, CCZC, CPSA, CESA, CETA, CCZB, CDND, CCZD

DESCRIPTION

For pushing back the timing chain tensioner without removing the front engine cover

Needed when replacing the timing chain



ART.NR	ITEM NAME
BT591260	Camshaft sprocket locking tool set, universal

FOR THE FOLLOWING MODELS

Can be used universally on vehicles from the following manufacturers: Audi, Alfa Romeo, Chrysler, Citroën, Ford, Honda, Hyundai, Isuzu, Land Rover, Lexus, Mazda, Mitsubishi, Peugeot, Renault, MG, Seat, Škoda, Subaru, Toyota, Opel, Volkswagen, Volvo

DESCRIPTION

For locking the camshaft sprockets e.g. when replacing the toothed belt

Suitable for engines with 1, 2 and 4 camshafts (V engines); also suitable for locking between the camshaft sprocket and diesel injection pump wheel in some diesel engines

DELIVERY SCOPE

Double camshaft locking tool with short and long connecting arm

Single camshaft locking tool with short and long locking screw



ART.NR	ITEM NAME
BT596002	Universal camshaft wheel puller

DESCRIPTION

For pulling the pulley and camshaft gear

Gripping arms are connected with each other via adjusting disk, thus the gripping arms can be set easily and exactly

Continuous adjustment range of the gripping arms from 42 - 82 mm

Gripping arm depth is 27 mm

DELIVERY SCOPE

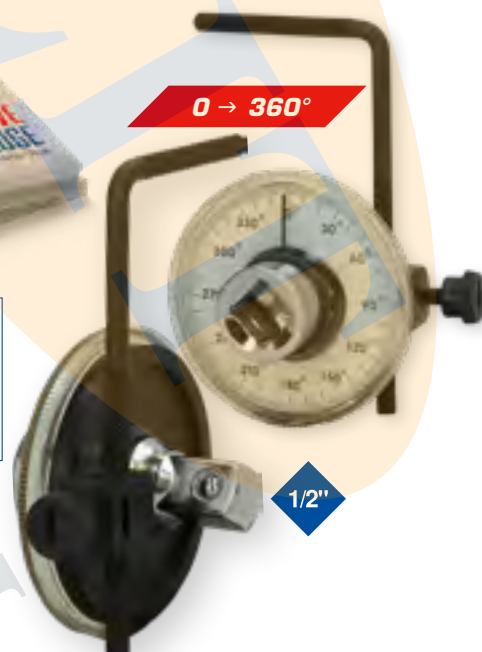
3 x gripping arms, Ø 12 mm, M10 x 1.5, suitable for material thickness up to max. 10 mm

6-groove puller body with adjusting disc

Spindle, M14 x 1.5, 19 mm hex, with centring cone



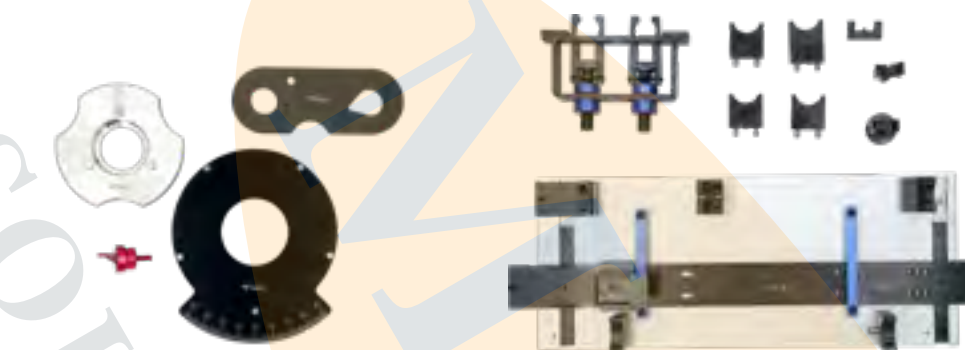
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BT546001

EAN4042146779217

Torque angle gauge



ART.NR	ITEM NAME
BT595910	Timing chain test tool set for VAG 1.2, 1.4 TFSi

FOR THE FOLLOWING MODELS

Audi: A1 (2012-2015), A1 Sportback (2012-2015), A3 (2013-2015), A3 (2013-2015), A3 Sportback (2012-2015)

Seat: Ibiza (2012-2017), Leon (2012-2015), Toledo (2012-2017)

Škoda: Fabia II (2010-2015), Fabia III (2014-2017), Octavia II (2010-2013), Octavia III (2010-2015), Praktik (2010-2015), Roomster (2010-2015), Rapid (2015-2017)

Volkswagen: Golf VI & VII (2008-2015), Golf VII Kombi (2008-2017), Jetta (2012-2017), Polo (2012-2017), Sportsvan (2014-2017)

DESCRIPTION

For checking the timing chain elongation on VAG 1.2 and 1.4L TFSi engines

Prevents costly repairs at a later stage due to the timing chain slipping

DELIVERY SCOPE

Timing chain test tool set, use as OEM T10550

Comprises the following tools: Camshaft fixing tool, use as OEM T10550/1; indicator, use as OEM T10550/2; scale sleeve with crankshaft pulley plate, use as OEM T10550/3



ART.NR	ITEM NAME
BT595920	Camshaft assembly tool set for VAG and Porsche

FOR THE FOLLOWING MODELS

Suitable for the following diesel vehicles (TDI CR) from 2003 onwards: Audi, Porsche, Seat, Škoda, Volkswagen with 1.2, 1.6, 2.0, 2.7, 3.0, 4.0, 4.2 common rail engines

ENGINE CODES

Engine codes ASB, ASE, BKN, BKS, BMK, BNG, BPP, BSG, BTR, BUG, BUN, BVN, CAAA, CAAB, CAAC, CAAD, CAAE, CAGA, CAGB, CAGC, CAHA, CAHB, CAMA, CAMB, CANA, CANB, CANC, CAND, CAPA, CARA, CASA, CASB, CASC, CASD, CATA, CAYA, CAYB, CAYC, CAYD, CAYE, CBAA, CBAB, CBAC, CBBA, CBBB, CBDA, CBDB, CBDC, CCFA, CCFC, CCHA, CCHB, CCLA, CCMA, CCWA, CCWB, CDBA, CDCA, CDSB, CDTA, CDTB, CDUC, CDUD, CDYA, CDYB, CDYC, CEGA, CEXA, CFCA, CFFA, CFFB, CFFD, CFFE, CFGB, CFGC, CFGD, CFHA, CFHB, CFHC, CFHD, CFHE, CFHF, CFJA, CFWA, CGKA, CGKB, CGLA, CGLB, CGLC, CGLD, CGLE, CGGB, CJAA, CJCA, CJOB, CJCC, CJCD, CJGA, CJGC, CJGD, CJMA, CKDA, CKTB, CKTC, CKUB, CKUC, CKVB, CKVC, CLAA, CLAB, CLCA, CLCB, CLJA, CLLA, CLNA, CLZB, CMEA, CMFA, CMFB, CMGB, CMHA, CNEA, CNFA, CNRB, CRCA, CSHA, M05/9D (CAS), M05/9E, M05/9E (CRCA), M05/9E (CRCB)

DESCRIPTION

For installing the camshafts in the correct position

Needed when installing new or existing camshafts; attempting installation without this tool may lead to damage on the camshaft bearing bridge and the cylinder head

DELIVERY SCOPE

Mounting device including pre-assembled parts, use as OEM T40094

Camshaft clamp, use as OEM T40095

2 alignment clamps, use as OEM T40096, T40096/1

4 camshaft brackets for mounting device, use as OEM T40094/1, T40094/2, T40094/9, T40094/10

Interlock for camshaft bracket, use as OEM T40094/11



ART.NR	ITEM NAME
BT593100	Engine adjustment tool set for Ford

FOR THE FOLLOWING MODELS

Suitable for the following Ford engines: 1.4, 1.6 16V, 1.7, 1.8 16V, 2.0 16V (including Zetec), 1.4, 1.6, 1.8, 1.9 D/ TD/TDCi

DESCRIPTION

Contains tools for: Locking the flywheel

Locking the crankshaft, pump shaft

Locking the injection pump shaft

Removing the crankshaft pulley

Tensioning the toothed belt

Adjustment gauge for positioning the camshaft and pump shaft in relation to the crankshaft

Use as OEM 21-162, 21-162B, 303-367, 303-376, 23-059, 310-085, 21-168, 303-393, 23-020, 23-047, 23-020, 21-163, 303-620, 23-019, 21-210, 303-507, 21-251, 303-698, 21-262, 303-734, 23-029, 303-1061, 23-058, 310-084, 21-105, 21-262, 303-734, 21-168, 303-393, 21-263, 303-735, Mazda 49JE01061, Audi 3359, T10008, T10050, 2065A, Seat 3359, T10008, T10050, 2065A, Škoda 3359, T10008, T10050, 2065A, Volkswagen 3359, T10008, T10050, 2065A



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ART.NR	ITEM NAME
BT591030	Engine adjustment tool set for VAG

FOR THE FOLLOWING MODELS

Audi A3 1.8 Turbo (AGN AGU AJQ APG APP AQA ARX ARY ARZ AUM AUG) 1996-2003, A3 1.6 FSI (BAG) 2003-2006, S3 1.8 Turbo (AMK APY BAM) 1996, A4 1.8 Turbo (ADR AEB AJL AJP ANB APU AVJ AWT) 1994-2006, A6 1.8 Turbo (ADR AEB AJL AJP ANB APU AVJ AWT) 1994-2006, Cabriolet 1.8 (ADR) 1997-2000, TT 1.8 Turbo (AJQ APP APX AUM AUG BAM) 1998-2006
Volkswagen Beetle 1.8 Turbo (AVC) 1999-2006, Touran 1.6 FSI (BAG BLP) 2003-2007, Golf 1.8 Turbo (AGN AGU AQA ARZ AUM AUG) 1997-2005, Bora 1.8 Turbo (AGN AGU AQA ARZ AUM AUG) 1997-2005, Passat 1.8 Turbo (ADR AEB ANB APT APU ARG AWT) 1996-2005, Sharan 1.8 Turbo (AJH AWC) 1997-2007
Škoda Octavia 1.8 FSI Turbo (AGN AGU ARX ARZ AUM) 1996-2005, Octavia 1.8 Turbo 20V RS (AUG) 2000-2006, Octavia 1.6 FSI (BLF) 2004-2007

DESCRIPTION

Suitable for 1.8 L turbo and 1.6 L FSI engines

DELIVERY SCOPE

Counter support for crankshaft, use as OEM 3036
Camshaft fixing tool, use as OEM T10171
Counter support for drive sprockets of oil pump gear, camshaft, vibration damper, use as OEM T10172
Adapter pieces for counter support, use as OEM T10172
Chain tensioner bracket for installation and removal of the chain tensioner, use as OEM T20018, 3366
Tension roller element fixing pin, use as OEM T40011



ART.NR	ITEM NAME
BT591089	Drive gear fixing tool for VAG 3.6 FSI

DESCRIPTION

For fixing the high-pressure pump driving toothed wheel
Needed for adjusting the valve timing
Suitable for VAG 3.6L 6-cylinder 4-valve engines, installed in the Volkswagen Passat (357), (3C2), (3C5) from 2006 onwards, Touareg (7L6), (7LA) from 2006 onwards, Audi Q7 (4LB) from 2007 onwards
Engine codes: BLV, BHL, BHK
Use as OEM T10363



ART.NR	ITEM NAME
BT542070	crank/camshaft radial seal extraction set for VAG

FOR THE FOLLOWING MODELS

VAG petrol engines e.g. VW Lupo and Polo 1.4i, VR6, Audi V6, etc.

DESCRIPTION

For removing radial sealing rings
Grips the seal from the inside with its conical profile
Suitable for most commercially available sealing rings
Contains the following extractors: 5 short extractors, Ø 25, 32, 35, 27, 55 mm
1 long extractor, Ø 32 mm



ART.NR	ITEM NAME
BT542078	crankshaft seal assembly device for VAG petrol & diesel engines

DESCRIPTION

For fitting the radial sealing ring on the transmission
Attempting to fit the sealing ring without this tool may lead to leaks, destruction of the new sealing ring, and poor engine running
VAG vehicles Volkswagen Golf, Touran and Audi A3, A4 1.4i Turbo, 1.4 & 1.6 petrol direct injection, 1.9, 2.0 SDI, 2.0 common rail diesel engines
Use as OEM T10134



ART.NR	ITEM NAME
BT591018	Front mask propping aid for Audi A4

DESCRIPTION

For pushing the front mask into the service position, e.g. for Audi A4, Passat from 1997 onwards
Allows for timing belt changes or the renewal of the water pump
Use as T10093



ART.NR	ITEM NAME
BT597450	Engine adjustment tool set for VAG

FOR THE FOLLOWING MODELS

VW Passat, Sharan
AUDI A4, A6, A8, Allroad (1997-2006), A8
Škoda Superb 2.5 (2002-2006)

ENGINE CODES

AFB, AKN, AKE, AYM, BAU, BCZ, BDG, BDH, BFC

DESCRIPTION

For inspecting and adjusting the camshaft control times

DELIVERY SCOPE

Interlock plate with chain, use as OEM 3458
Special spanner, spanner width 22 mm, 1/2" drive, use as OEM 3078
Propping aid for front masks, use as OEM 3369
Crankshaft locking pin, use as OEM 3242
Marking pin of injection pump wheel, use as OEM 3359



ART.NR	ITEM NAME	
BT597600	Toothed belt tensioner set for VAG	

DELIVERY SCOPE

Range for actuating and locking toothed belt tension rollers
Needed when replacing the toothed belt and carrying out repairs on the engine

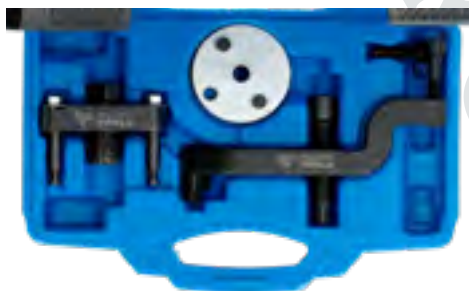
For the most common VW, Audi, Seat, Škoda petrol and diesel engines

Spanner can be used as counter support

Tightening the nut does not affect the adjustment of the toothed belt tension

3 tension roller spanners with different lengths and crank portions, use as OEM T10020, V159, 3387

3 locking pins for toothed belt tensioner: 1.6 mm, use as OEM T40011, 2.5 mm, use as OEM T03006, 4 mm, use as OEM T10060A



ART.NR	ITEM NAME	
BT521300	water pump removal tool for Volkswagen	

DESCRIPTION

Suitable for Volkswagen T5, Touareg 2.5D

DELIVERY SCOPE

Water pump extractor, for removing the water pump gear, use as OEM T10222A

Drive wheel extractor, for removing the water pump, use as OEM T10221A

Special spanner, for bracing or turning the crankshaft when loosening the gear fastening screw on the water pump, use as OEM T10225



ART.NR	ITEM NAME	
BT591094	Crankshaft locking tool for VAG 1.4, 1.6, 2.0 TDI (EA288)	

FOR THE FOLLOWING MODELS

For the following vehicles: 1.4 TDI Audi A1, 1.4 TDI Seat Ibiza, Toledo IV, 1.4 TDI Škoda Fabia III, Rapid (2012), 1.4 TDI VW Polo V, 1.6 TDI Audi A1, A3 8V, A4 B9, Q2, o 1.6 TDI Seat Leon III, Toledo IV, Ateca, 1.6 TDI Škoda Octavia III, Rapid (2012), Superb III, Karoq, o 1.6 TDI VW Beetle, Golf VII, Jetta VI, Tiguan, Touran II, T-Roc, Passat B8, CC, Scirocco III, 2.0 TDI Audi A3 8V, A4 B9, Q2, 2.0 TDI Seat Leon III, Ateca, Alhambra II, 2.0 TDI Škoda Octavia III, Superb III, Kodiaq, Karoq, 2.0 TDI VW Beetle, Golf VII, Jetta VI, Tiguan, Tiguan II, Touran II, T-Roc, Sharan II, Passat B8, CC, Scirocco III, Arteon, T6, Caddy, Crafter, Amarok

DESCRIPTION

For adjusting and locking the crankshaft e.g. when working on the camshaft drive or replacing the cylinder head seal
Suitable for: TDI common rail engines in the EA288 series
Use as OEM T10490



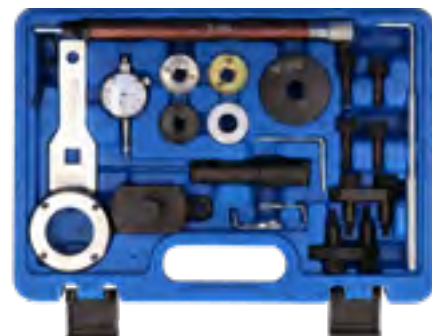
ART.NR	ITEM NAME	
BT671050	drive shaft retractor set	

FOR THE FOLLOWING MODELS

M16 x 1.5 mm: for Subaru
M20 x 1.5 mm: for VW Beetle, Touareg, Porsche Cayenne
M22 x 1.5 mm: for BMW E30, E46
M24 x 1.5 mm: for BMW E36, Mercedes W203
M27 x 1.5 mm: for BMW E32, E34, E38, E39, X5
M30 x 1.5 mm: for BMW E32, E34, E36

DESCRIPTION

For pulling the drive shaft into the wheel hub
In a standardised industrial bearing
Contains 6 pulling sleeves with various threads



ART.NR	ITEM NAME	
BT597760	Engine adjustment tool set for VAG 1.8, 2.0 FSI, TFSI	

DESCRIPTION

For checking and adjusting the engine timing

Suitable for 1.8, 2.0L VAG engines with engine code BYT, BZB, CABA, CABB, CABD, CADA, CAEA, CAEB, CAWA, CAWB, CBFA, CCTA, CCZA, CCZB, CCZC, CCZD, CDAA, CDAB, CDHA, CDHB, CDNB, CDNC, CDND, CESA, CETA, CFKA, CFPA, CGYA, CHHA, CHHB, CJBA, CJEB, CJK, CJKB, CJSA, CJSB, CNCD, CPLA, CP5A

Installed e.g. in Audi A4, A5 (from 2008 onwards), A6 (from 2012 onwards)

DELIVERY SCOPE

Crankshaft counter support tool, use as OEM T10355

Crankshaft thrust piece, use as OEM T10368

Crankshaft thrust piece, use as OEM T10354

Camshaft interlock bolt (4x), use as OEM T40196

Chain adjuster interlocking clamp (2x), use as OEM T40267

Drive sprocket blocking tool (2x), use as OEM T40271, T20208

Camshaft valve tool, use as OEM T10352

Camshaft valve tool, use as OEM T10352/1

Camshaft valve tool, use as OEM T10352/2

Tensioning marking pin, use as OEM T10060A

Tensioning marking pin (2x), use as OEM T40011

Marking pin for oil pump, use as OEM T40265

INHALTSVERZEICHNIS NACH PRODUKTCODE

BT-NR.	SEITE	BT-NR.	SEITE	BT-NR.	SEITE	BT-NR.	SEITE	BT-NR.	SEITE
BT521300	107	BT591260	10	BT592320	31	BT593190	50	BT594651	70
BT541060	27	BT591260	18	BT592320	43	BT593190	58	BT594653	70
BT541062	48	BT591260	29	BT592320	55	BT593200	59	BT594670	46
BT542070	18	BT591260	33	BT592320	66	BT593250	49	BT594670	81
BT542070	106	BT591260	45	BT592320	74	BT593250	57	BT594670	96
BT542078	19	BT591260	56	BT592520	31	BT593300	49	BT594680	82
BT542078	106	BT591260	60	BT592520	36	BT593300	55	BT595700	30
BT546004	86	BT591260	63	BT592520	48	BT593310	51	BT595700	39
BT546004	92	BT591260	65	BT592520	77	BT593320	58	BT595700	68
BT546004	104	BT591260	73	BT592540	37	BT593320	83	BT595700	77
BT551008	21	BT591260	79	BT592540	43	BT593350	59	BT595700	83
BT551105	43	BT591260	87	BT592540	69	BT593500	62	BT595700	86
BT551110	43	BT591260	93	BT592550	40	BT593545	60	BT595700	92
BT551360	11	BT591260	95	BT592575	40	BT593550	62	BT595702	71
BT551360	98	BT591260	104	BT592575	53	BT593585	61	BT595703	7
BT561006	10	BT591270	53	BT592580	41	BT593600	60	BT595703	41
BT561006	85	BT591300	7	BT592585	41	BT593620	61	BT595703	71
BT561006	89	BT591300	28	BT592585	54	BT593625	61	BT595800	10
BT561006	101	BT591300	37	BT592590	41	BT593635	61	BT595800	85
BT591010	11	BT591300	70	BT592590	54	BT593670	29	BT595800	89
BT591010	102	BT591310	36	BT592600	39	BT593670	51	BT595800	100
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BT591012	103	BT591350	40	BT592700	8	BT593750	32	BT595850	12
BT591015	12	BT591350	53	BT592700	35	BT593750	33	BT595850	85
BT591018	12	BT591500	25	BT592700	40	BT593750	64	BT595850	89
BT591018	106	BT591520	21	BT592700	44	BT593750	65	BT595850	101
BT591020	12	BT591550	25	BT592700	52	BT593750	78	BT595850	103
BT591030	13	BT591556	23	BT592750	36	BT593770	65	BT595900	92
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BT591030	90	BT591580	20	BT592800	53	BT593800	34	BT595910	19
BT591030	99	BT591580	23	BT592810	98	BT593800	64	BT595910	88
BT591030	106	BT591580	33	BT592850	44	BT593800	77	BT595910	94
BT591050	17	BT591580	64	BT592870	44	BT593815	28	BT595910	105
BT591070	17	BT591580	78	BT592880	54	BT593815	72	BT595920	20
BT591070	85	BT591650	21	BT592880	73	BT593815	84	BT595920	88
BT591070	91	BT591650	55	BT592880	97	BT593850	70	BT595920	94
BT591080	11	BT591650	62	BT592900	42	BT593870	28	BT595920	105
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BT591085	103	BT591651	69	BT592976	46	BT593890	51	BT596001	61
BT591087	18	BT591750	24	BT593000	55	BT593920	71	BT596002	10
BT591089	18	BT591810	24	BT593010	46	BT593930	71	BT596002	18
BT591089	106	BT591822	25	BT593029	46	BT593940	72	BT596002	29
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BT591094	19	BT591860	26	BT593050	42	BT594250	68	BT596002	56
BT591094	87	BT591870	26	BT593100	20	BT594250	83	BT596002	60
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BT591200	14	BT591900	22	BT593100	94	BT594350	84	BT596002	78
BT591210	8	BT591950	23	BT593100	105	BT594420	80	BT596002	86
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BT591225	9	BT592200	24	BT593160	34	BT594450	69	BT596003	14
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BT591230	9	BT592250	38	BT593160	57	BT594550	68	BT596004	14
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								BT597940	82
								BT641060	27
								BT671050	27
								BT671050	95
								BT671050	107
								BT671900	92



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10-YEAR WARRANTY IMPORTANT INFORMATION

Please keep all documents in a safe place, as they constitute part of your purchase agreement.

As the original purchaser of our branded products, you receive a 10-year warranty on the material and surface condition, functional reliability and high standard of workmanship of all products under our BRILLIANT TOOLS brand in accordance with the quality and test specifications valid at the time of delivery.

The warranty includes the statutory 2-year warranty, only applies to new goods and is non-transferable.

The warranty does not affect statutory warranty claims, such as those concerning supplementary performance, rescission or compensation for damages.

Warranty terms and conditions.

The warranty shall be fulfilled through, at the warrantor's choice, repair or subsequent delivery and shall not be suspended nor interrupted through the performance of services, i.e. the warranty shall end ten years after the delivery date.

Proper transportation, assembly, connection and use by authorised specialist staff are a mandatory requirement for the warranty to be valid.

The relevant installation, safety and operating instructions as well as the enclosed assembly instructions apply to all electronic components.

The warranty does not cover ten years of a new condition.

No liability is accepted for damage of any kind resulting from collection by the customer, overloading, operating errors or changes to the delivery state or consumables.

Products used for demonstration purposes are also excluded from the warranty, as they no longer conform to new condition due to use and demonstration effects. The statutory two-year warranty applies and we recommend documenting signs of wear before the transfer of risk.

Material defects are generally repaired by the trade partner and only on presentation of the purchase agreement.

BrilliantTools[®]

The following are not covered by the warranty:

- ♥ Normal and natural signs of wear
- ♥ Wear caused by excessive or improper use
- ♥ Damage that occurs through normal and natural wear during use by the purchaser
- ♥ Improper modifications by unauthorised persons
- ♥ Improper exposure to heat, moisture, liquids or care products
- ♥ Damage caused by pointed, sharp, hot or wet objects
- ♥ Environmental factors such as extreme dryness, humidity, light or temperature
- ♥ Intentional destruction, misuse, overloading or accidental damage
- ♥ Damage and soiling caused by heat sources or weather
- ♥ Discolouration caused by medication ingredients (toxic reaction)
- ♥ Any changes caused by substances containing acid, solvents or alcohol
- ♥ Unsuitable cleaning, repair or improvement attempts
- ♥ Moisture damage caused by standing water or condensation not being removed
- ♥ Characteristics typical of the product that do not constitute material defects



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