

Double Ring Spanner, Open | for Diesel Injector Pipes | 17 mm

- open double ring spanner, offset and angled
- surface finish: satin chrome plated
- profile: 12-point
- for hard to reach places
- suitable for most diesel engines
- wrench size: 17 mm







Injector Puller | for Mercedes-Benz CDI Engines

- suitable for Mercedes-Benz CDI engines 611, 612, 613 ff.
- for loosening injectors from the cylinder head
- no more disassembling of the cylinder head necessary
- striking weight 2.0 kg





Sockets for Diesel Injectors





Item #	Description
2538	Socket for Diesel Injectors 12.5 mm (1/2") Drive 22 mm
2539	Socket for Diesel Injectors 12.5 mm (1/2") Drive 27 mm



Pre-Chamber Socket for Mercedes-Benz CDI

- 12.5 mm (1/2") drive multi-spline socket 1.5 x 58 mm
- allows changing of the diesel pre-chamber
- fits on MB engines from 1989
- suitable for engines with the following codes: 601, 602, 602.91, 603, 604, 605, 606, 661, 662
- to be used as OEM 603589000900 / 603589010900
- surface finish: phosphated









Special Wrench for Injection Lines | for Mercedes-Benz | 10 mm (3/8") Drive | 14 mm 10 3/8

wrench size: 14 mmprofile: 12-point

• surface finish: satin chrome plated

• length: 85.5 mm







Injector Puller | for BMW

- for pulling out stuck common rail injectors
- disassembly of the cylinder head is not necessary
- support on the cylinder head allows high extraction forces
- suitable for BMW engines M47TU, M57, M57TU
- 2 support feet 115 mm
- 2 support feet 140 mm
- supporting bridge with ball bearing
- spindle M16, one side M17 thread, for mounting in the injector
- 29 mm socket for disassembling the electric unit
- internal 6-pt wrench for removing the injector needle



Item # 8782

HDI Injector Puller

- allows the extraction of Bosch and Siemens HDI injectors
- disassembly of cylinder heads is not necessary
- suitable for most vehicles with PSA 2.0 HDI DW10, DW12 engines, also on Toyota, Mazda, Hyundai
- high traction is reached by pulling the cylinder head
- 2 ball bearing puller spindles for injectors with different internal thread diameter
- 2 open sockets for removal of the electric unit
- high performance support frame with spindle bearings





Puller for Common Rail Injectors

- suitable for e. g.: Mercedes-Benz CDI engines 611, 612 and 613
- for pulling out stuck common rail injectors
- special tool construction allows to pull injector with high force
- heavy version



Item #	Description
8237	Puller for Common Rail Injectors
8237-29	Socket, Hexagon slotted 29 mm

Injector Puller | for Mercedes-Benz CDI engines | 4 pcs.

- suitable for assembling and disassembling tightly fit common rail injectors
- suitable for e. g. Mercedes-Benz CDI engines 611, 612 and 613
- suitable for working in confined spaces due to the low support cylinder diameter
- special tool construction allows to pull injector with high force
- 1 injector socket set, 12.5 mm (1/2") drive, internal hexagon 10 mm
- 1 protection ring for mounting under the pull-out sleeve
- 1 socket 29 mm, slot opening: 50 mm, drive: 22 mm
- 1 pulling spindle / pull-out sleeve, external hexagon drive: 21, 22 mm, slot opening: 85 mm



Item # 8244

Extractor for Common Rail Injector Needles

- the 3-jaw puller allows a safe removal even of stuck injectors
- it is not necessary to drill a hole into the injector needle, thus even injector needles, which rotate when drilling a hole can be removed







Adjustment & O-Ring Mounting Tool Set for VAG Pump-Nozzle Unit

- allows precise positioning of the pump /nozzle unit and a damage-free installation of the O-rings
- not correctly installed pump/nozzle units present a risk of damage to the cylinder head and the pump/nozzle unit

suitable for following VAG Pump/Nozzle engines:

- 5 cyl. & 10-cyl. VW Phaeton, Touareg as of 2003, T5 as of 2004, etc.
- 4 cyl. VW Golf, Touareg, Audi A3 from 2004, etc.
- setting gauge, steel made, to be used as OEM T10210
- O-ring mounting sleeve, brass made, to be used as OEM T10056/1
- O-ring mounting sleeve, brass made, to be used as OEM T10056/2
- O-ring mounting sleeve, brass made, to be used as OEM T10056/3
- O-ring mounting sleeve, brass made, to be used as OEM T10164/1
- O-ring mounting sleeve, brass made, to be used as OEM T10164/2



Item # 8954

FSI Nozzle Assembly/Disassembly Set

- suitable for VW, Audi, Seat, Skoda with direct injection engines and engines with pump-injector units
- to be used as OEM tool kit T10133 + T10163
- puller for dismantling FSI injectors, use as T10133/1
- puller claw for dismantling FSI injectors, use as T10133/2
- sliding hammer, use as T10133/3
- cone for mounting the combustion chamber rings use as T10133/53
- calibration tools for mounting the combustion chamber rings, use as T10133/6, T10133/7, T10133/8
- built-in pin for mounting the FSI injectors, to be used as T10133/9
- extractor for dismantling pump-injector units



Item # 68345

Injector Removal Tool | for Air Hammers

- for disassembly of hard to remove injectors
- special construction with pulling rod and sliding clamp for extracting injectors with air hammers
- suitable for pneumatic hammer BGS 3515, injector dismantling claw from BGS 7777 and separate claws 7777-1, 7777-2, 7777-3
- material: S45C / Cr-Mo steel
- overall length: 510 mmhandle length: 110 mm
- Item # 9308







Injector Gasket Puller | 350 mm

- especially developed for extracting burnt in copper sealing washers from the injector shaft
- helps to avoid damages to the cylinder head
- slim construction with conical tip, knurled handle and sliding weight

Item # 62630-1



Injector Gasket Puller | 230 mm

 for removal of hard to loosen copper rings in the injector shaft of injection engines





Injector Seat and Shaft Cleaning Set

- allows efficient cleaning of injector ports, injector nozzle ports in cylinder heads and injector seats
- suitable for a wide range of vehicles
- helps to avoid blow-back due to poorly seated injectors
- 3 steel wire brushes
 - brass coated
 - for removing combustion residues on injector ports
- 2 silicone nylon brushes
 - for cleaning injector seat surfaces in the cylinder head
 - provides a smooth surface on injector seat
- 1 extension bar with quick-action chuck for brushes
- 6 injector bore sealing plugs for sealing the combustion chamber during the cleaning process
- 1 mounting / disassembly rod for inserting / removing the sealing plug
- 1 steel wire brush for cleaning nozzle holes in the cylinder head



Item # 9324

Glow Plug Shaft Cleaning Brush

- for professional cleaning of the glow plug shaft
- cleaning of the shaft is recommended before installation of new glow plugs
- steel brush length: 105 mm, Ø 9 mm
- length: 310 mm





Injector Extractor Set | for BMW Petrol Direct Injection

- allows easy removal of injectors and is required for installing fuel injector seals on e.g. following engines:
 - BMW N54 (6-cylinder), N63 (V8)
 - MINI N14 (4-cylinder), N18 (4-cylinder)
- sliding hammer with adaptor
- long bolt, 120 mm length
- short bolt, 70 mm length
- tapered cone, to be used as OEM 130195
- assembly sleeve with large diameter, to be used as OEM 130192
- assembly sleeve with medium diameter, to be used as OEM 130193
- assembly sleeve with small diameter, to be used as OEM 130194





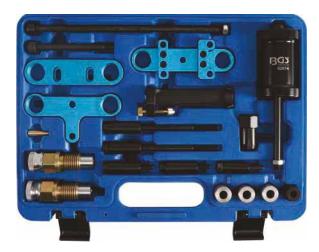


Fuel Injector Nozzle Tool Set | for BMW

- for removing / installing fuel injectors
- required for installing new injector seal rings and injectors

suitable for the following BMW models:

- 135is (2008-2010)
- 335 (2007-2010)
- 335xi (2007-2010)
- 535i (2008-2010)
- 535xi (2008-2010)
- 550i GT (2010-2013)
- 750i (2009-2013)
- 750Li (2009-2013)
- X3 3.0i (2007-2010)
- X5 (2011-2013)
- X5 3.0i (2008-2010)
- X6 (2008-2013)
- petrol injector tool for BMW N53 / N54 to be used as OEM 130180
- petrol injector tool for BMW N55 to be used as OEM 130270
- petrol injector tool for BMW N20 / N55 to be used as OEM 130320
- petrol injector tool for BMW N63 to be used as OEM 2249115
- injector tool, to be used as OEM 135250
- injector seal ring mounting tool set, to be used as 130190 / consisting of the following three tools:
 - injector seal ring mounting sleeve (Ø big), to be used as OEM 130192
 - injector seal ring mounting sleeve (Ø middle), to be used as OEM 130193
 - injector seal ring mounting sleeve (Ø small), to be used as OEM 130194
 - injector seal ring mounting cone, to be used as OEM 130195





Fuel Injector Tool for BMW

- for removing and mounting of fuel injector nozzles
- suitable for BMW inline cylinder turbo charged engines with direct injection from 2009
- to be used as BMW OEM 130270



Item # 62671

Injector Alignment Tool for Ford Duratorq | 2 pcs.

- for aligning the injectors to the fuel lines
- it is essential to have the injectors correctly aligned to avoid the risk of a fractured pipe
- suitable for Ford Duratorq engines 2.0 / 2.2 / 2.4 DI / TDCI / TDDI, built in Ford Mondeo 2000-2007 / Ford Transit 2000-2006 / Jaguar X-Type
- metal bar allows aligning of two injectors at the same time, to be used as OEM 303-678
- adjustable tool for aligning injectors, to be used as OEM 303-711





Item # 8884



Injector Puller | for Chrysler 2.5 & 2.8 CRD

- for extracting burnt and tightly stuck injectors
- suitable for Chrysler 2.5 / 2.8 CRD 16-valve VM engines







Injector Sealing Plug Set | 12 pcs.

- for sealing the injector prior to pressure loss test on the engine
- protects the injector from contamination and adhesion when the fuel line is removed
- 6 lock nuts M12 x 1.50 (with inside sealing cone)
- 6 lock nuts M14 x 1.50 (with inside sealing cone)
- for Opel, Mazda, Ford, Mercedes-Benz and others
- for injectors from: Siemens, Bosch, Denso, Delphi



Item # 9540

Tool Tray 1/6: Thread Repair Kit | for Injector Fastening Screws | 10 pcs.

- suitable for Mercedes-Benz CDI engines
- for reaming the broken-off expansion bolt & repairing the M6 thread in the cylinder head
- time saving as the replacement of the cylinder head and the removal of injectors and valve covers is not necessary
- damaged thread is reworked to size M8 x 1
- 1 twist drill 6 mm, with adjusting ring for drilled depth
- 1 step drill 7 to 8 mm, with adjusting ring for drilled depth
- 1 guide sleeve for 6 mm twist drill
- 1 tap M8 x 1
- 1 assembly tool for threaded inserts
- 5 threaded inserts, inner thread M6 x 1 / outer thread M8 x 1

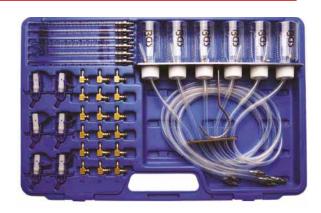


Item # 9538



Common Rail Diagnosis Kit | with 24 Adaptors

- flow back volume can be determined via glass tubes or measuring cups
- determination of the runback volume via glass tubes or measurement cartridges
- for common rail engines, up to 6 injector nozzles
- suitable for various injector brands
- includes 24 adaptors for Denso C3, C1, Siemens C3, Delphi, Bosch





Common Rail Diagnosis Kit

- flow back volume can be determined via glass tubes or measuring cups
- determination of the runback volume via glass tubes or measurement cartridges
- suitable for various injector brands



Item #	Description
8101	Common Rail Diagnosis Kit
8101-1	Replacement Tubes with Adaptor for BGS 8101 6 pcs.
8101-2	Plastic Bottle for BGS 8101, 8102
8101-LEER	Empty Case for BGS 8101

Adaptor for BGS 8101 | for Bosch, Denso, Siemens (Common Rail Diesel)

- to be used on injector nozzles together with common rail diagnosis kit BGS 8101
- addaptors fit all systems such as Siemens, Bosch, Denso etc.



Item # 8103

Injector Nozzle Tester

- tester contains gas canister, hand lever and pressure gauge with rubber protection
- for testing of injector nozzles
- suitable for all diesel injector nozzles (except CDI pump-injector elements)
- several characteristics of the injector nozzles can be tested:
 - opening pressure
 - spraying pattern
 - tightness of the nozzle
 - gas spraying pattern
 - acoustic control (sound pattern)
- pressure gauge up to 400 bar
- \bullet connecting hose and 3 adaptors included M12 x 1.5 mm, M14 x 1.5 mm and M17 x 0.75 mm
- large base with adaptation
- fuel tank made of plastic with integrated fine filter







Injector Nozzle Tester

- for precise adjusting of the injection pressure and for checking the opening pressure of the nozzles, spraying shape, tightness
- includes two adaptors M12 x 1.5 & M14 x 1.5 and gauge up to 600 bar



Item #	Description
62650	Injector Nozzle Tester
62650-1	Plastic Container with Cover for BGS 62650
62650-2	Connector for BGS 62650 M12 x 1.5
62650-3	Connector for BGS 62650 M14 x 1.5

Pliers Set for Loosening Fuel Line Connectors | 3 pcs.

• suitable for Fiat, Ford, Opel, Peugeot, Renault, Citroen, VW





Fuel Line Pliers | 230 mm

- for opening and closing fuel line clutches
- for removal and replacement of hose clip connections on in-line fuel filters
- a must-have when changing the fuel filter unit and repairing the engine
- used for Volkswagen VW-Audi, Fiat, GM, Opel, Mercedes-Benz (e. g. M class petrol engine) etc.







Release Pliers for Fuel Pipes and Fuel Filters on VW, Fiat, Opel etc.

- for quick and easy separating of gasoline quick locks
- suitable for quick coupler fuel filters and similar connections
- for all quick coupler that are separated by pressure on the outer ring
- electroplated surface
- handle dip coated









Removal Pliers for Fuel Lines

- for connections with rest tongues, such as those between fuel line and fuel filter
- suitable for VW, Audi, Volvo, Citröen, Fiat, Alfa and others
- angled head allows work in narrow spaces







Pliers for Removing Fuel Lines with Quick Couplers

 for removing fuel lines with quick couplers on filter units, and fuel tank breather

suitable for the following models:

- Fiat, Alfa Romeo, Lancia 1.3, 1.9, 2.4 I Diesel
- Opel Vectra C 1.9, Signum 1.9, Astra H 1.3, Astra H 1.9 Diesel, Corsa C, Combo, Meriva 1.3 Diesel, Corsa B, Astra F, Astra G, Vectra B, Omega B Petrol
- Chrysler Neon 1.8, Stratus 2.0 and 2.5
- Renault passenger cars since 1997

Item # 8314



Pipe Connector Removing Kit | 22 pcs.

- removing and disconnecting tools for pipe connectors
- for air conditioning, fuel, air and oil pipes
- fits nearly all brands



Item #

Pipe Connector Loosening Clip Set | 7 pcs.

- \bullet for pipes Ø 1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 7/8"
- for quick connecting sleeves in air conditioning systems and fuel lines
- on PVC display board

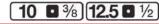








Fuel Pipe Wrench Set | for BMW | 2 pcs.



- required when disassembling / assembling injection nozzles
- especially designed for BMW engines N54, N63 and S63, also suitable for many other vehicle models
- compact design for use in confined spaces
- side opening allows 180 degree rotation
- includes the following socket sizes:
- socket, 12-pt, slotted, 17 mm, 12.5 mm (1/2") drive
- socket, 12-pt, slotted, 14 mm, 10 mm (3/8") drive







Fuel Line Tool for MINI Cooper

 for loosening the low pressure fuel feed line that supplies the high pressure fuel pump

suitable for following MINI Cooper S models:

- Clubman, JCW (R55), engine N14/18 (2008-03.2012)
- Hatchback, JCW (R56), engine N14/18 (2007-03.2012)
- Convertible, JCW (R57), engine N14/18 (2009-03.2012)
- Coupe,JWC (R58), engine N14/18 (2012-03.2012)
- Roadster, JWC (R59), engine N14/18 (2012-03.2012)
- Countryman, JWC (R60), engine N18 (2011-03.2012)
- to be used as OEM 130250







Fuel Line Disconnecting Tool | for BMW

- facilitates the separation of fuel line connections
- made of anodised aluminium
- suitable for 3-series built during 1999 to 2005 and X5







Tank Sensor Wrench, adjustable | 24 mm Drive

- all-purpose, adjustable from 75 to 160 mm
- for removing and tightening the plastic ring on fuel tank sender units









Spanner Set for Fuel Tank Senders

- for assembly and disassembly of the plastic retaining rings of the fuel tank sender unit
- 5 different shaped pairs of clamping arms allow use on a variety of fuel tanks
- can be used for diameters of 75-160 mm, 80-122 mm and 110-170 mm
- can be used with 2 and 3 arms
- 24 mm drive



Item # 8355

Tank Sensor Wrench, adjustable | 12.5 mm (1/2") Drive

12.5 1/2

- all-purpose, adjustable from 80 to 199 mm
- suitable for most models of Mercedes, BMW, Audi, Volkswagen, Citroen, etc.
- for removing and tightening the plastic ring on fuel tank sender units



Item # 9376

Universal 3-Arm Tank Sensor Wrench | 89 - 170 mm

- for loosening and tightening the mounting ring on tank sensors
- allows working in tight spaces
- diameter: adjustable from 87 to 170 mm
- drive 19 mm hexagon

Item # 9063



Tank Sensor Wrench for VAG

- for dismantling of tank sensor units
- special profile with 99 mm diameter
- length: 390 mm



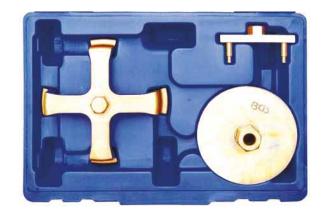


Fuel Tank Wrench Set for Mercedes-Benz

• for loosening and tightening the fuel sensor

scope of delivery:

- Mercedes-Benz 129, 140, 230
- Mercedes-Benz 163, 203, 209, 211, 219
- Mercedes-Benz 202, 208



Item # 8749

Tool for Fuel Sensor Retaining Ring on VAG and Porsche

12.5 1/2

- for removing and installing the locking ring on tank level sensors
- 120 mm internal diameter with 3 slotted teeth
- to be used as OEM T10202 (3087)

suitable for following models as of year 2000:

- Audi A3, A4, A6, A7, A8, Q3, Q7, R8, TT
- VW Polo, Beetle, Golf, Golf Plus, Jetta, Eos, Scirocco, Passat, Passat CC, Sharan, Touran, Tiguan, Touareg, Phaeton, Caddy, Transporter
- Porsche Cayenne
- 12.5 mm (1/2") drive



Item # 8969

Spline Socket for Mercedes Diesel Engine Injection Pumps | 33 teeth

12.5 1/2

 \bullet for assembly and disassembly of the injector pump

suitable for the following Mercedes-Benz engines:

- OM 601 2.0 I / 2.2 I / 2.3 I
- OM 602 2.5 I / 2.9 I
- OM 603 3.0 I / 3.5 I
- OM 605 2.5 I
- OM 606 3.0 I
- OM 615 2.0 I / 2.2 I
- OM 616 2.4 I
- OM 617 3.0 I
- length: 56 mm









Special Socket for Diesel Filters | 27 mm

12.5 1/2

- hexagon model
- overall height: 44 mm
- milled, 17 x 20 mm
- suitable for 2.0/2.2 HDI engines on Citroen, Ford, Lancia, Land Rover, Volvo, Peugeot







Diesel Filter Removal Tool Kit | for Opel / Fiat

- prevents damage to the fuel filter housing
- clamping device for clamping the filter housing in a bench vice
- special wrench allows easy disassembly of the housing cover
- suitable for:
 - Opel engines DA13, Z13DT, Z13DTH, Z13DTJ, Z19DT, Z19DTL, Z19DTH (not for Corsa-D and Meriva as of 2007)
 - Fiat-/Lancia engines 1.3 16V MJTD, 1.3 16V JDT, 1.9 8V JTD, 2.0 8V JDT, 2.2 16V JTD, 2.3 16V JDT, 2.8 JTD 3.0 16V JDT (only for vehicles with fuel filter insert)



Item # 8553

Fuel Filter Wrench

10 🖸 3/8

- diameter 109 mm
- especially designed for installing and removing Citroen, Peugeot and Renault fuel filters





Special Wrench for Fuel Filters on HDI Engines

- suitable for Peugeot, Renault, etc., with HDI engines
- 10 mm (3/8") drive
- for filter caps with Ø 108 mm with 46 grooves









Diesel Fuel Filter Wrench for Volvo

10 🗖 3/8

- for removing and installing fuel filters on Volvo Diesel engines
- suitable for
 - Volvo C30, C70, S40, S60, S80, V50, V60, V70, XC60, XC70, XC90
 - VW Crafter 5-cylinder diesel since 2006
- 10 mm (3/8") drive
- to be used as OEM Volvo 9997084, VW T50011







Fuel Filter Tool for Diesel JTD / CDTi / DDiS / TiD / VCDi / Hdi

- for changing the fuel filter insert on Chevrolet, Citroen, Fiat, Saab, Suzuki, Opel
- with following engines:
 - 1.3 JTD / CDTi / DDiS
 - 1.9 JTD / CDTi / TiD
 - 2.0 VCDi / HDi / JTD
 - 2.2 HDi / JTD
 - 2.8 HDi / JTD
 - 3.0 HDi / JTD





Diesel Filter Wrench for VW 2.0 TDI

- special design for renewing of the diesel filter on Audi / VW / Skoda / Seat 2.0I TDi
- material: chrom molybdenum steel/S45C steel
- surface finish: satin chrome plated



Item # 8870

Fuel Filter Tool for VAG 1.4 / 1.9 / 2.0 TDI

- required for assembling the fuel filter housing cover when e. g. replacing the filter cartridge
- ensures an equal and distortion-free pressing of the housing cover into the sealing seat
- when assembling the filter cover without this tool there is the danger that the filter cap twists and the filter unit is leaking
- suitable for Audi, VW, Seat, Skoda diesel vehicles with UFI fuel filter unit





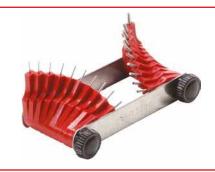


Nozzle Gauge | 0.45 - 1.50 mm | 20 pcs.

- to check nozzles for damage
- Ø 0.45 0.50 0.55 0.60 0.65 0.70 0.75 0.80 0.85 0.90 0.95 1,00 1.05 1.10 1.15 1.20 1.25 1.30 1.40 1.50 mm







Carburetor Screwdriver with Drive Shaft

- facilitates the adjustment of carburettor kits, particularly suitable for work in tight spaces such as motorcycles
- suitable for slotted screws
- slot size: 1 x 5 mm
- adjustable depth stop 0 5.5 mm
- marked, lockable knurled sleeve for detecting the range of rotation
- length: 470 mm





Diesel Bleeding / Primer Kit | 12 pcs.

- for bleeding the low pressure side on diesel fuel systems
- is required when renewing diesel filters and pumps or other components of the diesel injection system
- prevents defects of high pressure pumps (CDI) which frequently occur during renewing filters without manual filling
- includes 6 different adaptor hoses and hand pump with valve
- suitable for vehicles of the following brands: Ford, PSA, Opel, Fiat, Rover, Land Rover, Renault, Mercedes-Benz

Item #	Description
8819	Diesel Bleeding / Primer Kit 12 pcs.
8819-1	Tool Tray, empty: for BGS 8819



Hose / Tube Connector Kit for Bleeding Diesel Systems

- for bleeding / filling of diesel injection systems
- suitable for hose / pipe connections
- to be used with e. g. BGS 8080, 8066, 3157, 3155
- 90° angled coupling
- straight coupling
- rubber pipe connector
- straight coupling adaptor









Socket Set for Bosch Distributor Injection Pumps | 5 pcs.

12.5 1 1/2

- is required when replacing, setting, disassembling and assembling Bosch diesel distributor injection pumps
- suitable for 3-point screw heads
- socket for EDC pump covers (1996-2003) on Bosch VP 37 distributor pumps
 - 6.3 mm (1/4") drive / external hexagon 15 mm socket, 3-point, 7 mm
- socket for Bosch distributor injection pumps (Bosch OEM No. 098661750)
 - 6.3 mm (1/4") drive external square 12.5 mm (1/2") socket, 3-point, 12.6 mm
- socket for cover screws on distributor pumps
- 12.5 mm (1/2") drive socket, 3-point, 13 mm
- socket for central screw (high pressure side) on Bosch VE and VP distributor pumps
- 12.5 mm (1/2") drive socket, 3-point, 26 mm
- socket for pressure control valves on Bosch VP37 distributor pumps
 - 12.5 mm (1/2") drive with 2 surfaces, 12.4 mm



Item # 9175



Socket Set for Bosch Distributor Injection Pumps

12.5 1/2

- is required when replacing, setting, disassembling and assembling Bosch Diesel distributor injection pumps
- socket, 3-pt., 14 mm, for cover screws on distributor pumps, 12.5 mm (1/2") drive
- socket, 3-pt., 26 mm for central screw (high pressure side) on Bosch VE and VP distributor pumps, 12.5 mm (1/2") drive
- socket, with 2 areas, 12.4 mm pressure control valve on Bosch VP37 distributor pumps drive, 12.5 mm (1/2") drive







Sockets for Bosch Injection Pumps | 3-pt | 7 / 12.6 mm

- for loosening the triangle head screws in the flow controller cover
- suitable for Bosch common rail and TDI injection pumps
- sizes: 7 and 12.6 mm









CNG Cylinder Valve Wrench

• for disassembly of gas cylinder valves

Item #	Description
64200	CNG Cylinder Valve Wrench for Fiat Multipla I
64201	CNG Cylinder Valve Wrench for Fiat Multipla II, Punto / Citroen C3
64203	CNG Cylinder Valve Wrench for Opel Zafira II, Combo
64204	CNG Cylinder Valve Wrench for Citroen C3 (small Valve))
64205	CNG Cylinder Valve Wrench for Citroen C3 (large Valve)
64206	CNG Cylinder Valve Wrench for Fiat Panda, Grande Punto
64207	CNG Cylinder Valve Wrench for VW Touran, Caddy, Passat
64208	CNG Cylinder Valve Wrench for Type NGT
64202	CNG Cylinder Valve Wrench for Opel Zafira I



Alternator Tool Set | 30 pcs.

10 1 % 12.5 1 ½

- for removing belt pulleys on alternators
- includes special bits, wrench and bit sockets
 - socket for 3-hole bolts, hole 28 mm, 3x 4 mm pins, 38
 - socket for 4-hole bolts, hole 26 mm, 4x 4 mm pins, 15
 - internal hexagon sockets with a through-hole for counterholding bits: 15 x 28 19 x 28 20 x 28 22 x 28 22 x 22 17 x 17 22 x 28 mm
 - multi-point sockets with a through-hole for counterholding bits: 33Z x 15 mm - 33Z x 17 mm - 33Z x 22 mm
 - bit sockets T-Star (for Torx) with 12.5 mm (1/2") drive: T50 x 200 mm -T50 x 145 mm
 - bit sockets internal hexagon (for Torx) with 12.5 mm (1/2") drive: M10 x 200 mm - M10 x 145 mm
 - bits 75 mm long, 10 mm drive: T-Star (for Torx) T40 T50, spline (for XZN) M8 - M10, internal hexagon 8 mm - 10 mm
 - 12 mm ratchet wrench
 - bit sockets to be used with ratchet wrenches T50 x 65 mm, spline (for XZN) M10 x 65 mm
 - 12.5 mm (1/2") drive bit sockets: T50 x 115 mm spline (for XZN) M10 x 115 mm with 33-tooth attachment
 - 10 mm (3/8") drive bit socket: spline (for XZN) M10 x 90 mm



Item #	Description
4248	Alternator Tool Set 30 pcs.
4248-4	33-tooth Attachment external Hexagon Drive for BGS 4248 15 mm
4248-2	Special Bit for Dismantling Belt Wheels on Alternators T-Star (for Torx) M50 x 64 mm
4248-3	Special Bit for Dismantling Belt Wheels on Alternators Spline (for XZN) M10 x 64 mm



Alternator Bit and Socket Set | 23 pcs.

- special bit set with alternator combination sockets (also for air conditioning compressors), for assembly and disassembly of the freewheel pulley
- multi-tooth 15 mm, 33 tooth, Ø17.5 mm socket
- multi-tooth 15 mm, 33 tooth, Ø19.5 mm socket
- multi-tooth 22 mm, 33 tooth, Ø19.5 mm socket
- adapter for pulley wrench, 19 mm and 28 mm
- adapter for pulley wrench, 22 mm and 28 mm
- 3-pin adapter, external hex drive 38 mm
- 4-pin adapter, external hex drive17 bits, length 70 mm, hexagon 10 mm drive, hexagon H10 mm
- bits, length 75 mm, external hexagon drive 10 mm (3/8"), hexagon socket 8 and 10 mm, bits length 75 mm, external hexagon drive 10 mm (3/8"), spline (for XZN) M8 and M10
- bits, length 75 mm, external hexagon drive 10 mm (3/8 "), T-star (for Torx) T40 and T50 bit adapter with retaining ball, square 12.5 mm (1/2") drive hexagon socket 10 mm (3/8") bit socket for alternator, external hex drive 12 mm, spline (for XZN) M10
- bit socket, length 90 mm, 10 mm (3/8") drive, spline (for XZN) M10
- bit socket, length 110 mm, 12.5 mm (1/2") drive, spline (for XZN) M10
- bit socket, length 140 mm, 12.5 mm (1/2") drive, spline for XZN) M10
- bit socket, length 110 mm, 12.5 mm (1/2") drive, T-star (for Torx) T50Special insert, external hex drive 17 mm
- special socket, external hex drive 21 mm
- special socket, external hex drive 22 mm and 28 mm
- incl. adapter for BMW, Fiat, Ford, Mercedes-Benz, Opel / Vauxhall, Porsche, Renault, Toyota, VAG etc.







Alternator Bit/ Bit Socket Set | 12.5 mm (1/2") | 13 pcs.

12.5 1/2

- special bit set with alternator combination wrenches (also air conditioning compressor) for assembling belt pulleys
- spline pulley key, 15 mm, 33 teeth, bored
- spline pulley key, 22 mm, 33 teeth, bored
- adapter for pulley wrench 22 and 28 mm
- 4-pin adapter, 17 mm drive
- bits, length 75 mm, external hexagon 10 mm (3/8") drive, internal hexagon H8 and H10 mm
- bits, length 75 mm, external hexagon 10 mm (3/8") drive, spline (for XZN) M8 M10
- bits, length 75 mm, external hexagon 10 mm (3/8") drive, T-Star (for Torx) T40 and T50
- bit socket for alternator, 12.5 mm (1/2") drive, spline (for XZN) M10
- bit socket for alternator, 12.5 mm (1/2") drive, T-Star (for Torx) T50
- bit adaptor with retaining ball, 12.5 mm (1/2") drive internal hexagon 10 mm (3/8")
- includes adaptors for VW, Audi, Seat, BMW, Mercedes-Benz, Ford





Item #	Description
4246	Alternator Bit/ Bit Socket Set 12.5 mm (1/2") 13 pcs.
4246-LEER	Empty Case for BGS 4246

Alternator Tool Set | 4 pcs.

- for disassembly of alternators
- T-star (for Torx) bit T50, 64 mm long with 12 mm external hexagon and retaining ball
- spline bit M10 (for XZN), 64 mm long with 12 mm external hexagon and retaining ball
- 33 tooth bit with 15 mm external hexagon
- ratcheting ring spanner 12 mm







Alternator Bit Socket | 12.5 mm (1/2") Drive | T-Star (for Torx) T50

12.5 1/2

- for e. g. Mercedes-Benz A-class
- 33 tooth pulley holder
- profile: T-Star (for Torx) T50
- length: 110 mm











Alternator Bit Socket | 12.5 mm (1/2") Drive | Spline (for XZN) M10

12.5 1/2

- for VW, Audi, Skoda, Seat, Porsche BMW, Ford, Mercedes-Benz
- 33 tooth pulley holder
- profile: Spline (for XZN) M10
- length: 110 mm

Item # 4245





Flywheel Locking Tool Set | for BMW

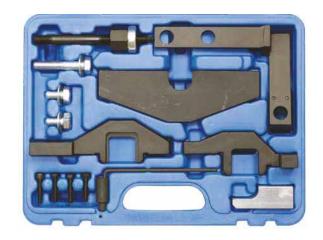
- for locking of the crankshaft
- for locking the flywheel (crankshaft) when loosening the flywheel screws, loosening the crankshaft pulley screws or other jobs where a locking of the crankshaft is required
- suitable for following BMW engines: M47T2, M47TU, M57T2, M57TU, M67, N45, N45T, N46, N46T, N51, N52, N53, N54, W17
- to be used as OEM 118180, 118182, 118183, 118184, 118185



Item # 8573

Engine Timing Tool Set | for MINI | 13 pcs.

- for engine codes W10, W11, N14
- suitable for following car models: MINI One, Cooper, Cooper S, Cooper S JC Cooper S JCW (series R50-52-53-55-56-57)
- · camshaft assembling / disassembling
- crankshaft locking tool, to be used as OEM 119551 and 119552
- crankshaft locking tool, to be used as OEM 119590
- chain tensioner tool to, be used as OEM 119340





Engine Timing Tool Set | for BMW, MINI, PSA

- for aligning the new and old version of balance shafts
- prevents noncircular engine running by misaligned balance shafts
- is required when renewing timing chain, crankshaft sealing ring, replacing the cylinder head gasket, etc.

suitable 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 / N52-Component / N53 / N54)
- PSA 1.4 / 1.6 16V (EP3 / EP6 / EP6DT / EP6DTS)
- MINI 1.4 / 1.6 (N12 / N14)
- locking tools for old and new version of balance shaft
- crankshaft locking tool
- locking pin for chain tensioner
- to be used as OEM 115140, 119280, 119330





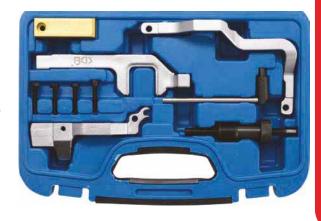
Engine Timing Tool Set | for MINI, PSA | 10 pcs.

• is needed for replacing the cylinder head sealing and engine timing

suitable for the following models:

- MINI One, Cooper HB, Cooper (R55-56) engine N12
- Citroen C4 (manufactured between 2008 and 2009), C4 Picasso (manufactured between 2008 and 2009)
- Peugeot 207 (manufactured between 2006 and 2009), 207CC (manufactured between 2007 and 2009), 308 (manufactured between 2001 and 2009)
- engines: 1.4 / 1.6 VTi, EP3 (8FS) EP6 (5FW), EP6C 1.6 THP, EP6DT (5FX) EP6DTS(5FY)
- crankshaft locking tool to be used as OEM 119590 / 0197-BZ
- camshaft locking tool to be used as OEM 119540 / 0197-A1 / 0197-A3
- chain tensioner to be used as OEM 119340 / 0197-M







Engine Timing Tool Set | for BMW M52, M54, M60, M62

- · for adjusting and checking the engine timing
- suitable for the following BMW models: 320 E46 323 E46 325 E46 328 E46 330 E46 520 E39 520 E60 520 E39 523 E39 525 E60 528 E39 530 E34 540 E34 535 E39 530 E39 530 E60 728 E38 730 E65 730 E35 730 E32 735 E38 740 E32 740 E38 X3 E83 X5 E53 Z3 Z4 E85
- camshaft adjusting tool (M52, M54), to be used as OEM 11 6 150
- vanos tool (M52, M54), to be used as OEM 11 3 450
- camshaft adjusting tool cyl. 1-4 (M60, M62), to be used as OEM 11 2 445 / OEM 11 2 441
- camshaft adjusting tool cyl. 5-8 (M60, M62), to be used as OEM 11 2 442 / OEM 11 2 446
- chain tensioner (M52, M54), to be used as OEM 11 4 220
- chain tensioner (M60, M62) to be used as OEM 11 4 230
- crankshaft adjusting tool, to be used as OEM 11 2 300
- adaptor (M52, M54)
- tensioner pin (M60, M62)



Item # 8534

Engine Timing Tool Set | for BMW N43

· for checking and adjusting the engine timing

suitable for the following BMW models:

- 1 (E81 E82 E87 E88) 2006 2012
- 3 (E90 E91 E92 E93) 2006 2012
- 5 (E60 E61) 2007 2010
- motorcodes: N43 (B16A/AA) N43 (B20A) N43 (B20AA) N43 (B20AY)
 N43 (B20KO) N43 (B20UO)
- tool for chain tensioner
- · camshaft locking tool
- balance shaft locking tool
- crankshaft locking tool
- to be used as OEM 113340 118690 118691 118692 118693 119340 119341 119342 118710 118711 118712 118700 115120





Engine Timing Tool Set | for BMW N47, N47S, N57

- for adjusting and checking the engine timing
- is required while dismantling and mounting the camshaft, replacing the timing chain and cylinder head gasket
- suitable for BMW Diesel engines with engine codes N47 N47S N57 -N57S, installed in the following vehicles:
 - 116d 118d 120d 123d, series E81 E82 E87 E88 F20
 - 316d 318d 320d 325d 330d series E90 E91 E92 E93 F30
 - 520d 525d 530d 530d GT 535d 535d GT M550d, series E60 E61 F07 F10 F11
 - 640d series F12
 - 730d 740d 750d, series F01
 - X1 1.8d 2.0d 2.3d, series E84
 - X3 1.8d 2.0d 3.0d, 3.5d series E83 F25
 - X5 3.0d 4.0d M5.0d, series E70
 - X6 3.0d 4.0d M5.0d, series E71
- crankshaft turning tool, to be used as OEM 116480
- camshaft locking tool, to be used as OEM 118760
- pump sprocket support sleeve, to be used as OEM 118740 / 118741 / 118742
- crankshaft pulley locking tool, to be used as OEM 115320



Item # 8724

Double Vanos Adjustment Tool Set for BMW M52TU / M54 / M56

- for setting the vanos units on BMW M52TU / M54 / M56 engines
- VANOS setting tool, to be used as OEM 116150
- pressure connection, to be used as OEM 113450
- secondary sprocket mounting device, to be used as OEM 116180









Engine Timing Tool Set | for BMW N62, N73

• for checking and adjusting the engine timing

suitable for the following BMW models:

- E60, E61, E63, E64, E65, E66, E53
- 540i, 545i, 550i, 645i, 650i, 735i, 740i, 745i, 750i, 760i, X5
- with engines of the series:
 - N62 B40A, B44A, B48B (manufactured between 2003 and 2010)
 - N62 B44A, B48B (manufactured between 2003 and 2010)
 - N62 B36A, B40A, B44A, B48B
 - N73 B60A (manufactured between 2002 and 2008)
 - N62 B44A, B48A (manufactured between 2003 and 2007) Holder to use as OEM 119463
- timing chain tensioner, to be used as OEM 119340
- intake camshaft lock, to be used as OEM 119461
- exhaust camshaft lock, to be used as OEM 119462
- crankshaft lock, to be used as OEM 119451
- wheel segment, to be used as OEM 113460
- spacer, to be used as OEM 119452
- socket, to be used as OEM 119454
- special ring with pointer, to be used as OEM 119453
- crankshaft pin, to be used as OEM 119190



Item # 8746

Engine Timing Tool Set | for BMW M42, M50

- for adjusting the engine timing after e. g. changing the timing chain or cylinder head gasket
- suitable for BMW engines M42 and M50
- · camshaft locking tool
- flywheel locking tool
- to be used as OEM 113240 and 112300



Item # 8747



Engine Timing Tool Set | for BMW M60 / M62

- for adjusting the engine timing after changing the timing chain and cylinder head gasket, for example
- suitable for BMW engines M60 and M62
- camshaft locking tool
- flywheel locking tool
- to be used as OEM 112441, 112442, 112445, 112446, 112300, 113390





Camshaft Bearing Cap Tool | for BMW N51 / N52

- for installation of the exhaust camshaft bearing strip
- is used when replacing the camshaft
- to be used in combination with BGS 62619
- press-down tool, 2-cylinder, to be used as OEM 114 461
- 2 M7 screws, to be used as OEM 114 462
- 6 thrust pieces, to be used as OEM 114 463



Item # 8794

Engine Timing Tool Set | for BMW N42, N46, N46T

• for adjusting / checking the engine timing and vanos unit

suitable for the following BMW 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)
- pre-tensioning tool, to be used as OEM 119340
- sensor gear alignment tool, to be used as OEM 119350
- inlet camshaft locking tool, to be used as OEM 119292
- exhaust camshaft locking tool, to be used as OEM 119291
- flywheel locking pin, to be used as OEM 115120
- camshaft alignment tool, to be used as OEM 119270
- screw for camshaft locking tool, to be used as OEM 119293
- crankshaft locking tool, to be used as OEM 119190





Engine Timing Tool Set | for BMW, Land Rover V8

- for adjusting and checking the engine timing
- required for e. g. working on valve drive and renewing the cylinder head gasket

suitable for the following models:

- BMW 530i (1994 1995), 540i (1997 2003), 740i (1993 1995), 740iL
 (1993 2001), 840Ci (1995 1996), X5 (2000 2003)
- Rover Range Rover with M60, M62 and M62TU V8 engines
- exhaust camshaft locking tool (cyl. 1-4), to be used as OEM BMW 112445 | Rover LRT 12-223/2
- inlet camshaft locking tool (cyl. 1-4), to be used as OEM BMW 112441 | Rover LRT 12-223/1
- inlet camshaft locking tool (cyl. 5-8), to be used as OEM BMW 112442 | Rover LRT 12-223/3
- exhaust camshaft locking tool (cyl. 5-8), to be used as OEM BMW 112446 | Rover LRT 12-223/4
- fixing tools for camshaft locking tools (A-D)
- crankshaft alignment pin to be used as OEM 112300
- timing chain pre-tensioner, to be used as OEM 113390







Crankshaft Pulley Holder and Rotating Tool Set | for BMW 2.5D

- for rotating the diesel engine crankshaft and holding the crankshaft pulley while loosening or tightening the middle pulley bolt
- allows safe and damage-free removing and installation of crankshaft pulleys
- suitable for 2.5 I diesel engines, built in BMW models: 325, 330, 335, 525, 530, 535, 730
- engine codes: M57N256D2, M57306D3, M57306D4, M57306D5, M57D30A, M57N206D3, M57N2306D3, M57N306D2, M57N306D3, M57N306D5, N57N306D2, N57N306D3
- crankshaft pulley holding tool, to be used as OEM 117222, 117223, 117221
- crankshaft rotating tool, to be used as OEM 116480







Crankshaft Holding Tool | for BMW N47 / N57

- for locking the crankshaft
- to be used as OEM 114320
- required when replacing the secondary drive chain
- supplementary tool for engine timing tool set for BMW BGS 8724







Engine Timing Tool Set | for BMW 1.6

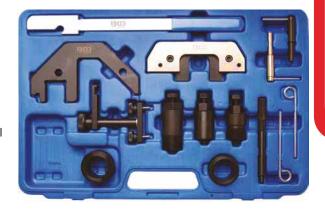
- suitable for timing chain driven petrol engines with vanos, engine codes N40, N45, N45T (B16)
- for the following BMW models: 116 1.6 i E81/ E 87316 1.6 i E46 / E90316 1.6 Ci E46316 1.6 ti E46
- crankshaft timing pin to be used as OEM 119190
- timing chain pre-tensioning tool to be used as OEM 119340, 119341
- camshaft alignment tool (inlet) to be used as OEM 117252
- camshaft alignment tool (exhaust) to be used as OEM 117251
- vanos setting tool, to be used as OEM 117260



Item # 62614

Engine Timing Tool Set | for BMW Diesel | 13 pcs.

- suitable for the following models:
 - BMW 1, 3, 5, 6, 7, X3, X 5 (E34-36-38-39-66-83-90-91-92-93 series)
 - Landrover Range Rover, Freelander
 - Rover 75, MG, MG ZT
- Vauxhall / Opel Omega-B
- engine codes:
 - M41, M51, M47 M47 TU/T2, M57 TU/T2 2.0l/3.0l 1998-2008
 - 204D3 / Td4, Td 6
 - M47R
- timing chain counterholder, to be used as OEM BMW 113360 / Range Rover LRT-12-115
- camshaft locking tool, to be used as OEM BMW 116321 (116320) / Opel KM6267
- holder for camshaft locking tool, to be used as OEM BMW 116322 (116320)
- injection pump puller (long), to be used as OEM BMW 135120
- injection pump puller, to be used as OEM BMW 135120 / Range Rover LRT-12-119
- injection pump puller (short), to be used as OEM BMW 135191, 135192 (135190) / Opel KM6270
- threaded ring, to be used as OEM BMW 135191, 135192 (135190) / Opel KM6270
- camshaft locking tool, to be used as OEM BMW 113320 / Rover LRT-12-112
- crankshaft locking pin, to be used as OEM BMW 115180
- crankshaft locking pin, to be used as OEM BMW 116080
- tensioner locking pin, to be used as OEM BMW 113340 / Range Rover LRT-12-114 / Opel KM-823
- crankshaft locking pin, to be used as OEM BMW 112300 / Range Rover LRT-12-108



Item #	Description
62616	Engine Timing Tool Set for BMW Diesel 13 pcs.
62616-2	Camshaft Locking Tool for BMW for BGS 62616



Engine Timing Tool Set | for BMW Petrol Engines | 26 pcs.

- for engine codes N42, N46, B18/-A, B20/-A/-B
- suitable for the following models:
- BMW 1, 3, 5, X3, Z4 (E87-46-60-85-83-90-91 series)
- for camshaft assembling / disassembling
- valve timing of camshafts
- clamps for intermediate lever, to be used as OEM 119310
- bearing bridge holder, to be used as OEM 119320
- thumbscrew, to be used as OEM 119302
- eccentric shaft holder, to be used as OEM 119301
- camshaft locking tool, to be used as OEM 119290
- camshaft locking tool (inlet), to be used as OEM 119302
- clamping tool, to be used as OEM 119340
- spring holder, to be used as OEM 119390
- camshaft sensor tool, to be used as OEM 119350
- fastening screw, to be used as OEM 119390
- camshaft rotation key, to be used as OEM 119270
- crankshaft locking tool (straight), to be used as OEM 112300
- mounting bolts 3x, to be used as OEM 119320
- fastening screw, to be used as OEM 119290
- camshaft locking tool, to be used as OEM 119290
- crankshaft locking tool (angled), to be used as OEM 119190
- mounting bolts, to be used as OEM 119320
- setting tool for balancer shaft to be used as OEM 119330



Item #	Description
62617	Engine Timing Tool Set for BMW Petrol Engines 26 pcs.
62617-14	Camshaft Locking Tool for BMW N42 / N46 for BGS 62617

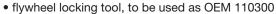


Engine Timing Tool Set | for BMW N51, N52, N52K, N53, N54, N55

- for engine codes: N51, N52, N52K, N53, N54, N55
- contains important tools, e. g.: camshaft assembling / disassembling, timing belt change, checking and adjustment of valve timing

suitable for the following models:

- E60 523i ,523Li, 525i, 525Li, 525xi, 528i,528xi, 530i, 530Li, 530xi, 535xi
- E61/E63 523i, 525i, 525xi, 530i, 530xi, 535xi, 630i
- E64/E65 630i, 730i
- E66/E70 730Li, X5 3.0Si
- E81/E82 130i, 135is
- E93 325i, 328i, 330i, 335i
- E83 X3 2.5i, 2.5Si, 3.0i, 3.0Si
- 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



- camshaft locking tools, to be used as OEM 114280, 114281, 114282, 114283
- camshaft wheel adjusting tool, to be used as OEM 118520
- camshaft wheel adjusting tool, to be used as OEM 112904



Item # 62619

Engine Timing Tool Set | for BMW N63

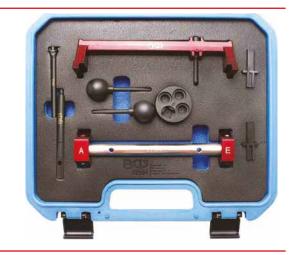
- for adjusting the engine timing when replacing timing chain, cylinder head repair, replacing the cylinder head gasket, etc.
- crankshaft locking tool, to be used as OEM 118570 / 119190
- camshaft locking tool, to be used as OEM 119890
- thumbscrew, to be used as OEM 119891
- depressing bar, to be used as OEM 119892
- snap gauge for intake and exhaust camshaft, to be used as OEM 119893
- spacer, to be used as OEM 119894





Engine Timing Tool Set | for BMW S54 | 8 pcs.

- for checking and setting camshaft timing when installing vanos adjustment unit on S54 engines
- suitable for the following models:
 - BMW M3 convertible (00-06), Sports Coupe (99-06), CSL Sport Coupe (03-04)
- to be used as OEM 119140, 119130119170, 117340, 115100, 17160, 112300, 110480



Item # 62634

Engine Timing Tool Set | for BMW N20, N26 | 10 pcs.

 for checking and setting camshaft timing when e. g. working on the valve train, renewing the cylinder head gasket, etc.

suitable for the following BMW models:

- 320i (F30) (2.0L N20B20) since 2012
- 328i (F30) (2.0L N20B20) since 2012
- X1 xdrive20i, sdrive20i (E84) (2.0L N20B20) 2010-2012
- to be used as OEM 83302212831, 83302212830, 83302219548, 119340



Item #	Description
62637	Engine Timing Tool Set for BMW N20, N26 10 pcs.
62637-1	Empty Case for BGS 62637

Engine Timing Tool Set | for BMW N13, N18

• for checking and setting camshaft timing when e. g. working on the valve train, renewing the cylinder head gasket, etc.

suitable for the following BMW models:

- 114i (F20) (N13B16) since 07/2012
- 116i (F20) (N13B16) since 09/2011
- 316i (F30) (N13B16) since 11/2012
- 118i (F20) (N13B16) since 09/2011
- 320i EfficientDynamics (F30) (N13B16) since 11/2012
- to be used as BMW OEM 117440, 119340, 496709, 119590, 2299362





Engine Timing Tool Set | for BMW M62 Vanos

- for checking and adjusting the engine timing
- suitable for e. g. following engine series: M62B35 M62B44 M62TUB44
- vanos valve socket, to be used as OEM 11 6 42
- chain tensioner tool, to be used as OEM 11 7 380
- rotating tool, to be used as OEM 11 6 440
- transmitter wheel tool set, to be used as OEM 11 6450, consisting of:
 - transmitter wheel tool for cylinder 1 to 4, to be used as OEM 11 6 451
 - transmitter wheel tool for cylinder 5 to 8, to be used as OEM 11 6 452
- camshaft locking tool for cylinder 1 to 4, to be used as OEM 11 2 445 / 11 2 441
- camshaft locking tool for cylinder 5 to 8, to be used as OEM 11 2 442 / 11 2 446
- chain tensioner, to be used as OEM 11 3 390
- crankshaft locking tool, to be used as OEM 11 2 300



Item # 8602

Tool Tray 1/3: Engine Timing Tool Set | for BMW S65

- for adjusting the engine timing, when replacing the timing chain, cylinder head gasket, etc.
- suitable for following models with S65 engines: BMW M3 E90 / E92 / E93 (>2007) Wiesmann MF4 (>2009)
- camshaft adjusting tool (inlet), to be used as OEM 11 9 971
- camshaft adjusting tool (exhaust), to be used as OEM 11 9 972
- crankshaft locking tool, to be used as OEM 11 5 320
- vanos adjusting tool, to be used as OEM 11 5 370
- chain tensioner locking tool, to be used as OEM 11 5 290
- 6 mounting screws for camshaft adjusting tools



Item # 9458



Crankshaft Rotating Tool | for BMW M52 / M54 / M56

12.5 1 1/2

- for holding the crankshaft pulley while loosening or tightening the middle pulley bolt
- allows safe and damage-free removal / installation
- to be used as OEM 116480









Belt Pulley Counterholding Wrench | for BMW M52TU / M54 / M56

- for holding the crankshaft pulley while loosening or tightening the middle pulley bolt
- allows safe and damage-free removal / installation



Item # 8744

Belt Pulley Counterholding Wrench | for BMW M52TU / M54 / M56

- for holding the crankshaft pulley while loosening or tightening the middle pulley bolt
- allows safe and damage-free removal / installation
- to be used with 12.5 mm (1/2") ratchet, sliding T-bar, etc.



Item # 8745

Balance Shaft Adjusting Tool | for BMW N40 / N42 / N45 / N46

• for adjusting the balancer shaft





Fuel Injector Tool | for BMW N20 & N55

 for disassembly and assembly of fuel injectors on gasoline direct injection engines N20 and N55





Intermediate Lever Spring Tool | for BMW

- for disassembly and assembly of pressure springs on the valve intermediate lever
- suitable for BMW engines N20, N51, N52, N52K, N52T, N55
- ensures quick, easy and safe handling of these high-force springs
- to be used as OEM 114270



Item # 8921

Water Pump Holder | for BMW M60, M62, M62TU

- for holding the water pump hub during removal of the fan clutch
- each side of the tool is applicable to different models
- side 1 for engine M60 / M62 / M62TU [V8]
- side 2 for engine M10 / M20 / M30 (32 mm fan clutch)



Item # 9223

Assembly Tool for injection Pump wheel | for BMW

- holds the sprockets during the assembly of the injection pump
- suitable for BMW engines M47 / M47T2 / M47TU / M57 / M57TU
- suitable for series: E46 (318D-320D) (1988 2005) and E60, E61 (318TD-320TD-525D-530D-530-535) (2000 2006)







Timing Chain Pre-Tensioning Tool | for BMW N63

- is required when setting the engine timing
- an adjustment of the engine timing without this tool may lead to incorrect setting
- to be used as OEM 119900







Balance Shaft Adjusting Tool | for BMW N20

- for fixing the balancer shaft and holding chain sprocket
- to be used for repairing the chain and sprocket wheel drive
- 1 balancer shaft locking pin to be used as OEM 2212825
- 1 chain sprocket holder to be used as OEM 2318117
- 2 screws PH3 M6 x 1,0 hex drive size 10 (length: 26mm)





Engine Timing Tool Set | for Chrysler 2.5 CRD

· for setting and checking the engine timing

suitable for the following models:

- Chrysler Voyager, Grand Voyager R2516C, R2516L, R2816K engines
- Jeep Cherokee (2001 2008) 2.5 / 2.8 engines
- LDV Maxus (2005 2008) VM2516L engines
- camshaft locking pin (inlet) to be used as OEM VM1052
- camshaft locking pin (exhaust) to be used as OEM VM1053
- flywheel locking pin (Voyager, Grand Voyager 2.5 / 2.8 and LDV Maxus) to be used as OEM VM1068 / VM1089
- flywheel locking pin (Jeep Cherokee 2.8) to be used as OEM VM1080
- flywheel locking pin (Jeep Cherokee 2.5) to be used as OEM VM8873
- tensioner wrench to be used as OEM VM9660
- balancer shaft locking pin
- flywheel locking pin



Item # 8500

Engine Timing Tool Set | for Chrysler, Jeep, Dodge 2.8I Diesel

• for checking / setting the engine timing

suitable for the following Crysler models:

- Grand Voyager
- Jeep Cherokee
- Wrangler
- Dodge Nitro
- engine codes: VM64C, ENS, ENS (51C), 49C, 50C, ENS VM10D, ENS VM11D
- camshaft locking tool, to be used as OEM VM9991
- crankshaft locking tool, to be used as OEM VM9992





Engine Timing Tool Set | for Mercedes-Benz / Chrysler

 includes tools for adjusting the camshaft and and locking the crankshaft (flywheel)

suitable for the following models:

 Mercedes-Benz 190 / C / CLK / E / S / SL / SLK / G / M / Vito / Sprinter / Viano / PT Cruiser / Grand Cherokee

petrol engines:

- 1.8 / 2.0 / 2.2 / 2.3 / 2.5 / 2.8 / 3.0 / 3.2 / 3.3 / 4.2 / 5.0 / 6.0
- with engine codes 102 / 111 /104 (except for AMG) / 119 / 120

diesel engines:

- 2.0D / 2.2D / 2.3D / 2.5D / 2.5DT / 2.9D / 2.9TD / 3.0D / 3.0DT / 3.5D / 3.5DT / 2.0 CDi / 2.2 CDi / 2.3 CDi / 2.7 CDi / 3.2 CDi / 3.5 CDi / 3.9 CDi / 4.0 CDi / 2.2 CRD / 2.7 CRD
- with engine codes 601 / 604 / 605 / 611 / 646 / 612 / 602 / 603 / 606 / 612 / 613 / 646 / 647 / 648 / 628 / 603 / 613 / 628 / 648 / 646 / 602 / 603 / EDJ
- flywheel locking tool, incl. 2 x M6 x 90mm bolts, to be used as OEM 601589024000, 8933
- flywheel locking tool, to be used as OEM 112589034000
- camshaft locking pin set, to be used as OEM 602589004000, 8929







Engine Timing Tool Set | for MINI, Citroen, Peugeot 1.6l Diesel

• for checking / adjusting the engine timing

suitable for the following models with 1.6 diesel engine:

- MINI / MINI Clubman, R55 / R56 / R57 series
- Citroen 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: W16D16 (9HZ), W16D16UO, or 9HZ / 9HX / 9HY (DV6TED4)
- crankshaft locking pin, to be used as OEM PSA 0194A / BMW 119790
- timing pin for camshaft / high pressure pump, to be used as OEM PSA 0194B / BMW 110300
- flywheel holding tool, to be used as OEM 119850 / 119851 / 119852



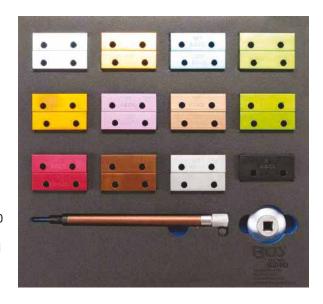


Engine Timing Tool Set | for Fiat, Lancia, Alfa Romeo

- special socket, 12.5 mm (1/2") for disassembling the phase adjuster
- 23 custom fit timing tools for inlet camshaft and exhaust camshaft
- prevent distortion of camshafts and allow setting them in mounting position for the timing belt
- locking tools are numbered and have different colours to avoid mix-up
- can also be used for exact positioning of the crankshaft using the TDC setting plug and an optional micrometer (BGS 1938-1, not contained in this set).

suitable for the following models:

- 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
- Lancia K5 2.0 20V 4 cyl. VIS engines as of 1996 Delta 1.8 16V
 Step A Dedra 1.8 16V
 Step A Y10 1.4 12V
- 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 1.6 16V Step A 147 105 HP 147 1.6 eco 103 HP 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 HP
- camshaft locking tool, to be used 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
- holder for gauge for adjusting piston TDC (gauge is required), to be used as 1 860 895 000, 1 895 879 000, 1 825 013 000
- socket for phase adjuster, to be used as OEM 1 822 110 000, 1 852 161 000







Engine Timing Tool Set | for Alfa Romeo 1.4, 1.6, 1.8, 2.0 Twin-Spark

- for adjusting the engine timing during timing belt replacement, cylinder head repair, replacement of the cylinder head gasket, etc.
- suitable for Alfa Romeo models 145 / 146 / 147 / 155 / 156 / 166 / Spider / GTV
- suitable for Twin Spark engines 1.4 / 1.6 / 1.8 / 2.0 I 16V Twin Cam, engine codes 162.01 / 322.01 / 323.01 / 323.10 /335.03 / 671.06 / 672.04 / 676.01
- timing belt tensioning tool, to be used as OEM 1822149000
- balancer shaft belt tensioning tool, to be used as OEM 1822154000
- camshaft setting tool (purple), to be used as OEM 1825042000
- camshaft setting tool (blue), to be used as OEM 1825041000





Camshaft Locking Tool Set | for Alfa Romeo 147 1.6 105 HP

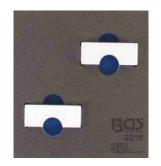
- to check and adjust the camshaft timing
- required when replacing the timing belt

suitable for:

- Alfa Romeo 147 1.6 105 HP
- inlet and exhaust camshaft locking tool to be used as OEM 1870797000







Camshaft Locking Tool Set | for Alfa Romeo 2.0 JTS

- to check and adjust the camshaft timing
- required when replacing the timing belt

suitable for Alfa Romeo:

- 156
- GT
- GTV
- Spider 2.0 JTS (165 HP)
- engine codes: 937A1000, 932A2000
- balance shaft clamping tool, to be used as OEM 1822154000
- belt tensioning tool, to be used as OEM 1822149000
- inlet camshaft locking tool, to be used as OEM 1860856001
- outlet camshaft locking tool, to be used as OEM 1860831002







Camshaft Locking Tool Set | for Alfa Romeo / Lancia 3.0l V6 24V

- for checking / adjusting the engine timing
- to be used as OEM 1825040000

suitable for:

- Alfa Romeo / Lancia 3.0L V6 24V
- camshaft locking tool for inlet cam cylinder 1
- camshaft locking tool for outlet cam cylinder 1
- camshaft locking tool for inlet cam cylinder 6
- camshaft locking tool for outlet cam cylinder 4









Camshaft Locking Tool Set | for Alfa Romeo 1.6l 16V

- for checking / adjusting the engine timing
- to be used as OEM 1870734000

suitable for:

- Alfa Romeo 145/146/147/156 1.6 16V (Step"A")
- camshaft locking tool for inlet cam cylinder 2
- camshaft locking tool for outlet cam cylinder 3







Camshaft Locking Tool Set | for Alfa Romeo 1.8I / 2.0I 16V

- for checking / adjusting the engine timing
- to be used as OEM 1825041000

suitable for:

- Alfa Romeo 147 /156
 - 1.8 16V (140 HP) / 1.8 16V (144 HP)
 - 2.0 16V (150 HP) / 2.0 16V (155 HP)
- camshaft locking tool for inlet cam cylinder 2
- camshaft locking tool for outlet cam cylinder 3







Camshaft Locking Tool Set | for Alfa Romeo 2.0I 16V JTS

- for checking / adjusting the engine timing
- to be used as OEM 1870859000

suitable for:

- Alfa Romeo 147 / 156 / 166 / GTV / Spider GT with 2.0 16V JTS (165 HP) engine
- camshaft locking tool for inlet cam cylinder 2
- camshaft locking tool for outlet cam cylinder 3







Camshaft Locking Tool Set | for Alfa Romeo 1.6l ECO

- for checking / adjusting the engine timing
- to be used as OEM 1870797000

suitable for:

- Alfa Romeo 147 (937) 1.6L 77KW ECO Twin Spark
- camshaft locking tool for inlet cam cylinder 3
- camshaft locking tool for outlet cam cylinder 2









Camshaft Locking Tool | for Fiat, Lancia 1.4 12V

- for locking of camshafts when setting the engine timing
- to be used as OEM 1860899000

suitable for the following models:

- Fiat Bravo, Brava, Lancia Y10 1.4 12V
- engine codes: 182A3.000, 182A5.000







Camshaft Locking Tool Set | for Fiat, Lancia 1.8l 115 HP

- for checking / adjusting the engine timing
- to be used as OEM 1860875000

suitable for the following models:

- Fiat Bravo/Brava/Marea 1800 16V 115 HP
- Lancia Delta/Dedra 1800 16V 115 HP
- camshaft alignment tool for inlet cam 2nd cylinder
- camshaft alignment tool for inlet cam 3rd cylinder







Camshaft Locking Tool Set | for Fiat, Lancia, Alfa Romeo 1.8I 130 HP

- for checking / adjusting the engine timing
- to be used as OEM 1860847000

suitable for the following models:

- Fiat / Lancia / Alfa Romeo 1.8L 16V 130 HP
- camshaft locking tool for inlet cam cylinder 2
- camshaft locking tool for outlet cam cylinder 3







Camshaft Locking Tool Set | for Fiat 2.0l 20V

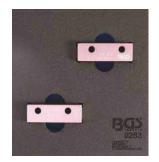
- for checking / adjusting the engine timing
- to be used as OEM 1860892000

suitable for the following models:

- Fiat Bravo/Brava/Marea 2.0L 20V 5-cylinder
- camshaft locking tool for inlet cam cylinder 3
- camshaft locking tool for outlet cam cylinder 2







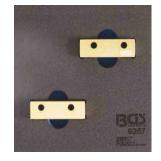


Camshaft Locking Tool Set | for Fiat, Lancia 1.8l 16V

- for checking / adjusting the engine timing
- to be used as OEM 1870697000

suitable for the following models:

- Fiat Coupe / Barchetta / Punto (HJT) / Barchetta (HJT)
- Lancia Delta / Dedra Step"A"
- camshaft locking tool for inlet cam cylinder 2
- camshaft locking tool for outlet cam cylinder 3







Camshaft Locking Tool Set | for Lancia K 2.0l 20V

- for checking / adjusting the engine timing
- to be used as OEM 1860961000

suitable for the following models:

- Lancia 2.0L 20V 5-cylinder VIS (manufactured after 1996)
- camshaft locking tool for inlet cam cylinder 2
- camshaft locking tool for outlet cam cylinder 3







Camshaft Locking Tool Set | for Lancia 2.4 20V

- for checking / adjusting the engine timing
- to be used as OEM 1860818000

suitable for the following models:

- Lancia 2.4L 20V 5-cylinder (manufactured before 1996)
- camshaft locking tool for inlet cam cylinder 3
- camshaft locking tool for outlet cam cylinder 2







Camshaft Locking Tool Set | for Lancia 2.0 VIS 4 Cylinder

- for checking / adjusting the engine timing
- to be used as OEM 1860819000

suitable for the following models:

- Lancia Kappa 2.0, 2.4 20V (1994-1997)
- camshaft locking tool for inlet cam cylinder 3
- · camshaft locking tool for outlet cam cylinder 2









Engine Timing Tool Set | for Fiat, Lancia

- for locking the flywheel and crankshaft
- adjusting the crankshaft
- adjusting the camshaft
- locking the fuel injection pump shaft
- pulling off the crankshaft pulley
- tensioning of the timing belt
- to be used as OEM 1 860 847 000, 1 860 875 000, 1 870 697 000, 1 860 895 000, 1 895 879 000, 1 860 898 000, 1 860 992 000, 1 860 992 000, 1 863 000 (8mm), 1 860 771 000, 1 860 161 000, 1 860 874 000, 1 860 876 000, 1 860 845 000, 1 860 876 000, 1 860 965 000, 1 860 901 000, 1 860 905 010, 1 860 987 000, 1 860 985 000

Item #	Description
8148	Engine Timing Tool Set for Fiat, Lancia
8148-13	Gauge Adaptor for BGS 8148
8159-16	Tensioner Wrench for Fiat
8159-17	Gauge to determine the Piston height
8159-6	Camshaft Locking Tool for Fiat, Alfa, Lancia 2 pcs.





Engine Timing Tool Set | for Fiat, Ford, Opel, Suzuki 1.3l Diesel

• for checking and adjusting the engine timing

suitable for the following models:

- Fiat
- Punto 1.3 JTD Multi-Jet 188A9.000, manufactured between 2003 and 2007
- Panda 1.3 JTD Multi-Jet 169A1.000, 188A8.000, manufactured between 2003 and 2009
- Idea 1.3 JTD Multi-Jet 199A3.000, 188A9.000, manufactured between 2004 and 2006
- Doblo 1.3 JTD Multi-Jet 188A9.000, manufactured between 2004 and 2006
- Doblo Cargo 1.3 JTD 188A9.000, manufactured between 2004 and 2006
- Opel/Vauxhall:
- Agila 1.3 CDTi Z13DT, manufactured between 2003 and 2008
- Corsa-C 1.3 CDTi Z13DT, manufactured between 2003 and 2007
- Combo-C 1.3 CDTi Z13DT, manufactured between 2003 and 2009
- Corsa-D 1.3 CDTi Z13DTH, Z13DTJ, manufactured between 2006 and 2009
- Astra-H 1.3 CDTi Z13DTH, manufactured between 2004 and 2009
- Tigre-B 1.3 CDTi Z13DT, manufactured between 2004 and 2009
- Meriva 1.3 CDTi Z13DT, Z13DTJ, manufactured between 2004 and 2009
- Suzuki:
 - Ingis 1.3 CDTi Z13DT, manufactured between 2003 and 2009
 - Wagon 1.3 CDTi Z13DT, manufactured between 2003 and 2009
 - Swift 1.3 CDTi Z13DT, manufactured between 2003 and 2010
- Ford Ka 1.3 TDCi
- counterholding tool for crankshaft pulley, to be used as Fiat Ford OEM 1871000200 - Ford OEM 303-1469 - Opel/Vauxhall OEM KM-662-C
- crankshaft adjustment tool, to be used as Opel / Vauxhall OEM EN 46785 OEM KM 955, Suzuki 09912-38300
- camshaft adjustment tool, to be used as Fiat OEM 1871000900 / 1860985000 - Ford OEM 303-1472, Opel (Vauxhall) OEM EN 46781 -Suzuki OEM 09917-68610
- chain tensioning lever, to be used as Fiat OEM 1870900400
- crankshaft locking tool, to be used as Fiat OEM 1870900300 Ford OEM 303-1468
- camshaft adjustment tool, Fiat 8 mm





Engine Timing Tool Set | for Fiat 1.2 16V

- · for checking and adjusting the engine timing
- suitable 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: 176B9.000, 169A4.000, 182B2.000, 188A5.000
- piston height adaptors (2 x), to be used as OEM 1860992000
- camshaft adjusting tools (2 x), to be used as OEM 1860985000
- tensioner pulley wrench, to be used as OEM 1860987000



Item # 8725

Engine Timing Tool Set | for Fiat, Peugeot, Citroën 1.8, 2.0 8V Petrol

- for checking the engine timing
- suitable for engine codes LFW, RFU, RGX, RFW
- crankshaft locking tool 6 mm
- camshaft locking tool 10 mm
- camshaft locking pins 2x
- timing belt tensioning tool
- to be used as OEM 0132Q, 0132QZ, 0132Z, 0132R, 1053AA, 1053AB, 1053ZY, 0153G, 4507TA, 4507TB, 5711TA, 7014TN, 9767.27, 7014TM, 0132X, 0132X1Z, 4507T, 4507TJ, 1860755000, 1860161000, KM955

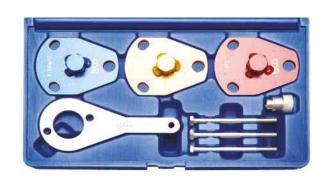


Item # 8740



Engine Timing Tool Set | for Fiat 1.7, 1.9 Diesel

- for adjusting the engine timing on Fiat engines 176B3.000, 176A3.000, 176A5.000, 149B1.000, 160A6.000, 160A7.000, 160D1.000, 230A2.000, 230A3.000, 230A4.000, 280 A1.000
- suitable for Fiat models Punto 1.7D / TD, Tipo 1.9D, Ducato 1.9D / TD, Tempra 1.9TD with adjustable camshaft sprocket
- camshaft locking tool, to be used as OEM 1860932000
- camshaft locking tool, to be used as OEM 1860934000
- camshaft locking tool, to be used as OEM 1860931000
- crankshaft locking tool, to be used as OEM 1860933000





Engine Timing Tool Set | for Alfa Romeo, Lancia, Fiat 0.9

• for adjusting the engine timing when e. g. replacing timing chain, cylinder head repairs, etc.

suitable for the following models with the engine code 312A2000:

- Alfa Romeo Mito 2012
- Fiat 500 2010
- Fiat Panda 2012
- Fiat Punto 2012
- Lancia Ypsilon 2012
- crankshaft locking pin to be used as OEM 2000035300
- belt pulley locking pin to be used as OEM 2000035200
- camshaft locking plate to be used as OEM 2000035100



Item # 8815

Engine Timing Tool Set | for Fiat, Opel, Alfa 1.9/2.4l 16V Diesel

 for adjusting the engine timing when e.g. changing the timing belt, cylinder head repairs, etc.

suitable for the following engines:

- Opel 1.9 CDTi Z19DT, Z19DTH, Z19DTJ
- Alfa-Romeo 1.9 and 2.4 L diesel with engine codes: 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 codes: 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
- crankshaft locking tool to be used as OEM Opel EN-46788 / Fiat 1.860.905.000 / 1.860.905.010
- flywheel locking tool to be used as OEM Fiat 1.860.898.000
- camshaft locking tool to be used as OEM Opel EN-46789 / Fiat 1.870.896.900
- \bullet locking pin Ø 3.7 mm x 70 mm to be used as OEM Opel KM 6130 / KM 6349





Engine Timing Tool Set | for Fiat, Alfa Romeo, Lancia 1.2 16V, 1.4 16V, T-Jet

- for adjusting the engine timing during timing belt replacement, cylinder head repair, replacement of the cylinder head gasket, etc.
- suitable for Alfa Romeo, Fiat and Lancia 1.2 16V / 1.4 16v / 1.4 T-Jet
- engine codes e. g. 169A3000, 179B9000, 182B2000, 188A5000, 192B2000, 198A1000, 198A4000, 199A6000, 199A8000, 843A1000
- crankshaft locking tool (with screws M6x30 and 3 pcs. M8x16), to be used as OEM 2.000.004.500
- camshaft adjusting tool (1 pair), to be used as OEM 1.860.985.000
- adjusting tool for piston height, to be used as OEM 1.860.992.000
- adjusting tool for timing belt tensioner, to be used as OEM 1.860.987.000
- locking tool for camshaft sprockets (with screw M8x30), to be used as OEM 2.000.015.800



Item #	Description
62666	Engine Timing Tool Set for Fiat, Alfa Romeo, Lancia 1.2 16V, 1.4 16V, T-Jet
62666-1	Crankshaft Locking Tool for Fiat, Alfa, Lancia

Engine Timing Tool Set | for Fiat 1.4 12V

• for checking and setting the engine timing

suitable for the following Fiat models:

- Brava
- Bravo
- Marea Weekend
- Lancia Ypsilon
- engine codes: 182 A3.000, 182 A5.000
- camshaft alignment tool, to be used as OEM 1860 899 000
- crankshaft alignment tool, to be used as OEM 1860 901 000
- bolts for crankshaft adjusting tool, to be used as OEM 1 860 901 000



Item # 9213

Engine Timing Tool Set | for Ford | 4 pcs.

- suitable for fuel engines 1.25 L, 1.4 L, 1.6 L, 1.8 L, 2.0 L, e. g. for Zetec, Zetec SE. etc.
- crankshaft timing tool to be used as OEM 303-748, 999-7152, 21-259, 303-574, 21-163, 303-620, 999-7201, 49J E02 024, 303-507, 21-210
- camshaft alignment plate to be used as OEM 303-376, 303-376B, 999-7151

Item #	Description
8215	Engine Timing Tool Set for Ford 4 pcs.
8215-1	Camshaft Locking Tool for Ford

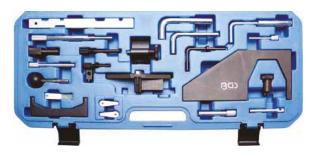




Engine Timing Tool Set | for Ford

contains tools for:

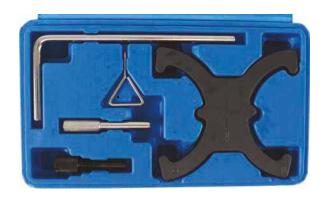
- locking the flywheel
- locking the crankshaft, camshaft, pump shaft
- locking the fuel injection pump shaft
- extracting the crankshaft pulley
- tensioning the timing belt
- includes adjusting gauge for camshaft, crankshaft, pump shaft
- complete classification chart for vehicle types and scope of application included
- suitable for the following Ford engines:
 - 1.4, 1.6 16V, 1.7, 1.8 16V, 2.0 16V (also Zetec)
 - 1.4, 1.6, 1.8, 1.9 D/TD/TDCi
- to be used 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 / Volkswagen 3359, T10008, T10050, 2065A



Item #	Description
8156-2	Crankshaft Locking Tool for Ford for BGS 8156
8156	Engine Timing Tool Set for Ford
8156-3	Injection Pump Locking Tool for Ford for BGS 8156 15.4 mm
8156-4	Crankshaft Locking Tool for Ford for BGS 8156
8156-5	Crankshaft Locking Tool for Ford for BGS 8156
8156-6	Locking Pin for Ford for BGS 8156 8.2 mm
8156-12	Feeler Gauge for Ford for BGS 8156
8156-14	Crankshaft Locking Tool for Ford for BGS 8156 12.7 mm
8156-17	Camshaft Holding Tool for Ford for BGS 8156
8156-18	Hand Wheel for Ford for BGS 8156
8156-19	Crankshaft Locking Tool for Ford for BGS 8156

Engine Timing Tool Set | for Ford Focus | 5 pcs.

- for replacing the cam belt on Ford Focus 1.6 TI-VCT engines, engine code HXDA (2003-2007) and 2.0 TDCI with engines codes G6DA, G6DB, G6DC 2003-2007
- camshaft sprocket holding tool to be used as OEM 303-1097
- tensioner pulley locking pin to be used as OEM 303-1054
- flywheel timing pin to be used as OEM 303-1059, 303-1270, 0188X, 999-7121
- crankshaft timing pin to be used as OEM 303-748, 999-7152, 21-259
- camshaft sprocket locking tool to be used as OEM 303-735, 999 7122, 0187B,0189B, 0132AJ1, 21-263, 0188M, MOT 1430, 303-1277, 0194B





Engine Timing Tool Set | for Ford 2.0, 2.4 TDCi | TDDi

- for locking or positioning of the cam, injection pump and crankshaft
- needed for chain changes, engine repairs and work on the injection pump
- suitable for Ford 2.0, 2.4 16V TDCi and TDCi engines, installed in e. g. Mondeo, Transit (2001 2004) etc.
- for engine code FMBA/B, D5BA, ABFA, D3FA, F3FA, D2FA, D4FA, F4FA
- to be used as OEM 303-675 (21-234), 303-681 (21-240) and 303-698 (21-251)



Item # 8317

Engine Timing Tool Set | for Fiat, Ford, Lancia 1.2, 1.4 8V

- facilitates changing of the timing belt and allows checking of the engine timing on following cars:
 - Fiat 500 (07-12), Doblo/Cargo (05-10), Grande Punto (07-12), Idea (04-12), Linea (07-11), Panda EVO2, Punto EVO (09-12)
 - Lancia Ypsilon (06-11), Musa (05-12)
 - Ford Ka (09-12)
- with engines:
- Fiat 1.2/1.2 Dualogic, 169A4.000, 188A4.000 (only EVO2), 199A4.0001.4/1.4 Bi-Fuel LPG / 1.4 Natural power CNG, 199A7.000, 350A1.000
- Lancia 1.4/1.4 Bi-Fuel LPG, 350A1.000
- Ford 1.2 Duratec, 169A4.000 (FP4)
- crankshaft locking tool, to be used as OEM 2.000.004.500 on Fiat/ Lancia and OEM 303-1480 on Ford
- camshaft setting tool, to be used as OEM 2.000.004.400 on Fiat/Lancia and OEM 303-1479 on Ford
- camshaft sprocket locking tool, to be used as OEM 2.000.004.200 on Fiat/Lancia and OEM 303-1477 on Ford
- camshaft cover aligner, to be used as OEM 2.000.004.300 on Fiat/Lancia and OEM 303-1478 on Ford
- tensioner adjuster, to be used as OEM 1.860.987.000 on Fiat/Lancia





Engine Timing Tool Set | for Ford 2.0 Ecoboost

- for adjusting the engine timing on chain driven 2.0L petrol direct injection engines with variable valve timing
- installed in the Galaxy / Mondeo / S-MAX / Focus models
- engine codes TNWA / TNBA / TPWA / MGDA / XQDA
- crankshaft locking tool, to be used as OEM 303-748
- camshaft alignment plate (up to 05.2011), to be used as OEM 303-1504
- camshaft alignment plate (after 05.2011), to be used as OEM 303-1565
- alignment tool for crankshaft position sensor, to be used as OEM 303-1521
- 2.5 mm tensioner locking pin



Item # 8874

Crankshaft Locking Tool | for Ford Transit 2.2

- suitable for Ford Transit 2.2 manufactured before 2006
- for locking crankshaft and flywheel
- allows the TDC sensor position to be set after working on cam chain drive system
- crankshaft locking tool to be used as OEM 303-1587
- flywheel locking tool to be used as OEM 21-251 / 303-698
- timing pump locking pin to be used as OEM 0188H / 1860965000





Chain Housing Cover Alignment & Pump Sprocket Removal Tool Set | for Ford 1.8 TDDi / TDCi

- for alignment of chain housing cover and for removing of high pressure pump sprocket
- during works on high pressure pump chain, for example
- tools are complementary for engine timing tool set BGS 8156

suitable 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 (2007 2010)
 - engine codes: FFBA, QYBA, KHBA
- 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
- chain housing cover alignment tool, to be used as OEM 303-652 (21-230)
- high pressure pump sprocket disassembly tool, to be used as OEM 303-095 (23-067)







Engine Timing Tool Set | for Ford 1.0, 3-cylinder Ecoboost

- for checking / adjusting the engine timing
- suitable for Ford engines 1.0L 3-cylinder, with 74 KW / 88 KW / 92 KW / 103 KW, installed on e.g. Fiesta / Focus / B-MAX / EcoSport
- Engine codes M1DD / M1JA / M1JC / M1JE / M1JHM1JJ / M1DA / M2DA / M2DB / M2DC / SFDBSFJA / SFJB / SFJC / SFJD /
- camshaft fixing tool, to be used as OEM 303-1605 (x 2)
- camshaft adjuster setting tool, to be used as OEM 303-1606 (x 2)
- crankshaft locking pin, to be used as OEM 303-1604
- flywheel locking tool, to be used as OEM 303-1602, 303-393A, 21-168
- idler fixing pin, to be used as OEM 303-1054









Belt tensioner Wrench | Ford Duratorq Engines

 suitable for Ford Duratorq 2.0 / 2.2 (TDDI / TDCI) engine codes: D5BA / D6BA / HJBA / HJBC / FMBA / N7BA / QJBB / QJBA



Item # 8533

Crankshaft Locking Pin | for Ford Zetec, Duratec Engines

- suitable for Ford Zetec SE and Duratec 1.25, 1.4, 1.6l engines, installed in Fiesta, Fusion and Focus
- to be used as Ford OEM 303-748, 21-259, Mazda OEM 49J E02 024, Volvo OEM 999 7201





Engine Timing Tool Set | for Ford Duratorq 2.0, 2.4 Diesel

- is needed when working on timing chain, cylinder head, etc.
- includes flywheel, pump, camshaft and chain tensioner locking pins to be used as OEM 21-234, 21-251
- suitable for Ford Mondeo and Transit 2.0 I / 2.4 I Duratorq 16V (TDDi and TDCi), engine codes ABFA, D2FA, D3FA, D5BA, D6BA, D0FA, FIFA, F3FA, F4FA, FMBA/B, FXFA, H9FA, H9FB, HJBA/B, HJBC, HJBE, JXFA, N7BA/B, PHFA, SDBA









Engine Timing Tool Set | for Ford TDCi, PSA Hdl, Mazda D 1.4, 1.6

 for setting the engine timing when replacing the cylinder head gasket, camshaft, etc.

suitable for the following engines:

- Citroen 1.4HDi DV4TD (8HT/8HW/8HX/8HZ), 1.4HDi DV4TED4 (8HV/8HY), 1.6HDi DV6TED4 (9HY/9HZ), 1.6HDi DV6ATED4 (9HW/9HX), 1.6HDi DV6UTED4(9HU)
- Mazda 1.4CiTD F6JA, F6JB 1.6CiTD Y6
- Peugeot 1.4HDi DV4TD (8HT/8HW/8HX/8HZ), 1.4HDi DV4TED4 (8HV/8HY), 1.6HDi DV6TED4 (9HY/9HZ), 1.6HDi DV6ATED4 (9HW/9HX), 1.6HDi DV6UTED4(9HU)
- Ford 1.4TDCi F6JA, F6JB, F6JC, F6JD 1.6TDCi G8DA, G8DB, HHDA 1.6TDCi HHDB, HHJA, HHJB, HHJD
- Volvo 1.6D D4164T
- flywheel locking bolt, to be used as OEM PSA 0194-C, Ford 303-734 (21-262), Volvo 999-7169, Mazda 49 JE02 020
- crankshaft & high pressure pump locking pin, 2 pcs., to be used as OEM PSA 0194-A, Ford 303-732 (21-260), Volvo 999-7233, Mazda 49 JE02 018
- camshaft locking pin, to be used as OEM PSA 0194-B, Ford 303-735 (21-263), Volvo 999-7122, Mazda 49 JE02 021





Diesel Pump Sprocket Puller | for Ford

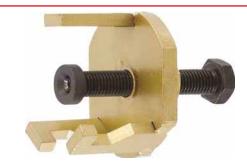
- for pulling off the diesel pump sprocket
- suitable for Ford Transit 2.2 TDCl engine (Puma) as of year 2011



Item # 8974

Camshaft Sprocket, Pump Wheel Extractor | for Ford

- can also be used for pulling off the impeller
- suitable for the following engine codes: F8M, F8Q, J8S, S8U, S9U
- 90 x 65 mm





Engine Timing Tool Set | for Land Rover, Jaguar V8

- for adjusting and checking the engine timing
- required for e.g. working on valve drive and renewing the cylinder head gasket

suitable for 3.2, 3.5, 4.0, 4.2, 4.4L engines in the following models:

- Jaguar XJ8 (97-09), engine AJ26 AC, BC, LC, 1B, 5G, SB
- Jaguar XJR (97-09), engine AJ27 KB, CC, MA, 2B, 9G, TB
- Jaguar S-Type (99-08), engine AJ28 KC, CE, MB, 3B, HB, PC
- Jaguar XF (08-09), engine AJ34 3.5, DC, NB, 1G, HG
- Jaguar XK8 (97-09), engine RB, EC, NC
- Jaguar XKR (98-09), engine GB, PA
- Range Rover (new) (06-09), 4.2L engine (428 HP)
- Range Rover (05-09), 4.2L engine (428 HP)
- Land Rover Discovery III (05-09)
- flywheel locking pin (silver), to be used as OEM 303-531
- flywheel locking pin (gold), to be used as OEM 303-645
- 2 camshaft setting plates, to be used as OEM 303-530
- camshaft gear holding tool, to be used as OEM 303-532
- 2 tensioner wedges, to be used as 303-533
- primary tensioner locking pin, to be used as OEM T40011
- setting tool for VVT unit, to be used as OEM 303-654
- tensioner depress pin







Engine Timing Tool Set | for Jaguar, Land Rover 5.0 V8

- for adjusting and checking the engine timing
- required for working on valve drive and renewing the cylinder head gasket
- suitable for following models with 5L V8 engine: X150–XK(10MY), X250–XF(10MY), X351–XJ(10MY)
- camshaft alignment tools, to be used as OEM 303-1445
- crankshaft timing pin, to be used as OEM 303-1447
- flywheel locking tool, to be used as OEM 303-1448
- camshaft turning tool, to be used as OEM 303-1452
- timing chain pre-tensioning tool, to be used as OEM 303-1482









Engine Timing Tool Set | for Jaguar, Land Rover, Ford, Citroën 2.0, 2.2, 2.4, 3.2 Diesel

- for adjusting and checking the engine timing
- required for e. g. working on the valve drive and renewing the cylinder head gasket

for the following models:

- Ford Mondeo (2000 2007), Transit (2000 2011)
- Citroen 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
- 2.0L engine codes: ABFA, D3FA, D5BA, D6BA, F3FA, FIFA, FMBA, HJBA, HJBB, HJBC, HJBE, N7BA, N7BB
- 2.2I (chain driven high pressure pump), engine codes: QJBA (BG), QJBB, QJBC, QJBD
- 2.2I (camshaft driven high pressure pump), engine codes: 4HM, 4HU, 4HV, P8FA, P22DTE, QVFA, QWFA
- 2.4L with engine codes: 244DT, DOFA, D2FA, D2FB, D4FA, F4FA,FXFA, H9FA, H9FB, HE FA, HFFA, JXFA, PHFA, ZSD 424
- 3.2I with engine code: SAFA (only engine timing)
- engine cover aligner, to be used as OEM 303-682
- engine cover / crankshaft seal tool, to be used as OEM 303-679A
- high pressure pump sprocket retaining tool, to be used as OEM 303-1151
- high pressure pump removal tool, to be used as OEM 303-249
- flywheel locking pin, to be used as OEM 303-675
- flywheel locking pin, to be used as OEM 303-698
- 3-piece locking pin set, 6 mm
- tensioner locking pin, 2 mm







Engine Timing Tool Set | for Land Rover, Jaguar 2.7

- for adjusting and checking the engine timing
- required for working on valve drive and renewing the cylinder head gasket

suitable for the following models:

- Jaguar S-Type TDVi (2004 2009)
- Land Rover TDV6 Discovery
- Range Rover Sport TDV6 (2004 2006)
- engine code 276DT
- flywheel locking tool (manual) to be used as OEM 303-1116
- flywheel locking tool (automatic) to be used as OEM 303-1117
- camshaft sprocket alignment tool, to be used as OEM 303-1132
- camshaft sprocket alignment pins, 2 pcs., to be used as OEM 303-1126 (PSA 0195H)









Engine Timing Tool Set | for Jaguar, Land Rover 2.7, 3.0 TD V6

- for adjusting and checking the engine timing
- required for working on the valve drive and renewing the cylinder head gasket

suitable for the following models:

- Citroen 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 (DT17BTED4) (UHZ) 3.0D HDi (D20CTED4) (X8Z) 3.0D SD V6 / TD V6 (306DT) (AJ-V6D)
- flywheel locking tool (manual), to be used as OEM (Rover) 303-1116
- flywheel locking tool (automatic), to be used as OEM (Rover) 303-1117
- camshaft sprocket alignment tool, to be used as OEM (Rover) 303-1132
- camshaft sprocket alignment pins, 2 pcs., to be used as OEM (Rover) 303-1126, (PSA) 0195H
- coolant pump locking pin, to be used as OEM (PSA) 0195-C
- flywheeel locking tool, to be used as OEM (PSA) 0195-K
- tooth belt holding clip, to be used as OEM (PSA) 0188-K



Item # 9008



Camshaft Locking Tool | for Rover, MG

• suitable for Rover- and MG models

length: 44.5 mmwidth: 33.5 mmheight: 15 mm





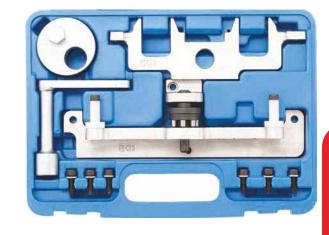


Timing Chain Mounting Tool Set | for Mercedes-Benz Engine 651 | 10 pcs.

- prevents skipping of chain and moving of camshaft sprockets when replacing the timing chain
- removing of camshaft sprockets is not required
- · allows precise positioning

suitable for the following models:

- Mercedes-Benz engine OM 651 series
- timing chain guide tool, to be used as OEM 60831800
- camshaft locking tool, to be used as OEM 60831830
- crankshaft turning tool, to be used as OEM 60831810
- camshaft rotation key, to be used as OEM 60831820



Item # 9378

Engine Timing Tool Set | for Mercedes-Benz M271

- is required when changing the timing chain
- suitable for the following Mercedes-Benz models: CLK 200K (W209), C 180K, C200K,C 230K (W203), C Sportcoupe C 160K,C 180K, C 200K, C 230K, E 200K (W211),SLK 200K (R171), C 180K (W204), CLC 180K,CLC 200K, C 180 CGI, C 200CGI, C 250CGI (W204), E 200CGI, E 250CGI (W212, C207)
- suitable for engines with the following engine codes: M271 E18ML (02-), DE18ML (03-05), E16ML (08-), DE18LA (09-)
- holding device for timing chain, to be used as OEM 271589014000
- camshaft locking tool, to be used as OEM 271589006100
- locating pin, to be used as OEM 271589001500
- timing chain tool, to be used as OEM 271589003100



Item #	Description
62623	Engine Timing Tool Set for Mercedes-Benz M271
62623-1	Tool Tray 1/3, empty for Item 62623





Engine Timing Tool Set | for Mercedes-Benz M112 + M113

- required for works on timing chain or adjusting the engine timing
- holds left & right side camshaft in adjusting position

suitable for the following models with M112 or M113 engine:

- Mercedes-Benz C-class 240/280 (202) (1997-)
- Mercedes-Benz C-class 240/320 (203) (2000-)
- Mercedes-Benz CL 500 (215) (1999-2006)
- Mercedes-Benz CLK 320/430 (208) (1997-2003)
- Mercedes-Benz CLK 240/320/500/55AMG (209) (2002-2006)
- Mercedes-Benz CLS 500/55AMG (219) (2004-2006)
- Mercedes-Benz E-class 240/280/320/430 (210) (1997-2002)
- Mercedes-Benz E-class 240/320/500/E55AMG (211) (2003-2006)
- Mercedes-Benz M-class ML320/350/430/500/55AMG (163) (1997-2005)
- Mercedes-Benz M-class 500 (164) (2005-2007)
- Mercedes-Benz S-class 280/320/350/430/500 (220) (1998-2005)
- Mercedes-Benz SL 280/320/500 (129) (1998-2002)
- Mercedes-Benz SL 350/500/55AMG (230) (2001-2008)
- Mercedes-Benz SLK 320K (170) (2000-2004)
- Mercedes-Benz SLK 55AMG (171) (2004-2010)
- Mercedes-Benz R-class 500 (2006-2007)
- Mercedes-Benz Viano 3.0/3.2/3.5 (2003-2008)
- Mercedes-Benz Vito 123 (639) (2004-2008)
- Chrysler Crossfire (SRT-6) (2003-2007)
- camshaft locking tool (right-side), to be used as OEM 112589003200
- camshaft locking tool (left-side), to be used as OEM 112589013200
- camshaft rotation key, to be used as OEM 112589000100







Engine Timing Tool Set | for Mercedes-Benz M270, M274, M133

- for setting and checking the engine timing
- · allows holding down and fixing of the camshaft

suitable for the following models:

- Mercedes-Benz A-class (W176) as of 2012, model A180 / A200
- Mercedes-Benz B-class (W246) as of 2011, model B180 / B200
- to be used as OEM 270589006100





Engine Timing Tool Set | for Mercedes-Benz M276, M157, M278 | 12 pcs.

• for adjusting the camshaft in the adjustment position

suitable for the following Mercedes-Benz models:

- CL 500 / 63 AMG (C 216) 2010-2013
- S 500 / 63 AMG (C 217) as of 2014
- CLS 300 (C 218) as of 2012
- E 300 / 350 / 400 (C/A 207) as of 2011
- CLS 350 / 400 / 500 / 63 AMG (C/X 218) 2011-2014
- SLK 350 (R 172) as of 2011
- SL 350 / 400 / 500 / 63 AMG (R 231) as of 2012
- S 500 PLUG-IN HYBRID (V 222) as of 2014
- ML 300 / 350 / 500 / 63 AMG (W 166) as of 2011
- C 400 (W 205) as of 2014
- E 400 HYBRID (W 212) as of 2012
- G 63 AMG (W 463) as of 2012
- E 300 / 350 / 400 / 500 / 63 AMG (W/S 212) as of 2011
- C 350 (W/S/C 204) as of 2011
- S 350 / 500 / 63 AMG (W/V 221) as of 2010
- S 400 / 63 AMG (W/V 222) as of 2013
- R 350 BlueEFFICIENCY (W/V 251) as of 2012

• to be used as OEM 276589004000, 276589014000

- GL 450 / 500 (X 166) as of 2012
- GLK 350 (X 204) as of 2011
- Item # 62632



Engine Timing Tool Set | for Mercedes-Benz OM651

• for adjusting the cam and crankshafts

suitable for the following Mercedes-Benz models:

- 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
- camshaft alignment tool, to be used as OEM 65158 901 4000
- crankshaft rotating tool, to be used as OEM 65158, 900, 4000





Diesel Pump Locking Pin | for Mercedes-Benz

- for locking Bosch inline diesel pumps in mounting position
- to be used as OEM 601 589 05 21 00
- suitable for Mercedes-Benz 200D / TD, 250D / TD, 300D / TD
- engines: 601.912 / 602.912 / 602.962 603.913 / 606.910 / 603.963



Item # 8905

Camshaft Holding Tool | for Mercedes-Benz 272 / 273 Engines

- for locking the left intake camshaft in place
- required when servicing the camshaft chain drive
- to be mounted with threaded bolt on cylinder head

suitable for the following models:

- Mercedes-Benz engines 272, 273
- C, CL, CLK, E350, E550, S400, S550, SL550, SLK280, SLK300, SLK350, G550, GL450, GL550, GLK350, ML350, ML450, ML550 und R350 models (2005-2012), 164.156, 164.172, 164.186, 164.195, 164.871, 164.886, 171.454, 171.456, 171.458, 203.052, 203.054, 203.056, 203.087, 203.092, 204.054, 204.056, 204.081, 204.087, 204.956, 204.987, 207.356, 207.372, 207.456, 207.472, 209.356, 209.372, 209.456, 209.472, 211.056, 211.072, 211.087, 211.090, 211.256, 211.287, 212.056, 212.072, 212.087, 212.090, 212.287, 216.371, 216.386, 219.372, 221.171, 221.186, 221.195, 230.471, 251.156, 251.165, 463.236, 463.237





Engine Timing Tool Set | for Opel

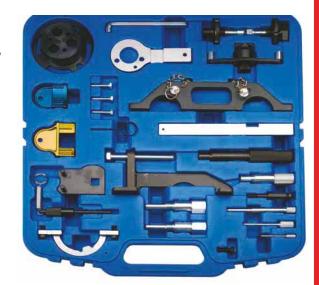
• for adjusting timing when e. g. when replacing the cylinder head gasket

suitable for the following Opel engines:

- Z19DT Z19DTH (OHC and DOHC) Vectra C, Signum 2004
- Z13DT Corsa, Combo 2004
- Z22SE Astra G, Vectra C, Zafira, Signum, Speedster Vx220 2000 2004
- petrol 1.0 12V 1.2 1.4 16V (X10XE, Z10XE, Z10XEP, X12XE, Z12XE, Z14XEP) Corsa, Agila, Astra, Meriva
- diesel 2.0 2.2 Ecotec (X20DTL, X20DTH, X22DTH) Astra, Caravan, Zafira, Vectra, Omega, Sintra, Frontera
- partly suitable for identical engines from Renault and Saab

scope of delivery:

- water pump locking tool, to be used as OEM KM-J-43651
- flywheel locking tool, to be used as OEM 911
- crankshaft locking tool, to be used as OEM EN-46788, KM 952, KM 929, EN-46785
- camshaft locking tool, to be used as OEM KM 852, KM 853, KM 6148, EN-46789, KM 6340, EN-46781
- camshaft adjustment gauge, to be used as OEM KM 932, KM 953
- flywheel locking tool, to be used as OEM KM 6333
- camshaft alignment tool, to be used as OEM KM 933
- injection pump locking tool, to be used as OEM KM 927
- belt tensioner locking tool, to be used as OEM KM 955
- chain tensioner locking tool, to be used as OEM KM 955
- adjustment gauge for the camshaft speed sensor, to be used as OEM KM 954



Item #	Description
8151-1	Water Pump Locking Tool for Opel for BGS 8151
8151-2	Camshaft Locking Tool for Opel for BGS 8151
8151-3	Camshaft Locking Tool for Opel for BGS 8151
8151-6	Adjusting Ruler for Pick-Up Disk for Opel for BGS 8151
8151-8	Crankshaft Locking Tool for Opel for BGS 8151
8151-10	Locking Pin for Timing Chain Tensioner for Opel for BGS 8151
8151-12	Camshaft Locking Tool for Opel for BGS 8151
8151-17	Crankshaft Locking Tool for Opel for BGS 8151
8151-19	Addition for Crankshafts Locking Tool for Opel for BGS 8151
8151-22	Tensioner Locking Tool for Opel



Engine Timing Tool Set | for Opel Ecotec V6

- engine timing tool set for Opel/Vauxhall Ecotec V6 engines with multiple valve technique
- includes all necesseray tools for clamping / locking the crankshaft and camshaft

suitable for the following Opel models:

- 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)
- Sinatra 3.0 V6 (1996 1999)
- Vectra A/B/C 2.5/2.6/3.2 V6 (1993 2005)
- crankshaft fixer tool, to be used as OEM KM-800-10
- camshaft setting gauge, to be used as OEM KM-800-20
- locking tool, to be used as OEM KM 800-30
- right camshaft locking tool, to be used as OEM KM-800-1
- left camshaft locking tool, to be used as OEM KM-800-2
- E-type socket, 12.5 mm (1/2") drive, E20 for return pulley
- combination spanner, angled, 30 mm



Item # 1779

Engine Timing Tool Set | for Opel 1.0, 1.2, 1.4

• for changing the timing chain and other jobs on the valve train, working on the intake and exhaust camshafts, fixing the crankshaft

suitable for the following Opel models:

- 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
- camshaft adjusting ruler
- crankshaft locking pin
- pulse disc adjusting tool
- timing chain tensioner pin
- to be used as OEM KM953, KM952, KM954, KM955

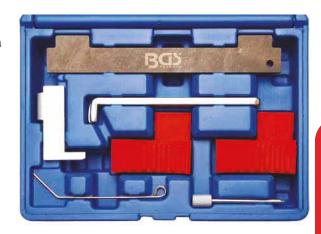






Engine Timing Tool Set | for Opel 1.6, 1.8

- contains tools for locking the camshaft and crankshaft
- suitable for 1.6 and 1.8L engines with timing belt, installed in 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 engines 939A4.000
- · camshaft locking tool
- · camshaft sprocket locking tool
- locking pins
- flywheel holding tool
- to be used as OEM tool KM-6628-A, 2000012000KM-6340, 2000012100KM-6333KM-6625, 2000012800KM-6349, KM 6130KM-911



Item # 8697

Engine Timing Tool Set | for Opel, GM 2.0, 2.2 Ecotec Diesel

• for setting the engine timing

suitable for the following models:

- Opel Vectra 2.0 turbo diesel
- Opel Sintra 2.2 turbo diesel
- Opel Zafira 2.0 turbo diesel
- Opel Frontera 2.2 turbo diesel
- Saab 9-3 2.2 turbo diesel
- engine code X20DTL X20DTH X22DTH Y22DTR
- adjustment wrench with bracket, to be used as OEM Opel KM933 / Saab 8395394
- injection pump timing pin to be used as OEM Opel KM927 / Saab 8395337
- crankshaft setting pin to be used as OEM Opel KM929 / Saab 8395352
- camshaft setting plate to be used as OEM Opel KM932 / Saab 8395386





Engine Timing Tool Set | for Opel 1.2, 1.4

• for adjusting the engine timing

suitable for the following Opel/Vauxhall models:

- Adam 1.2 LWD 1.4 L2Z 1.4 LDD (2012)
- Ampera 1.4 LUU/A14XFL (2011)
- Astra-J 1.4 LDD/A14XER 1.4 LDD/A14XEL 1.4 LUJ/A14NET 1.4 LUJ/ A14NEL 1.4 LUJ/A14NET (2009)
- Corsa-D 1.0 A10XEP 1.2 A12XEL 1.2 A12XER 1.4 A14XEL 1.4 A14XER -1.2 A12XER 1.4 A14NEL (2009)
- Insignia 1.4 LUJ/A14NET (2011)
- Meriva-B 1.4 LDD/A14XER 1.4 LUJ/A14NET 1.4 LUH/A14NEL (2010)
- Mokka 1.4 LUJ/A14NET (2012)
- Zafira-C Tourer 1.4 LUJ/A14NEL 1.4 LUJ/A14NET (2011)
- Aveo 1.2 L2Q/A12XEL 1.2 LDC/A12XER 1.2 LWD/A12XEL1.4 LDD/ A14XEL 1.4 LDD/A14XER (2011)
- camshaft sensor disc setting tool to be used as OEM EN-49977-100
- intake camshaft adjusting tool to be used as OEM EN-49977-200
- camshaft sensor positioning tool to be used as OEM EN-49978
- chain tensioner pin 4 mm to be used as OEM KM-955-1
- belt tensioner pin 2.5 mm to be used as OEM KM-955-2
- 2 camshaft locking tools to be used as OEM KM-952 / 953-A



Item # 8857

Engine Timing Tool Set | for Opel Vectra, Signum, Zafira

• for checking the timing on engine 2.2 I 16V engines with timing chain

suitable for the following Opel models:

- Astra G (2000 2006)
- Speedster (Vauxhall) VX220 (2000 2006)
- Vectra B, C (2000 2008)
- Signum (2003 2008)
- Zafira A, B (2000 2008)
- with engine codes: Z22SE, Z22YH
- camshaft locking tool, to be used as OEM KM-6148
- locking pin for chain tensioner, to be used as OEM KM-6077, Saab 8396392
- crankshaft counterholder, to be used as OEM Opel KM-J-38122-A, KM-956-1, Alfa 2192261000
- water pump locking tool, to be used as OEM Opel EN-43651, KM-J-43651, Alfa 2000012000









Engine Timing Tool Set | for Opel (Vauxhall), Saab, Chevrolet 2.0l / 2.4l

- for adjusting engine timing when replacing timing chain, etc.
- suitable for 2.0 L & 2.4 L twin cam turbo charged petrol engines

suitable for the following models:

- Vauxhall (Opel) Astra, Insignia, Antara
- Chevrolet Captiva, HHR, Malibu
- Saab 9-5

with engines:

• OPC, OPC/VXR, Turbo, E85, Turbo T-Bi

engine codes:

- 2.0L > LHU, A20NFT, LTG, A20NHT, LDK, A20NHT
- 2.4L > A24XE, A24XF, LE5, LE9
- crankshaft pulley alignment tool, to be used as OEM EN-48585
- flywheel holding tool, to be used as OEM EN-43653, J43653
- tensioner retaining pin 2.5 mm, to be used as OEM EN-955-10, KM 955
- tensioner locating pin 4.0 mm, to be used as OEM EN-955-20, KM 955-20
- tension plunger resetting tool, to be used as OEM EN-45027-1, J-45027-1
- tension plunger holder, to be used as OEM J45027-2, EN45027-2, FN-45027
- camshaft locking tool (left side), to be used as OEM EN-49212, EN-49212-1
- camshaft locking tool (right side) to be used as OEM EN-49212, EN-49212-2
- camshaft adjuster holding tool, to be used as OEM EN-48953







Engine Timing Tool Set | for Opel, Chevrolet 2.0 CDI

- suitable for 2.0L common rail diesel engines with codes: Z20DM, Z20DMH, LLWZ20DMH, RA420, Z20SI, Z20S3, Z20S4. Z20S5
- for changing the timing belt and checking the engine timing
- holds camshaft and crankshaft in the correct position
- camshaft locking tool to be used as OEM EN-48245
- crankshaft locking tool to be used as OEM EN-48246





Camshaft Locking Tool Set | for VAG, Ford, Opel, Saab

• all purpose set for many models

scope of delivery:

- camshaft locking tool for Opel Calibra, Omega, Sintra, Vectra -1.8 / 2.0, to be used as OEM KM-852, 18G1570
- camshaft locking tool for Opel Calibra, Omega, Sintra, Vectra -1.4 / 1.6, to be used as OEM KM-853
- locking tool for right camshaft for Saab 900, 900 -2.5 / 3.0, Opel Calibra, Sintra, Vectra -2.5/3.0, to be used as OEM KM-800-2
- locking tool for left camshaft for Saab 900, 900 -2.5 / 3.0, Opel Calibra, Sintra, Vectra -2.5/3.0, to be used as OEM KM-800-1
- crankshaft toothed belt wheel locking tool for TDI pump injection engines for VW, Skoda, Seat and Ford, to be used as VAG T10050
- flywheel locking tool for Citroen, Fiat and Peugeot, to be used as OEM 153A, 6012T, 9765.54
- flywheel holding tool 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, to be used as OEM KM-517-B

Item #	Description
1775	Camshaft Locking Tool Set for VAG, Ford, Opel, Saab
1769	Camshaft Locking Tool for Opel Astra, Vectra, Omega, Frontera, Sintra
1770	Camshaft Locking Tool for Opel Astra, Corsa, Vectra
1775-LEER	Empty Case for BGS 1775



Water Pump Wheel Holder | for Opel Ecotec Engines

- suitable for Opel engines 2.2 L 16V / Z22SE
- holds the timing chain and gear in place while removing and installing the water pump on GM Ecotec engines
- holding the sprocket prevents loss of timing or damage to the engine
- special half-moon design allows easier access to the water pump gear holts
- uses access cover bolts to hold the tool in place





Camshaft Locking Tool | for Opel 1.6 / 1.8 I

- contains important tools for controlling 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
- camshaft locking tool, to be used as OEM KM-6340, EN-6340, 2000012100
- tensioner locking pin, to be used as OEM KM-6333, EN-6333









Water Pump Adjusting Wrench | for Opel

- for turning the water pump, adjusting the timing belt tension
- suitable for Opel OHC petrol engines e. g. 1.2-1.3-1.4-1.6 l
- 12.5 mm (1/2") drive

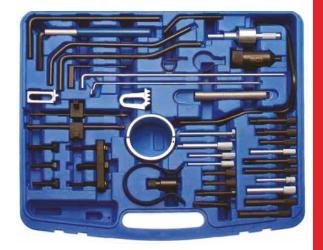


Item #	Description
8971	Water Pump Adjusting Wrench for Opel 39 mm
8972	Water Pump Adjusting Wrench for Opel 41 mm
8973	Water Pump Adjusting Wrench for Opel 46 mm



Engine Timing Tool Set | for Peugeot, Citroen (PSA)

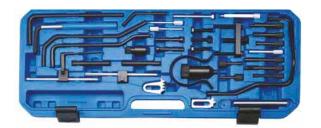
- for setting and checking the engine timing
- suitable for the following car models:
 - Citroën AX, Berlingo, BX, C5, C15, C25, Dispatch, Evasion, Jumper, Jumpy, Relay, Saxo, Synergie, Visa, Xsara, Xantia, XM, XJR, ZX, etc.
 - Peugeot 106, 205, 306, 405, 406, 605, 806, J5, Boxer, Expert, Partner, Solara, Talbot Expres, Talbot Horizon, etc.
 - PSA gasoline 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 twin camshaft)
- 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
- also suitable for identical engines in Fiat, Ford, Nissan, Renault, Rover, Toyota, etc.





Engine Timing Tool Set | for PSA

- for adjusting the engine timing while e. g. replacing the timing belt
- suitable for the following models:
 - Citroen, Peugeot 16V petrol engines, e.g. 1.8 / 2.0 16V with engine code EW (XU + TU) (incl. HPI engine) e.g. C5, 206, 306, and 406
 - Citroen, Fiat, Peugeot, Toyota 1,9D / 2,0D / 2,2D, engine code DW8 / DW10 / DW12 HDI (XUD+TUD)
 - also suitable for similar types of engine in Toyota and Fiat
- 8 camshaft locking pins, to be used as OEM 0189-L, 7014-TM, 5711-TC, 9041-TZ, 0132AJ2, 0188M, 4533-TAC2, 0132-AB, 4527-TS2, 5711-TD
- 2 camshaft / crankshaft locking pins, to be used as OEM 0132R,4507-TB, 9767.27
- 1 crankshaft-ribbed drive puller, to be used as OEM 0188P/P2, 7015T
- 11 crankshaft locking pins, to be used as OEM 0153N, 0188D, 0188Y, 0288D, 7099-TM, 0118X, 0189-B, 0188-H, 0132AJ2, 4533TAC1, 0189-A, 0189AZ, 0118X, 0132Q, 5711-TA, 7017-TR, 0153G, 0153Y, 0153N, 0188D
- 2 flywheel locking tools, to be used as OEM 0132QZ, 4507-TA, 0189-C
- 2 flywheel locking tools, to be used as OEM 0134AF, 0188F, 9044-T, 0153A, 6012T, 9765-54, 9044
- 1 injection pump adjusting pins, to be used as OEM 4527-TS1
- 1 adjusting pin, to be used as OEM 0194B
- 1 drive belt retaining clip, to be used as OEM 0132.AK, 0153-AK, 0187-J, 0188-K, 4533-TAD
- 4 clamping tools, to be used as OEM 7017-TW, 188J2, 0178E, 5711TE, 0178J/J2, 4507-TJ, 0132X, 0132X1Z, 9767.89

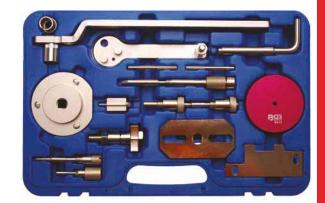


Item #	Description
8152	Engine Timing Tool Set for PSA
8152-19	Crankshaft Locking Tool for Peugeot, Citroën for BGS 8152
8152-30	Crankshaft Locking Tool for Peugeot, Citroën for BGS 8152



Engine Timing Tool Set | for Fiat, PSA

- for adjusting the engine timing
- suitable for Fiat engines: 2.2 JTD 4HV 2.3 JTD F1AE0481D 120HP 2.3 JTD F1AE0481D 127HP 3.0 JTD
- suitable for PSA engines: Puma 22DT 4HV 100HP Puma 22DT 4HV 120HP - F30DT
- crankshaft sealing ring installation and extraction tool to be used as OEM 2000016900, 303-679 / 303-679A, 0198D
- crankshaft locking tool, to be used as OEM 2000018700 303 -1587
- holding/turning tool for crankshaft, to be used as OEM 2000018400 / 2000010000, 303-1177
- flywheel locking tool, to be used as OEM 2000019200
- centring tool control casing, to be used as OEM 2000017000, 303/-682, 0198G
- crankshaft locking pin, to be used as OEM 2000017100, 303-698 / 21-251, 0198A
- camshaft locking pin, to be used as OEM 2000016500, 0198.B2
- holding and turning tool, to be used as OEM 1860815000, 0191-2K
- oil pump gauge, to be used as OEM 2000016700, 303-705 / 303-1093, 0198H
- water sensor tool, to be used as OEM 2000017300
- flywheel locking tool, to be used as OEM 1860846000
- crankshaft locking pin, to be used as OEM 99360615, 2000018200, 0191-2A
- camshaft locking tool, to be used as OEM 99360614, 0191-2B
- camshaft locking tool, to be used as OEM 1860617000, 2000018200



Item #

8413

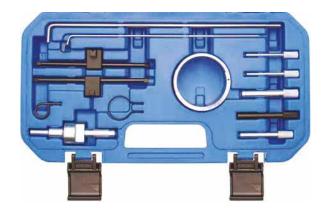


Engine Timing Tool Set | for PSA 1.8, 2.0 16V Petrol

 contains important tools for checking and adjusting the engine timing after replacing the timing belt and engine repairs

suitable for the following models:

- Citroen 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)
- tensioner locking tool, to be used as OEM 0189S2
- tool for tensioner, to be used as OEM 0178E, 5711TE, 178J/J2
- tool for tensioner, to be used as OEM 0188J2
- adjustment tool for clamping unit, to be used as OEM 0189S1
- locking pins, to be used as OEM 0132AB / 0194A / 0178D
- locking pin, to be used as OEM 0194B
- locking pin, to be used as OEM 0188M
- locking pin, to be used as OEM 0189B
- flywheel locking tool, to be used as OEM 0189R
- locking tool for tensioner, to be used as OEM 7017TR / 0153U
- adjustment tool for crankshaft wheel, to be used as OEM 0188AH



Item # 62622

Engine Timing Tool Set | for Peugeot, Citroën 1.0, 1.2 Vti

- for checking / adjusting the engine timing
- is required for working on the camshaft drive, renewing the cylinder head gasket, etc.

suitable for the following models with 1.0/1.2VTi engines:

- Peugeot 208 / 2008 (2012 to 2014)
- Citroen C3 (III)
- engine codes EBO (ZMZ), EB2 (HMZ)
- flywheel locking tool, to be used as OEM 0109-2B
- camshaft adjustment tool, to be used as OEM 0109-2A









Engine Timing Tool Set | for Fiat Ducato, Peugeot Boxer, Citroën Jumper 2.3 D JTD, 3.0 JTD, HDi

suitable for the following models:

- Citroën Relay/Jumper III
- Fiat Ducato
- Iveco Daily (03-10), Daily/EcoDaily (09-11)
- Peugeot Boxer III (06-12)
- 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



- 1 crankshaft locking pin
- 2 camshaft locking pins
- 1 crankshaft locking pin
- to be used as OEM Fiat 99360187, 99360614, 99360615,1860617000, 1860815000, 20000180200 / Citroën /Peugeot 0191-2A, 0191-2B, 0191-2J, 0191-2K





Engine Timing Tool Set | for Rover, Peugeot, Ford, Volvo 2.0, 2.2I D

• allows inspection and adjustment of engine timing

suitable for the following models:

- Peugeot 807 (05-11), 407 (05-11), 607 (05-09), engine DW10UTED4 (RHK), DW10BTED4 (RHR)DW12BTED4 (4HS), (4HP), (4HT), (4HR)
- Citroën C4 (04-10), C5 II (04-10), engine DW10BTED4 (RHR)
- Land Rover Freelander (06-10), engine DW12BTED4, 224DT
- Volvo S40 (03-10), V50 (06-10), C70 (06-10), S80 (07-10), C30 906-10),
 V70 (07-10), engine D420T 2.0D
- Ford S-Max 2.2 (08-10), Galaxy 2.2 (08-10), Mondeo 2.2, 2.0 (07-10)
- 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)
- camshaft locking tool, to be used as OEM PSA 0188.M, Ford 303-735, 303-1277, Volvo 999-7122
- crankshaft locking tool, to be used as OEM PSA 0188.X, Ford 303-1059, 303-1270, Volvo 999-7121
- flywheel locking tool, to be used as OEM PSA 0188.F, Ford 303-393A (303-393-01, 303-1272, Volvo 999-7119/7120









Engine Timing Tool Set | for PSA 2.5, 2.8 | Diesel

suitable for the following models:

- Citroen, Peugeot, Fiat, Iveco Traffic (80-00), Master (80-07), Mascot (99-07)
- Fiat, PSA, Renault Daily (91-05), Turbo Daily (94-00), Relay / Jumper (01-02) Boxer (00-06), Arena (97-01), Movano (98-03)
- 2 locking pins
- flywheel locking pin
- holding tool for timing belt tensioner
- to be used as OEM Fiat 1 870 667 000, 1 870 765 001, 1 860 617 000 / Renault MOT861, MOT1054, MOT863 / Opel KM6031 / Ford 21-260, 303-732 / Peugeot 0132AB, 5711TD, 4527TS2, 0178D, 0194A, 119790 / Citroen 0132AB, 5711TD, 4527TS2, 0178D, 0194A, 119790 / Mazda 49 JE 02018, 0991246510 / Volvo 999-7169





Camshaft Locking Tool | for 1.3l PSA Diesel

- for holding the camshaft when loosening and tightening the camshaft sprocket bolts
- required for works on camshaft drive
- suitable for Citroën, Peugeot, Fiat, Ford, Alfa Romeo 1.3 JTD
- recommended add-on for use with timing tool set BGS 8669
- to be used as Ford OEM 303-1475 / Fiat OEM 1871008600

Item # 9146



Engine Timing Tool Set | for Porsche Boxster, 911

• for checking the engine timing

suitable for the following Porsche models:

- Porsche Boxster (986 / 987) 2.5L (as of 1998), 2.7L (as of 2000), 3.2L (as of 2000)
- Porsche 911 (996 / 997) 3.6L (as of 2002), 3.4L (as of 2002)
- push pin / extension, to be used as OEM 9602
- aligning tool, to be used as OEM 9608
- TDC setting pin, to be used as OEM 9595
- camshaft locking tool, to be used as OEM 9612
- camshaft support, to be used as OEM 9611
- camshaft holding tool, to be used as OEM 9634







Tool Tray 1/3: Engine Timing Tool Set | for Porsche Panamera, Cayenne V8 | 8 pcs.

- to check and adjust the camshaft timing
- is required when changing the cylinder head gasket, replacing the camshaft, etc.
- camshaft gauges suitable for Panamera / Cayenne as of 2008, to be used as OEM 9678/1
- camshaft gauges suitable for Cayenne, to be used as OEM 9678
- auxiliary chain tensioner suitable for Cayenne as of 2008, to be used as OEM 9683/1
- 27 mm socket, 10 mm (3/8") drive, 30 mm length, suitable for Cayenne, to be used as OEM 9714
- crankshaft aligning tool, to be used as OEM 9595/1



Item #	Description
	Tool Tray 1/3: Engine Timing Tool Set for Porsche Panamera, Cayenne V8 8 pcs.
8835-1	Tool Tray 1/3, empty for Item 8835



Engine Timing Tool Set | for Porsche 911 (996, 997)

- to check and adjust the camshaft timing
- is required when renewing the cylinder head gasket, changing the camshaft, etc.
- 1 camshaft holding tool, suitable for engine M96/03, to be used as OEM 9685
- 1 camshaft locking tool, suitable for engines M97/01 & M96/03, to be used as OEM 9686
- 2 locking pins, suitable for engines M97/01 & M96/03, to be used as OEM 9595 / 9595/1







Engine Timing Tool Set | for Porsche Macan 3.0S / 3.6 Turbo

- is required when changing the timing chain, replacing the cylinder head gasket, etc.
- supplementary set to BGS 8835

suitable for the following models:

- Porsche Macan 3.0S / 3.6Turbo
- engine codes: MCT.M / MCT.L
- camshaft alignment tools, to be used as OEM 9861









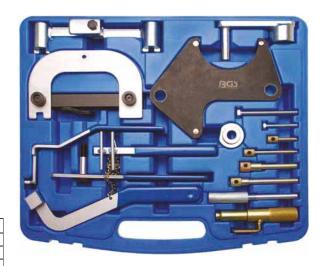
Engine Timing Tool Set | for Renault

- flywheel crankshaft locking tools
- tools for adjusting the camshaft, pumpshaft
- fuel injection pump shaft
- pulling off the crankshaft pulley
- tensioning the timing belt
- includes adjusting gauge for camshaft, crankshaft, pumpshaft
- to be used as OEM tools MOT1348, MOT1312, MOT1135 -01, MOT1384, MOT1337, MOT1496, MOT910-1, MOT910, MOT861, MOT863, MOT1054, MOT1318, MOT1489, MOT1340, MOT1386, MOT1490, MOT1490-1, KM6031

suitable for the following Renault models:

- petrol 1.4, 1.6, 1.8, 2.0 l, each with 16 valves
- 2.5 I 20V with double camshaft
- petrol 1.2, 1.4, 1.6, 1.7, 1.8, 2.0, 2.2 l
- diesel 1.9, 2.5, 2.8 l
- also to be used for Opel Arena/Movano and Volvo V/S 40

Item #	Description
8154	Engine Timing Tool Set for Renault
8154-1	Camshaft Tool for Renault for BGS 8154
8154-2	Crankshaft Locking Tool for Renault for BGS 8154
8154-4	Flywheel Fastening Clips for Renault for BGS 8154
8154-11	Camshaft Locking Tool for Renault 1.4 / 1.6 16v for BGS 8154
8154-15	Clamping Tool for Renault for BGS 8154
8154-LEER	Empty Case for BGS 8154



Engine Timing Tool Set | for Renault, Opel, Nissan | 12 pcs.

 for positioning and locking the crankshaft and camshaft when repairing the timing belt and engine

suitable 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 -
- 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: 1.5 (K9K), 1.9 (F9Q), 2.2 (G9T), 2.5 (G9U)
- inlet camshaft locking tool to be used as OEM KM6205 (MOT1534)
- exhaust camshaft locking tool to be used as OEM KM6204 (MOT1537)
- injection pump locking tool to be used as OEM MOT1538
- 5-piece clamping tool set to be used as OEM MOT1543
- locking pin to be used as OEM MOT1430
- crankshaft locking pin to be used as OEM MOT1536





Engine Timing Tool Set | for Nissan, Renault, Opel

• for adjusting the engine timing

suitable for the following models:

- Nissan Primaster (2008 2009), Qashqai (2008 2009), X-Trail (2007 2008) with engine codes M9R 780, 830, 832, 833
- Renault Koleos (2008 2009), Laguna (2005 2008), Megane (2007 2008), Scenic (2008 2009), Trafic (2007 2008), Vel Satis (2008 2009) with engine codes M9R 700, 721, 724, 740, 742, 446, 760, 761, 780, 802, 803, 805, 830, 832, 833
- Vauxhall, Opel Vivaro (2007 2008) with engine codes M9R 780, 782, 784
- crankshaft pulley holding tool, to be used as OEM Renault/Nissan EN-48334, Opel KM-956-1
- camshaft adjusting tool, to be used as OEM Renault MOT1769, Opel & Nissan EN-48332
- camshaft gear alignment tool, to be used as OEM Renault MOT1773, Opel & Nissan EN-48331
- crankshaft adjusting tool, to be used as OEM Renault MOT1766, Opel & Nissan EN-48330
- chain tensioner locking tool 2.96 mm
- belt tensioner locking tool

Item # 8421



Camshaft Locking Tool | for Renault 1.8 / 2.0 16V

- for locking the camshaft gears
- to be used as MOT 1509-01, 1509
- suitable for Renault Laguna II (2001 2009), Megane II (2002 2009), Scenic (2002 - 2009)
- with engine codes 700, 701, 712, 713, 714, 715, 720, 721, 722, 722, 730, 732, 736, 738, 740, 741, 744, 746, 747, 760, 761, 762, 763, 764, 765, 766, 767, 770, 771, 773, 774, 774, 775, 776, 784, 786, 787, 790, 792, 794, 797, 830, F4P, F4R





Engine Timing Tool Set | for Renault, Opel, Volvo, Mitsubishi, Chrysler

• for adjusting the engine timing on Renault petrol and diesel engines

suitable for the following models:

- Renault:
 - Clio (1990-2013), Espace / Grand Espace (1996-2002), Extra / Rapid / Express (1991-2002), Kangoo (1998-2009), Laguna (1994-2001), Megane (1995-2003), Scenic (1996-2003), Modus / Grand Modus II (2004-2013), Safrane (1992-2001), Trafic (1997-2000), Master II (2000-2003), Twingo (2000-2013), Wind (2011-2013)
- Opel:
- Arena (1997-2001), Movano-A (1999-2006), Vivaro (2001-2007)
- Volvo:
- S40 (1996-2004), V40 (1996-2004)
- Mitsubishi:
 - Carisma (2001-2005), Space Star (2000-2006)
- Chrysler:
 - Cherokee (1984-1995), Wrangler (1988-1995)

engine codes:

- E7F 1.2: 700, 704, 706, 708, 750
- D4F 1.2 16v: 702 / 704 / 706 / 708 / 712 / 714 / 716 / 722 / 728 / 730 / 740 / 742 / 764 / 772 / 780 / 782 / 784 / 786
- E7J 1.4: 601 / 624 / 626 / 634 / 635 / 710 / 711 / 716 / 718 / 719 / 754 / 756 / 757 / 764 / 780
- F3P 1.8: 674 / 676 / 678 / 710 / 712 / 714 / 720 / 724 / 755 / 758 / B670 / Q7 / R7 / S724
- F7P 1.8 16v: 720 / 722
- F8Q 1.9D/Di/Turbo: 600 / 606 / 620 / 622 / 624 / 630 / 632 / 644 / 646 / 648 / 662 / 672 /676 / 678 / 680 / 682 / 684 / 692 /696 / 714 / 722 / 724 / 730 / 732 / 776 / 784 / 786 / 788 / 790 / B640
- F9Q 1.9D dTi: F9Q1 / F9Q2 / 710 / 716 / 717 / 720 / 722 / 730 / 731 / 734 / 736 / 744 / 760 / 762 / 770 / 774 / 780 / 782 / 790 D4192T / D4191T2 D4192T3 / D4192T4
- F3R 2.0: 611 / 722 / 723 / 742 / 750 / 751 / 752 / 768 / 769 / 791 / 796 / 797 / 798
- J7R 2.0: 732 / 733 / 734 / 735
- F7R 2.0 16V: 700 / 714 / D710
- J7T 2.2 16V: 760 / 761
- G8T 2.2D/Turbo: 706 / 714 / 716 / 740 / 752 / 760 / 790 / 792 / 794
- camshaft locking tool, adjustable for DOHC engines
- high pressure diesel pump locking pin, to be used as OEM Mot.910
- tensioner spanner, to be used as OEM Mot1135-01
- crankshaft locking pin, to be used as OEM Mot.1318
- crankshaft locking pin, to be used as OEM Mot.1054
- crankshaft locking pin, to be used as OEM Mot.910





Engine Timing Tool Set | for Renault, Volvo, Ford 16V, 20V Petrol Engines

- contains important tools for adjusting the engine timing
- 1.6 1.8 1.9 2.0 2.3 2.4 2.5 I DOHC engines

suitable for the following models:

- Renault Laguna (built 1996 1999), Safrane (built 1996 2001) with the engine codes: N7Q 704, 710, 711 N7U 700, 701
- Ford Kuga (02/2008-), Focus ST RS (07/2004-), S-Max (03/2006-), Galaxy (03/2006-), Mondeo (02/2007-) with the engine codes: JZDA, HYDB, HYDC, HUWA
- Volvo 850 (built 1992 1997), C70 (built 1998 2002), S40 (built 1996 2004), V40 (built 1996 2004), S60 (built 2001 2005), S70 (built 1997 2000), S80 (built 1999 2005) with the 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
- camshaft locking tool, to be used as OEM MOTMOT1337, 999-5452, 303-1178
- tensioner pulley wrench, to be used as OEM MOT1348
- flywheel locking tool, to be used as OEM MOT1340, 999-5451, 303-1182



Item #

Engine Timing Tool Set | for Renault 1.5, 1.9 DCI

- for changing the timing belt
- suitable for Renault Laguna, Kangoo, Clio with 1.5, 1.9 DCi-engines
- crankshaft locking pin, to be used as OEM MOT 1489
- camshaft / crankshaft timing pin, to be used as OEM 0194B, 999-7122, 21-263, MOT 1430, 0187B, 0189B, 607589011500
- TDC timing pin, to be used as KM603 OEM, MOT 1054 MOT 861 MOT 863



Item # 8145



Locking Tool for Injection Pump Sprocket | for Renault

- for locking the injection pump sprocket for timing belt replacement and other works when dismantling of the timing belt is required
- suitable for the following models: Renault Clio, Megane, Laguna, Kangoo with 1.9 TDi, engine code: F9Q
- to be used as OEM 1200-01







Locking Pin Set | for automatic Belt Tensioner

- suitable for locking belt tensioners
- locking pin Ø 1.9 1.7 1.5 1.4 1.25 0.8 mm
- length of pins: 47 mm
- made of spring steel
- on aluminum hook

Item # 8438





Tool Tray 3/3: Engine Timing Tool Set | for Renault, Nissan, Opel, Volvo

• for checking and adjusting the engine timing

suitable for the following models:

- Renault: Clio 1-2-3-4, Clio Sport 1-2-3, Mégane 1-2-3, Master 1-2, Mégane Scénic 1-2-3, Vel Satis 1-2, Avantime, Kangoo 1-2-3, Laguna 1-2-3, Espace 1-2-3, Trafic 1-2, Wind, Modus, Twingo, Koleos
- Dacia: Logan, Duster, Sandero, Dokker
- Nissan: Note, Qashqai, Micra, Interstar, Primastar, Kubistar, Almera, Primera
- Opel: Vivaro, Movano
- Volvo: S 40, V 40

suitable for gasoline and diesel engines:

- 1.2 1.2 16V 1.4 1.4 16V 1.5DCI 1.6 1.6 16V, 1.6D 1.7 1.8 1.8 16V 1.9TD 1.9 1.9DCI, 1.9DTI 1.9CDTI 2.0 2.0 16V 2.1TD 2.2, 2.2DCI 2.2DTI 2.2TD 2.5DCI 2.5CDTI 2.5TD 2.8D
- camshaft locking tools, to be used as OEM MOT 1496, MOT 1750, MOT 1337, MOT 1534, KM-6205, MOT 1537, KM-6204
- camshaft gear adjusting tool, to be used as OEM MOT 1490-01
- crankshaft locking pins, to be used as OEM MOT 1054, KM-6031, KV113 B0280, MOT 1489, KV113 B0130, MOT 1340, MOT 910, MOT 1318, MOT 1489, MOT 1337, MOT 1536, KM-6203, MOT 1054
- tensioning tools, to be used as OEM MOT 1348, MOT 1312, MOT 1384, MOT 1135-01, MOT 1543, KM-6234, KV113 B0360, MOT 1386
- screw M6 x 45 mm
- screw M8 x 80 mm
- high pressure injection pump locking pins, to be used as OEM MOT 1538, MOT 1200-01









Tool Tray 3/3: Engine Timing Tool Set | for Fiat, Ford, Citroën, Peugeot

• for adjusting the engine timing when renewing the tooth belt, replacing the cylinder head gasket, etc.

suitable for the following models:

- Fiat Ulysse, Scudo, Ducato
- Lancia Zeta, Phedra
- Ford Fiesta, Fusion, Focus, Focus C-Max
- Citroen C15, C1, C2, C3 Pluriel, C4, C4 Picasso, C5, C6, C8, DS3, DS4, DS5, Xantia, Xsara, Xsara Picasso, Evasion, Berlingo, Jumpy, Jumper, Saxo, ZX, XM, Evasion, AX
- Peugeot 107, 1007, 206 cc, 207, 208, 306, 307 cc, 308, 406, 407, 508, 607, 806, 807, Partner, Expert, Boxer, 206, 106, 605, 205, 405
- Lancia / Fiat 2.0 & 2.2 JTD

suitable for engines:

- DW12TED4 (4HW), DW10ATED (RHT/RHV/RHW/RHX/RHZ)
- Ford 1.4 / 1.6 Duratorq TDCI Motorcodes: F6JA, F6JB, F6JC, G8DA, G8DB, HHDA, HHDB, HHJA, HHJB
- Citroen / Peugeot 1.0 / 1.1 / 1.4 / 1.6 / 1.6 16V, 1.4 / 1.6HDI / 1.8 / 1.8 16V / 2.0 / 2.0 Turbo, 1.9D / 2.0HDI / 2.2HDI / 1.8 16V / 2.0 16V
- flywheel puller, to be used as OEM 0188-P2, 0188-P, 174, 7015-T
- tensioner pulley locking levers, to be used as OEM 0188-J1, 0188-J2
- tensioner pulley locking pins, to be used as OEM 0188-Q2, 0188-AH, 0189-S2
- timing belt retaining clip, to be used as OEM 0132-AK, 0188-AK, 0189-K, 0153-AK, 4533-TAD, MOT 1436
- flywheel locking pins, to be used as OEM 0153-N, 0188-Y, 7014-TJ, 7099-TM, 9797-34,
 - 0188-D, 7017-TM, 0132-P, 4507-TL, 7017-TR, 0153-M, 0178-C, 0178-D, 7014-TM, 9767-94, 0189-B, 21-163, 0132-AJ1, 0153-G, 0188-M, 0189-J, 4533-TAC1, 5711-TA, 0189-L, 0189-C, 0189-R, 0153-U, 7019-T, 0132-Q, 0132-QZ, 4507-TA, 9767-27, 0132-X, 0188-Q1, 4507-TJ, 9767-89
- tensioner pulley locking pins, to be used as OEM 4200-TH, 0117-AR
- tensioning tool, to be used as OEM 0178-E
- flywheel locking tool, to be used as OEM 0153-A, 6012-T, 9765-54, 0134-AF, 0134-Q, 0188-F, 9004-T
- pulley locking lever, to be used as OEM 0606-A1-A2
- tensioner pulley adjusting tool, to be used as OEM 0189-S1









Tool Tray 3/3: Engine Timing Tool Set | for Ford, VAG, Mazda, Volvo

• for checking and adjusting the engine timing

suitable for the following models:

- Audi 80, A1, A2, A3, S3, A4, A5, A6, TT, Q5
- Seat Arosa, Ibiza, Cordoba, Leon, Toledo, Alhambra, Altea, Inca (99-04)
- Skoda Fabia, Octavia, Superb
- VW Lupo, Polo, Fox, Golf, Bora, Jetta, Golf Plus, Passat, Beetle, Touran, Sharan, Caddy, Caddy Maxi, Transporter, Golf VI Cabrio, Tiguan
- Ford Galaxy

petrol engines:

1.2 TSI / 1.4 / 1.4 TSI / 1.6 16V / 1.2 9V-12V 3-Zyl., 1.4 / 1.6 FSi (camshaft timing chain), 1.8 / 1.8 16V / 1.8T / 2.0 16V / 2.0 FSI / TFSI (timing belt)

diesel engines:

- 1.2 / 1.4 / 1.9 / 2.0 TDI PD, 1.9 TDI 75-90-110, 1.9 SDI 75-90-110, 1.9 TDI 105-130-150, 2.0 TDI DPF 140-170, 2.5 TDI V6
- camshaft locking & adjusting tools, to be used as OEM 3458, T30094, T10016, T10074, T10074, MP1-1312, T10098, T20038, 3418, T10123, T10121, T10120, T10252, T10171, 2065-A, 21-105
- crankshaft locking & adjusting tools, to be used as OEM 3242, T40069, T30052, T40026, T10414, T10100, T10340, T10341
- injection pump locking & adjusting tools, to be used as OEM 3359, T20102, 2064, U20003
- chain tensioner, tooth belt tensioner & drive belt tensioner tools, to be used as OEM 23-058, 310-084, T10008, 2065A, T10008, U40021, T10092, T40011, T10060, T10060A, T00115, T10264, T40098, 303-1054, T10115, T10092, T40011, T00115, T10264, T40098
- chain tensioner / crankshaft sprocket holder, to be used as OEM 3366, T20018. T20044
- crankshaft sprocket aligning tool, to be used as OEM 23-059, 310-085, T10050
- lever / wrench for tensioning the tooth belt, to be used as OEM 3387, U30009A, 2587, MATRA V.159, 3387, T10020
- locking bracket, to be used as OEM MP1-1312, T10098, T20038
- support guides, to be used as OEM OEM 3369, T30092, 3411
- TDC indicator, to be used as OEM T10170
- dial test indicator, to be used as OEM VAS6079









Tool Tray 3/3: Engine Timing Tool Set | for Fiat, Alfa, Lancia, Opel, Suzuki, Ford

• for checking and adjusting the engine timing

suitable for the following models:

- Alfa Romeo 145 / 146 / 147 / 155 / 156 / 159 / 166 /
- Spider / GTV / TS / GT / Crosswagon Q4
- Fiat Punto / Grande Punto / Brava / Bravo / Marea / Weekend / Stilo / Doblo / Cargo /
 - Idea / Panda / Multipla / Palio / Stilo / 500
- Lancia Lybra / Ypsilon / Thesis / Musa
- Opel Corsa / Agila / Meriva / Combo / Vectra / Zara / Astra / Insigna / Signum 1.9 CDTI
- Suzuki Ignis / Swift / Wagon R+
- Ford Ka

engines:

- 1.2 8V / 1.2 16V / 1.4 16V / 1.6 16V / 1.6 MultiJet / 1.9 JTD / 1.9 JTD 16V / 1.9 MultiJet / 1.9 CDTI / 2.0 MultiJet / 2.4 JTD 20V / 2.4 JTD / 1.3 JTD MultiJet / 1.3 CDTI / 1.3 TDCI / 1.9 CDTI
- camshaft locking & adjusting tools, to be used as OEM 1860874000, 1860874000, 1860985000, 1825041000, 1825041000, 1825042000, 1825042000, 1860847000, 1860847000, 2000004300, 1871000900, 2000004400, 2190754400, 1870896900
- crankshaft & flywheel locking tools, to be used as OEM 1860161000, 1860905000, EN-46788, 1860771000, 1860898000, 1860863000, 1870900300, 1860703000, 2190754500, 2000004200, 2190754200, 1860905000, 2000004500, 2190754500
- injection pump adjusting tools, to be used as OEM 1860965000
- tensioning tools, to be used as OEM 1860876000, 1860987000, 1860845000, 1860876000, 1870900400
- TDC indicators, to be used as OEM 1860992000, 1895443000









Tool Tray 3/3: Engine Timing Tool Set | for Fiat, Alfa, Lancia, Opel, Suzuki, Ford

• for checking and adjusting the engine timing

suitable for the following models:

- Opel Corsa B/C / Combo / Tigra / Agila /Tigra B / Meriva / Astra F/G/H / Astravan / Speedster VX220 / Zafira A/B / Vectra B/C / Signum / Omega B / Sintra / Frontera A/B / Astravan / Kadett / Ascona / Omega / Monterey / Antara / Croma / Speedster VX220
- Chevrolet & Daewoo Epica / Captiva / Nubira / Lacetti / Evanda
- Saab 9-3 / 9-5 (98-04)
- Alfa 145 / 146 / 147 / 156 / 159 / 166
- GT / Crosswagon Q4
- Fiat Punto / Grande Punto / Bravo / Brava / Marea Weekend / Stilo / Doblò/Cargo / Multipla Idea / Panda
- Lancia Ypsilon / Musa / Lybra / Thesis
- Suzuki Ignis / Swift / Wagon R+
- Ford Ka

engines:

- 1.0 12V / 1.0 16V / 1.2 16V / 1.4 / 1.6 / 1.2-1.4 16V (chain) / 2.0 / 2.0
 Turbo / 2.2 DI / 2.0-2.2 16V / 1.6 16V / 1.8 16V / 2.0 16V / 2.2 16V / 1.3
 JTD MultiJet / 1.3 CDTI / 1.3 TDCI / 1.6 MultiJet / 1.9 JTD / 1.9 MultiJet /
 2.4 JTD / 1.9 CDTI / 2.0 MultiJet / 1.5 D / 1.5 TD / 1.7 D / 1.7 TD / 1.6-1.7
 D / 3.0 TD / 3.1TD / 2.0-2.2-2.4 TD / 2.0-2.2 DI / 2.0 TDCI / 2.0 D VCDI /
 2.2 16V (DOHC)
- adjusting wrench, to be used as OEM KM-933
- injection pump locking pin, to be used as OEM KM-927
- flywheel & crankshaft locking tools, to be used as OEM KM-929 / KM-952 / EN-46785 / KM-951 / 1860905000 / 1860905010 / EN-46788 / KM-911 / EN-46785 / 1860703000 / EN-48246 / 1870900300 / 303-1468
- tensioner tools, to be used as OEM KM-955 / KM-6130 / KM-6349 / KM-6349 / 1870900400 / 1871000200









Tool Tray 3/3: Engine Timing Tool Set | for Ford, VW, Seat, Mazda, Volvo

• for checking and adjusting the engine timing

suitable for the following models:

- Ford Fiesta, Fusion, Courier, Escort, Focus, Focus C Max, Puma, Mondeo, Sierra, Cougar, Galaxy, C-Max, Orion, Tourneo Connect, Transit, Transit Connect
- VW Sharan
- Seat Alhambra
- Mazda 121
- Volvo S40, V50

gasoline engines:

• 1.2 / 1.25 / 1.4 / 1.6 / 1.6 / 1.7 / 1.8 / 2.0 16V / 1.6 TI-VCT / 1.6 SCTI

diesel engines:

• 1.6 Duratorq TDCI / 1.8D / 1.8TD / 1.8 DI (98-04) / 1.8 TDCI (01-04) / 1.6D / 1.9TDI / 2.5D TCI / 1.9TDI / 2.5D/TCI / 1.4TDCI / 1.6TDCI / 1.8D / 1.8TCI / 1.8TDDI / 1.8TDCI / 1.8D Turbo / 1.9TDI PD / 2.0TDCI / 2.2TDCI / 2.5D / 2.5D Turbo / 2.0 / 2.2 / 2.4 Duratorq TDCI 16V / 1.4TDCI / 1.6D 8V / 1.6D 16V

scope of delivery:

- camshaft adjusting tools, to be used as OEM 21-105, 303-1061, 21-162B, 303-367, 303-376, 323-029
- injection pump adjusting tools, to be used as OEM 2064, 23-047, 310-055, U20003, 21-260, 303-732, 23-020, 21-238, 303-679A, 303-1151
- flywheel / crankshaft locking tool, to be used as OEM 303-1060, 0132-AB, 0178-D, 21-151, 0194-B, 21-263, 303-735, 49JE02021, 21-234, 21-251, 0194-C, 21-262, 303-734, 21-163, 303-620, 21-210, 21-123, 21-234, 21-251, 303-675, 303-698
- camshaft sprocket puller, to be used as OEM 21-229, 303-651
- feeler gauge







Engine Timing Tool Set | for Hyundai, Mitsubishi

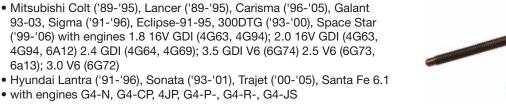
• includes important tools for checking engine timing and changing timing tooth belt

suitable for the following models:

- Hyundai 1.6 / 1.8 / 2.0 / 2.4 Twin Cams and Mitsubishi 1.8 to 3.5 16V and V6
- 93-03, Sigma ('91-'96), Eclipse-91-95, 300DTG ('93-'00), Space Star ('99-'06) with engines 1.8 16V GDI (4G63, 4G94); 2.0 16V GDI (4G63, 4G94, 6A12) 2.4 GDI (4G64, 4G69); 3.5 GDI V6 (6G74) 2.5 V6 (6G73, 6a13); 3.0 V6 (6G72)
- with engines G4-N, G4-CP, 4JP, G4-P-, G4-R-, G4-JS







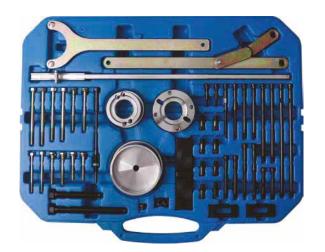






Engine Timing Tool Set | for Toyota, Mitsubishi

- suitable for Toyota, Mitsubishi and identical models
- important kit when working on the engine, e.g. timing belt, basic motor settings, camshafts, etc.
- handle puller, to be used as OEM 09330-0021
- gear tool, to be used as OEM 09278-54012
- drive tool for crankshaft pulley, to be used as OEM 09223-15030
- holding tool for pulley / crankshaft, to be used as OEM 09213-54015 screws for holding tool 09213-54015
- holding tool for pulley / crankshaft, to be used as OEM 09213-14010 screws for holding tool 09213-14010
- puller C set SST, to be used as OEM 09951-50013
- cross-piece 150 mm 7, to be used as OEM 09951-05010
- slider, 2 pcs. 29, to be used as OEM 09952-05010
- bolt 100 27, to be used as OEM 09953-05010
- bolt 150 28, to be used as OEM 09953-05020
- 8 pulling arms, M5 to M8 OEM 09954-05011 to 05080
- adaptor no. 1, M10 x 1.25; 2 pcs., to be used as OEM 09555-05010
- adaptor no. 1, M10 x 1.5; 2 pcs., to be used as OEM 09555-05020
- adaptor no. 1, M12 x 1.25; 2 pcs., to be used as OEM 09555-05030
- adaptor no. 1, M12 x 1.5; 2 pcs., to be used as OEM 09555-05040
- supplement connection piece, to be used as OEM 09957-04010
- holding toolfor pulley / crankshaft, to be used as OEM XB990757
- belt tensioner tool, to be used as OEM XD998738
- holding tool for pulley / crankshaft, to be used as OEM XD998767





Diesel Fuel Pump Timing Set | 10 pcs.

- for an accurate adjustment of several different fuel injection pumps e. g. Bosch VE, Kikki, Lucas, CAV-Roto, Nippon Denso
- measuring adapter for piston height adaptor M14, to be used as OEM T10170
- measuring adapter, long M8
- measuring adapter, short M8
- measuring adapter, short M10
- probe, to be used as OEM 999-5382
- extension, lenght 99mm
- extension, length 40.8mm
- mounting bracket (CAV)
- thread adaptor M8
- thread adaptor M10

Item # 8157

8157-1

• dial test



S1	t indicator, to be used as OEM KM-571-A , 3313, VAS6079	
	Description	
	Diesel Fuel Pump Timing Set 10 pcs.	

Camshaft Sprocket Locking Tool Set | universal

- for locking camshaft sprockets when renewing the tooth belt
- suitable for engines with 1, 2 or 4 camshafts (V-engines), also suitable for locking between camshaft sprocket and diesel injection pump sprockets on certain diesel engines
- universal application on vehicles of the following manufacturers:
 - Audi, Alfa Romeo, Chrysler, Citroen, Ford, Honda,
 - Hyundai, Isuzu, Land Rover, Lexus, Mazda,

Gauge | for BGS 8157 | Ø 41 mm

- Mitsubishi, Peugeot, Renault, MG, Seat, Skoda,
- Subaru, Toyota, Opel, Volkswagen, Volvo
- twin camshaft locking tool with short and long connecting arm
- single camshaft locking tool with short and long locking screw







Camshaft Locking Tool

- needed for tooth belt replacement and other engine timing jobs
- suitable for most Diesel and gasoline DOHC engines
- fixation by locking the camshafts against each other
- pins made of hardened steel for long tool life
- versatile applications because of 2 different arm lengths
- special knob on center arm can be turned into a place-saving position





Twin Cam Lock | for double cam motors

- can be used for toothed belt distances 13 180 mm for Diesel and Gasoline engines
- locks the camshaft on the side of the fuel injection pump wheel, so that the toothed belt wheels can be correctly positioned towards the crankshaft







Pulley Holder for the High-Pressure Pump | for Opel, Renault, Nissan

- suitable for diesel engines with F9Q engine code
- in Opel, Renault, Nissan cars
- no need to disassemble the tooth belt
- · pump wheel is locked securely
- pump does not need to be re-adjusted



Item # 8278

Setting and Timing Tool for Diesel Pumps | for Renault, Mitsubishi, Opel

- for F8Q and F9Q diesel engines with adjustable pump wheel
- used in Renault Megan / Scenic / Kangoo, Mitsubishi Carisma, Opel / Vauxhall Arena, Volvo S40 / V40 etc.
- special socket with 27 mm hexagon and 1/2" drive
- setting tool with 3 x 4 mm pins to adjust the pump
- adaptor for Bosch pumps M10 to M8



Item # 8281

TDC Finder

- for easy and accurate determination of the ignition TDC (top dead centre)
- especially suitable for vehicles which have no TDC markings
- measurement unit with magnetic holder
- connecting tube with spark plug or glow plug adaptor in 8 -10 -12 -14 -18 mm + universal cone adaptor
- 60 and 160 mm aluminium adaptor tube for deep seated spark plugs



Item #	Description
8304	TDC Finder
8304-LEER	Empty Case for BGS 8304





Engine Timing Tool Set | for VAG

suitable for the following engines:

- 1.9/2.0 | TDI pump/nozzle
- 1.9 I TDI
- 2.5 I V6-TDI
- 3.3 I V8-TDI
- 1.2 I 3-cylinder and 1.4/1.6 I gasoline engines

important adjustment tools such as:

- setting gauge for the camshaft (e. g. VW 1.9 I TDI)
- locking tool for the timing belt (e. g. VW / Skoda 1.9 I / 2.0 I TDI pump/ nozzle)
- camshaft locking tool (e.g. VW / Audi 2.5 I V6 TDI)
- adjustable tensioner wrench (universal for VW / Audi)
- injection pump locking pin (e.g. VW / Audi / Seat / Skoda)
- mounting plate for timing belt tensioner (VW / Skoda 4 cyl. TDI pump/ nozzle)
- 22 mm open socket for diesel injectors
- camshaft setting tools, to be used as OEM T10123, T10120, 3458, 3418, 2065A, 3366, T10098 / 3418
- crankshaft setting tools, to be used as OEM T10121, 3242, T10050, T10100
- tensioner pulley locking pins, to be used as OEM T10060A, T10020, T10008, T40011
- injection pump locking tools, to be used as OEM 3359, 2064

Item #	Description
8155	Engine Timing Tool Set for VAG
8155-1	Engine Timing Tool Set for VW 1.2 2 pcs.
8155-01	Camshaft Alignment Tool for VAG for BGS 8155
8155-2	Special Tool for checking the Engine timing for VAG 1.2
8155-5	Crankshaft Locking Tool for BGS 8155
8155-6	Crankshaft Locking Tool for VAG 6 and 8 Cylinder Engines for BGS
	8155
8155-8	Camshaft Locking Tool for BGS 8155
8155-9	Tensioner Wrench for VAG
8155-12	Injector Spanner for BGS 8155
8155-15	Locking Screw for BGS 8155
8155-16	Stud with Nut for BGS 8155
8155-17	Fixing Pin for Tensioner Pulley
8155-18	Camshaft Alignment for VAG for BGS 8155
8155-19	Camshaft Locking Tool for BGS 8155
8155-20	Injection Pump Locking Tool for BGS 8155
8155-23	Locking Pin for BGS 8155 Ø 2.5 mm
8155-25	Locking Tool for Engine Setting for BGS 8155
8155-26	3-Side Wrench for Engine Timing for VAG
8155-LEER	Empty Case for BGS 8155





Engine Timing Tool Set | for VAG 1.6, 2.0 CR TDI

suitable for the following models:

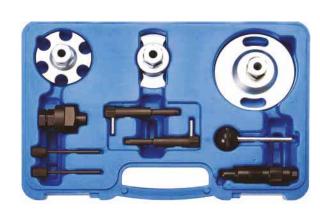
- Audi A1, A3 (8P), A4 (B8), A5A6 (C6, C7), TT (8J), Q3, Q5
- Skoda Fabia II, Roomster, Praktik, Oktavia II, Suberb II, Yeti
- Seat Ibiza (6J), Leon III, Exeo, Altea, Alhambra II
- VW Golf V, VI and Plus, Eos, Polo VJetta V and VI, Scirocco III, Beetle II, Caddy II, Passat B6, B7 and CC, Touran, Sharan II, T5, Amarok
- 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.
- also suitable for earlier pump-nozzle engines
- includes important tools for checking and adjusting engine timing after e. g. timing belt replacement
- injection pump locking pin to be used as OEM T20102, U40074, 3359
- crankshaft locking tool to be used as OEM T10050, T10100
- ball end hex key 6 mm to be used as OEM T10264
- 2.5mm tensioner pulley locking pin to be used as OEM T10265
- 3.9mm tensioner pulley locking pin to be used as OEM T40098
- sprocket holding tool to be used as OEM T10051
- camshaft sprocket hub puller to be used as OEM T10052
- oil pump balancer shaft alignment tool to be used as OEM T10255



Item #	Description
66200	Engine Timing Tool Set for VAG 1.6, 2.0 CR TDI
66200-1	Puller for Engine Setting for VAG

Engine Timing Tool Set | for VAG 2.7, 3.0 TDI

- suitable for Audi A4, A5, A6, AB, Q5, Q7 and VW Touareg, Phaeton with engine codes ASB, BKN, BKS, BMK, BMZ, BNG, BPP, BSG, BUG, BUN, CAMA, CAMB, CANA, CANB, CANC, CAND, CAPA, CARA, CARB, CASA, CASB, CASC, CATA, CCMA, CCWA, CCWB, CDYA, CDYB, CDYC, CEXA, CGKA, CGKB
- for locking the camshaft, crankshaft and fixing the chain tensioner
- required for timing chain replacement or engine repair
- camshaft locking pin to be used as OEM T40062
- camshaft tool to be used as OEM T40061
- rotating adaptor for crankshaft to be used as OEM T40049
- locking pin for injection pump to be used as OEM 3359
- rotating adaptor for crankshaft to be used as OEM T40058
- 2 camshaft locking tools, to be used as OEM T40060
- crankshaft locking pin to be used as OEM 3242
- 2 locking pins for chain tensioner





Engine Timing Tool Set | for VAG

• suitable for 1.8 I turbo and 1.6 I FSI engines

suitable 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
- Seat:
 - Sharan 1.8 Turbo (AJH AWC) 1997-2007
 - Ibiza 1.8 Turbo (AQX AYP) 1999-2002
 - Cordoba 1.8 Turbo (AQX AYP) 1999-2002
 - Leon 1.8 Turbo (AJQ AQN APG APP APT ARYAUQ) 1999-2005
 - Toledo Turbo (AQN APG APT ARY AUQ) 1999-2005
 - Alhambra 1.8 Turbo (AJW AWC) 1997-2007
- Skoda:
 - 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
- crankshaft counterholder to be used as OEM 3036
- camshaft locking tool to be used as OEM T10171
- counterholder for timing chain sprocket camshaft, vibration damper, to be used as OEM T10172
- adaptors for counterholder, to be used as OEM T10172
- holder for chain adjuster for assembly and disassembly of the chain adjuster, to be used as OEM T20018 / 3366
- fixing pin for tensioner pulley, to be used as OEM T40011





Engine Timing Tool Set | for VAG 2.4, 2,8, 3.0 FSI

- for checking and setting the camshaft timing
- suitable for Audi V6, V8 and V10-engines with chain
- camshaft locking tool to be used as OEM T40070
- crankshaft locking pin to be used as OEM T40069
- chain tensioner locking pin to be used as OEM T40071



Item # 66210

Engine Timing Tool Set | for VAG 2.5, 4.9D, TDI PD

- suitable for VW T5 as of 2004, Touareg and Phaeton since 2003 with 5-cylinder and 10-cylinder engines with engine codes: AXD, AXE, BAC, BLJ, BLK, BNZ, BPC, BPD, BPE
- camshaft locking tool for review and adjustment, suitable for 5- and 10cylinder engines, to be used as OEM T10193
- camshaft locking tool for review and adjustment of 10-cylinder engines, to be used as OEM T10194
- clamping device for removal and replacement of the camshaft wheels of 5- and 10-cylinder engines, to be used as OEM T10199, T10199/1
- special socket for rotating the crankshaft of 5-cylinder engines, to be used as OEM T10225
- crankshaft locking wrench for 5-cylinder engines, to be used as OEM T10226
- tensioner wrench



Item # 8443

Engine Timing Tool Set | for Audi A4, A6, A8

- suitable for Audi A4, A6, A8 with engine codes ASN, AVK, BBJ
- for timing belt replacement and repair work on the engine
- easy mounting of the belt as camshaft and crankshaft are fixed
- 2 camshaft locking tool, to be used as OEM T40030
- crankshaft locking tool, to be used as OEM T40026
- tensioner pulley wrench, to be used as OEM 3387
- socket for basic adjustment of the camshaft adjuster, to be used as OEM T40028
- pins for clamping element, to be used as OEM T40011







Camshaft Locking Tool | for VAG 5- and 10-Cylinder engines

- suitable for VW Phaeton 2003, Touareg as of 2003, Transporter as of 2004 with 5- and 10-cylinder diesel engines
- to be used as OEM T10193 or T10194
- for adjusting the camshaft when checking and repairing the engine
- no twisting of camshafts, allows precise adjustment



Item # 8279

Tooth Belt Tool Set | for VAG

- set for working and locking the tooth belt tensioner rolls
- is needed when changing the tooth belt and during general engine repair jobs
- for the most common VW, Audi, Seat, Skoda fuel and Diesel engines
- spanners can be used as a counterholder
- no displacing of tooth belt tension when tightening the nut
- 3 tensioner pulley wrenches in different lengths and offset shapes to be used as OEM T10020, V159, 3387
- 3 locking pins for tooth belt spanners:
 - 1.6 mm used as OEM T40011
 - 2.5 mm used as OEM T03006
- 4 mm used as OEM T10060A



Item # 8241

Engine Timing Tool Set | for VAG | 7 pcs.

- suitable for 2.0 L FSI and TFSI engines, e. g. Golf, Touran, Audi A3, engine codes: AWA, BMB, AXW
- alignment pin, to be used as OEM T10060A
- \bullet locking pin, to be used as OEM T10115
- locking pin, to be used as OEM T40011
- chain tensioner, to be used as OEM 3366
- camshaft locking tool, to be used as OEM T10252
- tensioning screw, to be used as OEM T10092
- pin-type face wrench, to be used as OEM T10020







Engine Timing Tool Set | for VW | 5 pcs.

- for engine codes AAB, AJA, BJJ, BJK, BJL, BJM
- for VW Transporter 2.4D (95-03), Crafter 2.5TDI (06-09) and LT models
- to be used as OEM T10025, 2065A, 2064



Item # 8216

Engine Timing Tool Set | for VAG

suitable for the following VAG models with 1.2 L 3-cylinder engines:

- · Volkswagen:
- Polo 1.2 L, 6V, 3-cylinder, engine codes AWY, BMD, BBM
- Polo 1.2 L, 12V, 3-cylinder, engine codes AZQ, BME, BZG, CGPA, CGPB,
- Skoda:
 - Fabia 1.2 L, 6V, 3-cylinder, engine codes AWY, BMD
 - Fabia 1.2 L, 12V, 3-cylinder, engine codes AZQ, BME, BZG, CEVA, CGPA, CGPB
 - Rapid 1.2 L, 12V, 3-cylinder engine code CGPC
 - Roomster 1.2 L, 12V, 3-cylinder, engine codes BME, BZG, CGPA
 - Praktik Rapid 1.2 L, 12V, 3-cylinder, engine codes BZG, CGPA
- Seat
- Ibiza 1.2 L, 12V, 3-cylinder, engine codes AZQ, BME, BXV, BZG, CGPA, CGPB
- Cordoba 1.2 L, 12V, 3-cylinder, engine codes AZQ, BME, BXV
- camshaft locking tool, to be used as OEM T10123
- camshaft locking tool, to be used as OEM T10120
- crankshaft locking tool, to be used as OEM T10121



Item # 8158

Crankshaft Locking Tool | for VW Touareg / Phaeton from 2003

- suitable for VW Touareg manufactured before 2003, Phaeton manufactured before 2003 with 10-cylinder diesel engine
- crankshaft locking tool, for locking the crankshaft when adjusting engine timing, to be used as OEM T10195
- adjusting bolts, for mounting of the engine control module (wheels cassette), to be used as OEM T10200
- supplementary set for BGS 8443







Engine Timing Tool Set | for VAG 2.8, 3.0 TFSi

- for checking and setting the engine timing
- suitable for Audi 2.8 / 3.0 TFSi, petrol direct injection engines in Audi A6 as of 2005
- crankshaft locking pin, to be used as OEM T40069
- camshaft adjusting tool, to be used as OEM T40133
- chain tensioner locking tool, to be used as OEM T40071
- camshaft adjuster pre-tensioning tool, to be used as OEM T10172
- bolts for pre-tensioning tool (4 pcs.), to be used as OEM T10172/2
- two-pin wrench, to be used as OEM 3212
- crankshaft pulley bolt adaptor, to be used as OEM T40058
- special socket, to be used as OEM T10035







Engine Timing Tool Set | for VAG 1.2 TSI, TFSI | 4 pcs.

 for adjusting the timing during replacement of the timing chain, renewing of the cylinder head gasket, etc.

suitable 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
- Skoda Fabia, Fabia Combi, Wildwasser, Oktavia, Roomster, Yeti
- Seat Altea, Ibiza, Leon, Toledo
- crankshaft locking tool, to be used as OEM T10340
- camshaft locking tool, to be used as OEM T10414
- guide pin, to be used as OEM-T10341







Engine Timing Tool Set | for VAG 1.0, 1.2, 1.4

• for adjusting and checking the engine timing

suitable for the following VAG (EA211) engines with timing belts:

- 1.0 MPI 3-cylinder, engine codes CHYA
- 1.0 TSI 3-cylinder, engine codes CHZE, CHZC, CHZA, CHZB, CHZC, CHZD, CHZJ
- 1.2 TSI 4-cylinder, engine codes CJZB, CJZC, CYVA, CJZA, CJZD, CYVB
- 1.4 TSI 4-cylinder, engine codes CZCC, CMBA, CZCA, CHPA, CPTA (with ACT), CZDA, CVNA, CZEA (with ACT)
- crankshaft locking bolt, to be used as OEM T10340
- camshaft adjusting plate, to be used as OEM T10477
- camshaft sprocket locking tool, to be used as OEM T10476
- tensioner adjusting wrench, to be used as OEM T10499
- camshaft adjusting plate, to be used as OEM T10494
- assembly tool, to be used as OEM T10487



Item # 8922

Engine Timing Tool Set | for VAG 1.8 I, 2.0 FSI, TFSI

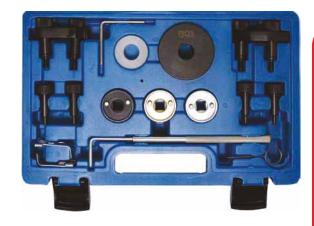
- for checking and setting the engine timing
- suitable for 1.8 / 2.0L VAG engines with engine codes BYT, BZB, CABA, CABB, CABD, CADA, CAEA, CAEB, CAWA, CAWB, CBFA, CCTA, CCZA, CCZB, CCZC, CCZD, CDAA, CDAB, CDHA, CDHB, CDNB, CDNC, CDND, CESA, CETA, CFKA, CFPA, CGYA, CHHA, CHHB, CJBA, CJEB, CJKA, CJKB, CJSA, CJSB, CNCD, CPLA, CPSA
- built e.g. into Audi A4 / A5 (as of 2008) / A6 (as of 2012)
- crankshaft counterholding tool, to be used as OEM T10355
- crankshaft thrust piece, to be used as OEM T10368
- crankshaft thrust piece, to be used as OEM T10354
- camshaft locking bolts (4x), to be used as OEM T40196
- chain tensioner locking clips (2x), to be used as OEM T40267
- chain sprocket locking tools (2x), to be used as OEM T40271, T20208
- camshaft control valve tool, to be used as OEM T10352
- camshaft control valve tool, to be used as OEM T10352/1
- camshaft control valve tool, to be used as OEM T10352/2
- belt tensioner locking pin, to be used as OEM T10060A
- tensioner locking pins (2x), to be used as OEM T40011
- oil pump tensioner locking tool, to be used as OEM T40265





Engine Timing Tool Set | for VAG 1.8, 2.0 | FSI, TFSI

- for checking and setting the engine timing
- suitable for 1.8 / 2.0L VAG (EA888), with engine codes 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, CJKA, CJKB, CJSA, CJSB, CNCD, CPLA, CPSA
- built e. g. into Audi A4 / A5 (as of 2008) / A6 (as of 2012)
- crankshaft thrust piece, to be used as OEM T10368
- crankshaft thrust piece, to be used as OEM T10354
- camshaft locking bolt (4x), to be used as OEM T40196
- chain tensioner locking clip (2x), to be used as OEM T40267
- chain sprocket locking tools (2x), to be used as OEM T40271,T20208
- camshaft control valve tool, to be used as OEM T10352
- camshaft control valve tool, to be used as OEM T10352/1
- camshaft control valve tool, to be used as OEM T10352/2
- belt tensioner locking pin, to be used as OEM T10060A
- tensioner locking pins (2x), to be used as OEM T40011
- oil pump tensioner locking tool, to be used as OEM T40265



Item # 8928

Engine Timing Tool Set | for VAG 2.0 TFSI

- for checking and setting the engine timing on VAG 2.0L TFSI engines with code CAEB as of 2009
- crankshaft counterholding tool, to be used as OEM T10355
- crankshaft thrust piece, to be used as OEM T10368
- camshaft locking bolts (4x), to be used as OEM T40196
- chain tensioner locking clips (2x), to be used as OEM T40267
- chain sprocket locking tools (2x), to be used as OEM T40271
- camshaft control valve tool, to be used as OEM T10352





Camshaft Central Valve Sockets | for VAG 1.8 / 2.0 TFSI / TSI

- for disassembly / assembly of 4/3-way central valve of camshaft adjustment
- suitable for 1.8 & 2.0 L 4-cyl. injection & direct injection engines with timing chain, installed in the following models:
 - Audi A3, A4, A5, Q5, TT
 - Seat Altea, Leon, Toledo, Exeo
 - Skoda Octavia II, Superb II, Yeti
- Volkswagen Eos, Golf, Jetta, Passat, Scirocco, Sharan, Tiguan
- 3 special sockets, 10 mm (3/8") drive:
 - special socket for camshaft control valve, to be used as OEM T10352
 - special socket for camshaft control valve, to be used as OEM T10352/1
 - special socket for camshaft control valve, to be used as OEM T10352/2



Item # 9064

Camshaft Central Valve Sockets | VAG 1.8 / 2.0 TFSI

- used for removal and installation of 4/3-way central valve on the camshaft adjustment
- suitable for VW Passat, Audi A3, A4, A5, Q5 1.8 I and 2.0 litre engines with chain drive
- to be used as OEM T10352 / T10352/1







Engine Timing Tool Set | for VAG FSI, TSI 1.4, 1.6 with Timing Chain

- to check and the adjust the camshaft timing
- required when replacing timing chains
- suitable for VAG FSI and TFSI 1.4L and 1.6L engines

suitable for the following models:

- Audi A3 (03-10)
- Seat Ibiza, Leon, Altea
- Skoda Octavia (04-09), Fabia (07-09), Superb (09-10), Roomster (06-09)
- VW Golf (03-09), Golf Plus (05-09), Jetta (06-09), Passat (05-09), Polo (02-08), Scirocco (09-10), Tiguan (07-09), Touran (03-09), Eos (06-09)
- engine code AXU, BLG, BAG, BMY, BKG, BMK, BLF, CAVA, BLN, CAVB, BLP, CAVC, CAVE, CAVF, CAVD, CAXA, CAXC, CDGA, BTS



- camshaft locking tool, to be used as OEM T10171
- setting gauge holder, to be used as OEM T10100
- crankshaft locking tool, to be used as OEM T10340
- tensioner locking tool, to be used as OEM T40011

Item #	Description
62625	Engine Timing Tool Set for VAG FSI, TSI 1.4, 1.6 with Timing Chain
62625-1	Crankshaft Locking Tool for VAG FSI / TFSI for BGS 62625



Engine Timing Tool Set | for Audi 2.4, 2.8, 3.0 TFSI

- for setting the engine timing when replacing the cylinder head gasket, camshaft, etc.
- suitable for e. g. Audi A6, Q5
- 2 camshaft locking tools, to be used as OEM T40133
- crankshaft locking pin to be used as OEM T40069
- chain tensioner locking tool, to be used as OEM T40071
- crankshaft turning tool, to be used as OEM T40058







Front Mask Removing Tool | for Audi A4 | 2 pcs.

- for moving the front mask in service position e. g. Audi A4, Passat as of 1997
- for changing the toothed belt or replacing the water pump
- to be used as OEM T10093







Camshaft Guide | for VW, Audi | 170 mm

- for VW and Audi
- engine codes: AAA ABV AES AGZ AMY AZX







Tensioner Pulley Wrench | for VW/Audi engines

- 5-way adjustable and 180° pivotable handle
- can also be used in hard-to-reach areas
- especially for timing belts on 4- and 5-cylinder VAG engines and VW T4 servo pumps
- extra flat type









Camshaft Locking Tool | for Audi, VW

- is needed for changing of the tooth belt on Audi and VW with the following engines: AUDI A4 2.4 2.8 1997 2002, A6 2.4 1997 2002, A6 2.8 1997 2002, A8 2.8 1997 2002, S4 2.7 Turbo 1997 2001 or Volkswagen with ACK, ALG, APR, AQD engines and Passat 2.4 1996 2002, Passat 2.8 30v 1996 2001
- · avoids distortion of the camshaft during tooth belt assembly
- allows easy and precise assembly of the tooth belt
- suitable crankshaft locking tool available under BGS 8155-6



Item # 8232

Camshaft Locking Tool | for Audi, VW

- is needed for changing of the tooth belt on Audi and VW with 2-valve V6 engines e.g. Audi 80, 90, A4, A6 1994-97 ABC, AFC engine
- · avoids distortion of the camshaft during tooth belt assembly
- with the fixing hook a tight fit is guaranteed
- allows easy and precsie assembly of the tooth belt



Item # 8233

Camshaft Locking Tool | for Audi, VW

- is needed for changing of the tooth belt on Audi and VW with the following engines: V8 3.3L to 4.2L 5-valve engines in Audi A6, A8 with e. g. engine codes AKB, AUX, AYS, AQJ, ARS, ART, AWN, BBD, BCY, BFM 1998 - 2003 and VW Touareg and Phaeton
- · avoids distortion of the camshaft during tooth belt assembly
- allows easy and precise assembly of the tooth belt
- to be used as OEM T40005



Item # 8234

Serpentine Belt Tool | for VAG

- for VAG engines without tensioner pulley
- tensioning is carried out through spring loaded alternator
- wrench allows to press the alternator against the spring tension and change the poly-V-belt without problems
- knurled bolts prevent slipping-off hazard





Special Crankshaft Rotation Tool | for VAG 5-Cylinder Engines

- no twisting of camshafts- necessary for crankshaft adjustment and use as a lever
- suitable for all 5-cylinder VW diesel engines
- used in e. g. Touareg as of 2003 and Transporter as of 2004
- fixing screw allows easy mounting on crankshaft
- to be used as VAG OEM T10225







Crankshaft Seal Ring Mounting Tool | for VAG 1.4 & 1.6 16V

- for mounting of the transmission-side radial sealing ring
- installing the sealing ring without this tool can cause leaks, destruction of the new sealing ring and bad engine running
- suitable for VAG vehicles with 1.4 & 1.6 16V engines, installed in e. g. Seat Arosa, Ibiza, Cordoba, Leon, Toledo, Inca, Skoda Fabia, Octavia, Roomster, VW Lupo, Polo, Golf, Bora, Beetle, Caddy
- to be used as OEM T10017





Crankshaft Seal Ring Mounting Tool | for VAG Petrol & Diesel Engines

- for mounting of the transmission-side radial sealing ring
- an assembly test of the sealing ring without this tool can cause leaks, destruction of the new sealing ring and poor engine running
- suitable for VAG vehicles
 VW 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 engine
- to be used as OEM T10134







Engine Timing Tool Set | for Audi, VW V6 TDI

• for locking of crankshaft and camshaft when working on the engine timing, e. g. changing of the tooth belt, disassembly of the cylinder heads etc.

suitable for the following models

- VW Passat 2.5 V6 TDI
- Audi A4 2.5 V6 TDI
- Audi A6 2.5 V6 TDI
- Audi A8 2.5 V6 TDI
- Skoda Superb 2.5 V6 TDI
- engines codes: AFB, AKN, AKE, AYM, BAU, BCZ, BDG, BDH, BFC
- crankshaft locking pin, to be used as OEM 3242
- camshaft locking plates, to be used as OEM 3458
- crankshaft locking pin also individually available as BGS 8155-6



Item # 8275



Camshaft Locking Tool | for VAG | adjustable | 12V / 30V

- wide application range because of adjustable camshaft locking tool, to be used as OEM 3391 or OEM 3243
- crankshaft locking bolt to be used as OEM 3242
- is needed for changing the tooth belt on Audi and VW with following engines:
 - AUDI A4 2.4 2.8 1997 2002
- AUDI A6 2.4 1997 2002, A6 2.8 1997 2002
- AUDI A8 2.8 1997 2002, S4 2.7 Turbo 1997 2001
- Volkswagen with ACK, ALG, APR, AQD engines
- VW Passat 2.4 1996 2002, Passat 2.8 30v 1996 2001
- 2 valves V6 engines e.g. Audi 80, 90, A4, A6 1994 1997 ABC, AFC engine
- · avoids distortion of the camshaft during tooth belt assembly
- allows easy and precise assembly of the tooth belt



Item # 8522

Camshaft Setting Tool | for Audi V8 4.2

- for adjusting the camshafts
- to be used as OEM T40047
- ensures correct setting of the hall sensor wheel, an incorrect setting may cause bad idle and lazy response lead
- suitable for cars with 4.2 liter V8 engines: AUDI A6 (2005 2006), A8 (2004 2006), Quattro (2003 2005), S4 (2004 2009), VW Phaeton (2004 2006) with engine codes: BNK BFM BGK BAS BHF BGH





Camshaft Locking Tool | for Audi 8-Cylinder Engines

- suitable for Audi A4 2001> and A6 1998> with 8-cylinder engines
- · for checking and adjusting the engine timing
- to be used as OEM T40046



Item # 8532

Crankshaft Rotating Tool | for VAG

- facilitates turning the crankshaft for e.g. checking the engine timing
- suitable for Audi A6 2005>, Audi A8 2003> with 6- and 8-cyl. engines 2.4 L, 3.2 L FSI, 6 - and 8-cyl. TDI common rail
- to be used as OEM T40058





Crankshaft Locking Tool | for VAG 5- and 10- cylinder

- suitable for VW T5 as of 2004, Touareg and Phaeton as of 2003 with 5cylinder and 10-cylinder engines
- camshaft locking tool for review and adjustment, suitable for 5- and 10cylinder engines
- to be used as OEM T10199 / OEM T10199/1

Item # 8690



Flywheel Locking Tool | for VAG 1.9 TDI

- for locking the flywheel
- to be inserted into the bore of the transmission housing
- fits on VW, Skoda, Seat with 1.9I diesel engines
- e. g. for motor recognition 1Z, AFN, AHU, ALE, AVG





Crankshaft Mounting Tool | for VAG 6- and 8-cylinder TDI

- for fitting the camshaft in the cylinder head
- suitable for the following VAG models: VW Tiguan 2008 / Passat CC 2009 / Touareg 2003 / Phaeton 2003, Audi A3 2004 / A4 2001 / A4 2008 / A5 2008 / Q5 2008 / A6 2005 / Q7 2007 / A8 2003
- 6-cylinder TDI common rail 2.7 & 3.0 4-valve engines
- 8-cylinder TDI common rail 4.0 4-valve engines
- to be used as VAG OEM T40095







Timing Chain Adjusting Wrench | for VAG

- used for tensioning the timing chain
- suitable for Audi A6 from 2005 4.2 I direct injection 8-cyl., 4 valve
- to be used as OEM T40079





Camshaft Locking Tool | for VAG W8 and W12

- for aligning the camshafts
- suitable for V6 3.2L FSI R32 W8 and 6.0L W12
- 2 alignment rulers
- to be used as OEM T10068 & T10068A



Item # 8883

Camshaft Sprocket Locking Tool | for VW 1.8 / 2.0 TFSI

• for locking the inlet and exhaust camshafts when loosening the central screws



Item # 8940

Camshaft Spacers | for VAG

- used for locking the sliding pieces on the camshaft
- suitable for 4-cyl. petrol direct injection, 2.0 turbo, 4 valve engines e. g. Audi A4 2008>, Audi Q5 2009>
- to be used as OEM T40191









Camshaft Sprocket Locking Tool | for VAG 1.0

- for locking the camshafts in the adjustment position
- is needed when checking and adjusting and adjusting the engine timing
- can be used for following car types: Seat Mii 1.0 (3-cylinder), Skoda Citigo 1.0 (3-cylinder), Volkswagen Up 1.0 (3-cylinder)
- motorcodes CHYA, CHYB, CPGA
- to be used as OEM T10476







Guide Bolt Set | for VW T5 Front Mask

- are used instead of the front panel mounting bolts
- allows the panel to be slid away from the engine without disconnecting all fluid pipes etc.
- required for e. g. works on the camshaft drive
- suitable for Volkswagen T5 (as of 2004)
- includes 4 bolts M8 x 1.25, Ø 13 mm, length 200 mm
- to be used as OEM T10228





Camshaft Adaptor Socket | for VAG 1.8 / 2.0 TFSI

- for rotating and holding the camshaft adjuster when working on the timing chain
- suitable for 1.8 / 2.0 TFSI (3rd generation) built in the following models, e. g.:
 - Audi A3 (as of 2012), A4 (as of 2008), A5 (as of 2009)
 - A5 Coupe (as of 2008), Q5 (as of 2008)
 - Seat Alhambra (as of 2008), Exeo (as of 2009), Altea (as of 2009)
- to be used as OEM T40266









Camshaft Mounting Tool Set | for VAG and Porsche

- for installation camshafts in the correct position
- required when installing new or existing camshafts, an installation without this tool can cause damage to the camshaft bearing bridge and cylinder head
- suitable for the following diesel vehicles (TDI CR) as of 2003 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: 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, CGQB, CJAA, CJCA, CJCB, CJCC, CJCD, CJGA, CJCC, 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)
- mounting device including pre-assembled parts, to be used as OEM T40094
- camshaft retaining clamp, to be used as OEM T40095
- 2 alignment clamps, to be used as OEM T40096 & T40096/1
- 4 camshaft brackets for mounting device, to be used as OEM T40094/1, T40094/2, T40094/9, T40094/10
- locking tool for camshaft holder, to be used as OEM T40094/11





Engine Timing Tool Kit | for VAG | 3 pcs.

- suitable for VAG 2.0 liter TDI and some 1.9L TDI with oval crankshaft wheel
- crankshaft locking tool, to be used as OEM T10100
- locking bolt for pump, to be used as OEM 3359
- locking plate for idler, to be used as OEM T10008





Engine Timing Tool Set | for VAG | 3 pcs.

- suitable for VAG 1.2 1.4 1.9I TDI engines with round crankshaft wheel
- crankshaft locking tool, to be used as OEM T10050
- locking bolt for pump, to be used as OEM 3359
- locking plate for idler, to be used as OEM T10008









Crankshaft Timing Belt Pulley Locking Tool | for VAG

- suitable for VAG 2.0L TDI and some 1.9L TDI with oval crankshaft wheel
- to be used as OEM T10100



Item # 62642



Crankshaft Timing Belt Pulley Locking Tool | for VAG

- suitable for VAG 1.2 1.4 1.9l TDI engines with round crankshaft wheel
- to be used as OEM T10050



Item # 62643



Holding Wrench | for Crankshaft Belt Pulley | for VW, Seat 1.6 I

suitable for the following models:

- VW Lupo, Polo, New Beetle, Golf, Bora Caddy
- Seat Ibiza, Cordoba
- engine codes: ARC, AVY
- length: 770 mm



Item # 66701

Belt Pulley Counterholding Wrench

- suitable for VW 1.4 / 1.6 / 2.0 l engines (engine codes ADX, AEA, AEE, AEH, AEX, AFH, AFK, AGP, AGR, AHW, AJM, AKL, ALN, AMF, ANA, ANY, APE, APF, ARM, ATJ, AUA, AWH)
- for counterholding the belt pulley of 4-valve engines with pin diameter 11.5 mm
- also for counterholding the belt pulley of 2-valve engines

suitable for the following models:

- VW: Beetle, Bora, Caddy, Golf, Lupo, Polo, Sharan, Touran, Transporter
- Audi: A2 / A3 / A4 / A6, TT
- Skoda: Fabia, Octavia, Superb







Tensioner Pulley Wrench | 12-point | Ø 32 mm

• for moving the automatic tensioner pulley when replacing the tooth belt

suitable for the following models:

- Audi 100 manufactured starting from 1991, A4, A6 2.5 TDI 5 cylinder
- VW Polo Diesel, Lupo as of 1999, LT and T4 2.5 TDI
- comparable engines of other manufacturers (Volvo etc.)







Tooth Belt Tensioner Pulley Wrench

- extra flat type
- 185 mm x 200 mm x 20,5 mm







Setting Gauges | for VAG Pump-Nozzle Unit on 3- and 4-Cylinder Engines

- for adjusting the pump-nozzle units
- suitable for 3- and 4-cylinder engines and for pump-nozzle units with old and new solenoid valve nut





High Pressure Pump Sprocket Extractor | for VAG 2.0 TDi CR

- for removing the high pressure pump pulley on 1.6 / 2.0l and 6-cyl. TDI common rail engines
- can be used as OEM T40064







Driving Toothed Wheel Locking Tool | for VAG 3.6I FSi

- for locking the drive sprocket of high the pressure pump
- is required when adjusting the valve timing
- suitable for VAG 3.6l 6-cylinder 4-valve engines, built in VW Passat (357) (3C2) (3C5) starting from 2006, VW Touareg (7L6) (7LA) starting from 2006, Audi Q7 (4LB) starting from 2007
- engine codes: BLV, BHL, BHK
- to be used as OEM T10332

Item # 9418



Driving Toothed Wheel Locking Tool | for VAG 3.6l FSi

- for locking the drive sprocket of the high pressure pump
- is required when adjusting the valve timing
- suitable for VAG 3.6L FSi 6-cylinder 4-valve engines installed in VW Passat (357) (3C2) (3C5) as of 2006, VW Touareg (7L6) (7LA) as of 2006, Audi Q7 (4LB) as of 2007
- engine codes: BLV, BHL, BHK
- to be used as OEM T10363



Item # 9492

Camshaft Timing Tool Set | for VAG | 3 pcs.

- to secure the camshaft during inspection and adjusting the valve control times
- suitable for 1.2 / 1.4 TSi / TFSi engines with active cylinder management ACT or COD
- engine codes: CPTA, CZEA
- e. g. installed in the following models: Audi A1 (2013-), A3 (2013-), Q3 (2014-)
 VW Passat (2012), Golf (2012-), Polo (2015-)
 Seat Leon (2014-), Ibiza (2013-)
 Skoda Superb (2015-)
- camshaft adjusting tool, to be used as OEM T10504
- camshaft adjusting pin, to be used as OEM T10504/1
- camshaft inspection pin, to be used as OEM T10504/2



Item # 9493

Crankshaft Locking Tool | for VAG 10 cylinder engines

- crankshaft locking tool with aligning pin
- to be used as OEM T10226
- suitable for e. g. VW Tourag, Phaeton





Engine Timing Tool Set | for Volvo T6

- for adjusting and checking the engine timing
- suitable for Volvo S80, XC90, XC60, XC70 3.0T, 3.2 with T6 engine as of 2007
- crankshaft rotating tool, to be used as OEM 9997257, 303-1219
- camshaft alignment tool, to be used as OEM 9997261 303 -1223
- tool for assembling and disassembling the end cover, to be used as OEM 9997263, 303-1225
- tool for assembling and disassembling the end cover, to be used as OEM 9997264, 303-1226
- T-star socket, T60, 12.5 mm (1/2") drive, to be used as OEM 9997272
- mounting bracket, to be used as OEM 9997271
- end cover adjusting tool, to be used as OEM 9997266
- end cover adjusting tool, to be used as OEM 9997267



Item # 8527

Engine Timing Tool Set | for Volvo 4-, 5-, 6-Cyl. Engines up to YOM 06

- for alignment of the cam- and crankshafts
- also for correct installation of the camshafts over the cam cover
- suitable for 4-, 5- and 6-cyl. twin cam 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
- 2-piece camshaft cover tool, to be used as OEM 9995454
- crankshaft locking tool, to be used as OEM 9995452
- camshaft alignment tool, to be used as OEM 9995451
- holder, to be used as OEM 9995453
- 2x 110 mm and 2x 85 mm screws



Item # 8562

Engine Timing Tool Set | for Volvo B4204

- for adjusting and checking the engine timing
- required for e.g. working on valve drive and renewing the cylinder head gasket
- suitable for Volvo B4204 engine (8-speed gearbox)
- belt pulley counterholding tool, to be used as OEM 9997495
- crankshaft wheel puller, to be used as OEM 9997493
- radial seal ring mounting tool, to be used as OEM 9997496
- camshaft sprocket tool, to be used as OEM 9997497
- camshaft alignment tool, to be used as OEM 9997490









Double Hook with Joint for Removal of Shaft Gaskets

- 320 mm long lever arm for fast and easy disassembly of radial sealing rings
- lever adjustable in 5 positions of up to 45°
- hardened pulling lever for long product life time
- anti-slip coated handle





Reaction Wrench, for offset-Type Pulley | 300 mm

- wrench for safe blocking of deep-drawn water pump belt pulleys through mounting screws
- can be used for many VW + Audi engines with A/C
- can also be used for loosening stuck nuts of the water pump belt pulley
- length: 300 mm



Item #

Camshaft Disc Puller | for VAG

suitable for:

- VW Passat, Phaeton, Touareg
- Skoda Superb
- Audi A4, A6, A6 Quattro, A8, Allroad, Cabrio, RS4, RS6, S6, S8
- engines / engine codes:
 - 3.0 L V6 30V: ASN, AVK, BBJ
 - 3.7 L V8 AKC, AQG
 - 4.2 V8 ANK, AQF, AQH, AQJ, ARS, ARU, ASG, AWN, AWU, AVN, AVP, AXQ, BCY, BGH, BGJ, BHX
 - 2.5 L TDI V6 Diesel AFB, AKE, AKN, AYM, BAU, BCZ, BDG, BDH, BFC



Item #

Fan Hub Wrench Set

- for holding the visco-clutch drive shaft in BMW and Ford
- allows the technician to hold the water pump pulley in place while loosening the radiator fan
- allows removal of the visco-coupling on the cooling fan





Fan Hub Wrench Set | 4 pcs.

- 32 mm x 270 mm for holding the Visco-clutch drive shaft in BMW and Ford
- 36 mm x 270 mm for holding the Visco-clutch drive shaft in Ford, Opel and GM
- 41 mm x 270 mm for moving the waterpump in Opel and GM in order to span the drive belt in OHC engines
- 46 mm x 270 mm for moving the waterpump in Opel and GM in order to span the drive belt in OHC engines



Item #	Description
1684	Fan Hub Wrench Set 4 pcs.
1772	Fan Hub Wrench for BMW, Ford 32 mm
1774	Fan Hub Wrench for Ford, Opel, GM 36 mm
1682	Fan Hub Wrench for GM, Opel 41 mm
1683	Fan Hub Wrench for Opel, GM 46 mm



Flywheel Locking Tool | for Citroën, Fiat, Peugeot

- for Citroen, Fiat, Peugeot
- also suitable for identical engines in BMW, Renault, Mercedes-Benz
- flywheel locking tool, to be used as OEM BMW 119260, Renault MOT 582-01, PSA 0153A, 6012T, 9765.54, Fiat 1860161000, 1867030000, Mercedes-Benz 607589014000







Crankshaft / Equaliser Flange Puller

- ideally suited for disassembly and assembly of balancer shafts and crank shaft flanges
- all-purpose, incl. 9 adaptors
- 1 puller plate, 20 mm holder
- 12 screws, 3 pcs. each: 3/8"NC16 x 57 mm 3/8"NC24 x 57 mm M6 x 1.0 x 60 mm - M8 x 1.25 x 60 mm
- 1 centre bolt 10 mm
- 9 adaptors:
 - M12 x 1.5 3/8"NC16
 - M14 x 1.5 3/8"NC16
 - M16 x 2.0 3/8"NC16
 - 1/2" x NC20 3/8"NC16
 - 9/16" x NC18 3/8"NC16
 - 7/16" x NC20 3/8"NC16
 - 3/4" x NC16 3/8"NC16
 - 5/8" x NC18 3/8"NC16
 - 3/8" x NC16 3/8"NC16
- material: carbon steel
- surface finish: burnished







Water Pump Disassembly Tool | for VW

- suitable for VW T5, Touareg 2.5D
- gear wheel puller, for disassembling of waterpump gear wheel, to be used as OEM T10222A
- waterpump puller, for disassembling of waterpumps, to be used as OEM T10221A
- special key, for counterholding the crankshaft when loosening the waterpump's gear wheel screw, to be used as OEM T10225



Item # 8221

Radial Seal Dismantling and Assembly Set

- facilitates a damage-free mounting of radial sealing rings
- universally usable for radial sealing rings with Ø 21.5 64 mm
- suitable for all pressed radial sealing rings such as on camshafts, crankshafts, balancer shafts, ect.
- 4 spacers to compensate the differences in length of central screw
- 7 press sleeves for mounting of radial sealing rings
- 7 adaptor rings for normal central bolts (M8 M20)
- 2-claw pullers for pulling tightly fitted radial sealing rings, 35 mm puller range



Item #	Description
8224	Radial Seal Dismantling and Assembly Set
8224-1	Replacement Puller Legs 70 mm for BGS 8224
8224-2	Replacement Puller Legs 114 mm for BGS 8224

Separating Pliers for BMW Oil Coolers

- simplifies the assembly and disassembly of oil coolers
- screwed support bracket, 180° rotatable
- Holding forks, 15 and 22 mm
- distance adjustable (like water pump pliers)



Item # 8289

Flywheel Holding Lever

- facilitates the disassembly and assembly of clutch cover and flywheel
- hardened gear segment for locking starter gear rings



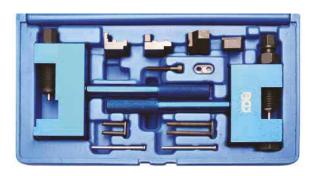






Timing Chain Riveting Tool

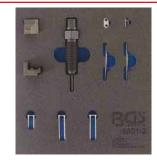
- for renewing and riveting timing chains
- old timing chain is fed in with help of the new chain, a dismantling of the timing chain case is often not required
- suitable for Mercedes-Benz models with simplex and duplex timing chain with 4 mm chain bolt
- to be used as Mercedes-Benz OEM tools 112589096300, 602589003900, 602589023300, 602589024000, 602589056300, 602589056301



Item #	Description
8501	Timing Chain Riveting Tool
8501-1	Adaptor for BGS 8501

Supplementary Set for Timing Chain Riveting Device (BGS 8501) | suitable for 3 mm Chain Pins

- suitable for 3 mm Mercedes-Benz simplex and duplex timing chains in gasoline and diesel engines new generation
- to be used as OEM 103589016300, 602589024000 and 602589046300







Belt Pulley Puller | Universal

- allows easy removal of the crankshaft pulley, provides a counterholding function to prevent rotation of the crankshaft
- counter holder with 12.5 mm (1/2") drive
- variable mounting distance 54 120 mm
- includes fastening screws M8 and M10



Item # 8551

Counteracting Spanner for Camshaft Sprockets | Universal

- for counterholding the camshaft sprocket while loosening and tigtening the camshaft bolt
- enables a rotation of the camshaft
- adjustable and lockable opening width from 100 150 mm







Timing Pulley Counterholder

- for loosening and fastening the camshaft wheel bolts
- suitable for all common camshaft sprockets
- adjustable from diameter 45 150 mm



Item # 8854



Adjustable Bearing Ring & Radial Seal Ring Driver

- for installing bearing races and radial seal rings
- · adjustable to the suitable diameter
- diameter range: 18 86 mm
- lightweight alloy material prevents damage to bearing housing





Radial Seal Ring Mounting Tool

- for mounting of shaft seal rings
- flexible rubber spider holds the radial seal ring during centering / mounting
- universally applicable for seal rings with inside diameter from 32 mm to 60 mm
- screw, washer, spider holder, handle, small and large rubber spider, 63 mm and 76 mm driver plate



Item # 9003

Crankshaft Pulley Tool Set | for Jaguar, Land Rover

- for dismantling and mounting of crankshaft pulleys
- required when working on e. g. camshaft drive
- crankshaft pulley holding tool to be used as OEM 303-893
- bridge piece
- pressure plate
- guide pin
- force screw
- and 2 securing bolts, to be used as 303-588









Crankshaft Pulley Tool | for BMW N47

- allows easy and gentle dismantling of the pulley bolts
- suitable for BMW N47 engines



Item # 9015



Balance Shaft Puller | for Audi, VW

- allows easy removing of the balancer shaft
- suitable for following models and engines with 4 cylinders 1.8, 2.0 L injection engines with timing chain:
 - VW Golf (since 04), Passat (since 06), Passat CC (since 09), Tiguan (since 08), Eos (since 06)
 - Audi A3 (since 04), A4 (since 08), A5 (since 08), TT (since 07)
- to be used as OEM T10394
- internal thread: M8 x 1.25 mm for sliding hammer
- ideal as a complement to BGS 68345





Pulley Counterholder for BMW

 allows easy loosening and tightening of torsional pulleys on BMW engines

suitable for the following models:

• E81 120D (163 PS), E46 318D (115 and 116 PS), 318TD (115 PS), E46 320D (136 and 150 PS), 320TD (150 PS), E90 318D (150 PS), 320D (150 and 163 PS), E91 318D (122 PS), 320D (150 and 163 PS), E39 520D (136 PS), E60 520D (150 and 163 PS), E61 520D (150 and 163 PS), E83 X3 2.0D (150 PS)

suitable for crankshaft pulleys with BMW part numbers:

- 11 23 7 787 304, 11 23 7 790 921, 11 23 7 793 882, 11 23 7 801 977, 11 23 7 805 696
- to be used as OEM 116310







Crankshaft Seal Ring Mounting Tool | for VAG 1.2 L FSI

- allows damage-free installation of PTFE crankshaft seal ring in timing case
- suitable for Golf / Golf Plus as of 2009 & Polo as of 2010
- includes seal ring stretching sleeve & pushing sleeve
- to be used as OEM T10417/1 & T10417





Ignition Coil Puller for VAG

- for removing ignition coils on VAG models as of 2013
- pencil type for inserting in mounting hole of the ignition coil
- suitable for 4 cylinder 1.2 / 1.4 / 1.8 / 2.0 FSI / TFSI engines, built in e. g. VW Golf, Audi A3, Seat Leon, Skoda Octavia
- to be used as OEM T10530



Item # 9094



Crankshaft Seal Ring Installation Tool | for VAG 2.0 TFSI

- for installing the crankshaft front seal ring
- suitable for 4 cylinder 2.0 TFSI petrol engines, built in e. g. Audi A3





Balancer Shaft Locking Tool | for BMW

- for locking / adjusting the balancer shaft
- L-shape with 9 mm slot
- to be used as OEM 118700





Crankshaft Vibration Dampener Alignment Tool | for Ford, Volvo

- for aligning of the crankshaft vibration dampener (crankshaft pulley)
- is required for e. g. 1.6 I EcoBoost engines
- to be used as OEM Ford 303-1550 or Volvo 9997431







Timing Chain Tensioner Lever | for VAG 1.8 / 2.0 TFSi

- used to push back the timing chain tensioner without removing the front engine cover
- required when renewing the timing chain
- to be used as OEM T40243

suitable for the following TFSI engines / models (as of 2007):

- Audi A3, A3 Cabrio, TT, Q3
- Seat Alhambra, Altea Free Track, Exeo, Leon FR, Toledo
- Skoda Octavia II, Superb IIII (3T), Yeti
- Volkswagen Eos, Golf VII, Passat (B6), Passat CC, Passat Variant, Sharan, Beetle, Scirocco, Tiguan
- engine codes (1.8 I engines):
- CDAA, CDHA, CDHB, CJEB, CDAB, CGYA
- engine codes (2.0 I engines):
 - CCZA, CDNB, CDNC, CFKA, CCZC, CPSA, CESA, CETA, CCZB, CDND, CCZD





Radial Seal Ring Extractor Tool Set for Crank- & Camshafts

- for assembly and disassembly of rotary shaft seals
- especially suitable for sealing rings, where a stub shaft protrudes and a disassembly is almost impossible without this tool
- holds the sealing ring on the inside with a conical profile
- suitable for most commercial sealing rings
- extractor for 35 44 mm sealing ring diameter, with 31.5 mm center bore
- extractor for 59 64 mm sealing ring diameter, with 54.5 mm center bore





Item # 8759

Radial Seal Ring Extractor Tool Set for Crank- & Camshafts | for VAG | 7 pcs.

- for assembly and disassembly of rotary shaft seals
- especially suitable for sealing rings, where a stub shaft protrudes and a disassembly is almost impossible without this tool
- holds the sealing ring on the inside with a conical profile
- suitable for most commercial sealing rings
- suitable for most VAG petrol engines such as VW Lupo and Polo 1.4l, VR6, Audi V6, etc.
- includes the following pullers: 5 short pullers, Ø 25 32 35 27 55 mm
- 1 long puller, Ø 32 mm





Tool Tray 1/6: High Pressure Pump Sprocket Puller | for Hyundai & Kia

- to remove the high pressure pump sprocket when dismounting the high pressure pump on Common Rail Diesel vehicles from Hyundai and Kia
- suitable for the following models:
 KIA Carens (UN), Cee'd (ED) & (JD), Optima (TF), Rio (UB), Soul (AM),
 Sportage (SL) & (SLE), Venga (YN), Soul (PS), Hyundai Matrix, Getz, i30
- engine codes: 1.1D (TCI-U2), 1.4D (TCI-U2), 1.6D (TCI-U2), 1.7D (TCI-U2), 1.6 TCI (U2), 1.4 CRDi (U2), 1.6 CRDi (U2)
- contains: high pressure pump removal tool, to be used as OEM 093312A010, consisting of base plate, sprocket stopper, mounting screws







High Pressure Pump Sprocket Puller for Hyundai / Kia

- for pulling off the sprocket of the high pressure pump
- needed when replacing the high pressure pump

suitable for the following models:

- Kia Sorento BL (as of 2003 2009), engine codes: D 2.5 VGT, D 2.5 WGT
- Hyundai iLoad (as of 2007), engine codes: D 2.5 TCi-A, D 2.5 TCi-A2
- to be used as OEM 09331-4A0000

Item # 9332



Crankshaft Pulley Holding Tool | for Honda & Acura | 50 mm

12.5 1/2

- for holding the crankshaft pulley of the damper when loosening or fastening the crankshaft pulley bolt
- required e. g. while working on toothed belt drive
- suitable for most Honda and Acura engines as in Accord, Civic, CR-V, FR-V, Legend, Jazz, Odyssey, Prelude, S2000, Shuttle, Stream 2.0I motor, Code F20A4
- to be used as OEM 07MAB-PY3010A with a 12.5 (1/2) ratchet or sliding bar
- socket, 19 mm (BGS 10559) can be used as additionally required alternative tool for OEM 07JAA-001020A









Injector Pump Sprocket Puller / Timing Chain Tensioner Kit | for BMW, Opel

- puller for BMW injection pump sprocket
- is required for the disassembly of diesel injection pumps
- includes puller tools for the following applications:
 - for removing the sprocket from the pump shaft, suitable for 4-cyl. and 6 cyl. BMW engines M41, M51 and identical engines in Opel/Vauxhall Omega 2.5 TD (M51)
- for removing the sprocket from the pump shaft and holding the pump wheel in the assembly position, suitable for BMW engines M47, M47TU, M57, M57TU
- for tensioning the timing chain, suitable for BMW engines M50, M62, M62
- to be used as OEM 135120 135190 135191 135192 114230

Item #	Description
8750	Injector Pump Sprocket Puller / Timing Chain Tensioner Kit for BMW, Opel
8750-1	Injection Pump Wheel Puller for BMW, Opel



Cylinder Head Stud Tool Set | 9 pcs.

- for easy removing and installing of studs in cylinder heads without damaging the thread
- also useable for other studs
- suitable for most popular stud sizes: M6 x 1.0 M8 x 1.25 M10 x 1.25 M10 x 1.5

Item # 9185



System Tray for Cylinder Head Repair

- needed when repairing cylinder heads, e. g. replacing the valves, hydraulic valve lifters, valve stem seals, etc.
- allows a safe and confusion free storing of components, such as camshafts, valves, valve springs, hydraulic tappets, shims, etc.
- length: 400 mmwidth: 450 mmheight: 260 mm

Item #



Accelerator Adjustment Tool

- allows precise adjustment through spindle
- useful while the diagnosis of engine noise, checking the engine control, such as injector return flow test, checking the charging system, etc.
- clamping screw for mounting on the brake pedal







Engine Mounting Ring Spanner Set | for Mercedes-Benz | 2 pcs.

10 🗖 3/8

- ring spanner, 10 mm (3/8") drive, 12-point profile, 16 mm
- ring spanner, 10 mm (3/8") drive, 12-point profile, 17 mm
- suitable for engine mounting on Mercedes-Benz: W220, W210, W203, W221, W211, W204, W124, W140, W170, W126, W201, W202, W210
- length: 100 mm







Testing Tool for Turbo Charger Systems

- for checking the charging system components when installed
- professional and economic troubleshooting
- safety valve prevents applying excessive pressure
- suitable for turbochargers, G-chargers, compressors
- fits on most charging system hoses
- also suitable for leak detection
- includes 4 pairs of adaptors

suitable for the following hose sizes:

- 35 40 45 mm
- 50 55 60 mm
- 65 70 75 mm
- 80 85 90 mm



Item #	Description
8563	Testing Tool for Turbo Charger Systems
8563-1	Replacement Safety Valve for BGS 8563

Testing Tool for Turbo Charger Systems | for Mercedes-Benz, Nissan, Renault, VW

- helps to locate leaks in the components of turbocharger systems such as pressure hoses, air-to-air intercooler, etc.
- testing must be performed when engine is switched off
- allows a professional and economical diagnosis
- includes: pressure regulator to ensures optimum test pressure and test adaptors with bayonet lock, Ø 31 - 38 - 46 - 51 - 56 - 61 mm
- use of additional leak detection sprays is possible for finding even the smallest leaks
- suitable for e. g. VW, Mercedes-Benz, Renault, Nissan





Testing Tool for Turbo Charger Systems with Manometers | 55 - 60 - 65 - 70 mm

- for checking the charging system components when installed
- professional and economic troubleshooting
- suitable for turbochargers, G-chargers, compressors
- includes following adaptors:
 - 2-step pressure adaptor for hose sizes 55 60 mm
 - 2-step sealing cap with pressure gauge for hose sizes 55 60 mm
 - 2-step pressure adaptor for hose sizes 65 70 mm
 - 2-step sealing cap with pressure gauge for hose sizes 65 70 mm



Item # 8958

Special Spanner for Turbocharger, 12-point | for VW, Audi | 12 mm

- wrench for assembly and disassembly of turbo chargers
- · facilitates assembly of hard-to-reach screws
- 10 mm (3/8") drive
- 12 mm, 12-point profile
- length: 99 mm
- depth: 85 mm







Vacuum-Pressure Adjuster Socket for VAG Turbochargers | 10 mm



- for the exchange of the vacuum-pressure adjusters in VAG engines with turbochargers with position sensor
- to be used as OEM T10422A
- wrench size: 10 mm
- length: 50 mm







Valve Spring Compressor Assembly Set | 13 pcs.

- for depressing the valve springs
- allows a changing of the valve stem seals without removing the cylinder head
- with pressure hose for filling compressed air into the cylinder
- suitable for M14 and M18 ignition plug threads
- including valve collet mounting tool
- max. width: 515 mm







Universal PRO Valve Spring Tensioner

- for tensioning of valve springs
- suitable for 1 to 12 cylinder engines with 2 and 4-valve technology
- also suitable for in-line and V engines from VW, Audi, Ford, Peugeot, Volvo, etc.
- mounting on different breakpoints is possible
- universally usable by a variety of settings

contains 7 pressure pieces with varying diameter sizes for e.g. following models:

- Ø 21 mm for Peugeot, Citroen HDI
- Ø 24 mm for VW, Audi, Seat, Smart and Opel
- Ø 25 mm for Hyundai
- Ø 28 mm for Toyota, Ford 16V
- Ø 32 mm for Opel, Peugeot
- Ø 35 mm for Renault, Peugeot
- Ø 42 mm for Ford



Item # 8357

Air Valve Spring Compressor Set | 15 pcs.

10 🗖 3/8

- prevents the engine valve from falling into the body due to counterpressure, caused by air delivered via a spark plug-thread
- suitable for spark plug threads M14 x 1.25 and M18 x 1.5
- extensive accessories
- operates with 10 mm (3/8") drive T-handle or ratchet



Item #

Valve Spring Compressor | 35 - 200 mm

- for large petrol or diesel engines
- 2 valve spring pressure pieces:
 - outside Ø 25 mm for spring Ø 21 25 mm
 - outside Ø 30 mm for spring Ø 24 30 mm
- surface finish: chrome plated







Valve Spring Compressor | 72 - 130 mm

• surface finish: chrome plated



Item # 1877

Valve Spring Compressor | for OHC engines | 72 - 240 mm

• for Toyota and others





Valve Spring Compressor "OverHead"

- for uncovered valves
- suitable for valve spring cap diameters 25 38 mm
- max. tensioning range: 39 mm







OHC Valve Spring Compressor

- with reversible legs and automatic valve shaft sealing
- not suitable for valve springs that are set deeply into the engine
- valve springs and valve shaft seals are replaced together with the cylinder head







Valve Spring Compressor | for OHV Valve Springs

• length: 320 mm









Special Valve Spring Compressor | 75 mm

- overhead type
- surface finish: nickel plated







Valve Spring Tensioning Tool for Peugeot, Citroen

- very useful when working on valves
- suitable for 1.0, 1.1, 1.4, 1.6 Petrol engines Peugeot 106, 205, 206, 306, 307, 405 and Citroen Xsara, Berlingo
- engine codes: T9M (CDY,CDZ), TU1M (HDZ,HDY), TU3M/Z (KDX,KDY, KDZ) TU3JP (KFW,KFX), TU3FJ2 (KFY,KFZ), TU5JP (NFZ)
- to be used as OEM 4533-TZ

Item # 8238



Valve Shim Remover for DOHC Engines

- suitable for all DOHC engines e. g. in Volvo, Opel, Ford, Renault etc.
- sliding t-bar for easy handling



Item # 8252



Valve Spring Compressor | for BMW N20, N26, N55

- for removing and installing the pressure spring on the intermediate lever
- to be used as BMW OEM 117110







Precision Feeler Gauges

- stainless steel blades
- with conical blades
- 100 mm long
- 0,05-1,0 mm
- metal handle

Item #	Description
3082	Precision Feeler Gauges 13 Blades
3083	Precision Feeler Gauges 20 Blades



Special Feeler Gauge | 11 pcs.

- ideal for measuring the piston ring tolerance
- 0.03 0.04 0.05 0.06 0.07 0.10 0.15 0.25 0.30 0.40 0.50

Item	#
3135	



Precision Feeler Gauges, bent | 12 Blades

- stainless steel blades
- 0.08" 0.10" 0.12" 0.13" 0.14" 0.15" 0.16" 0.18" 0.19" 0.20" 0.25" 0.26"
- 0.203 0.254 0.305 0.330 0.356 0.381 0.406 0.457 0.483 0.508 0.635 0.660 mm





Valve Wedge Removing Tool

- suitable for cars, scooters, lawnmowers with valve stem diameter up to 5.5 mm
- quick and easy disassembly of the valve wedges
- minimizes repair costs





Valve Stem Seal Pliers | 250 mm

- for multi-valve engines
- for easy removing of deep valve stem seals on multi valve engines
- e. g. for VW, Opel, Ford









Valve Stem Seal Pliers | 270 mm

- for easy removing of deep valve stem seals on multi valve engines
- extra long jaws, especially for multi-valve engines, e. g. Opel, VW and Ford
- hardened jaws





Valve Shims Pliers | 275 mm

- for removing valve adjusting shims
- suitable for OHC engines on Audi, Porsche, Ford, Fiat, VW, etc.





Sliding Hammer Extractor for Valve Stem Seal Ring

- suitable for PSA engines
- for fast, accurate and professional extraction of stuck valve stem seals without causing damage to the surrounding areas
- suitable for internal diameters of 6 to 9.5 mm
- sliding hammer thread M16 x 2.0



Item # 62610

Valve Seat Cutter Set | 30 - 60 mm | 27 pcs.

- not suitable for hardened valve seats
- in metal case
- milling at 45° and 90°: 30 32.5 35 37.5 40 42.5 45 47.5 50 52.5 55 57.5 60 mm
- 13 stem guides: 6 6.5 7 7.5 8 8.5 9 9.5 10 10.5 11 11.5 12





Valve Seat Milling Cutter Set | 14 pcs.

- suitable for cylinder heads with hardened valve seats
- 6 double ended cutters:
 - Ø 28 35 mm, 45° and 75°
 - Ø 37 44 mm, 30° and 75°
 - Ø 37 46 mm, 45° and 68°
 - Ø 44 52 mm, 30° and 75°
 - Ø 46 60 mm, 30° and 45°
 - Ø 52 65 mm, 60° and 75°
- 4 continuously adjustable guides for Ø 6.5 to 12.5 mm
- T-handle for milling cutters

Item #	
68346	



Valve Lapping Tool Attachment

- · facilitates the insertion of valves
- automatic change in direction
- for use with fine grinding paste
- with 8 mm shank for holding in drill machine
- working speed min. 1000 rpm to max. 1250 rpm
- 4 different suction plates in 20, 30, 35 and 40 mm
- 13 mm shaft for attaching the suction cups

Item #	Description
1738	Valve Lapping Tool Attachment
1738-1	Rubber Adaptor for BGS 1738 Ø 17.3 mm
1738-2	Rubber Adaptor for BGS 1738 Ø 22 mm



Suction Valve Grinder

• wooden handle, 2 rubber suction cups



Item #	Description
1740	Suction Valve Grinder 16 x 21 mm
1741	Suction Valve Grinder 28 x 34 mm

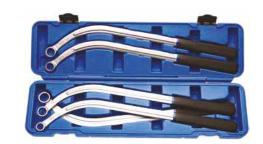


Tensioner Pulley Wrench Set | 12-point 13 - 19 mm | 5 pcs.

- 45° offset heads allow you to reach all areas in the engine bay
- with slip guard handle for easy handling
- tensioner pulley wrenches 12-point 13 15 16 17 19 mm
- length: 460 mm



Item #	Description	
1310	Tensioner Pulley Wrench Set 12-point 13 - 19 mm 5 pcs.	
1310-14	Tensioner Pulley Wrench 12-point 14 mm	



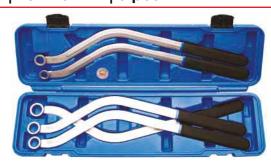


Tensioner Pulley Wrench Set | 12-point, special Shape | 13 - 19 mm | 5 pcs.

- double angled for better reach of confined areas
- with slip guard handle for easy handling
- tensioner pulley wrenches 12-point 13 15 16 17 19 mm
- length: 460 mm
- surface finish: chrome plated







Tensioner Pulley Wrench Set | E-Type E10 - E18 | 5 pcs.

- E10 E12 E14 E16 E18, length 460 mm
- 45° offset heads allow you to reach all areas in the engine bay
- space-saving, flat design
- ideal for screws of belt and tensioning pulley
- with slip guard handle for easy handling







Tensioner Pulley Wrench Set | 12-point 12 - 19 mm / E-Type E10 - E18 | 15 pcs.

- 12-point heads in the following sizes: 12, 13, 14, 15, 16, 17, 18 and 19 mm
- E-type heads in the following sizes: E10, E12, E14, E16, E18
- long wrench for easy handling
- quick connector 13.8 x 8.1 mm
- with slip guard handle for easy handling







Serpentine Belt Servicing Tool Kit | 10 mm (3/8") + 12.5 mm (1/2")

- combines the advantages of a ratcheting wrench with the requirements of the serpentine belt removal tool to provide best possible combination
- provides coverage for all major vehicles with serpentine belts
- metric sockets 8 12 13 14 17 18 24 mm
- inch sockets 10 mm (3/8") 12,5 mm (1/2") 5/8"



Item # 1706

Belt Pully Wrench for V-Belt Pulleys

- for assembly of pulleys (counterholder)
- universally applicable
- 850 mm long strap









Belt Pulley Wrench for Ribbed and Flat Drive Belts

• for holding back ribbed drive belt pulleys (for example when loosening belt pulley bolts)



Item # 1026



Belt Gauge

- for adjusting initial tension of the drive belt
- can be used for all types of cars as far as information on recommended tension are available
- 1 rotation of the adjusting nut changes the piston load approx. 10 N
- tension can be read on front and back side of the tool



Item #



Tensioner Pulley Wrench for V-ribbed Belts | 450 mm

- for loosening the automatic tensioner when changing the poly-V-belt
- for VW Golf, Passat, Polo, T4





Counterholding Wrench Set with adjustable Pins

- adjustable from 40 to 220 mm
- through the overall length of approx. 400 mm and the associated torque, ideal e. g. for loosening the fastening screw on injection pumps
- for locking the camshaft or diesel pump
- for belt and chain drives
- for tensioning and discharging of locking pins
- incl. 4 pairs of holding pins Ø 6 -10 mm, 8 11 mm, 10 12 mm, 11 16 mm to be used with nearly all camshaft sprockets
- length: 400 mm

