

KA-7656 Universal Engine Belt Tension Tester

This tool is designed to be used to ensure tension on the engine belt of cars.

Special design to easily check the proper tension of belt.

Suitable for all common types of engine belt. Such the timing, ribbed, tooth and V-belt.

Test procedure:

1. Turn off the engine completely..
2. Be aware of the high temperature of engine. Wear the safety gloves to protect your hands when re-installing the engine belt and tightening it or just randomly checking.
3. Place the tester on appropriate position of the engine belt.
4. One hand holds the tester body. Another hand rotates handle until end contacts the surface of belt.
5. Looks at the beginning point of gauge then slowly rotates handle down and down. The belt will be tightened more and more until the belt is pushed down 5mm (1/4") to 10mm (1/2"). Please refer to service manual.
6. Check the belt tension again and adjust it as needed
7. After making sure the belt tension, release the handle and remove the tester from belt.
8. In most cases and on most vehicles, belt tension should be checked every service.



KA-6810 Installs V-Belts Quickly & Safety

Eliminates loosening bolts & stretching belts. Designed along w/remote starter switch for safety. Safety design keeps hands away from moving parts.



KA-6535 Fan Belt Tightener

- Makes belt tightening an easy
- One-person job. Works on most alternators and some other belt driven accessory units.
- Loosen adjusting slot bolt.
- Hook the tool around the alternator-locking it on the pivot bolt boss or on any other strong protrusion.
- Pull to proper belt tension with a 1/2" square drive socket handle. Tighten the adjusting slot bolt while holding this tension.



Length:
230mm

Length: 140mm

Thickness:
11.8mm

KA-3922 Crankshaft Drive Belt Pulley Puller

Special universal puller with 132mm spread for removing crankshaft drive belt pulleys with and without bolt holes on European vehicles.



KA-5249 6pcs Belt Tension Retaining Pins

■ Pin Size

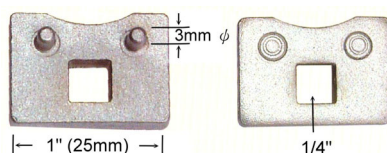
0.79mm (0.031")	1.24mm (0.049")
1.37mm (0.054")	1.49mm (0.059")
1.68mm (0.066")	1.92mm (0.076")

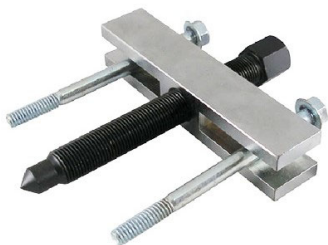
■ Suitable for following vehicles

Acura, Audi, BmwCadillac, Chevrolet, Chrysler, Plymouth, Dodge, Daiwoo, Daihatsu, Ford, Geo, Honda, Hyundai, Infinity, Isuzu, Kia , Jaguar, Land Rover, Lexus Mazda, Mitsubishi, Nissan.Porsche, Subaru, Toyota, Volkswagen Volvo



KA-8295 MISUBISHI / HYUNDAI Timing Belt Tensioner





KA-3911 Timing Gear Puller

- Designed to pull timing gears, and all other gears with sliding jaws enable tool to handle gears of many width 1"(25mm) square, 4"(102mm) side screws 5/16"-18 width of body 5" (127mm).
- Length of center screw 5-7/8"(149mm). This tool may be used with No.920 Bearing splitter.



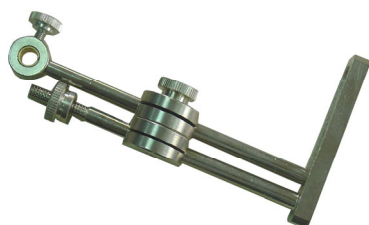
KA-6213 Universal Tensioning Gauge for Cam Belt

- Adjust size: 0-20mm.
- This tensioning gauge can be used to adjust the tension on the cam belts where the movement of the timing belt is measured by load.
- Suitable for use on cam belts with various belt thickness
- Easy to use.
- Clear incremental marking with knurled knob for precise measurement.
- Dual scale allows reading from top or bottom of tool. (large and small numbers for compatibility)



KA-6213A Universal Tensioning Gauge For Cambelts

- This tensioning gauge can be used to adjust the tension on movement of the Yamaha T-Max drive belt/cam belt.
- Clear incremental marking with knurled knob for precise measurement.
- Dual scale allows reading from top bottom of tool (large and numbers for compatibility)
- Suitable for cambelt in various belt width.



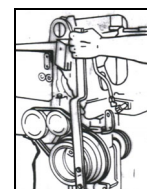
KA-5250 Universal Dial Indicator Stand

- A great tool designed to hold the dial indicator to stud next to the housing holes.
- Making the measurements of flywheel endplay, valve play, transmission depth and numerous other application.
- Applicable Vehicles: BMW, VW, AUDI, MERCEDES BENZ etc...



KA-5137 Engine Turning Tool

- For use on cummins 855 cubic inch diesel engines.
- Easily turns engine over without damage to accessory drive pulley
- Aids in adjusting valve or timing injectors.
- 24" long for extra leverage.



KA-2429 Timing Chain Tool

- For Datsun L16, L18, L20B, and in-line 6-cylinder overhead cam
- Used as a wedge to keep the chain tension while removing the camshaft gear.
- Length: 9-1/4" long (225mm)



KA-2430 L:120mm



KA-8299 Injection Pump Adjustment Tool

Suitable for Renault, Mitsubishi, Opel/Vauxhall and Volvo 1.9 direct-injection diesel engines (F8Q and F9Q) with adjustable injection pump wheel. e.g. Renault Megane/Scenic, Kangoo; Mitsubishi Carisma; Opel Arena and Volvo S40/V40.

The injection pump to the camshaft (start of delivery) can be adjusted with the injection nozzle adjustment tool in conjunction with the KL-0129-1 A set of tools and the required locking tools.

Content:

- Special socket wrench insert 27 mm hex for the hub fixing screw
- Adjusting wrench with 3 pins (for turning and adjusting the hub)
- Adaptor for Bosch injection pumps (M10x1 to M8x1)



KA-8330 Camshaft Alignment Plate Tools For VW & Audi

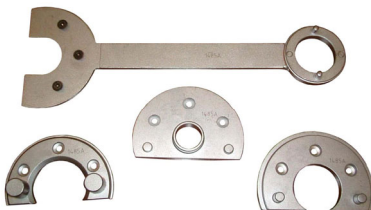
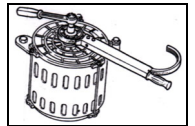
- Camshaft locking tool for Volkswagen Golf/Bora 2.3 Golf/Vento/Corrado 2.8/2.9 Passat 2.3/2.8/2.9 Sharan 2.8 and Transporter 2.8
- Special designed to align the camshafts to proper position when adjusting and assembling.
- Applicable: VW-Passat, VR-6



KA-5114 Pulley Removing Wrench

Ideal for removing and assembling any type of grooved pulley for poly v-belt

- This modern tool keeps the grooved pulley firmly locked.
- Enables to tighten or to untighten, without any difficulty, the pulley locking screw.
- Has more functions than a standard strap or chain wrench, and will not damage components.
- Ideal for alternator and water pump pulleys, but also essential for electric motors of compressors, washing machines, tool machines etc.
- Also suitable to rotate the cam shaft when timing the engine and to remove oil and gasoline filters.



KA-8271 Rotating Camshaft Pulleys



KA-2911



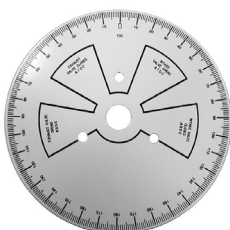
KA-2911A

Timing Pulley Puller

- Draws pulleys by the holes without causing damage.
- Moving legs adapt to differing pulley diameters.
- Compact design for use with engine in situ.

TDC Timing Degree Wheel

360° Timing degree wheel is designed for finding top dead center and checking camshaft timing. Three holes allow the wheel to securely fasten to the engine crankshaft. Use in conjunction with a dial gauge for correct intake and exhaust valve timing settings.



KA-3900

- Diameter: 9-1/2" (230mm)



- Diameter: 6-3/4" (171mm)

KA-8272 Aluminum
KA-8272S Steel



KA-6629 Universal Camshaft Pulley Holding Tool

- Application: Nissan, Toyotas and other OHC engines
- KA-6629 is made with grooved pins that hold the camshaft pulley stationary while tightening and loosening the center shaft bolt.
- Great tool to use on Asian Over-Head cam engines.



KA-5542 Camshaft & Injection Pump Sprocket Holding Turning Tool

- Universal
- Essential tool for Engine Timing or Timing Belt Jobs.
- Counter-hold camshaft or injection pump sprockets and allow release of retaining bolt with ease.

Applications: Ford zetec · Renault twin cams · Rover 2.0 diesel · VW, Seat and Sroda diesels · Fiat-twin cams. · Citroen/Peugeot engines



KA-6681-1 Camshaft Holding Tool

- Hold the cam drive pulley on Zetec and FORD ZETA engines.
- Fit into the camshaft spoke and allow it to move for tension, alignment and sprocket bolt tightening accurately and easily.



KA-6631 Universal Pulley Holder

- Use on any application where securing a pulley is required.
- Especially useful in removing fan clutches.
- Eliminates the need for multiple various sized holding wrenches.
- Saves time and money.



KA-6936 Crankshaft Pulley Holder

- Suit for BENZ M111, M112
 - Brake loose properly secure the pulley / harmonic balancer bolt.
- Designed to properly secure the pulley from rotating during R&R of crank bolt. The 50mm hex head armature slips past the lightest of spaces and slides right into the center slot on the pulley. Then slide the long bar onto the receiving end of the armature and lock it into position with the securing bolt.



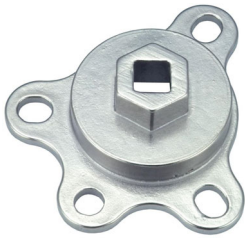
KA-2880 Rotating Camshaft Pulleys Tool

Length: 360mm



KA-8235 Camshaft Locking Tool

Applicable VW: POLO, CLASSIC, GOIF, BORA, BEETLE, CADDY(97-04)
Engine: 1.9 SDI/TDI



KA-3926 Crankshaft Rotation Adapter

No more broken balancer bolts. Rotates the crankshaft the proper way, when turning the engine with the balancer already installed. Useful when assembling an engine or degreasing the cam. Easily attaches to the balancer. Then crankshaft can be rotated with a 1/2" breaker bar or a 1" socket and breaker bar.



KA-3142 Honda/Acura Crankshaft Damper Holding Tool

- Tool allows the technician to hold the crankshaft damper when tightening or loosening the crankshaft bolt.

- Works on the following Honda and Acura engines:

1990-1997 Honda Accord 2.2L 4 cyl.
1998-newer Honda Accord 2.3L 4 cyl. & 3.0L V-6
1992-newer Honda Civic 1.6L 4 cyl.
2000-newer Honda Insight 1.0L 3 cyl.
1998 Honda Odyssey 2.3L 4 cyl.
1992-newer Honda Prelude 2.2L 4 cyl.
1997 Acura CL 2.2L 4 cyl.
1997-1998 Acura CL 3.0L V-6
2000-newer Acura CL 3.2L V-6
1992-1993 Acura Integra 1.7L 4 cyl.
1991-1995 Acura Legend 3.2L V-6
1995-newer Acura TL 3.2L V-6

1996-1997 Honda Accord 2.7L V-6
1993-1997 Honda Del Sol 1.6L 4 cyl.
1997-newer Honda CR-V 2.0L 4 cyl.
1995-1997 Honda Odyssey 2.2L 4 cyl.
1999-newer Honda Odyssey 3.5L V-6
1992-1996 Honda Prelude 2.3L 4 cyl.
2000-newer Honda S2000 2.0L 4 cyl.
1998-1999 Acura CL 2.3L 4 cyl.
1990-1992 Acura Integra 1.6L 4 cyl.
1993-newer Acura Integra 1.8L 4 cyl.
1996-newer Acura RL 3.5L V-6



KA-3885 Honda Crankshaft Pulley Holder Kit

- Allows the crank shaft pulley and/or harmonic balancer bolt to be broken loose
- Secures the pulley in place not allowing it to rotate during removal and reinstallation of crank bolt
- Specially designed to work on 1990 and newer Honda and Acura models.

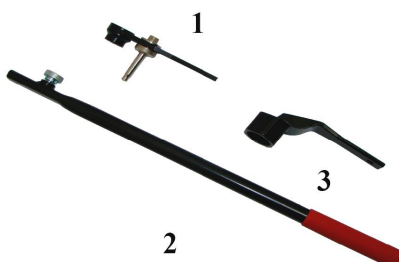


KA-3885A Crankshaft Pulley Holding Tool Set (Belt/Chain)

- For Crankshaft Pulleys with Internal Hexagon-pulley removal required for belt replacement applications.

- Models:

Jazz 1.2 / 1.4	Legend 3.5	Stream 1.7
Civic 1.4 / 1.6 / 1.7	S2000 2.0	Shuttle / Odyssey 2.2 / 2.3
Accord 1.8 / 2.0 / 2.3 / 2.4 / 3.0 / 2.2 CDTi	FR-V 1.7	CR-V 2.2 CDTi
	FR-V2.2 CDTi	



KA-3884 Engine Timing Tool Kit For Honda

- Allows the crankshaft pulley and/or harmonic balancer bolt to be broken loose
- Includes tool necessary to properly counter the rotation of the crankshaft pulley/harmonic balancer during removal and reinstallation of crank bolt
- Secures the pulley in place not allowing it to rotate during removal and reinstallation of crank bolt
- Specially designed to work on 1990 and newer Honda and Acura models and Honda Civic 1980 and newer models.

Contents:

1. Tool Holder, Honda no.:JAB-0010100
2. Extension Handle, Honda no.:07-JAB-001020B
3. Pulley Holder Tool (6PT), Honda no.:07-MAB-PY-30100



KA-8300 Reaction Wrench

For tensioning multi-vee belts, equipped with hardened and milled pins which allow the belt tension to be achieved at the alternator. The milled pins are designed not to slip out of the holes in the alternator.

For VW-engines on which the multi-vee belts can only be tightened at the alternator.

- Drive: 1/2"
- Diameter (pin to pin): 157 mm



KA-8301 Reaction Wrench

For tightening timing belts with limited access - the wrench can be activated from a variety of angles to enable it to be used in confined spaces.

- Drive: 3/8" or by pin
- Length: 47 mm
- Depth: 32,5 mm



KA-8302 Reaction Wrench

For V-ribbed belts.

When changing the poly-V belt the permanent belt tensioning roller can be loosened with the reaction wrench.

- Application: VW Polo, Golf, Passat, T4 and Audi.
- Drive: 1/2"



KA-8303 Reaction Wrench

For V-ribbed belts.

When changing the poly-V belt the permanent belt tensioning roller can be loosened with the reaction wrench.

- Application: VW Polo, Golf, Passat, T4 and Audi.
- Advantages: The attachment element can be changed.



KA-8307 Reaction Wrench (420mm long, adjustable)

With inter-changeable tips and several hole intervals.

Suitable for all timing pulleys with holes from minimum Ø12mm. e.g. VW-Audi, Ford, Opel, Peugeot, Renault, Citroen, Rover, Volvo, Japanese vehicles, etc.

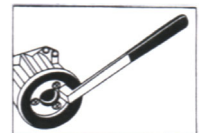
To prevent the pulley on camshafts, injection pumps etc. from rotating when loosening the central fastening bolt etc.

A selection of tip-O and hole intervals are available to make the wrench almost universal in its range of application.



KA-5540 Reaction Wrench

- For locking of deep-drawn water-pump pulleys on vw- and audi engines. As they are used when e.g. an air conditioning is also built in.
- Safe locking of the water-pump pulley.
- Easy loosening of stubborn bolts on the water-pump pulley.

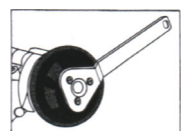


KA-5541 Reaction Wrench

- For locking the pulley on the water-pump on VW POLO, GOLF, PASSAT AND AUDI 80/A4.

ADVANTAGES:

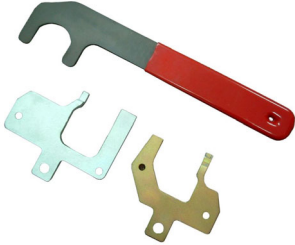
- The 1/2" drive in the tools handle enables an extension of the tool by e.g. a ratchet
- Easy loosening of stubborn bolts on the water-pump pulley.
- L: 250mm





KA-8252 3/8"Dr. Security Tools

- Special groove nut socket to turn the camshaft adjuster into position
- Camshaft adjusting socket used to adjust variable valve timing on the exhaust side camshaft to basic position.
- Application: Audi 3.0L V6 V5 AVK(2000~2004) - BBK



KA-2810 BENZ Camshaft Alignment Tool

- Holding the camshaft in 40 degree TDC position (left/right side)

Application :

C-CLASS(202) 2.4/2.6/2.8/3.2/4.3	-1998-00	CLK(208) 3.2/4.3/5.4	-1997-03
E-CLASS(210) 2.4/3.2/4.3/5.5	-1997-03	S-CLASS(220) 2.8/3.2/4.3/5.0	-1998-03
SL-CLASS(129) 2.8/3.2/5.0	-1998-02	SLK(170) 3.2	-2000-03
M-CLASS(163) 3.2/4.3/5.4	-1998-03		
G-WAGEN(463) 3.2	-1993-01		



KA-3886

Cadilla Northstar/Oldsmobile Aurora Water Pump R&R Socket

- Used to remove and install the water pump on Cadillac Northstar 4.6 liter V-8 engines 1993 and later and Oldsmobile Aurora 4.0 liter V-8 engines 1997 and later
- Enhanced durability
- More strength and control in removing and replacing water pump impeller



KA-3991 Cadillac / Aurora Water Pump R & R Socket

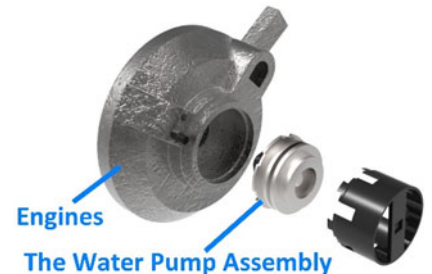
- This unique tool has been developed to remove and install the water pump on Cadillac northstar 4.6 liter V-8 engines from 1993 and later also oldsmobile aurora 4.0 liter V-8 engines 1995 and later.
- Many of the sockets presently available on the market are fragile in nature due to the confined area around the water pump impeller and can not use for impact wrench.



KA-3886A

1/2" Dr. GM Water Pump Socket Disc Brake Pad Spreader

- Angled Teeth Prevent the Tool from Gliding.
- Remove and Install the Water Pump Assembly
- Application:
1993-Current North Star 4.6 Liter,
1997-Current Aurora 4.0 Liter
- 1/2" Drive size.



KA-3640

Water Pump Removal Tool Kit – Volkswagen T5 & Touareg 2.5D

- Engine Codes BAC | BLK | BPD | BPE
before carrying out repairs release the pressure and temperature if necessary.
- Instructions
Engine Codes BAC | BLK only
Loosen the exhaust pipe and starter catalytic converter from the Turbo Charger and Gearbox.
(The catalytic converter can stay in situ.)
Engine Codes BPD | BPE only
Remove exhaust gas recirculation cooler and particulate filter.



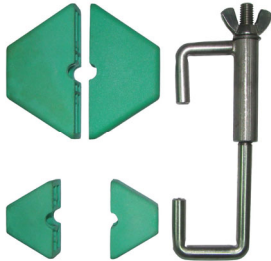
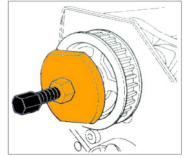
KA-3087 Cummins Water Pump Pulley Remover / Installer

This heavy-duty tool is designed for use on water pumps found on Cummins L10 and M11 engines. Installer includes a rugged thrust bearing that allows for friction-free pulley installation without damaging pump components.



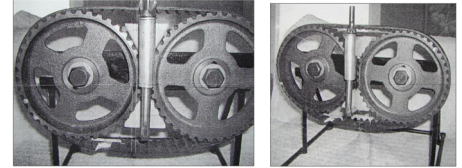
KA-8242 Camshaft Sprocket Puller For FORD

- Puller for camshaft pulley
- Engines Ford: FIESTA 1.8D Turbob(98-), FOCUS 1.8D (98-)



KA-8329 Universal Sprocket Locking Device For Twin Cam & Quad Cam Engines

- Universally adjustable for toothed pulleys spaced between approximately 5mm to 85mm apart
- For engines with twin camshafts (CITROEN FIAT FORD HONDA RENAULT ROVER SAAB SUBARU TOYOTA VOLVO) and for diesel engines to lock the camshaft and injection pump (VW-Audi Ford Seat Skoda)
- By inserting the locking tool in the drive pulleys it is during repairs or changing the timing belt.



KA-3109 Universal Camshaft Sprocket Puller

- Hold the sprocket and undo the retaining bolt or nut and remove.
- This tool enables the removal of the camshaft sprocket on a wide range of vehicles.
- Suitable: 45 ~ 70mm



KA-8342 Engine Camshaft Sprocket Locking Device For Renault 1.8/2.0 16V

- Engine Camshaft Sprocket Locking Device Updated timing belt replacement procedures for the engines detailed below, require examination of the crankshaft to determine acceptance of the new crank gear with integral woodruff key and release of the camshaft sprocket bolts requiring use of locking device.
- Applications: Renault 1.8 16V F4P
770/772/770/771/772/773/774/775 2.0 16V F4R
700/701/712/713/714/715/720/732/736/738/740/741/744/746/747/760/761/762/763/764/765/766/767/770/771/774/776/784/786/787/790/792/794/795/797/830



KA-8337

BMW Input/Output Camshaft Alignment Tool Set N62/N73

- Applicable: BMW engine modle N62 & N73.
- Use the tool to fix on the input/output crankshaft to adjust the interval of crankshaft.
- It could check the crankshaft interval(smaller than 0.5mm).

Contents: Fixture A for input crankshaft x 1
Fixture B for output crankshaft x 1
Support with screw x 1



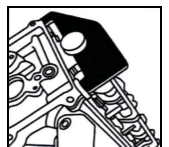
KA-5118 4pcs



KA-7027 2pcs

Ford Cam Positioning Tool

- Installs on camshaft to prevent it from rotating
- This tool services 1991 thru current ford 4.6l 2-valve v-8 engines.
- Needed for performing cam timing, installing a timing belt or performing valve train service





KA-8316 Locking Screw

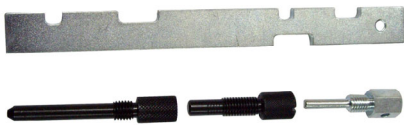
Injection pump locking screw, allows the injection pump to be removed without the loss of pump timing.

- Application: Mercedes engines OM602, OM604, OM605 and OM604 with a Lucas injection pump.



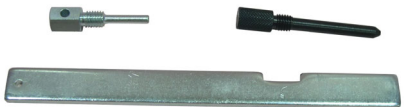
KA-8274 Renault Timing Kit (DCI Engine)

- Set of camshaft and crankshaft locking pins for Renault diesel and petrol engines.
- Suitable for locking engine during cam belt replacement or during associated engine maintenance.
- Application: Renault Diesel; Modus, Clio, R19, Megane, Scenic, Laguna, Espace, Kapace, Kangoo, Extra, Express, Rapid, Trafic 1.5dCi/1.9D/1.9TD1.9dTi, Engine Codes: K9K, F8Q, F9Q-Petrol; Clio, R19, Laguna 1.8/2.0, Engine Codes: F3P F3R, Tool Codes: MOT1489, MOT1430, MOT1054



KA-8273 Camshaft Setting Bar & 3 Pins (Ford)

- This camshaft setting bar is suitable for all the applications including the latest HWDA/HWDB/HXDA engines.
- Also included in the kit is 303-748(21-259) for Focus/C-Max 1.6, 1.4/1.6 and Fiesta/Fusion 1.24/1.4/1.6



KA-5115 Camshaft Setting Bar & TDC Timing Pins (Ford / Mazda)

Camshaft setting and locking plate. Updated set now covers zetec engines found in focus, mondeo and cougar from 98 on. Also covers ford 1.6, 1.8 and twin cam 16V petrol engines. Crankshaft TDC location for ford 1.25 and 1.4 engines plus the puma 1.7 engine. TDC pin also suitable for Mazda 121 1.25LTR Petrol engines. Supplied with warning tags.



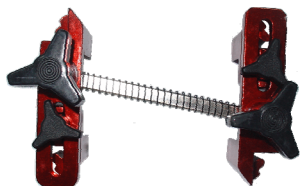
KA-8225 Camshaft Locking Pin Set

- A special 4 piece kit containing the necessary special pins required to lock the camshaft sprocket, flywheel and align the crankshaft and fuel pump when checking the valve timing on 2.0 and 2.4 liter chain driven engines and or replacing the timing belt 1.4 liter engines.
- Model: FIESTA/FUSION 1.4 TDCI 2-04, Mondeo 2.0 TD/TDCI 00-03, Transit 2.4D 00-03



KA-8241 Timing Belt Tensioner-6mm Square

CITROEN . PEUGEOT



KA-3138 Universal Twin / 4 Cam Lock (Gas & Diesel engine)

- It is designed to lock twin camshafts to timing marks during timing belt replacement.
- Fit onto sprockets and extends to lock in to sprocket teeth.
- Adjustable arms to fit various diameters and tooth pitch.
- Also suitable for locking between cam and diesel inj. Pump sprockets.
- One man operation



KA-5242 Universal Twin / 4 Cam Lock (Gas & Diesel engine)

- Lock twin camshafts to timing mark while replacing timing belts
- Fit onto sprockets and then extends to lock in to sprocket teeth.
- Adjustable arms.
- Fit various diameters and tooth pitch, and for locking between cam and diesel injection Pump sprockets.
- Great tools for just one-man operation.



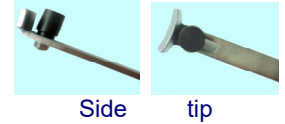
KA-8240 Camshaft / Crankshaft Alignment Tool

- Special made for alignment of the cam and crankshafts.
- Allows correctly installation of the camshafts with the cam cover.
- Applicable: For VOLVO models 850,960,S40,S70 and S90



KA-2800 Pulley Spinning Tool

- Special tool for forged pulley
- For turning/spinning off the crankshaft, camshaft...ect
- Weight: 390g, Length: 330mm
- Application: Japanese Vehicles, Mercedes, Benz, BMW, Ford, Opel, Peugeot, Renault, Rover, Volvo, VW, Audi.



Warning: This tool is NOT for "counter-holding" wrench for shaft.



KA-2802 Flywheel Locking Tool (universal)

- Universal for all vehicles.
- A must-have tool for dismantling and re-assembling the flywheels, clutch pressure plates and belt pulley.
- Length: 260mm
- Weight: 285g



KA-7793 Universal JGO Adjust Core tool

The adjustable key allows to tighten the free roller in spaces even limited.

KA-7793B Timing Tool Kit for Focus CMAX



KA-3895 MAZDA 1.6L Crankshaft Holder Tool

For holding crankshaft and enabling the crankshaft center bolt can be removed or tightened.

- Using 4 pulley bolts to remove the outer crankshaft pulley and install KA-3895.
- hold KA-3895 with 1/2" drive ratchet or breaker bar t, and loosen crank center bolt. With another ratchet
- Please use a torque wrench for tightening.



KA-2452 Crankshaft Pulley Holder Tool

- Removes and Installs the crankshaft pulley attaching bolt
- Slim 1" depth for fitting the confined compartment with ease.
- Center Hole allows access to crankshaft pulley bolt with socket
- Stabilizing the crankshaft and engine while held with breaker bar
- For Honda Prelude 1944-95 and some Honda/Acura V6 engines



KA-3897 HONDA Crankshaft Pulley Holding Tool

- Remove and install the crankshaft pulley attaching bolt
- Fit into holes in crank-shaft pulley with sliding dowel assembly.
- Stabilizing crankshaft and engine while held with broker bar
- Hole in center allows access to crankshaft pulley bolt with socket
- For most carbureted Honda engines: CRX, Civic, Accord and Prelude
- Facilitates timing belt change



KA-8275 Camshaft Locking Tool

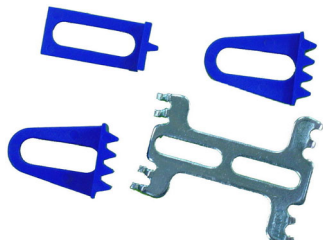
Applicable:

Astra F 1.6/1.7D/DT, Astra G 1.7D, Astra Max 1.6/1.7D, Astra Van 1.6/1.7D, Ascona C 1.6D, Belmont 1.6/1.7D/DT, Cavalier 1.6/1.7D, Kadett E 1.6/1.7D, Vectra A 1.7D



KA-8232 VW AUDI Camshaft Alignment Tool Set

- Easy to use for locking camshaft pulleys when changing cam belt.
- Suitable for 1.4 and 1.6 16V twin camshaft engines
- Applications: VW, Lupo 99-, Polo 95- Caddy 96-, Classic Polo, Variant 96-, Beetle 1.4L 99-, Golf 1.4L, 1.6L 98- and Bora 1.4L, 1.6L 99-



KA-4274 Flywheel Holding Tool Kit

These specialized tools are purpose designed to prevent the crankshaft from rotating when removing the crankshaft pulley for timing belt replacement. The pulley bolt has a high torque loading in which case the engine must be "locked" securely when releasing and tightening the bolt. The teeth-like design allows the transmission housing to prevent movement of the flywheel. Set supplied with 4 most popular tools. They are ideal and essential for removing the crankshaft pulley when replacing the timing belt. Suitable for petrol and diesel engines.



KA-8289



KA-8290



KA-8395



KA-8396

Crankshaft Locking Pin

- Special design to fix the crankshaft angle.
- Corrects timing adjustment.

Art No.	Size	Applicable
KA-8289	M12 x P1.5	V6, V8 engine
KA-8290	M18 x P1.5	V6, V8 engine
KA-8395	M14 x P1.5	1.4, 1.6 FSI, TSI
KA-8396	M14 x P1.5	2.0, 2.4, 2.8, 3.0, 3.2 FSI



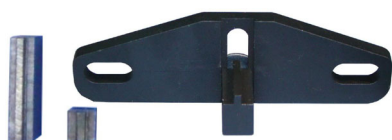
KA-8288

VW, AUDI Cam Chain Tensioner Holder



KA-8291 Cam Seal Installer

For MAZDA, TOYOTA, LEXUS



KA-8297 Ford Engine Timing Tools

(Flywheel Locking Tool with 2 Adaptors)



KA-8319

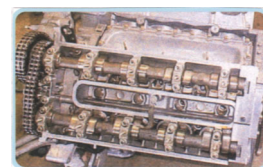
Engine Timing Tool Kit For Renault 2.0

- Renault: laguna 2.0 IDE (2001-2005) / F5R Engine
- Includes: camshaft setting bar
TDC crankshaft timing pin



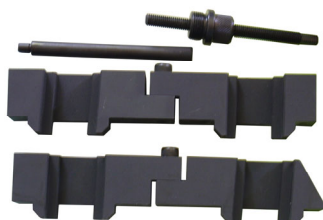
KA-3124 Camshaft Alignment Tool Kit

- BMW engine models M42 & M50: Includes 2 block swivel lock plate & locking pin for setting camshaft timing.
- Engine models M40 & M70: Include plate & locking pin for setting camshaft timing.
- BMW engine models M60 & M62: Includes 2 block swivel lock plate & locking pin for setting camshaft timing.



KA-3125 Camshaft Alignment Tool (M42, M50)

- Includes: 2 blocks swivel lock plate & locking pin for setting camshaft timing.
- Application: BMW engine model M42 & M50



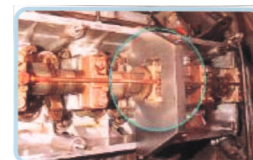
KA-3126 Camshaft Alignment Tool (M60, M62)

- Includes: 2 blocks swivel lock plate & locking pin for setting camshaft timing.
- Application: BMW engine model M60 & M62



KA-3127 Camshaft Alignment Tool

- Includes: plate & locking pin, for setting camshaft timing.
- Applicable: BMW engine models M40



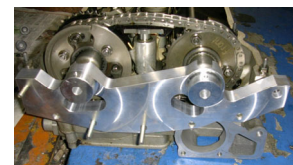
KA-8267 Engine Timing Tool Set

- This comprehensive set of tools enables the correct timing positions to be achieved on both camshaft and crankshaft whilst replacing the timing belt or chain on both petrol and diesel engines.
- Includes a special wrench for controlled turning of the exhaust camshaft sprocket when removing and installing the VANOS unit
- Includes primary Timing Chain Pre-Load tool for tensioning the timing chain on M50 engines
M22 Threaded for M42/M60 Engines.
M26 Threaded for M50/M52 Engines



KA-3149 Double Vanes Setup Bracket

FOR: BMW M52, M54, M56



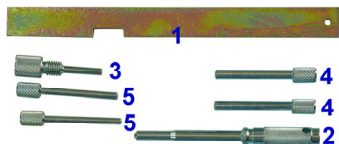
KA-3150 BMW Timing Tool



KA-3151K BMW Timing Tool Kit

- BENZ double vanes setup bracket
- Application: BMW M52, M54, M56

- The kit supplied with adequate tools to lock the camshafts on twin cam (multi-valve) engines in order to stop them rotating out of timed position when the timing belt is replaced and removed.
- It also provides different camshaft locking pins that can cover specific crankshaft and flywheel locking applications.
- Suitable for a range of vehicles including: Ford, Honda, Land Rover, Rover and Vauxhall / Opel
- Allows the service easier and reduce the risk of incorrect valve timing from taking place.

**KA-4278K****16pcs Twin Camshaft Locking & Setting Kit****Parts No. / Description**

1	KA-5115 Camshaft Setting/Locking Plate It is used to lock the camshafts in their position by way of a slot at rear of the camshafts. Ford: Fiesta 1.25, 1.4 (95-), 1.8-XR2i/Rs 1800 16V, Mondeo 1.6, 1.8, 2.0 16V (93-) Mazda: 121.1.25.
3	KA-5115-1 Crankshaft TDC Location Pin This tool can be used on specific Ford and Mazda twin cam engines, in combination with the Camshaft Setting / locking Plate to ensure correct TDC position. Ford: Excort / Orion 1.6, 1.8i 16V (92-) Mazda: 121.1.25.
5	KA-5115-3 Camshaft Locking Pins(6.8mm, pair) Kit supplied with two diameter-locking pins: 5.0mm and 6.8mm. Insert the correct diameter locking pins to lock each camshaft in position with the timing marks aligned to those on the casing/cover. Rover: 220/Turbo T16(92-), 420 T16 (92-), 320/Turbo M16 (-91), 820/Turbo T16 Vitesse Turbo (91-), 620 Ti (94-), SOHC application 820 8V (M8) Land Rover: Discovery MPi 2.0 16V (93-), 20T4 engine
7	KA-7506 Camshaft Locking Tool Vauxhall / Opel: Vauxhall Cavalier 2.51, Calibra 2.51, Vectra 2.5/3.0L, Sintra 3.0L SAAB: 900 2.5, 9000 3.0 V6
9	KA-7508 Camshaft Locking Tool ECOTEC suitable for 16V 1.4/ 1.6L engines
11	KA-7508-3 Vauxhall / Opel: Astra 1.8/2.0 16V, Cavalier 2.0 16V, Calibra 2.0 16V/ Turbo Omega-B 1.4/1.6 16V, Later engines (93-) with small cam sprockets
13	KA-7508-1 Rover: Metro GTa/GTi 16V K16(-95), 214, 414 K16(89-) 216, 416 K16 (95-), MGF 1.8 MPi/VVC (95-)
16	KA-5132 Works on: VOLKSWAGEN BORA, GOLF, LUPO AND POLO Tdi's.
18	KA-4278K-P18 Citroen: Synergie 2.0/Turbo, ZX 1.9D/TD, Xantia 1.9D/TD, Berlingo 1.9D, Dispatch 1.9D/TD, Synergie 1.9D, Relay 1.9D/TD Fiat: Ulysse 2.0/Turbo, Ducato 2.0 FSO: 1.9D LDV: 200 1.9D, Pilot 1.9D Peugeot: 205 1.6/1.9, 305 1.6/1.9, 309 1.6/1.9 405 1.6/1.9, 405 1.8/2.0 (92-), 605 2.0 Boxer 2.0, c205 1.8/1.9D, 305 1.8/1.9D, 306 1.8/1.9D/TD 309 1.8/1.9D 1.8TD, 405 1.8TD, 405 1.9D, 406 1.9D, Partner 1.9D Talbot/Horizon/Solara 1.9D, J5/Talbot Express 1.9D 605D/TD, 806 1.9TD, Expert 1.9D, Boxer 1.9D/TD

**KA-4286K 8pcs Camshaft Locking Tool Kit****Parts No. / Description**

	KA-5115-4 Balancer Shaft Locking Pin It purposed refitting the balancer shaft belf after renewal of the timing belt. Ford
2	Honda: Accord/Prelude 2.3i (93-), Prelude 2.2 V-Tec, SOHC application: Accord 1.8, 2.0, 2.2 (-93), 2.0i (93-), Shuttle 2.2i Rover: 623 (93-), SOHC application 618/620 (93-)
4	KA-5115-2 Camshaft Locking Pins(5.0mm, pair) Ford Honda: Civic 1.6 VTi Accord (90-), Prelude 2.0 16V (-90) Rover: 216, 416, GTi 16V(-95) D16A9 engine
6	KA-7505 Camshaft Locking Tool Vauxhall / Opel: Vauxhall Cavalier 2.51, Calibra 2.51, Vectra 2.5, OMEGA 2.5/3.0L, Sintra 3.0L SAAB: 900 2.5, 9000 3.0 V6
8	KA-7509 Camshaft Locking Tool For Rover K16 DOHC engines
10	KA-7505 Camshaft Locking Tool ECOTEC suitable for 16V 1.8/ 2.0L engines
12	KA-7508-2 Vauxhall / Opel: Astra 2.0 16V, Cavalier 2.0 16V, Calibra 2.0 16V, Early engines (-92) with large cam sprockets.
14	KA-7508-4 Land Rover: Discovery MPi 2.0 16V(93-), 20T4 engine Rover: 220 M16(-92), 220/Turbo T16(92-), 420 M16(-92), 420 T16(92-), 320/Turbo M16(-91), 620Ti(94-), 820/Turbo T16 Vitesse Turbo(91-)
17	KA-4278K-P17 Vauxhall / Opel: 1.2, 1.4, 1.6, 1.8, 2.0 OHC Petrol engines 1.6D & 1.7 OHC Diesel engines 1.5 & 1.7 OHC Diesel(Isuzu) engines

Renault:

R5 1.6D, R9 1.6D, 411 1.6D Express/Extra 1.6D-F8M Diesel engines
Clio, Express/Extra, R19 1.9D – early F8Q Diesel engines
Espace 2.1D, R21 2.1D, R25 2.1D, Trafic/Master 2.1D – J8S Diesel engines
Clio 1.2/1.4, Express/Extra, R19 1.4, Megane/Scenic 1.4/1.6 – E7F/E7J Petrol engines
R5 1.7, Clio 1.7/1.8, R19 1.7, R21 1.7, Megane/Scenic 2.0
Laguna 1.8/2.0, Trafic 1.7 – F3N/F3P/F2R Petrol engines
Clio Williams, R19, Megane 2.0 16V Twin cam F7P/F7R engines
Laguna/Safrane 2.0 16V Twin cam N7Q/N7U engines



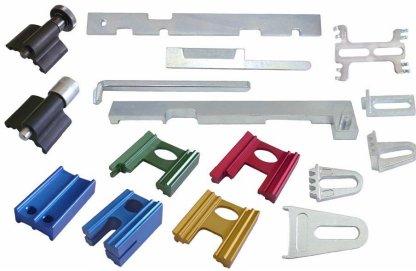
KA-6860 Twin Cam Locking Tools-Gm Eco-Tec 16V

- Allows the user to lock camshaft position on vauxhall eco-tec 16 valve engines.
- Fit 1.4, 1.6, 1.8, 2.0, and 2.2 litre twin cams.
- Fast and simple to use.
- Slide in between cams before removing timing belt to retain camshaft position.
- Lock crankshaft using suitable tool.



KA-8244 Timing Locking Tool Kit

- For holding camshaft in place.
- Application: VAUXHALL, OPEL . ASSB, ROVER, XSARA, ISUZU.



KA-8268 Engine Timing Locking Tool Set

A comprehensive 16 piece set of engine timing locking tools for Camshaft, Crankshaft and Flywheel.

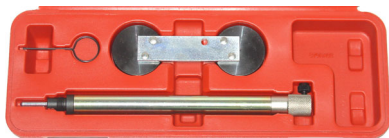
Covers / Citroen / Fiat / Ford / Opel / Peugeot / Renault / Rover / Vauxhall / Volkswagen



KA-8279 Engine Timing Locking Tool Set for Alfa Romeo

- To prevent the engine shafts (e.g. camshafts, crankshaft) from turning or to keep them in a specific position when changing a timing belt or during other engine repairs.

Application for Alfa Romeo Twin Spark 1.4, 1.6, 1.8 and 2.0L 16V Twin Cam petrol engines (Engine code: 162.01, 332.01, 323.10, 335.03, 671.06, 672.04 and 76.01) e.g. Alfa Romeo 145, 146, 147, 155, 156, 166 Spider and GTV



KA-8257

Petrol Engine Twin Camshaft Setting / Locking Tool Kit

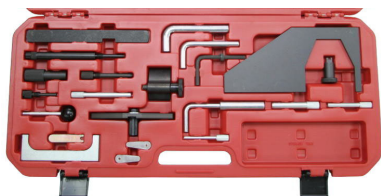
- Applicable for VW-AUDI 1.4L and 1.6L FSI petrol engines (engines code:AXU, BAG, BKG, BLF, BLN, BLP) Audi A3/ Skoda/ Ocatvia/ VW Polo, Golf, Golf Plus, Touran.
- To check and adjust camshaft timing. Required when replacing timing belts or timing chains or during engine repairs.
- Contents: TDC adjusting tool, Setting gauge for camshaft, Locking bolt



KA-8257A

Petrol Engine Twin Camshaft Setting / Locking Tool Kit

- Applicable for VW-AUDI 1.4L and 1.6L FSI petrol engines (engines code:AXU, BAG, BKG, BLF, BLN, BLP) Audi A3/ Skoda/ Ocatvia/ VW Polo, Golf, Golf Plus, Touran.
- To check and adjust camshaft timing. Required when replacing timing belts or timing chains or during engine repairs.
- Contents: TDC adjusting tool, Setting gauge for camshaft, Locking bolt



KA-8222 Engine Timing Tool Set – FORD

- This kit is designed to lock the camshaft, sprocket, flywheel and align the crankshaft and fuel pump, while checking the vale timing on 2.0 & 2.4 L Chain Engines., also replacing the timing belt on 1.4L engines.



KA-8226 Water Pump Tool Set

Models: ASTAR, VECTRA, VX 220, ZAFIRA & SIGNUM (00-04)



KA-8227 Timing Tool For PEIROL 2.2 16V (chain)

- PEIROL 2.2 16(CHAIN)-TIMING
- Models: ASTRS, VECTER, VX220, ZAFIRA & SIGNUM (00-04)
- Explanation: retains position of coolant pump sprocket during replacement of pump, maintaining engine timing.



KA-8231 Timing Tool

For RENAULT ESPACE 2.2DCI - MASTER 2.2/2.5DCI



KA-8233 Water Pump Tool Set

- Models: ASTRA VECTRA VX220 ZAFIRA & SIGNUM (00-04)
- Explanation: retains position of coolant pump sprocket during replacement of pump maintaining engine timing.
- Codes: K9K - G9T - G9U



KA-8233A Engine Timing Tool Set For Opel

- Models: Astra Vectra VX220 ZAFIRA & SIGNUM(00-04)
- Explanation: retains poision of coolant pump sprocket during replacement of pump, maintaining engine timing.
- Codes: K9K - G9T - G9U
- Crankshaft pulley holding tool



KA-8211 Engine Timing Tools - VW & AUDI

Applicable: AUDI:A4,A6,A8,A11road(97-04)
VW:PASSAT(98-04)
ENGINES CODES:AFB,AKE,AKN,AYM,BAU
BCZ,BDG,BDH,BFC.

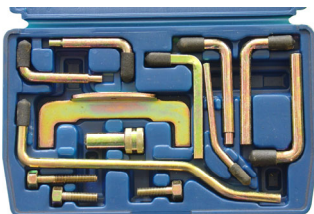


KA-8211A



KA-8253 Engine Timing Tools

Applicable: VW-AUDI 2.5 TDI V6 and AUDI A8 3.3 TDI V8 ENGINE.
AUDI V6 PETROL AND V6 / V8 DIESEL ENGINE.



KA-6797 13pcs Diesel and Petrol Engine Timing Kit

For use on Audi, Citroen, Peugeot, Volkswagen and Volvo diesel and petrol engined cars and light commercial vehicles.

After use, remove all setting pins & locking plates, Turn the engine over twice by hand to complete a full cycle. Regain T.D.C. (top dead center) & insert setting tools to re-check the alignment is correct. Remover setting tools and check there is no obstruction by turning the engine over twice by hand again to complete a full cycle.



KA-8254 Engine Timing Kit-Fiat 1.2 16V

- Applicable for Fiat 1.2 16V Twin Cam petrol engines (engine code: 176 B9.000, 182 B2.000 and 188 A5.000) e.g. Fiat Punto, Brava and Bravo.
- To determine the specified piston position and prevent the camshafts from tuning or hold them in position when changing the timing belt or during other engine repairs.



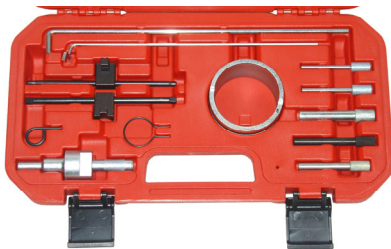
KA-8250 Petrol Engine Setting-Locking Tool Kit

- Models: VW group 1.2 SINGLE (6V) and TWIN CAMSHAFT (12V) 3CYLINDER PETROL ENGINES (02-) IN SEAT, LBIZA / CORDOBA, SKODA, FABIA, VW, POLO.
- Engines AWY and AZQ



KA-8228 Fix Tools For POLO 1.2 12V

- Models: VW GROUP 1.2 SINGLE (V6) and twin camshaft (12V) SKODA, FABIA, VW, POLO.
- Engines AWY and AZQ.



KA-8255 Engine Timing Tool Set – CITROEN & PEUGEOT

- This tool set of designed to replace the timing belt.
- Suitable for used on the most cars with either HPI(petrol) or HDI(diesel) engines.
- Applicable: Citroen and Peugeot twin cam 16V petrol engine code “ew” (EW7J4, EW10J4, EW10J4S, EW10D-HPI, EW12J4)
Citroen: Xsara/Picasso C4, C5, Evasion/Synergie, C8, Jumpy/Dispatch
Peugeot: 206, 307, 406/Coupe, 607, 806, 807, expert



KA-8258 Engine Timing Tool Set - Citroen & Peugeot

This comprehensive set tools enables the correct engine timing to be made when replacing the timing belt. Suitable for use on the most recent cars with either HPI(petrol) or HDI(diesel) engines.

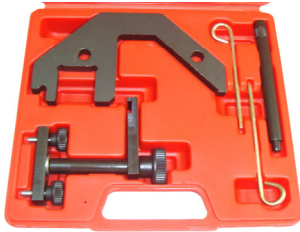
Citroen: AX, BX, ZX, XM, VISA, SAXO, XSARA, XANTIA Synergie/Evasion, Berlingo, Jumpy, C15, C25, Picasso, C5

Peugeot: 106, 205, 305, 307, 309, 405, 406, 605, 607, Expert, Partner, Boxer



KA-8219 Engine Timing Tool Set – CITROEN & PEUGEOT

- This Sets make the engine timing job correctly while replacing the timing belt.
- For most recent models with Petrol or Diesel Engine.



KA-8212 Engine Timing Tools – BMW

Make Timing jobs correctly for BMW M47 2.0 16 engines



KA-8369 Engine Timing Tool for BMW M47 / M57

	M47	M47TU	M47T2	M57	M57TU	M57T2
1	•	•	•	•	•	•
2	•	•	•	•	•	•
3	•			•		
4						•
5						
6	•	•	•	•	•	•

1er E87 118d/ 120d (03-07)

2er E46 318d/td (00-05)/ 320d /cd(97-06)/330d/cd/Xd (98-06)

E90/91/92/93 318d/td(04-07) /320d /cd (04-07) /325d (06-08) /330d/cd /xd(04-08) / 335(06-08)

5er E39 520d(99-04)/525d/xd(99-04)/530d/xd(98-04)

E60/61 520d(05-08)/525d/xd(02-08)/530d/xd(02-08)/535d(04-08)

6er E63 /64 635 d(06-08)



KA-8223 Petrol Twin Cam 1.6 16V

- For following models: BRAVA/BRAVO, MAREA/WEEKEND STILO, MULTIPLA & PALIO WEEKEND(95-04)
- Engines: 178B3.000,182A4.00, 182A6.000 & 182B6.000.



KA-8220 Engine Timing Tools Set – VGA

- This Kit is designed for Petrol and Diesel Engine.
- This Kit is for following services:
- Timing Belt Replacement for recent models or older 1.9D Models 1976 onward.



KA-8224B Petrol Engine Setting/Locking Tool Kit

For Vauxhall, Opel, Suzuki 1.0 / 1.2 /1.4L

Includes locking tools 1.0, 1.2, 1.4 ECOTEC/ECOFLEX (CODES X AND Z) chain engines.

Also includes the timing disc position gauge for the timing sensor on the inlet camshaft.

Applications: SUZUKI: WAGON R (05-08)

Vauxhall/Opel: Agila(00-08), Astra-G(98-06), Astra-H(04-11), Combo(04-12), Corsa-B(97-00), Corsa-C(00-07), Corsa-D(06-12), Meriva-A(04-10), Tigra-B(04-10)

Engine Codes:

1.0L 12V: X10XE, Z10XE, Z10XEP

1.2L 16V: X12XE, Z12XE, Z12XEP

1.4l 16V/ECOFLEX: Z14XEL, Z14XEP



KA-8224 Petrol 1.0,1.2,1.4 Twin Cams (chain)

- For models: CORSA, AGILA, ASTRA, MERIVA (97-04)
- Engines:1.0 12v., 1.0 16v., 1.4 16v. (chain)
- Codes: X10XE, Z10XE, Z10XEP, X12XE, Z12XE, Z14XEP.



KA-8224A Petrol 1.0,1.2,1.4 Twin Cams (chain)

- For models: CORSA, AGILA, ASTRA, MERIVA (97-04)
- Engines:1.0 12v., 1.0 16v., 1.4 16v. (chain)
- Codes: X10XE, Z10XE, Z10XEP, X12XE, Z12XE, Z14XEP.



KA-8263 Engine Timing Tools For VW & AUDI W/4 GROOVES and ALU FINISH

- This new kit of twelve tools is required for petrol and diesel engine service including timing belt replacement on recent models and also older 1.9D models from 1976.
- Models: AUDI: A4, A6, A8, A11 yoad (97-04)
VW: PASSAT: (98-04)
Engines codes: AFB, AKE, AKNAYM, BAU, BCZ, BDG, BDH, BFC.



KA-8256 Engine Timing Tool Set For VW & AUDI

- This kit of twelve tools is required for petrol and diesel engine service including timing belt replacement on recent models and also older 1.9D models from 1976.
- Models: Audi: A4, A6, A8, A11 year(97-04)
VW: Passat: (98-04)
Engines Codes: AFB, AKE, AKN AYM, BAU, BCZ, BDG, BDH, BFC



KA-8256A Engine Timing Tool For VW & AUDI W/4 GROOVES and ALU FINISH

- This new kit of twelve tools is required for petrol and diesel engine service including timing belt replacement on recent models and also older 1.9D models from 1976.
- Models: AUDI: A4, A6, A8, A11 yoad (97-04)
VW: PASSAT: (98-04)
Engines codes: AFB, AKE, AKNAYM, BAU, BCZ, BDG, BDH, BFC.



KA-8256B Engine Timing Tool For VW & AUDI

- This new kit of twelve tools is required for petrol and diesel engine service including timing belt replacement on recent models and also older 1.9D models from 1976.
- Models: AUDI: A4, A6, A8, A11 yoad (97-04)
VW: PASSAT: (98-04)
Engines codes: AFB, AKE, AKNAYM, BAU, BCZ, BDG, BDH, BFC.



KA-8213 Engine Timing Tools For VW & AUDI

- For Petrol And Diesel Engine Service
Application: Timing Belt Replacement for Recent Models, Older 1.9d Models From 1976.
- For Following MODELS:
AUDI: A4, A6, A8, All Road (97-04)
VW:PASSAT: (98-04)
- For ENGINES CODES: AFB, AKE, AKN, AYM, BAU, BCZ, BDG, BDH, BFC.



KA-8216-A Engine Timing Tool For Renault

For following engines: K4J, K4M F4P, F4R
TWIN CAM 16 V ENGINE



KA-8216-A1 Engine Timing Tool Set For Renault-1.4 1.6 16V

This kit of three tools enables the correct engine timing to be performed on Renault K4J, K4M & F4P, F4R engines when changing the timing belt.



CLIO	LAGUNA	MEGANE 1.4/1.6 16V
CHAMADE 1.9D	LAGUNA 1.9TDI	R20 2.0 8 & 12V
CLIO 1.2/1.4/1.6 16V/1.7	MASTER 2.0/2.2 8 & 12V	R20 2.0 8 & 12V
CLIO 1.8/1.8 16V/1.9D/TD	MASTER 2.1D/2.5D/2.8D/TD	R21 1.7/1.9D/DT
CLIO SPORT 2.0016V	MEGANE 1.4/1.6 16V	R21 2.0 8 & 12V/TURBO
CLIO VAN 1.9D	MEGANE 1.9 D/TD/2.0 16V	R25 D TURO
CLIO WILLIAMS 2.0 16V	R5 1.6D/1.7	R25 2.0 8 & 12V
ESPACE 2.0/2.2 8 & 16V/DT	R5 1.9D	R30 D TURBO
EXPRESS 1.9D	R9 1.6D	RAPID 1.9D
EXTRA 1.9D	R11.6D/1.7	SCENIC 1.4/1.6/2.0 16V
FUEGO D TRUBO	R18 1.7/DT	SCENIC 1.9 TD
KANGOO 1.2/1.9 TD	R18 FUEGO 2.0 8V	TRAFIC 2.0/2.8 & 12V
LAGUNA 1.6 16V/1.8/1.8 16V	R19 1.8 16V/1.8/1.9DT	TRAFIC 1.7/2.1 D
LAGUNA 2.0 16V/1.9/2.0 TD	R20 DTURBO	TWINGO 1.2



KA-8216-B Engine Timing Tool Set For Renault

- For following engines: K4J, K4M F4P, F4R TWIN CAM 16 V ENGINE
- The camshaft pulley setting tool holds two pulleys in place while the cam belt is being changed.
- The tool can be bolted to the center with two bolts.



KA-8216-C Engine Timing Tool Set For Renault

For belt and chain engines.

Clio 1.2 / 1.4 Megane 2.5D/TD
Clio 1.4 / 1.6 / 1.8 16V Megane 1.4 / 1.6 / 2.0 16V
Clio Sport 2.0 16V R19 1.4
Clio Williams 2.0 16V R19 1.4 Eco
Espace 2.0 R19 1.8 16V
Espace 2.0 16V Rapid 1.4
Espace 2.2 TD Safrane 2.0 16V
Express 1.4 Scenic 1.4 / 1.6 / 2.0 16V
Extra 1.4 Trafic 2.5D
Kangoo 1.2 / 1.4 Twingo 1.2
Laguna 1.6 16V
Laguna 1.8 / 2.0
Laguna 1.8 / 2.0 16V
Laguna 2.2 D/TD
Laguna 2.5 D/TD



KA-8230 Engine Timing Tool Set

- This timing tool kit of three specific components enables the timing position to be held on K4J, K4M & F4P, F4R twin cam 16V engines.
- This new camshaft pulley setting tool holds two pulleys in place whilst changing the cam belt.
- This tool is bolted to the centre of the cams using the existing bolts



KA-8378 Engine Timing Tool Set For Renault

- This kit of three tools enables the correct engine timing to be performed on Renault K4J, K4M 1.4, 1.6 16V & F4P, F4R 1.8, 2.0 16V engines when changing the timing belt.

- Applications:

CLIO 1.4, 1.6 16V (98-06)	MAGANE 1.4, 1.6 16V (98-06)
CLIO SPORT 2.0 16V (98-06)	MEGANE 1.8, 2.0 16V (98-04)
ESPACE 2.0 16V (98-04)	MEGANE II 1.4 16V (02-09)
GRAND SCENIC II 1.4/1.6 16V(02-09)	MEGANE II 1.6 16V (02-05)
LAGUNA 1.6 16V (98-06)	MEGANE II 2.0 16V (02-09)
LAGUNA 1.8 16V (01-05)	SCENIC 1.4, 1.6 16V (98-06)
LAGUNA 1.8/2.0 16V (98-04)	SCENIC 1.80, 2.0 16V (98-04)
LAGUNA II 2.0 16V T (02-09)	SCENIC II 1.4, 1.6, 2.0 16V (02-09)



KA-8378A Engine Timing Tool Set For Renault

- This kit of three tools enables the correct engine timing to be performed on Renault K4J, K4M 1.4, 1.6 16V & F4P, F4R 1.8, 2.0 16V engines when changing the timing belt.

- Applications:

CLIO 1.4, 1.6 16V (98-06)	MAGANE 1.4, 1.6 16V (98-06)
CLIO SPORT 2.0 16V (98-06)	MEGANE 1.8, 2.0 16V (98-04)
ESPACE 2.0 16V (98-04)	MEGANE II 1.4 16V (02-09)
GRAND SCENIC II 1.4/1.6 16V(02-09)	MEGANE II 1.6 16V (02-05)
LAGUNA 1.6 16V (98-06)	MEGANE II 2.0 16V (02-09)
LAGUNA 1.8 16V (01-05)	SCENIC 1.4, 1.6 16V (98-06)
LAGUNA 1.8/2.0 16V (98-04)	SCENIC 1.80, 2.0 16V (98-04)
LAGUNA II 2.0 16V T (02-09)	SCENIC II 1.4, 1.6, 2.0 16V (02-09)



KA-8378B

Petrol Engine Twin Camshaft Setting / Locking Tool Kit

- The full kit incorporating the timing tools required for all K4J/K4M/F4P/F4R 1.4, 1.6 1.8, 2.0(t)16v petrol engines, and also covers K9K 1.5dci diesel engines.

- Applications:

Renault 1.4, 1.6, 1.8, 2.0 16v Twin
Camshaft petrol engines in:
Clio, Modus, Megane / Scenic, Laguna, Kangoo
K4J/K4M 1.4&1.6 16V.engines
Clio, Megane / Scenic, Laguna, Espace, Trafic
F4P/ F4R (t)1.8 & 2.0 16v.engines



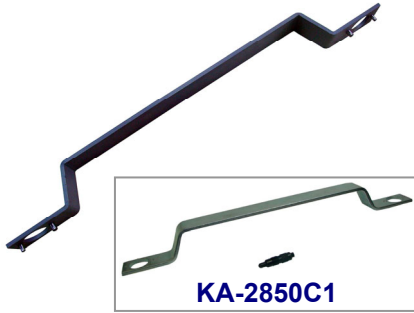
KA-8378C Timing Tool Kit For Renault

- Point:

Clio 1.2/1.4 Megane 2.5D/TD
Clio 1.4/1.6/1.8 16v Megane 1.4/1.6/2.0/ 16v
Clio Sport 2.0 16v R19 1.4

- Clio Williams 2.0 16v R19 1.4 Eco

Espace 2.0	R19 1.8 16v
Espace 2.0 16v	Rapid 1.4
Espace 2.2 TD	Safrane 2.0 16v
Express 1.4	Safrane 2.2 TD
Extra 1.4	Safrane 2.5 20v
Kangoo 1.2/1.4	Scenic 1.4/1.6/2.0 16v
Laguna 1.6 16v	Trafic 2.5D
Laguna 1.8/2.0	Twingo 1.2
Laguna 1.8/2.0 16v	
Laguna 2.2 D/TD	
Laguna 2.5 D/TD	



KA-2850C1

KA-2850C Camshaft Timing Tool (Big Size)

- For AUDI & VW 2.4/2.8 (V6)
- L: 700mm
- Applications: Audi;A4(94-08)A6(95-05), A8(96-02), Allroad(00-05),Skoda;Superb(02-08), VW;Passat(96-05)
- Engine Codes: 2.4-AGA,AJG,ALF,ALW,AWL,AMLAMM,APC, APS, APZ, ARJ, ARN, ASM, BDV, 2.7-AGB, AJK, ASJ, ARE, AZA, AZB, AZR, BES, 2.8-ACK, AEJ, AGE, AHA, ALG, AMX, APR, AQD, ATQ, ATX, BBG
- Associated Tools: VSE5852-Service Position Front End Support Guide et-VAG, VSE5959-Diesel/Petrol Camshaft Sprocket Remover-VAG-Belt Drive



KA-2850B1

KA-2850B Camshaft Timing Tool (Medium Size)

- For AUDI & VW 3.7/4.2 (V8)
- L: 688mm
- Applications: Audi;A6/Quattro(99-05),S6(00-04),A8(99-06), S8(99-03)RS4(03-05), RS6(03-04), VW;Touran(03-06), Phaeton(03-04)
- Engine codes: 3.7-AKC , AQG, BFL, 4.2-ANK, AQH, AQJ, ARS, ARU, ASG, AWN, AVN, AVP, AUW, AXQ, BCY, BFM, BGH, BHX
- Associated Tools: VSE5852-Service Position Front End Support Guide Set-VAG, VSE5959-Diesel /Petrol Camshaft Sprocket Remover-VAG-Belt Drive



KA-2850A1

KA-2850A Camshaft Timing Tool (Small Size)

- For AUDI & VW 2.6/2.8
- L: 585mm
- Applications: Audi;80(91-96),A4(94-99), Coupe(91-96), Cabriolet(91-00)A6(94-97), A8(94-00)

**KA-8261 Engine Timing Tensioner Kit**

For most petrol and diesel engines

A comprehensive range of tension lever and wrenches required for changing the cam belt on most popular petrol and diesel engines including: Alfa Romeo, Fiat, Citroen, Peugeot, Renault, Volkswagen

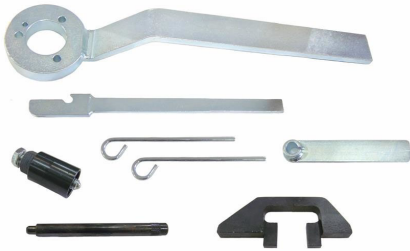
**KA-7800K 3pc Timing Belt Double Pin Wrenches Tools Set For VW & AUDI****KA-7800-2 Timing Belt Double Pin Wrench**

- For adjusting the timing belt at the tensioner roller
- On 1.6l VW diesel engine VW Transporter T3 (until 1991), Golf, Jetta, Passat, AUDI 80
- Offset design
- Distance of pins 18mm Ø3mm
- Special steel

**KA-7800-1 Timing Belt Double Pin Wrench**

Tension lever for Volkswagen/Audi vehicles.

**KA-7800-3 Timing Belt Double Pin Wrench**

**KA-8265****Timing Tools For BMW / LAND / ROVER / GM 2.5 TD5 engine**

Includes:

Crankshaft Holding Tool Timing Chain Compressor Injection Pump Puller
Shaft Puller Timing Pins for 2.5 TD5 Engines

**KA-8264 Timing Tools**

- For VAG 1.8 TURDO & 1.6 FSI chain driven engines
- Audi / Volkswagen / Seat / Skoda

**KA-8331 6pcs Timing Tool Set For VW and Audi Fsi 2.0 Liters/Turbo**

- With camshaft tools, chain tensioner retainer, locking pins and tensioner bolt.
- For 2.0 FSI petrol engines since 2003 in: AUDI A3 2.0 FSI and FSI SOHC engines codes AWA, BHD, BMB VW GOLF 2.0 FSI and 2.0 FSI SOHC and Touran 2.0 FSI SOHC engine codes AWA, AXW

**KA-8331A 7PCS****KA-8338 Engine Timing Tool Set For Professional Engine Repair BMW N52**

- Special design to locate camshaft in TDC position.
- Applicable: BMW N52 engines

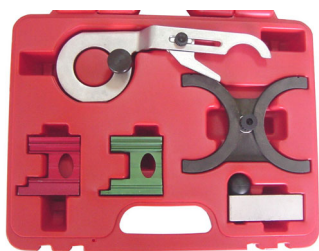
**KA-8338A Engine Timing Tool Set for Professional Engine Repair BMW N51/N52/N53/N54**

Special design to locate camshaft in TDC position.

- Applicable: BMW N51/N52/N53/N54 engines
- Applicable models: 128i.E82(07-08),130i. E81/E87 (05-08), 135iS.E82(07-08),323i.E90/91/92/93(04-08), 325i/xi. E90/91/92/93 (04-08),330i/xi. E90/91/92/93(04-08),335i/xi. E90/91/92/93(04-08),523i/Li.E60/61(04-08), X3 2.5/3.0.E83(06-08),525i/Li/xi. E60/61(06-08),630i. E60/61(04-08),528i/Li/xi. E60/61(06-08),530i/Li/xi. E60/61(05-08),535i/xi.E63/64(04-08),730i/Li. E65/66(04-08), X5 3.0.E70(06-08),Z4 2.5/3.0. E85/86(05-08). E90/91/92/93(04-08),328i/xi.

**KA-8302A Belt Tensioner Bar for VAG**

- Use with 1/2"Dr. wrench.
- Designed to adjusting the tensioning device when changing the V-ribbed belt on VAG.
- Applicable: VW Polo, Golf, Passat, and Audi since 1991.



KA-8294 Engine Timing Set

For V6 Engine

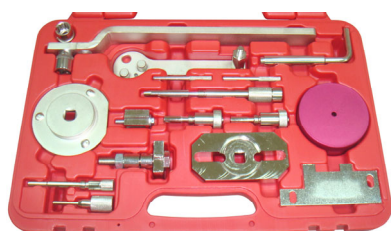


KA-8321

Engine Timing Tool Set V6 GM and SAAB 3.0L and 3.2L

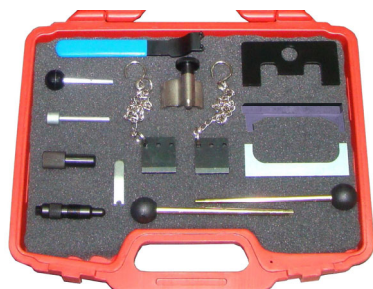
Engine timing tools set for General Motors/SAAB V6 petrol engines. (Crankshaft and Camshaft Locking Tools sold separately)

Application: 2002-2003 3.2L VIN N used in Cadillac CTS
1997-2001 3.0L VIN R used in Cadillac Catera
2001-2007 3.0L VIN R used in Saturn L300 & LW300
1996-2003 3.0L used SAAB 9.5



KA-8269 Timing Assortment For FIAT / IVECO / PAS / FORD

- For engine 2.2L, 2.3L, 3.0L
- Car models: new Fiat Ducato, Iveco Dayli, Ford Transit Van, Peugeot Boxer, Citroen Jumper equipped with these motors.



KA-8326

Timing Devices For Audi/Seat/ Skoda and Volkswagen Engine

Applicable : Audi/Seat/ Skoda/ Volkswagen, 75HP

(cylinders)-90HP-100HP-110HP-115HP-130HP-150HP Engine Timing Tool Kit

- This tool kit is used to maintain petrol and diesel engines and replace the timing belt on many models.



KA-8282 26pcs OPEL VAUXHALL Set

A comprehensive 16pcs set of engine timing locking tools for camshaft, crankshaft and flywheel. Covers/ Citroen/ Fiat/ Ford/ Opel/ Peugeot/ Renault/ Rover/ Vauxhall/ Volkswagen



KA-8325 Support Guide Set VGA

With access tight in the engine bay, the Volkswagen Audi Group have designed the front end of certain vehicles to slide forward giving more room for Cam belt and engine timing servicing. These tools are used through the front panel allowing the front panel to be slid forward and held in the service position.

Three sizes are available:

- 17mm x 2 (OEM 3369) Popular on many engines
- 8mm x 2 (OEM 3411) Popular on Passat 1.9 TDI PD and 1.6/2.0 Sharan 1.9 TDI PD
- 10mm x 2 Recently introduced on some of the later models



KA-8328 Engine Timing Tool Set For VGA-2.4D

Set of engine timing locking tools for use on Volkswagen 2.4D with engine codes AAB, AJA(02/95-03)

- The correct alignment is achieved by placing equal thickness of shims (C) between both ends of the bracket and the cylinder head.
- Camshaft Setting Strap (B) is used to set the correct timing position of the camshaft.
- The centre part of the bracket fits into the slotted end of the camshaft and the ends of the bracket locate on the cylinder head
- Injection pump pulley setting spigot (D) is 15.4mm in diameter and is used on engines with a one piece injection pump sprocket
- The Crankshaft damper holding tool (A) prevents the damper from rotating whilst unfastening and refastening the centre bolt. This tool should be used with 3/4" power bar



KA-8328A Engine Timing Tool Set for VAG-2.4D

Set of engine timing locking tools for use on Volkswagen 2.4D with engine codes AAB, AJA(02/95-03)

- The correct alignment is achieved by placing equal thickness of shims (C) between both ends of the bracket and the cylinder head
- Camshaft Setting Strap (B) is used to set the correct timing position of the camshaft
- The centre Part of the bracket fits into the slotted end of the camshaft and the ends of the bracket locate on the cylinder head
- Injection Pump Pulley Setting Spigot (D) is 15.4mm in diameter and is used on engines with a one piece Injection Pump Sprocket
- The Crankshaft Damper Holding Tool (A) prevents the damper from rotating whilst unfastening and refastening the centre bolt. This tool should be used with 3/4"D power bar
- VW GROUP 2.5TDi Common Rail Diesel engines (Belt) in

VOLKSWAGEN

LT Crafter

BJJ, BJK, BJJ and BJM engines



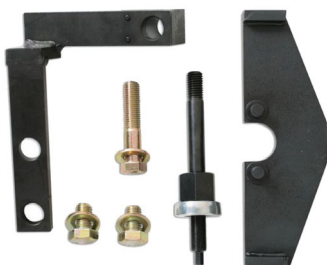
KA-8341 Engine Timing Tools Set For Mercedes BENZ/Chrysler/Jeep

- A timing tool set which covers a large of models in the Mercedes range including Petrol and Diesel engines.
- Also suitable for Chrysler PT Cruiser 2.2 CRD and Jeep Grand Cherokee 2.7 CRD
- Set includes Flywheel Plate Locking Tools and Camshaft Locking Pin Set



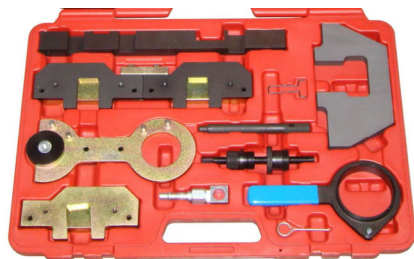
KA-8266 Engine Timing Tools – GM

- FORD 1.8 DURATEC-SCI



KA-8308 Engine Timing Tool Kit For – New Mini

- Engine timing tool kit for BMW mini one
2001-06(W10B16AA), Mini Cooper
2001-06(W10B16BA) and Mini Cooper S
2002-06(W11B16AA)
- Set includes camshaft sprocket holding tool, engine support bracket and tensioner assembly tool

**KA-8310****Engine Timing Tool Set for Professional Engine Repair BMW N42 / M44 / M50 / M52 / M54 / M56**

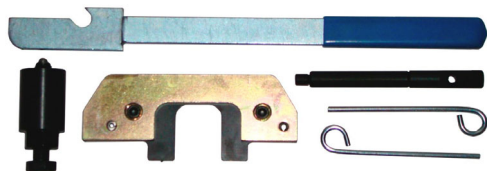
- Installation / removal and timing of variable camshaft timing unit.
- Checking and adjustment of camshaft timing / belt changing.
- Easily accessible operating instructions including cross references to original part numbers.
- Spare parts optionally available
- Clear arrangement of tools in high-quality plastic case with soft foam insert.

E36:	316i BJ. 93-99/E46:316i BJ. 99-04/316i Compact BJ. 94-01 (M43)	E38:	328i 95-99-Single Vanos	E38:	728i BJ. 95-98-Single Vanos
E36:	318i BJ. 93-99 (M43)	E46:	328i BJ. 98-01-Twin vanos		728i BJ. 98-02-Twin Vanos
E46:	318i BJ. 98-04 (M43)		330i BJ. 00-06-Twin vanos	E65/E66:	730i BJ. 02-05-Twin Vanos
E30:	318iS-16V BJ. 89-91(M42)	E34:	518i BJ. 94-96(M43)	E83:	X3-2.5i BJ. 03-06-Twin Vanos
E36:	318iS/Coupe BJ. 92-98/318ti compact BJ. 94-98/(M42)		520i BJ. 89-96		X3-3.0i BJ. 03-06- Twin Vanos
	318iS/Coupe BJ. 96-99/318ti compact BJ. 96-01/(M44)	E43:	520i BJ. 89-96-Single Vanos	E53:	X5-3.0i BJ. 99-05- Twin Vanos(M54)
	320i BJ. 91-97	E39:	520i BJ. 95-99-Single Vanos		Z3- 1.8i BJ. 96-99
	320i BJ. 91-99-Single Vanos		520i BJ. 98-03-Twin Vanos		1.9i BJ. 99-03(M43/M44)
E36/E46:	320i BJ.98-06-Twin Vanos(M52)	E60/E61:	BJ. 03-05-Twin Vanos		2.0i BJ. 9-03- Twin Vanos(M52)
	323i Compact BJ. 95-01-Single Vanos	E39:	523i BJ. 95-99-Single Vanos		2.2i BJ. 00-03- Twin Vanos(M52)
E46:	323i BJ. 98-01-Twin Vanos(M52)		523i BJ. 98-01-Twin Vanos		2.8i BJ. 7-99-Single Vanos
E36:	325i BJ. 1-97/	E34:	525i BJ. 89-96		2.8i BJ. 00-03- Twin Vanos
	325i BJ. 91-97 / Single Vanos	E39:	525i BJ. 89-96-Single Vanos	E85:	3.0i BJ. 00-03- Twin Vanos(M52)
E46:	325i Compact BJ. 00-06-Twin Vanos	E60/E61:	525i BJ. 00-03-Twin Vanos		Z4- 2.2i BJ. 03-06 Twin Vanos
		E39:	528i BJ. 96-00-Singlw Vanos		2.5i BJ. 03-06 Twin Vanos
			528i BJ. 96-01-Twin Vanos (M52)		3.0i BJ. 03-07 Twin Vanos
			530i BJ. 00-03-Twin Vanos		
		E60/E61:	530i BJ. 03-05-Twin Vanos		

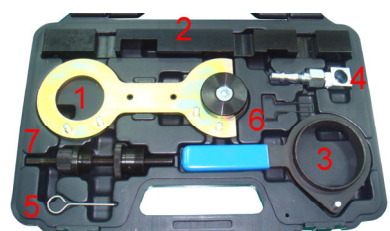
**KA-8314****Engine Timing Tool Set for Professional Engine Repair**

- For BMW diesel engines M41, M51, M47TU, M47TU/T2, M57/ TU / T2: 2.0l / 3.0l year 1998-2008
- Installation and removal of the camshaft / hydraulic chain tensioner
- Checking and adjustment of camshaft timing.
- Easily accessible operating instructions including cross references to original part numbers
- Spare parts optionally available.
- Clear arrangement of tools in high-quality plastic case with soft foam insert

E36:	318tds / 318tds Compact BJ. 94-00 / 325td /tds BJ. 91-99	E38/E65/E66:	730d
E34/E39:	525td/tds BJ. 91-03	E83:	X3 , 2.01d / 3.01d
E38:	725tds BJ. 91-03 M47 / M47TU / T2 / M57TU / T2	E53/E70:	X5 , 3.01d
E87:	118d / 120d	E90/E91:	316i , 316ti , 318ci , 318ti , 320i
E46:	318d / 318td Compact / 320td Compact / 320d / 330d		
E39:	520d / 525d / 530d	Land Rover:	
E60/E61:	525d / 530d / 535d	Land Rover:	2.5DT BJ. 1994-2002
E63:	635d	Land Rover:	3.0TD6 BJ. 2002-2006
		Freelander:	2.0TD4 BJ. 2002-2006

**KA-8373****Engine Timing Tool Set for LAND, ROVER BMW, OPEL**

- Models: 318tds. E36 (94-00)
325td/tds. E36(91-99)
725tds. E38(95-02)
 - Engines: M41/M45
- Also for RANGE ROVER 2.5DT/ SE and VAUXHALL/OPEL Omega-B

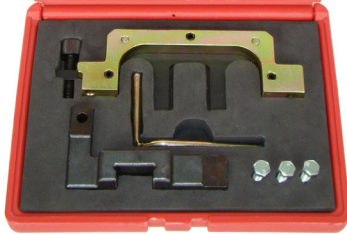
**KA-8371 Engine Timing Tool Set for BMW**

No.	Applicable
1	M52TU, M54, M56 (3er E46, 5er E39/E60/E61, 7er E38/E65/E66, X3 E83 X5 E53, Z3, Z4 E85)
2	M52TU, M54, M56
3	M50, M52 (3er E36/E46, 5er E34/39, 7er E38, Z3)
4	M50,M52, M52TU, M54, M56
5	M52, M52TU, M54, M56
6	M50 (3er E36, 5er E34)
7	M50, M52, M52TU, M54, M56



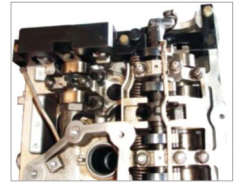
KA-8221 Engine Timing Tools

Applications: VUAXHALL/OPEL
 VECTRA 2.0D TURBO.
 SINTRA 2.0D TURBO.
 ZAFIRA 2.0D TURBO.
 FRONTERA-B 2.2D TURBO.
 SAAB 9-3 2.2D TURBO



KA-8322 BMW(N42,N46) Camshaft Alignment Tool

- Special design to fix the camshaft in TDC engine.
- Applicable: BMW N42, N46



KA-8311 Engine Timing Tool Set for Professional Engine Repair – BMW N42 / N46 / N46T

- For adjustment and arresting of the twin camshaft on petrol engines: – Engine timing: checking and adjustment
 – VANOS unit: removal, installation and alignment
- Easily accessible operating instructions including cross references to original part numbers.
- Spare parts optionally available.
- Clear arrangement of tools in high-quality plastic case with soft foam insert.

BMW: E87 118i / 120i – N46 engine
 E46 316i / 316ti / 318ti – N42 engine
 E90/E91 318i / 320i / N46 engine
 E85 Z4, 2.0i – N46 engine

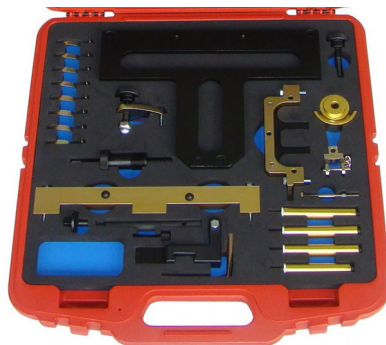


KA-8312

Engine Timing Tool Set for Professional Engine Repair BMW N42 / N46

- Suitable for the following application: camshaft installation and removal as well as removal and installation of the inlet camshaft and carrier assembly / Valvetronic System
- Easily accessible operating instructions including cross references to original part numbers
- Spare parts optionally available
- Clear arrangement of tools in high-quality plastic case with foam insert

BMW: E87 118i / 120i – N46 engine
 E46 316i / 316ti / 318ti – N42 engine
 E90/E91 318i / 320i / N46 engine
 E85 Z4, 2.0i – N46 engine

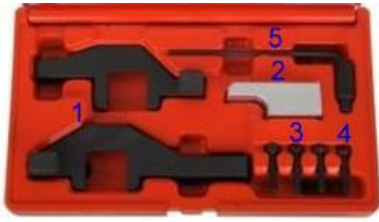


KA-8313 26pc Engine Timing Tool Set for Professional Engine Repair – BMW N42 / N46 / N46T

– (KA-8311 + KA-8312)–

- For adjustment and arresting of the twin camshaft on petrol engines:
 - Engine timing: checking and adjustment
 - VANOS unit: removal, installation and alignment
- Suitable for the following application: camshaft installation and removal as well as removal and installation of the inlet camshaft and carrier assembly / Valvetronic System
- Easily accessible operating instructions including cross references to original part numbers.
- Spare parts optionally available.
- Clear arrangement of tools in high-quality plastic case with soft foam insert.

BMW: E87 118i / 120i – N46 engine
 E46 316i / 316ti / 318ti – N42 engine
 E90/E91 318i / 320i / N46 engine
 E85 Z4, 2.0i – N46 engine



KA-8348 BMW Mini Cooper (N14) Timing Tool Set

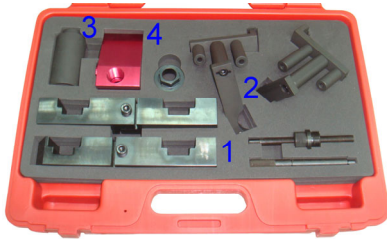
- Applicable: BMW mini cooper (N14)
- Positioned crankshaft by 5, when rotating crankshaft in central bolt.
- Note: do not remove 5 while maintenance.
- When repairing exhausted camshaft, installed 1 on it and fixed tool by 3.
- Installed 2 to cylinder head cover fastens by 4. Put 1 on intake camshaft, and fixed tool by 3.



KA-8349

Engine Timing Tool Kit For-Mini One / Cooper(N14) / Coopers

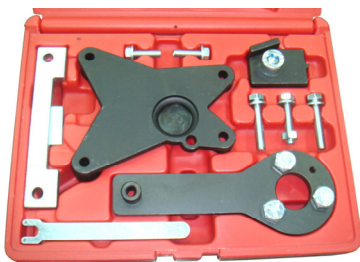
- Engine Timing Tool Kit for BMW Mini One 2001-06 (W10B16AA), Mini Cooper 2001-06 (W10B16BA) and Mini Cooper S 2002-06 (W11B16AA).
- 809401: Camshaft Sprocket Holding Tool
- 809402: Engine Support Bracket
- 809403: Tensioner Assembly Tool
- Positioned crankshaft by 5, when rotating crankshaft in central bolt.
- Note: do not remove 5 while maintenance.
- When repairing exhausted camshaft, installed 1 on it and fixed tool by 3.
- Installed 2 to cylinder head cover fastens by 4. Put 1 on intake camshaft, and fixed tool by 3.



KA-8359 BMW M62 VANOS Camshaft Tooling

Contents:

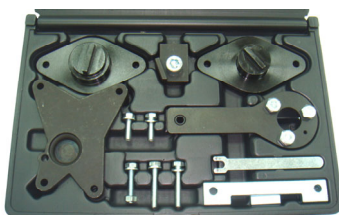
- 1- BMW V8(M60/M62) camshaft locking fixture**
Includes: 2 blocks swivel lock plate & locking pin for setting camshaft timing
Application: BMW engine models M60, M62
- 2- BMW (M62) VANOS camshaft timing tool**
For fixing camshaft sensor wheel in position during
Applicable: M62 VAN
- 3- BMW (M62) electromagnetic valve socket**
- 4- BMW (M62) VANOS tensioning bracket**
For screwing in chain tension with top right timing case cover removed
Applicable : engine M62 VANOS



KA-8360 PETROL Setting/Locking Tool Kit Fiat 8V

- Kit of crankshaft locking tool, camshaft setting plate and belt tensioner adjuster for the 1.2 engine, and additional sprocket locking tool and alignment fixture for the camshaft on the 1.4 VVT engine. Supplied with comprehensive instructions and carry-case.
- Models: New 500(07-08) Idea(04-08) Linda(07-08) Grande Punto(07-08) Doblo(05-08) Panda EV02(05-08)
- Engines: 1.2 8V-169A4000, 199A4.000
1.2 8V-188A4000-EV02 Only 1.4 16V-350A1.000

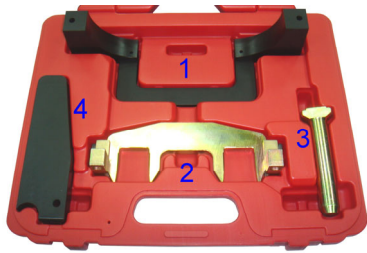
All tools and parts within these kits are available separately.



KA-8360A Petrol Setting / Locking Tool Kit Fiat 8V

- Kit consists of crankshaft locking tool, camshaft setting plate and belt tensioner adjuster for the 1.2 engine, and additional sprocket locking tool and alignment fixture for the camshaft on the 1.4 WT engine supplied with comprehensive instructions and carry-case.

Models	Engines
New 500 (07-08)	1.2 8V-169A4.000. 199A4.000
Idea (04-08)	1.2 8V-169A4.000-EV02 Only
Linea (07-08)	1.4 16V-350A1.000
Grande Punto (07 -08)	
Doblo (05-08)	
Panda EV02 (05-08)	



KA-8363 BENZ (M271) Alignment Tool Kit

- 1- for drawing in the timing chain. Retains timing chain with camshaft sprockets in proper timing position.
- 2- makes it possible to position the camshafts in the installed position.
makes it possible to slacken and tighten the bolts attaching the camshaft gear.
- 3- is to install the plug into the timing case cover (access to chain tensioner).
- 4- is for unloading the timing chain tensioning device. Release the timing chain (1). To do this, 4 in the timing case and push back the tensioning rail (2).

Applicable: BENZ (M271)

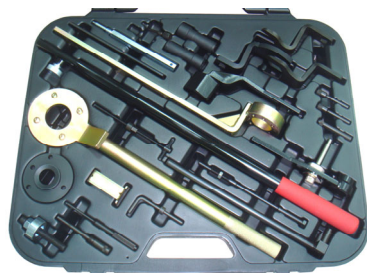


KA-8361 13pcs PETROL Engine Timing Set-Rover KV6

- For use when replacing engine timing belts: 2.0 V6 & 2.5 V6(1999-2005) Rover 45 75/ 160 180 190 825 / MG ZS MG ZT / ZT-T / Land Rover Freelander 2.5
- N.B not suitable for MG ZT / ZT-T 190 models

Contents:

1- Cam Shaft Locking Tools	* 2	18G 1747	
2- Cam Tool Adaptors 2.0 V6	* 2	12-187	2.0 V6
3- Cam Tool Adaptors 2.5 V6	* 2	12R208	2.5 V6
4- Rear Cam Sprocket Setting Tool		12-175(not 825 206 V6)	
5- Tensioner Pushrod Retension Pin			
6- Rear Cam Sprocket Setting Tool		LRT 12-175	825 2.5 V6
		LRT 12-198	
7- Rear Cam Sprocket Guide Pins * 2		18G1746	
		LRT 12-232	
8- Crankshaft Setting Pin		18G 1747-5	
		LRT 12-195	
9- Rear Cam Sprocket Spreader		18G 1747-1	



KA-8366 Engine Timing Tool Kit for HONDA, MAZDA

- For Honda, Mazda, Subaru, Hyundai, Daewoo, Chevrolet
- Important kit when working on the motor, e.g.. Timing belt, general motor settings, camshafts



KA-8367 Engine Timing Tool Kit for TOYOTA, MITSUBISHI

- For Toyota, Mitsubishi
- Important kit when working on the motor, e.g. timing belt, general motor settings, camshafts



KA-8370 Petrol Engine Twin Camshaft Setting/Locking Tool Kit

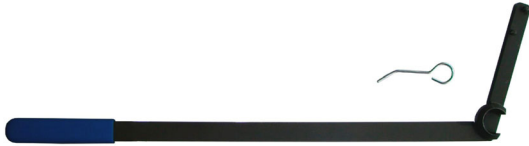
- BMW Mini, Citroen and Peugeot 1.4 and 1.6 16V. Valvetronic / Direct Injection Petrol engines
- BMW MINI:** R55 R56 Cooper S, R55 R56 Cooper, R56 Mini One
- CITROEN:** C4, C4 Picasso
- PEUGEOT:** 207, 308
- Engine BMW: N12(1.4/1.6) and N14(1.6)
- Engine PSA: EP3, EP6 and EP6DT/ DTS



KA-8370A

**KA-8376A****BMW Mini Cooper Serpentine Belt Tool Kit for R50, R53**

- This tool is used on Mini Cooper serpentine belt.
- Used to hold the serpentine belt tensioner on the supercharged Mini W10 engine
- Use KA-8376A to loosen the camshaft pulley and use KA-8376B to lock the camshaft pulley tensioner at the same time, then remove the parts under the oil pan and the pulley

**KA-8376B BMW Mini Cooper Serpentine Belt Tool**

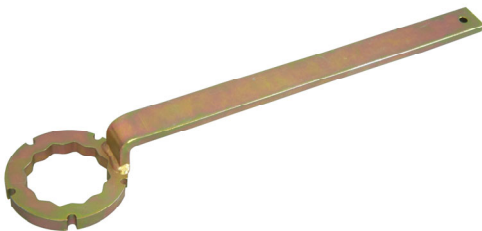
- This tool is used on Mini Cooper serpentine belt.
- Used to hold the serpentine belt tensioner on the supercharged Mini W11 engine
- Applicable: Mini Coopers S/W11 engine.

**KA-8376K BMW Mini Cooper Serpentine Belt Tool**

- This tool is used on Mini Cooper serpentine belt.
- Used to hold the serpentine belt tensioner on the supercharged Mini W10, W11 engine
- Use KA-8376A to loosen the camshaft pulley and use KA-8376B to lock the camshaft pulley tensioner at the same time, then remove the parts under the oil pan and the pulley

**KA-3119 VW & Audi Camshaft Pulley Remover**

- Special design for removing the camshaft pulley on diesel engine TD, TDI etc...
- Applicable: VW, Audi, Skoda, Seat

**KA-8380 SUBARU IMPREZA Crankshaft Pulley Remover/Installer**

- Designed for prevent pulley rotating when extract the central fixed screw.
* Note: to install the central screw with the torque 30NM then tighten 45°
- Applicable: 1999 SUBARU IMPREZA GT, SUBARU IMPREZA 1600c.c., 1800c.c., 2000c.c.

**KA-8381 Subaru Camshaft Pulley Wrench**

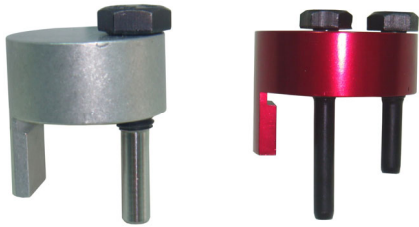
This tool allows you to remove the JDM AVCS intake cam sprockets without damaging the cam or the sprocket. It is a perfect tool for cam seal renewal cylinder head removal or motor tear downs.

3pcs welded construction with an integrated handles the torque and is designed for one person to do the job.

Application: Subaru Rorester



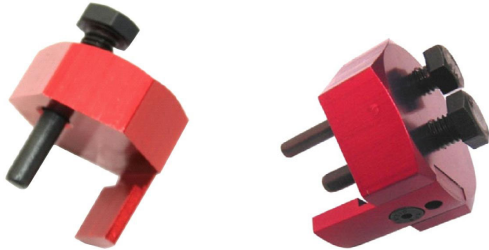
Note: this tool for use only on V7 and V8 EJ207 engines with intake AVCS.



KA-4035 (small) KA-4035A (big)

Belt Installation Tool

- This no more need twisting the belt when you rotate the belt onto pulley, can prevent to damage the belt.
- Allow low profile for tight access applications.
- To prevent tool slipping off the pulley when groove on underside of tab fits on outer lip of pulley.
- This tool is more economical and environmentally friendly than disposable versions.
- Includes a re-usable universal tool and mounting bolt.



KA-4035C

KA-4035D

Stretch Belt Installation Tools

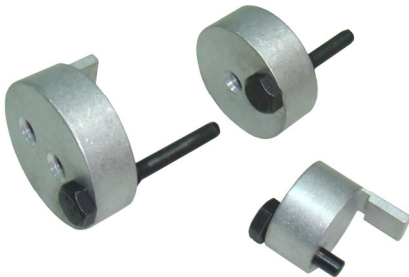
Quickly and easily install stretch belt found on many late model vehicles. These drive systems do not have a tensioner and require the proper installation tools to avoid damage to belts.

KA-4035C

Applications: Ford, Lincon, Mercury, Mazda, Chevy, GMC, Hummer, Cadillac, Isuzu, Chrysler, Dodge

KA-4035D

Applications: BMW, Volvo, Mercedes, Mazda

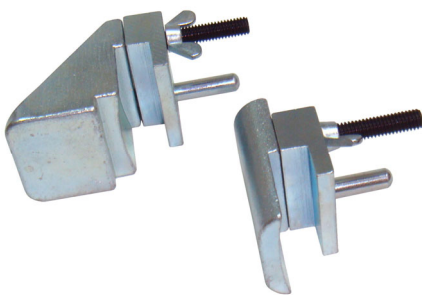
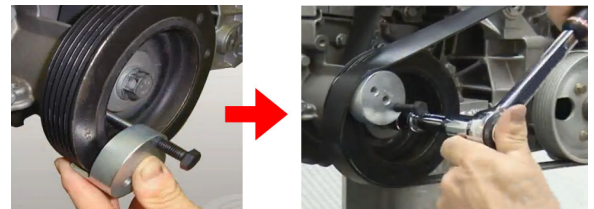


KA-4035K 3pcs Belt Installing Tool Set

- Special designed set of tools for installing the new belt onto the pulley.
- Applicable: FORD, MAZDA, VOLVO, BMW, CHRYSLER, CITROEN, FIAT, LANCIA, ETC...

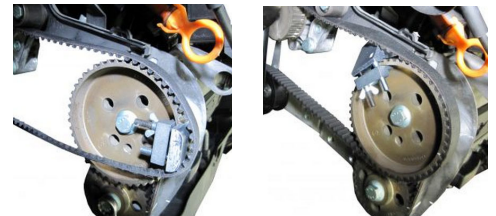
Operation:

1. Choose the correct one, and then place the tool on the crank pulley and bolt inserted until it touches the crank pulley.
2. Fit the belt over the pulley.
3. Rotate the crank pulley till the belt sits well in all of the pulley grooves.



KA-3258 Elastic-Ribbed Belts Tool Kit

- Suitable for engines with elastic ribbed belts such as Alfa Romeo, BMW, Chrysler, Fiat, Ford, Mercedes, PSA, Seat, Skoda, Smart, Volvo, VW-Audi, etc...
- This tool set is quickly and easily removal and installation of the new elastic ribbed belts required.



KA-3258K 5pcs Belt Installing Tool Set

- Special designed set of tools for installing the new belt onto the pulley.
- Suitable for engines with elastic ribbed belts such as Alfa Romeo, BMW, Chrysler, Fiat, Ford, Mercedes, PSA, Seat, Skoda, Smart, Volvo, VW-Audi, Mazda, Lancia, Citroen, etc...
- Includes KA4035K and KA-3258.



Engine Crank Alignment Tool

KA-2083A KA-2083B

- Allows the engine crank to be manually adjusted.
- Allow pinpoint accuracy calibration.
- Adjusting screw in the clutch housing.
- Ideal for adjustments to the engine.
- 1/2" dr.
- Specification:

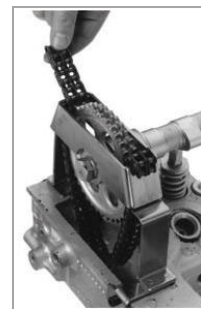
Item No.	No. of gears	H (mm)	Application
KA-2083A	3	120	Mercedes Benz Actros and Atego, MAN 5-/6- and 8-cylinder engines – D25/28, etc.
KA-2083B	2	90	Mercedes Benz 6- / 8- and 10-cylinder engines, MAN 12-cylinder engines, etc.



KA-5188 Mounting Device For Timing Chain

For the 4-cylinder Mercedes petrol engine M111

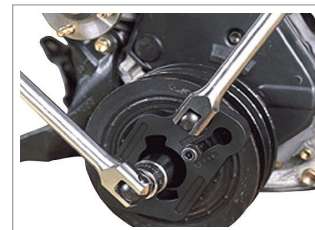
- The use of this mounting device allows a single mechanic to replace a timing chain quickly and without any trouble.
- Application: C180/200/220, E200/300, CLK 200/230, SLK 200/230, ML 230
- Advantages:
Substantial time savings, only one mechanic required.
No risk of the timing chain falling or skipping a tooth.
Additional time savings on some vehicles where it is not necessary to remove the radiator, cooling fan...etc.



KA-2075 Crank Pulley Removal Tool Set – Manual Type

- Mainly used in vehicles with vertically placed engines.
- Especially in Toyota JZ type / 1G type / Nissan RB type / VQ Type (excluding diesel types).
- Exclusive to the V-ribbed belt.
- Pulley outer diameter: Ø 90~Ø180
- Applicable to crank pulleys with fitted service taps.

Set bolt: (per size x 2pcs)
M6: Length: 30-40-50-60-70-80-90mm(L)
M8: Length: 40-45-60-75-85-100mm(L)
Washer: M6 x 2pcs, M8 x 2pcs



KA-3924 Camshaft Drive Belt Pulley Puller

Special puller designed for pulling camshaft pulley wheels on 4 & 6 cylinder, V6 & V8 engines on VW and Audi petrol engines.



KA-2077 Timing Tool Kit For Volvo

Suitable for petrol 2.0/2.5 twin cams(belt).
These tools in use for setting engine timing.
Application: 850(92-97), C70(98-02), S40(96-04), V40(96-04), S60(01-05), S70(97-00), S80(99-05).

Contents:

- 1pc- crankshaft TDC timing pin
- 1pc- tensioning tool
- 1pc- camshaft setting tool



KA-2157 Crankshaft Pulley Holder Tool – Volvo B320

The way to keep the crankshaft pulley from turning when change the timing belt or crankshaft seal.

The hold in the handle fits over the tensioner stud for a secure hold.
With stand the torque specs specified by Volvo for the crank bolt.
Durable construction with 7.87mm thickness.



KA-2159 Pulley Wrench 32mm – VW / Audi

- Adjusting the toothed belt at the automatic tensioning pulley on Audi and Volkswagen 2.5TDI engines.
- Size: 32mm
- Adjusting the cam belt tensioning pulley.
- Suitable for Audi and Volkswagen 2.5TDI engines and some Volvos.



KA-2933 Universal Camshaft Alignment Tool Set

- Use your own sockets (in the rings) to lock onto the central camshaft screws-aligning & locking camshafts.
- Special design to align camshaft and removing or installing the guide rail pin
- Adjustable to fit most twin crankshafts.
- One uses your own sockets in the rings and lock them in with the screws.



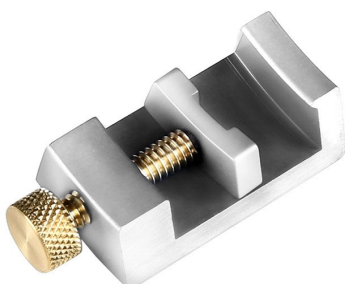
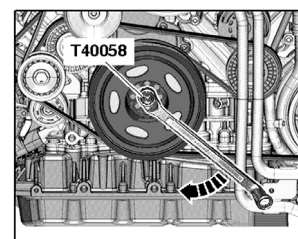
KA-8295A Timing Belt Tensioner for Mitsubishi

- Design for fixing the tension pulley on all Mitsubishi injection engine.
- 1/4" drive.



KA-2162 Crankshaft Rotation Tool VAG for VW, Audi

- Special designed to rotate the crankshaft into position for alignment purpose
- Suitable for Audi A6 2005~, Audi A8 2003~
- Engine model: 6- and 8-cyl. Engine, 2.4L, 3.2L FSI, 6- and 8-cyl. TDI common rail.
- To be used as OEM T40058



KA-8034 BMW / Mini Belt Installation Tool (N62/W17)

- Used for installing the drive belt that is a stretch belt and no belt tensioner is used.
- Applicable: BMW N62(V8) engine with the stretch belt.
Mini W17(diesel) engine with the stretch belt.
- Comparable: BMW #641040 & #83800494518.





KA-3710 Engine Crank Alignment DAF

- With 6 point drive SW24.
- Allows the engine crank to be manually adjusted.
- Allows pinpoint accuracy calibration
- Ideal for adjustments to the engine.
- Application: e.g. 65CF, 75CF, 85CF, 95XF, CF75, CF85, CF65, F75, F85, F95, XF95

L mm	H mm	Ø mm	Teeth	mm
55	90	40	11	24



KA-3711 Engine Crank Alignment DAF

- With 1/2" square drive.
- Allows the engine crank to be manually adjusted.
- Allows pinpoint accuracy calibration.
- Ideal for adjustments to the engine.
- Application range: XF105 Euro5 etc.

L mm	Ø mm	Teeth	□
81	33	9	1/2"



KA-5262 Universal Timing Gear Holder

- Used to hold the gear while the cam shaft bolt is removed
- Allows adjustment of cam gear once installation is complete
- Slimline design allows maximum access
- Single lever design is quick and easy to use
- Provides breaker bar strength for maximum holding force



KA-8372 Engine Timing Tool Set for AUDI

- Camshaft adjuster pre-tensioning
- Camshaft locking
- Removal/installation of timing chain(s)
- Align camshafts

AUDI Model	Engine code	Year
A6 2,4	BDW	2004-07
A6 2,4 quattro	BDW	2004-07
A4 3,2 FSI	AUK	2004-07
A6 3,2 FSI	AUK, BKH	2004-07
A8 3,2 FSI		2005-07



KA-8372A VW, AUDI Timing Tool Set (TFSI)

For alignment, adjustment the camshaft, replacement the timing chain and etc...
Complete engine timing set for VW/Audi TFSI engines
Application: AUDI Q5 2.0, A6L 2.8, 3.0T



KA-5305 BMW Flywheel Holder

- Special designed to fix flywheel when replacing timing chain.
- It helps to release and tighten the central bolts on vibration damper.
- Applicable: BMW M47T2/ M47TU/ M57T2/ M57TU/ M67/ N45/ N45T/ N46/ N46T/ N51/ N52/ N53/ N54/ W17.



KA-8307A



KA-8307AC

Universal Camshaft Pulley Holding Tool – Adjustable

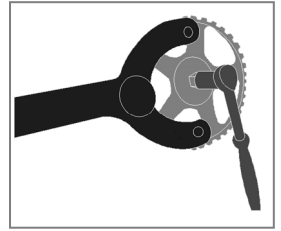
- Application: Benz, BMW, Ford, Mitsubishi, Honda, VW, Audi, Nissan, VOLVO, Toyota
- Loosening and tightening the center shaft bolt while holding the camshaft pulley stationary.

KA-8307A

- Adjustable distance: 21mm-100mm
- Bolt size: 6.3, 9.0, 11, 10mm (every size x 2pcs)

KA-8307AC

- Adjustable distance: 25mm-100mm
- Bolt size: 7, 10, 14, 16mm (every size x 2pcs)



Instruction:

Step 1: choose 2 suitable adaptors with one size, and install them with 2 hole on handle jaw.

Step 2: Hold the tool and insert two adaptors into pulley screw hole, tool will be automatically lock with pulley disc.



KA-8402 Harmonic-Damper Crank Pulley Holder for Honda

- Suit for Honda.
- Break loose the crank shaft pulley / harmonic balancer bolt.
- Designed to properly secure the pulley from rotating during R & R of crank bolt.
- The 50mm hex head armature slips past the lightest of spaces and slides right into the center slot on the pulley. Then slide the long bar onto the receiving end of the armature and lock it into position with the securing bolt.



KA-5272 Timing Belt Tensioner Tool for Toyota

- Used to Replace Timing Belts on Toyotas
- Replacing the timing belts on 5VZ-FE, 3.4L V-6 and 4.0L, 4.3L, 4.7L V-8 engines is a very difficult task.
- The professional technician has no means to effectively compress the hydraulically activated belt tensioner without spending additional time removing engine components. In operation this tool is placed between the belt tensioner and the water pump pulleys.
- Then by slowly turning the tools inner nut, pressure is applied to the hydraulic tensioner pushing it into a position that allows the technician to place the supplied locking pin into the hydraulic piston push rod.
- Once the locking pin is in place the tensioner compressor can be removed and the timing belt placed on all appropriate pulleys.
- After the belt is placed on the engine pulleys, the locking pin can be removed to return tension on the timing belt.



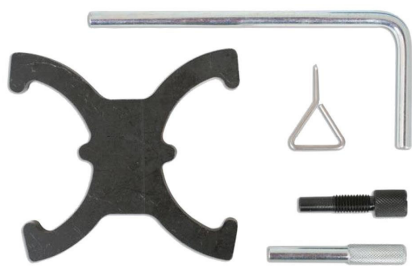
KA-5277

Camshaft Drive Belt Pulley Puller

Special puller designed to remove 5 and 6 spokes for camshaft pulleys. Works on VW/Skoda/Audi :

- 4 & 6 cylinder TDI engines, V6-V8 engines.
- 4-cylinder injection engine (2.0 liter FSI engine).





KA-8315 Engine Timing Tool Set for Focus CMax

- This five piece set is essential for replacing the cam belt on Ford Focus/Cmax 1.6 Ti-VCT with engine code HXDA (2003-2007) plus 2.0 TDCi with engine codes G6DA, G6DB, G6DC 2003-2007.
- Set includes camshaft sprocket holding tool, tensioner pulley locking pin, flywheel timing pin, crankshaft timing pin, camshaft sprocket locking tool.
- Also required flywheel locking tool and adaptors.

KA-8199 Timing Tool For Ford

- This completely set for replacing the timing belt.
- Applicable: Ford Duratec Petrol engine: 1.25, 1.4, 1.6, 1.7, 1.8 and 2.0 twin cam 16V
Ford Duratorq diesel engine: 1.4, 1.6, 1.8, 2.0 TDCI
Mazda: PSA 1.4, 1.6 HDI engine.



Models:

Fiesta / Courier (00-00)	Focus (98-00)
Focus (04-08)	Focus C-Max (03-08)
Mondeo (07-08)	Tourneo Connect (02-08)
Transit Connect (02-08)	Fusion (02-08)
S-Max (06-08)	Galaxy (06-08)

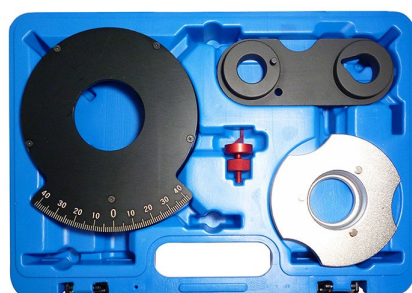
Engine code:

1.4 TDCI	1.6 TDCI	2.0 TDCI
F6JA, F61B, F6JC	HHJA, HHJB, G8DA G8DA, HHDA, HHDB	G6DA, AZWA, G6DB QXWA, G6DC
1.8D Turbo	1.8 TDDI	1.8 TDCI
RTN, RTQ RTP, C9DC	BHDA/B, BHPA C9DA/B, C9DC HXDA	F9DA/B, FFBA, FFDA HCPA, HCPB, KKDA P7PA, P9PA, QYWA R2PA, R3PA, RWPA



KA-8362 Engine Timing Tools for FORD

Applicable: for Ford 1.25L 1.4L 1.6L 1.8L 2.0L 2.4L Cmax / Cougar / Couier / Duratec-SCI / Fieata / Focus / Fscore / Fusion / Kombi / Mondeo / Puma / Sierra / Tourneo / Transit petrol engine and diesel engine



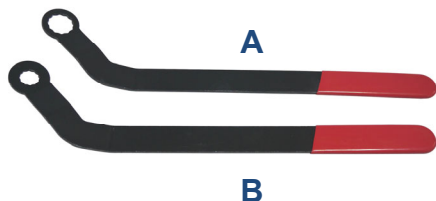
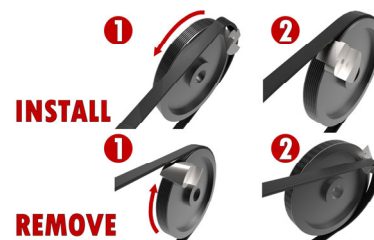
KA-8050 Timing Chain Test Tool For VW / Audi 1.2, 1.4

- Checking elongation of timing chain.
- Type/Model: Various VOLKSWAGEN Group models
- 4-cyl. Injection engine (1.2L engine, direct injection, turbocharger)
- 4-cyl. Injection engine (1.4 L engine, direct injection, turbocharger)
- For example: Golf 2009 > 4-cyl. injection engine
- OEM Code: T10550



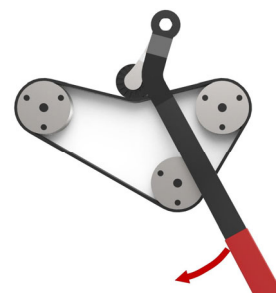
KA-3287 Stretch Belt Remover / Installer

- Combination removal and installation tool for most stretch belt applications found on many accessory drive systems.
- Unique magnetic faces hold the tool in place on the pulley. Helps prevent damage to belt or pulley during removal or installation.
- Compact, one-piece tool can be used on the front or back side of the pulley.



KA-8030 Mini Cooper Serpentine Belt Tool for N12, N14, N16, N18

- Each set comes with a one large and one small 12 point wrench.
- Applicable: all 2007 and newer mini cooper N12, N14, N16 and N18 engines.
- BMW number: 116210
- Size:
 - A: 30mm/12PT, L568mm x 1pc
 - B: 21mm/12PT, L568mm x 1pc



KA-5290 Stretch Belt Tool Kit

- Kit for mounting and dismounting the stretch belts without damaging pulleys and belts.
- Fast, easy and correct belt replacement.
- Large field of work through different mounting and dismounting tools.
- For : BMW, Cadillac, Chevrolet, Chrysler, Citroen, Fiat, Ford, GMC, Isuzu, Iveco, Lancia, Lincoln, Mazda, Mercedes, Peugeot, Volvo, etc.

Mounting:

1	Belt installer	Ø3 2mm
2	Belt installer	Ø4 5mm
3	Belt installer	Ø5 0mm
5.1	Screw	M8 x 25, Ø 5.9mm
5.2	Screw	M8 x 40, Ø 5.7mm
5.3	Screw	M8 x 53, Ø 5.7mm
5.5	Screw	M8 x 65, Ø 5.6mm -L = 32.5

Dismounting:

4.1	Belt Remover	
4.2	Self Locking Nut	
4.3	Fixing Nut	M8
5.4	Screw	M8 x 5.6mm - L = 11.5
5.5	Scrww	M8 x 5.6mm - L = 32.5



Mounting



Dismounting



Water Pump Reaction Wrench (Opel / Vauxhall / GM)

- KA-6594A 39mm
- KA-6594B 41mm
- KA-6594C 46mm



- Suitable for Opel/Vauxhall/GM OHC – engines e.g. 1.2, 1.3, 1.4, 1.6L
- Used for turning the water pump, so as to enable the driving belt to be tensioned.
- Safe locking / No damage of the Visco-clutch.
- Works on 1.6L engines in 2004- current Chevrolet Aveo (excluding 2009 with variable timing engine and 1999-2002 Daewoo Lanos). Also works on the Chevrolet Optra in markets outside the US.

KA-8035 Subaru Crankshaft Holding Tool

- This tool is designed to hold the Subaru Crankshaft pulley Stationary while loosening or tightening the crankshaft bolt.
- Two sets of pins to service both styles of pulleys.
- Perfect for timing belt service or other engine services.
- Application:

Subaru: BRZ (2012~), Impreza (1993~), Legacy (1994~2011), Forester (1998~2010), Outback (1994~2011), Baja (2004~2006)

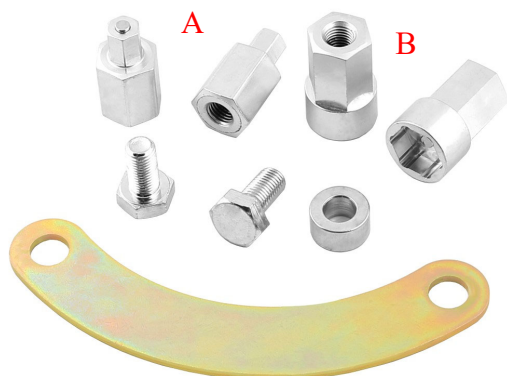
Toyota: GT86 (2012~)

Scion: FR-S (2012~)

Saab: 9-2X (2005~2006)

**KA-6600 Camshaft Locking Tool for Subaru**

Locks the LH side cam sprockets from turning when the timing belt is removed. Prevents cam sprockets from spinning when belt is removed. Makes timing belt changes faster and easier with one person. Curved plate allows easy viewing of sprocket timing marks.

**A. Subaru (DOCH Turbo engine)**

Impreza WRX (STI) 2.0 / 2.5L (2002~)
(EJ205, EJ2.7, EJ255, EJ257)

Forester XT
(2004~2011)

Outback XT
(2005~2010)

Legacy GT
(2005~2010)

Baja
(2004~2006)

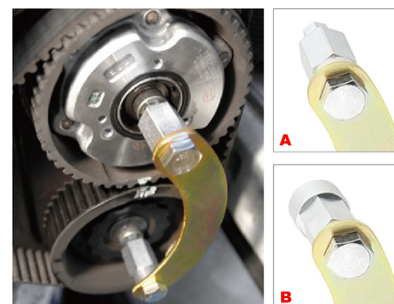
A. Saab (DOHC Turbo engine)

9-2X Aero (2005~2006)

B. Subaru

2.5L DOHC Phase 1 n/a (1996~1998)

Early turbo EJ engine

**KA-8257B Petrol Engine Setting/Locking Kit****ENGINE CODES:**

1.2TFSI: CBZA, CBZB, CBAC

1.4FSI: AXU, BKG, BLN

1.4TSI/TFSI: BLG, BMY, BWK, CAVA, CAVB, CAVC, CAVD, CAVE, CAVF, CAXA, CAXC, CDGA, CSMA

1.6FSI: BAG, BLF, BFP

**KA-8037 VW Crankshaft Oil Seal Install Tool**

- For 1.2 FSI Engine Crankshaft Front Oil Seal Install.

**KA-5392 Flywheel Turning Tool for Volvo (MP8 / MP10)**

Removal plugs flywheel cover and place the rotation tool.

Application range: Volvo truck(MP8 / MP10), (FH, D13A520)

OEM Number: 88800014

Inner	Ø mm	Outer	Ø mm	Stud	H mm	□	Ø mm
19		38.8		DR8x10x38	71	1/2"	H 24



KA-8338B BMW Timing Tool Set for N20, N26

- Dismantle and assemble intake and exhaust camshaft.
- Designed for fixing the camshaft in TDC position.
- Applicable: BMW N20, N26 engine.
BMW Number: 83 30 2 212 831,83 30 2 212 830,83 30 2 219 548,119340



KA-8338C BMW Timing Tool Set for N55

- This tool is used to lock camshaft in top dead center (TDC)
- Application: BMW N55
- BMW OEM No. Ref.: 114 280/281/282/285/290, 119 340, 110 300.



KA-8036 BMW V8 Camshaft Alignment Tool

- Includes 4 blocks (2 for each side) & 2 locking fixtures for setting camshaft timing.
- Applicable to BMW M60, M62 TU V8 motors 1994-2003.
- BMW 462 TU for M62 TU motor.



KA-8039A Timing Tool Kit for OPEL/VAUXHALL

- Applications: ASTRA-G | H | CORSA-D | INSIGNIA | MERVIA | SIGNUM | VECTRA-C | ZAFIRA-B 2003-2011.
- Also fits CHEVROLET CRUZE, ORLANDO 1.4 | 1.6 | 1.8 and FIAT CROMA, ALFA ROMEO 159 with 939A4.000 engines.
- Engine Timing kit for GM derived belt driven engine 16V1.6 and 1.8 Z and A engine code found in VAUXHALLS CHEVROLETS, FIATS AND ALFA ROMEO' S.2003-2012.
- For GM engines fitted to VAUXHALL/OPEL AND OTHER VEHICLES 16V1.6 AND 1.8.



KA-8039



KA-8040 VW, Audi Engine Timing Tool Set

- Special designed to install hall sender screens into crankshaft adjuster when setting the crankshaft timing.
- Applicable Audi A6L, A8L 4.2 engine.
- Engine model: V8BAT 4.2 engines.
- VM number: T40047.



KA-5335 Camshaft Locking Tool For Volvo

- The tool holds the camshafts in place during timing belt replacement to prevent unexpected movement and ensure proper camshaft alignment.
- Works on 1998 and earlier Volvo models without CVVT (constant variable valve timing.)
- Suitable for Volvo 850 (1993-1997), C70 (1998), S70 (1998), V70 (1998).



KA-8043 Timing Tool Set For BMW

- Applicable: BMW N13, N18 engine.
- Designed for fixing the camshaft in TDC position.
- Use the tool to dismantle and assemble intake and exhaust camshaft.
- Engine number: 117440, 119590, 496709, 119340.



KA-3109A Universal Camshaft Sprocket Puller

- Hold the sprocket and undo the retaining bolt or nut and remove.
- This tool enables the removal of the camshaft sprocket on a wide range of vehicles.
- Suitable: 45mm ~ 70mm.



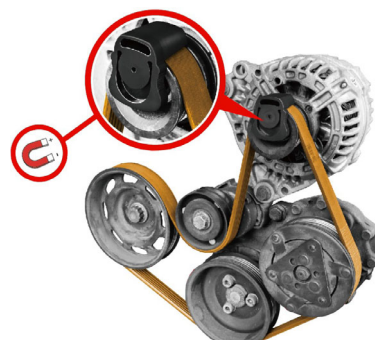
KA-8044 Reaction Wrench

- Used to relieve pressure on the timing belt by pushing back the automatic idler pulley.
- Due to extremely limited space, in particular on transporter models, it is very difficult push back the automatic idler pulley, in order to change the V-ribbed belt.
- The tension tool is operated by a 3/8" socket.
- Suitable for the Mercedes transporters series 208 D to 410 D with engines types OM601 and OM602 and also for Mercedes passenger cars with hydraulic pump for self-levelling suspension.



KA-8046 Belt Holder

- Holding the belt firmly on the pulley during installation.
- Universal design to fit most pulley types.
- Durable plastic housing with super strong magnet.





KA-8047 VAG Timing Tool Kit for EA211

- Use for correct the camshaft and crankshaft timing position.
- Use while change the timing belt.
- Applicable: VAG series EA211, FSI, TSI, TFSI engine (1.0L, 1.2L, 1.4L and 1.6L).
- VM number: T10340, T10494, T10487, T10476, T10477.



KA-8048 Engine Timing Tool Combination for BMW

- Special designed master timing kit includes crankshaft wrench, angle indicator, 27mm socket, chain tensioner, and camshaft alignment holder and locking pin
- Applicable: BMW N62, N73.



KA-8049 Engine Timing Tool Set for Ford

- This set includes fourteen tool covers more petrol and diesel.
- Applicable: 1.6 Ti VCT, on Focus and C Max (03-) with engine code HXDA and Fiesta/Fusion 1.4/1.6 TDCi, and Mondeo, S Max, Transit Connect and Tourneo Connect 1.8 Tddi/TDCi and 2.0 TDCi



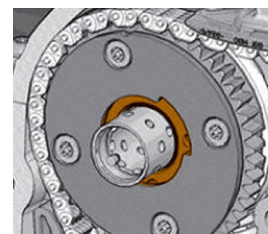
KA-7283 VAG Camshaft Adapter Socket

- 1/2" Dr.
- Used to rotate and hold intake camshaft during timing chain service on 4-cylinder 1.8 and 2.0 liter 4V TFSI direct injection engine (generation III).
- OEM Ref. T40266.
- Suitable for:
AUDI: A4 2008~, A5 Cabriolet 2009~, A5 Coupe 2008~, Q5 2008~, A3 2012~
SEAT: Alhambra 2011~, Exeo 2009~, Altea 2009~, Leon 2009~, Altea XL 2009~, Altea Freetrack 2009~



KA-7283A VAG Camshaft Adapter Socket

- The new special tool is required on account of the modified contour in the camshaft adjuster.
- OEM Ref. T10567
- Suitable for: VW Tiguan 2016~, Audi A4 2016~
- 1/2" drive.
- Used to rotate and hold intake camshaft during timing chain service on 4-cylinder 1.8 and 2.0 liter 4V TFSI direct injection engine (generation III).
- OEM Ref. T40266.
- Suitable for engine codes: 1.8 TFSI – CDAA, CDAB, CDHA, CDHB, CJSB, CJEB
2.0 TFSI – CNDC, CDNB, CDNC, CFKA, CCPSA, CNCD



- Application: VW, AUDI, Skoda, Seat.

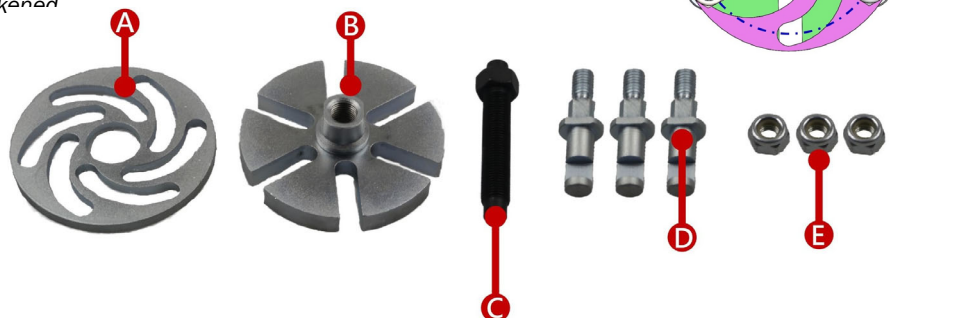
VW	Beetle(13~16), CC(12~15), EOS(08~15), Golf V(03~09), Golf VI(09~13), Gof VII(12~15), Golf Alltrack(14~17), Jetta V(05~11), Jetta VI(11~16), Passat(11~17), Tiguan(07~15), Touran(14~17)	SKODA	Octavia II(08~13), Octavia III(13~17), Superb II(08~15), Superb III(15~17), Yeti(13~15)
AUDI	A3(12~16), A3 Sportback (12~16), A3 Cabriolet (13~16), A4(08~15), A4 Quattro(12~15), A5(09~11), A5 Sportback(09~16), A5 Cabriolet(09~12), Q5(05~17), TT(15~17)	SEAT	Alhambra(11~16), Altea(09~16), Altea XL(09~16), Altea Freetrack(09~16), Exeo(09~16), Leon(09~17), Leon ST(13~17)

Timing Pulley Puller

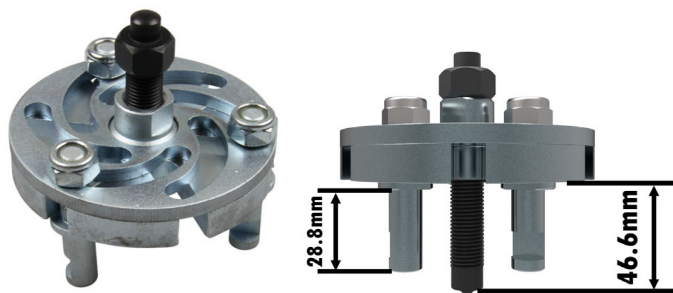
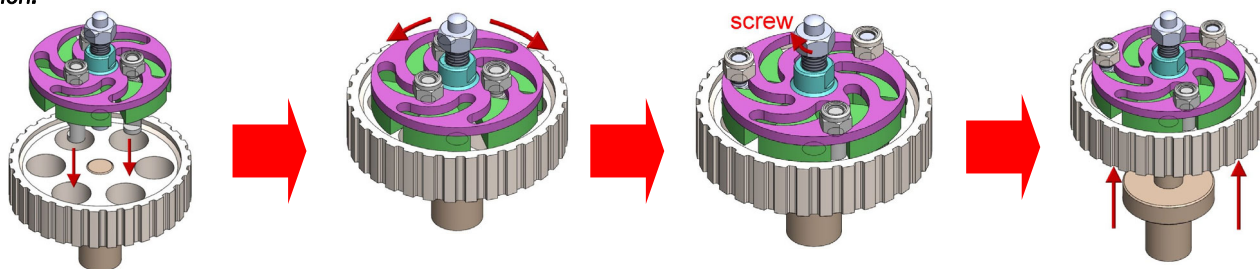
- This tool is designed for removing drive pulleys with face grooves.
- The tool removes a pulley absolutely free of any risk of damage.
- The tool is adaptable to different pulley diameters, as the legs are adjustable.
- For removing pulleys with 3, 6, 9 slots.
- Surface finish: chrome plated, screw blackened

Content

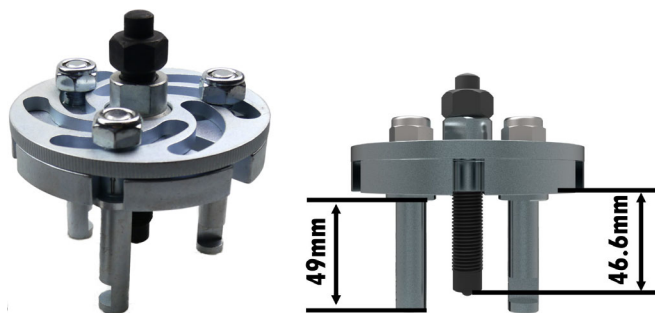
- A: Regulator x 1pc
- B: Bracket x 1pc
- C: Bolts x 1pc
- D: Hooks x 3pcs
- E: Locking Nuts x 3pcs



Instruction:



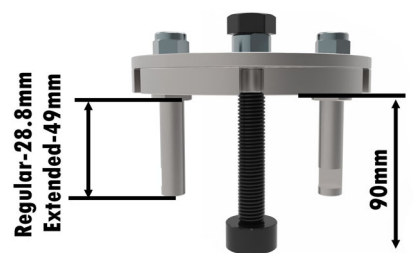
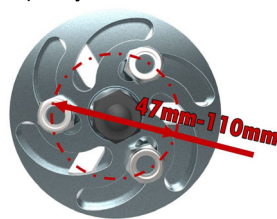
KA-2911C



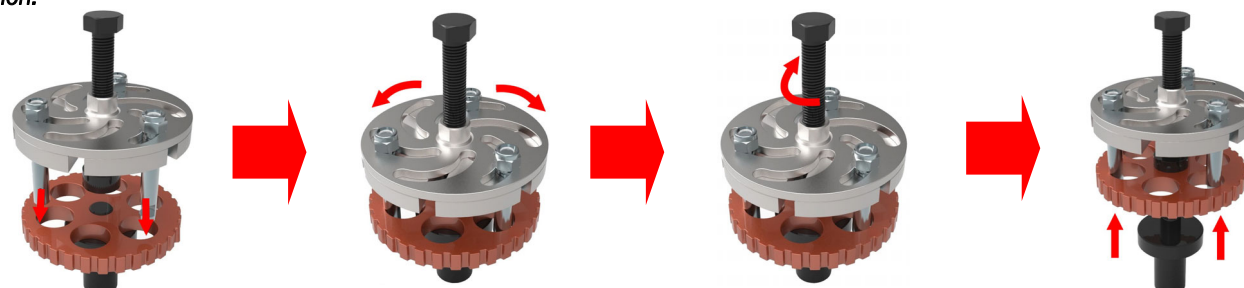
KA-2911D (EXTENDED)

KA-2911G Timing Pulley Puller (47-110mm)

- This tool is designed for removing drive pulleys with face grooves.
- The tool removes a pulley absolutely free of any risk of damage.
- The tool is adaptable to different pulley diameters, as the legs are adjustable.
- For removing pulleys with 3, 6, 9 slots.
- Surface finish: chrome plated, screw blackened.
- Jaw range: 47~110mm.



Instruction:



KA-5434 Accessory Belt Tensioner Unloader for GM Group

- Used to service the accessory belt.
- OEM Ref. EN-44811

Application:

Engine Mechanical	Astra: 2008-2010	HHR: 2006-2011	Regal: 2013
	AURA: 2007-2010	ION: 2003-2007	Sky: 2007-2010
	BAS Hybrid: 2007-2010	L200/LW200: 2000-2005	Solstice: 2006-2010
	Captiva Sport: 2008-2011	L300/LW300: 2000-2005	Verano: 2013
	Captiva: 2007-2011	Malibu Classic: 2008	VUE-AWD: 2002-2007
	Cobalt: 2005-2012	Malibu: 1998-2001	VUE-FWD: 2002-2007
	Equinox: 2005-2011	Pursuit: 2005-2007	VUE Hybrid: 2008-2010
	G5: 2007-2010	Regal: 1998-2004	VUE: 2002-2010
	G6: 2005-2010	Regal: 2011	
Engine Electrical	Astra: 2008-2010	L200/LW200: 2000-2005	RELAY: 2005-2008
	AURA: 2007-2010	L300/LW300: 2000-2005	Sky: 2007-2009
	BAS Hybrid: 2007-2010	Malibu Classic: 2008	Solstice: 2006-2009
	Cobalt: 2005-2010	Malibu: 1998-2010	VUE-AWD: 2002-2007
	Equinox: 2005-2010	OUTLOOK: 2007-2010	VUE-FWD: 2002-2007
	G5: 2007-2010	Pursuit: 2005-2007	VUE Hybrid: 2008-2010
	G6: 2005-2010	Regal: 1998-2004	VUE: 2002-2010
	HHR: 2006-2010	RELAY-AWD: 2005-2007	
	ION: 2003-2007	RELAY Ext: 2005-2007	
Body	Astra: 2008	HHR: 2006-2011	RELAY-AWD: 2005-2007
	AURA: 2007-2009	ION: 2003-2007	RELAY Ext: 2005-2007
	BAS Hybrid: 2007-2009	L100: 2000-2002	RELAY: 2005-2007
	Cobalt: 2005-2010	L200/LW200: 2000-2005	Sky: 2007-2009
	Cobalt: 2012	L300/LW300: 2000-2005	Solstice: 2006-2009
	Equinox: 2005-2011	Malibu Classic: 2008	VUE Hybrid: 2008-2010
	G5: 2007-2010	Malibu: 1998-2009	VUE: 2007-2009
	G6: 2005-2009	OUTLOOK: 2007-2009	
HVAC	Cobalt: 2005-2007	Malibu: 1998-2007	VUE-AWD: 2002-2007
	Equinox: 2005-2007	Pursuit: 2005-2007	VUE-FWD: 2002-2007
	G6: 2005-2007	Regal: 1998-2004	VUE Hybrid: 2008-2010
	HHR: 2006-2007	RELAY-AWD: 2005-2007	VUE: 2002-2008
	ION: 2003-2007	RELAY Ext: 2005-2007	VUE: 2004-2010
	L200/LW200: 2003-2005	RELAY: 2005-2007	
	L300/LW300: 2000-2005	Solstice: 2006-2007	
Engine	Captiva: 2012	HHR: 2011	Regal: 2011-2013
	Cobalt: 2012	Malibu: 2011-2012	Verano: 2013
	Equinox: 2011	Orlando: 2013	
Gas Mechanical	L100: 2000-2002	L200/LW200: 2000-2003	L300/LW300: 2000-2005

**KA-3109B Universal Camshaft Sprocket Puller Kit**

- Hold the sprocket and undo the retaining bolt or nut and remove.
- This tool enables the removal of the camshaft sprocket on a wide range of vehicles.
- M10 x 1.5 x 55L (3pcs) + M8 x 1.25 x 50L (3pcs)
- Suitable: 45~100mm

**KA-8410 Belt Tensioner Tool for Mercedes**

- Effectively compresses hydraulic belt tensioner on Mercedes W169 and W245 (alternator with start-stop function).
- 10mm.



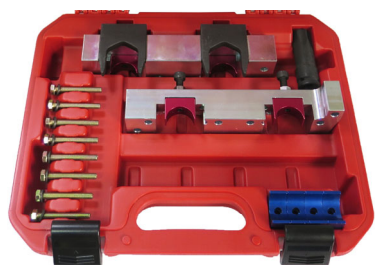
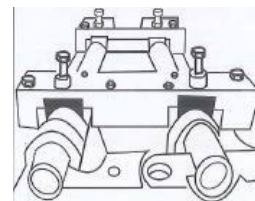
A - Class (W169)		
A 150	169.031, 169.331	2004~2012
A 160	169.031, 169.331	2009~2012
A 170	169.032, 169.332	2004~2012
A 180	169.032, 169.332	2009~2012
A 200	169.033, 169.333	2004~2012
A 200 turbo	169.034, 169.334	2005~2012

B - Class (W245)		
B 150	245.231	2005~2011
B 160	245.231	2009~2011
B 170	245.232, 245.233	2005~2011
B 170 NGT	245.232, 245.233	2008~2011
B 180	245.232, 245.233	2009~2011
B 180 NGT	245.232, 245.233	2008~2011
B 200	245.233	2005~2011
B 200 turbo	245.234	2005~2011



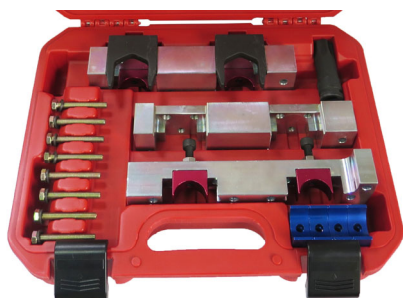
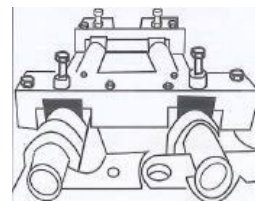
KA-8042 Timing Tool Set for BENZ (M270)

- This holding device makes possible holding down and fixing of the camshaft.
- This makes it possible to slacken and tighten the bolts attaching the camshaft gears.
- Applicable: 1.6L, V4 engine, A class and B class.
- Benz OEM no. 270 589 00 6100.



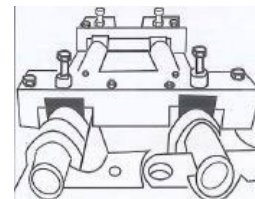
KA-8042A Timing Tool Set For Benz (M274)

- Specially designed to position the camshaft in TDC position.
- Applicable: 1.6L, V4 engine, A class and B class.
New M270, M133, M274 engine.
- MM number: 270 589 01 6100.



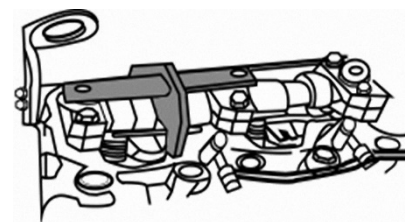
KA-8042B Timing Tool Set For Benz (M270, M274)

- Specially designed to position the camshaft in TDC position.
- Applicable: 1.6L, V4 engine, A class and B class.
OLD/New M270, M133, M274 engine.
- MM number: 270 589 00 6100, 270 589 01 3100



KA-8054 Camshaft Locking Tool For VW

- Great Tool for Checking and Setting the Valve Timing.
- Application: VOLKSWAGEN LT VAN 1997 to 2006 2.8 LITRE.
- ENGINE CODES: AGK 1997~2006,ATA 1999~2006,AUH 2001~2006,BCQ 2002~2006.
- Please follow the OEM Instruction to Lock the Camshaft in its Timed Position.



KA-8061 Timing Belt Tensioner Tool (JTD Multijet)

- Simplified tensioning of the timing belt via the tensioner roller.

Brand	Model	Engine
ALFA ROMEO	145, 146, 147, 156, 159, 166, Brera, Giulietta, GT, Mito, Spider	1.6 JTD, 1.9 JTD, 1.9 JTDM, 2.0 JTD, 2.4 JTD
FIAT	500L, 500X, Brava, Bravo, Croma, Doblo, Ducato, Freemont, Grande Punto, Idea, Marea, Multipla, Punto, Sedici, Stilo	1.6D, 2.0D, 1.9TD, 1.9JTD, 2.0JTD, 2.4TD, 2.4JTD
LANCIA	Delta, Kappa, SW, Lybra, Lybra SW, Musa, Thesis	1.6D, 1.9D, 2.0D, 1.9JTD, 2.4JTD
OPEL	Astra H, Astra J, Cascada, Combo, Insignia, Signum, Vectra C, Zafira B	1.9CDTI, 2.0CDTI
SAAB	9-3, 9-5	1.9TiD / TTiD, 2.0TiD, 2.0TTiD
SUZUKI	SX 4	1.9DDis



KA-8064 Engine Timing Tool Kit For VAG 1.6/2.0 TDI

- An 8 piece kit consisting of the components required to lock the crankshaft, Cam pulley and fuel pump pulley in their timed positions to allow the removal and replacement of the camshaft timing belt
- Application: 1.6 / 2.0 TDi diesel engine.



KA-8065 Combination Timing Tool Set For BMW N47

- This set for installing and removing camshaft & variable camshaft timing unit, also for aligning the balance shaft and crankshaft timing position.
- BM number: 115320, 116480, 118760, 118740, 113340, 114320, 118750, 118790.



KA-5473 Water Pump Sprocket Holding Tool

- For GM Ecotec - Europe
- Holds the timing chain & gear in place while removing or installing water pump on Ecotec Engines.
- Simply remove access plate from front cover and install the tool.
- OEM Ref. EN-43651

Opel / Vauxhall	
Antara	2011~2015
Astra	1998~2015
Omega	1994~2003
Speedster	2001~2006
Vectra	1996~2002
Zafira	1999~2010
Opel GT	2007

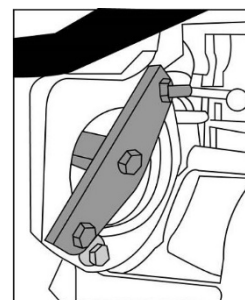
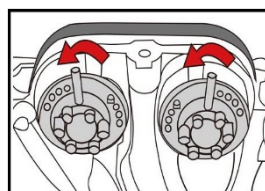
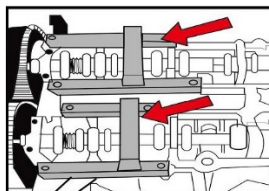
Chevrolet	
Captiva	2013~2015
Impala	2014
Malibu	2013~2015
Orlando	2013~2015

GMV	
Terrain	2013~2015



KA-8091 Timing Tool Set For Ford 1.0 EcoBoost

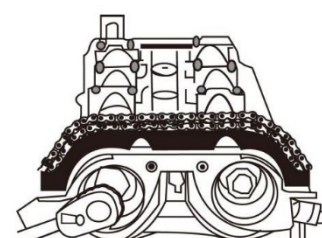
- Specially designed for aligning the engine timing for Ford 1.0 EcoBoost (SCTi) engines.
- Applicable: Ford 1.0 Turbo, 3 Cylinder, EcoBoost (belt in oil) petrol engine.
Fiesta, Ecosport, Focus, B-Max, Transit Courier, Focus, Transit Connect, C-Max, Tourneo Connect, Grand C-Max.
- Engine Code: M1DA, P4JA, XMJA, M1JA, P4JB, XMJB, M2DA, SFJA, M2GA, SFJB.
- FM number: 303-393A, T10115.



KA-8089

Engine Timing Tool (Chain) for Opel, Vauxhall, Chevrolet

- For checking and setting the camshaft and crankshaft in correct TDC position.
- Applicable: Vauxhall, Opel, Chevrolet 1.0. 1.2. 1.4 petrol engine (chain).
- Engine Code:
1.0: Z10XE, Z10XEP, AXEP.
1.2: A12XEL, Z12XE, Z12XEP, A12XER.
1.4: A14XEL, A14XER, LDD/A14XFL, LUJ/A14NET, LUU, Z14XE, Z14XEP, A14NEL.





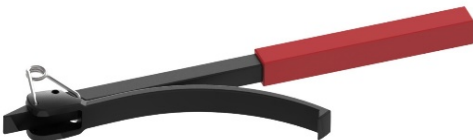
KA-8090 Flywheel Holder And Socket For DURAMAX

- Saves time by locking the flywheel at the transmission instead of having to remove the starter for water pump replacement.
- On 2500 and 3500 pickups, remove metal spring-loaded inspection plate on the bottom of the transmission. Tool should slide into opening toward engine with the top of the tool engaging the teeth of the flywheel.
- On 4500 and 5500 trucks, remove the rubber inspection cap on the bottom of the transmission. Insert the tool at the front of the opening to engage the flywheel and hand tighten bolt to hold tool in place.



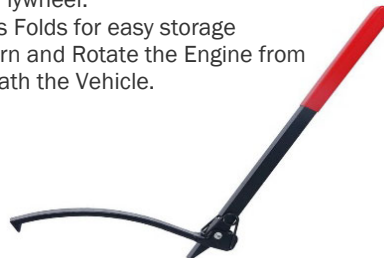
KA-2209A Crank Pulley Bolt Wrench

- It is a set that fixes the crankshaft pulley of SUZUKI, motor and can detach the crankshaft pulley bolt.
- This special tool has been made extremely thin in consideration of the narrowness of the engine room specific to mini vehicles.
- When tightening the crankshaft pulley bolt, a torque wrench can be used, but be careful of the tightening torque value.
- Application:
WAGON R: LA-MH21S / ABA-MH21S / CBA-MH21S, 22S / UA-MH21S
CERVO: CBA-HG21S / DBA-HG21S
MR WAGON: CBA-MF22S, JIMNY: ABA-JB23W



KA-8092 Performance Tool Flywheel Turner

- Spring Tension Stabilizing the Tool on the Flywheel and Flex-Plate, Allowing Free use with Both Hands.
- Stabilize the Flywheel or Flex-Plate when Torqueing the Harmonic Balance Bolts or Flywheel.
- The Tools Folds for easy storage
- Easily Turn and Rotate the Engine from Underneath the Vehicle.

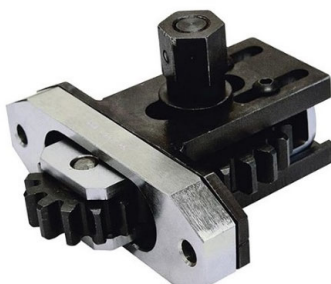


Flywheel



KA-3821A Gear For Engine Flywheel Rotation

- System for dual gear engine flywheel rotation for IVECO timing search
- Engine models: 8040-25-45 / 8060-25-45 / 8460 / 8260 / 8280 / 8210.42 / 190.38 / 190.42
- Specific for Euro Cargo / Cargo Eurotech / Heavyon/ Off Road / Bus
- 2 gears



KA-3821B Gear For Engine Flywheel Rotation

- For dual gear engine flywheel rotation for timing.
- Suitable for IVECO models
- Engine models: 8360.46 / F3A / F3B
- Suitable for Euro Cargo / Cargo 150E27R PR / FPR 320E27T / PT Euro tech / Eurostar models.



KA-8093 Sonic Belt Tension Meter

The sonic belt tension meter is able to measure the vibration of the belt from the microphone in the front. The meter will then use the mathematical calculation to convert the tension from the vibration of the belt, Which is helpful for installation or tuning of any belts.

Features:

- Portable Probe
- 20 sets Frequency Storage
- Maximum Frequency: 600Hz
- Automatically Power-off: The instrument will automatically power off when no operation for 5 minutes.
- User can also make the instrument power off by pressing On/Off switch for 2s.
- Power Source: 2 X AAA Battery



KA-8096 Camshaft Timing Tool Kit

for Jaguar, Land Rover Evoque 2.0T Engine

- KA-8096 is a great tool kit to lock the engine into timed position first and then allow the mechanics to remove/replace the engine timing chain and check the engine!
- To perform the LOCKING correctly, KA-8096 shall be used with a fuel pump locking tool.
- Application:
 - Jaguar F Pace, XE, XF (year 2015 onward)
 - Land Rover Discovery Sport, Range Rover Evoque (year 2015 onward)
- Application for Engine Codes: AJ200, AJ200D, AJ204DT, AJ200DTD.
- Packed in Blow Molded Case.



KA-5546 Timing Belt Tool Kit

- Full Set of Timing Belt Tools for the 4- Cynlinder TDI models with Engine Code CVCA or CRUA (Year 2015)
- A complete tool kit required to properly lock and time the EA288 Engine.
- Application: 2015 JETTA TDI, GOLF TDI, BEETLE TDI, SPORWAGEN TDI & PASSAT TDI.
- Content:
 - 1 PC- Crankshaft Lock
 - 1 PC- Locking Pins for Camshaft Sprocket and HPFP Sprocket
 - 1 PC- Camshaft Sprocket Counter-Holding Tool
 - 1 PC- HPFP Sprocket Counter-Holding Tool
 - 1 PC- Timing Belt Tensioner Locking Pin



KA-5343BZ Belt Tensioner Wrench - for Mercedes

- Design to service the serpentine belt.
- Application: Mercedes Benz: W176 (A Class), W246 (B Class), C/X 117 (CLA class), X156 (GLA Class)
- Engine: M133, M270 (Petrol)



KA-8097 Petrol 1.2 GDI PureTech EB2 Engine Timing Tool Kit

➔ Check belt **without disassembling** the engine! Save Time & Troubles!

Application: PSA , DS , Opel/Vauxhall, Citroën, Peugeot

- A great tool kit let you check the timing belt condition quickly and easily.
- Use this kit to check and determine if you need to replace a belt, no need to disassemble the engine!!
- Fast, Easy, Save Working Time.



KA-8098 Timing Tool Kit for Mercedes-Benz

- KA-8098 aligns the camshaft timing angle to correct position.
- Retaining Tool is included for Securing / Mounting the timing chain to the camshaft sprocket.
- Application: M642 type: 207, 212,218 (Except code 927)
- Packed in Blow Molded Case



KA-8099 Timing Tool Kit

for Mercedes-Benz M152, M157, M276, M278

- KA-8099 aligns the camshaft timing angle to correct position while doing timing jobs.
- Content:
 - Camshaft Position Sensor Reluctor Setting Tool
 - Camshaft Holding Tools
 - Fuel Injector Puller
 - T100 Socket
- Application:
 - M152 Engine:** SLK 55 AMG (R172)
 - M157 Engine:** M Class (164), R Class (251), CLK (209), E Class (211/212), CLS (219), S Class (221), CL Class (216), C class (204)
 - M276 Engine:** E-Class(212/207), S-Class(221), CLS(218), SL-Class(231), M-Class(166), SLK(172), C-Class(204), GLK (204), R Class (251)
 - M278 Engine:** S Class (221), CL Class (216), E Class (212/207), CLS (218), SL Class (231), M Class (166), GL Class (166)



KA-8102 High Pressure Pump Sprocket Remover for Hyundai/Kia

- Removal of high pressure pump.
- OEM Number: 093312A010
- Application:
 - Carens (UN), Ceed (ED), Ceed (JD), Optima (TF), Rio (UB), Soul (AM), Sportage (SL), Sportage (SLE), Venga (YN), Soul (PS), Cee'd JD
 - Engine Code: D 1.1 TCi-U2, D 1.4 TCi-U2, D 1.6 TCi-U2, D 1.7 TCi-U2, 1.6 TCi-U2, 1.4 CRDi U2, 1.6 CRDi U2



KA-4035M Multi Ribbed Belt Mounting Tool

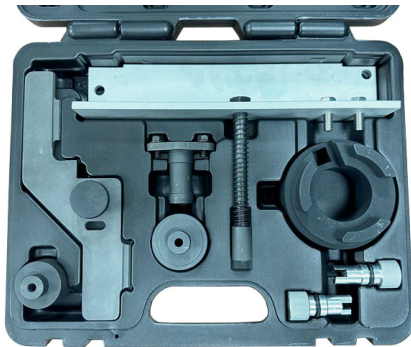
- Install the Flexible Belt without Causing any Damage.
- Rotate the Crank Pulley while Installing Belt to Pulley Groove
- Application: Ford, Mazda, Volvo, BMW, Chrysler, Citroen, Fiat, Lancia ... ETC.

KA-8110 Camshaft Holding Alignment Timing Kit

Crankshaft Damper Holder Balance Shaft Preload tool

VCT Solenoid Seal Installer

- This kit is perfect to use when replacing the timing chain or adjust timing, you can:
- Align and Hold the Camshaft in correct Position
- Hold the Crankshaft Damper
- Install the VCT Solenoid Seal.



Applications:

- OEM No.303-1685 compatible with Ford 2.0L 2.3L EcoBoost from 2019, compatible with Ford Edge 2.3L, compatible with Ford Ranger 2.3L, compatible with Lincoln 2.0L
- OEM No.303-1685 compatible with Ford 6.0L 6.4L diesel engine, compatible with Ford E150 E250 E350 E450 F250 F450 F550 F650/750 with 6.0L 6.4L diesel engine

Content:

Camshaft Alignment Tool / Camshaft Holding Tool / VCT Solenoid Seal Installer
Balance Shaft Preload Tool / Crankshaft Damper Holding Tool

OEM NO.:

Adapter-303-1511-02
Alignment Tool, Camshaft 303-1685
Holding Tool, Camshaft-303-1686
Installer, VCT Solenoid Seal-303-1687
Preload Tool, Balance Shaft-303-1688
Holding Tool, Crank Damper-303-1689

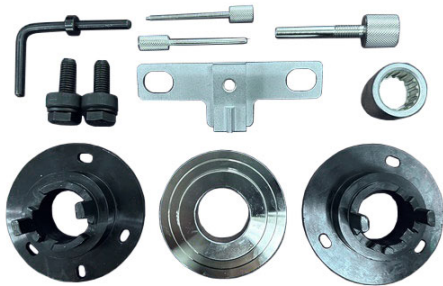
KA-8111 Camshaft Timing Crankshaft Locking Tool

- For Ford latest version 1.0L Ecoboost petrol engine!

Why you need this kit?

The old type engine is oil wetted cam belt drive.

But the latest/newest is chain driven, therefore the timing tool is hence different and specially designed for post -2018 chain driven engine.



Applications:

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

Engine Codes:

B3DA, B3GA, B3GB, B7DA, B7DC, B7JA, B7JB, BZJA, M0DC, M0JA, M0JB

KA-5499 Cam Gear Holder

- Special Universal design to use on single, dual, or quad cam engines to hold valve timing during Diesel Injection Pump belt replacement.
- KA-5499 Lock the engine block or head and the back of the gear in place.

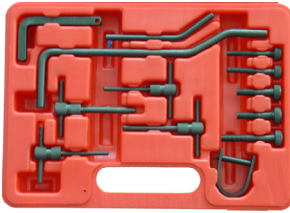




KA-6798 8pcs Ford Diesel Engine Injection Timing Tool

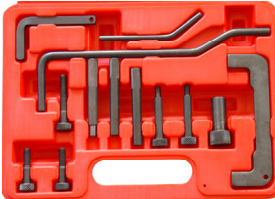
Applications: 1600cc & 1800cc diesel engines fitted to Ford Fiesta, Escort, Orion, P100, Sierra and Mondeo models.

Also suitable for 2500cc DI engines on 1985 and later Ford Transit Vans and Galaxy 1900cc TD vehicles.



KA-7161K 13pcs Rover Diesel Engine Setting/Locking Kit

- Corrosion resistant finish.
- Non-slip grips.
- Applications: Rover model: Metro 1.4LD, 1.4SD, Maestro 2.0D, 2.0D Turbo, Maestro 500/700, Montego 2.0DT, 218SD, 218SLD T, 418 SLD T, 418 GDS T, Sherpa LD200.
- Also suitable for PETROL engines.



KA-7162K 13pcs Euro Diesel Engine Setting / Locking Kit

- Corrosion resistant black finish
- Non-slip grips
- Applications : AUDI, CITROEN, PEUGEOT, VOLKSWAGEN & VOLVO vehicles



KA-8251 Timing Lock Pin Tool

- Holds crankshaft at TDI (top dead centre) when removing and installing toothed timing belt and flywheel/drive plate.
- Use to lock the camshafts for installation of drive belt



KA-8287 2pcs Timing Pins

- For Land Rover TD5 land rover discovery 2.5D 90/110/130 defender 2.5D
- Twin camshaft timing pins for land rover TD5 with chain driven engines
- Engine code no.10P/15P



KA-5134 12pcs Engine Timing Set – land rover

- New EDC manual transmission timing pin.
- 200 TDI 300 TDI & 2.5 diesel engines.
- Combined crankshaft damper puller and fuel pump gear locking tool.



KA-8343

Timing Injection Pump Holder Renault Tools For Renault Clio Megane Laguna Kangoo 1.9 DTI

- Injection pump locking tool for Renault Clio, Megane, Laguna, Kangoo 1.9DTI engines.
- Engine code F9Q 717/731/780



KA-8344 Diesel Engine Timing Locking Tool Kit

This kit can use for PSA2.5, FLAT 2.8D, Iveco, Renault and Vauxhall. Include 2pcs setting pin, 1pc flywheel locking pin and 1pc tensioner retaining tool.

- Also for Citroen/Peugeot, Fiat and Iveco models Traffic(80-00), Master(80-07), Mascot(99-07).
- Fiat, Psa, Renault models Daily(91-05), Turbo daily(94-00).
- Relay/Jumper(01-02), Boxer(00-06).

Tools are used for the accurate setting of the Bosch diesel fuel injection pump timing. The holder screws into the back of the injection pump, giving a dial indicator reading necessary for setting the correct pump timing. This set comes complete with the correct tools for the job.

Contents:

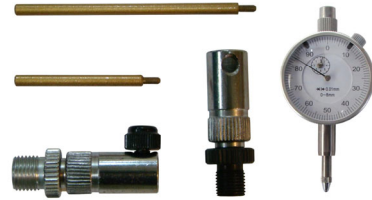
- Metric Dial Indicator, plusholder plus extension pins(2) making the timing easy to set, as the timing has a range from 0.83mm to 1.15mm. For use on VW and Audi diesels.
- Indicator Holder Set – suitable for timing Bosch VE injection pumps. Includes M8, M10 and M12 adapters. To be used in conjunction with Dial gauge.

Applicable : Bosch VE fuel pump, Diesel pumps. Indicator Holder for both size shanks. Also works with 1981-1986 Volvo 6 cyl 2.4L diesels, 1989-1994 Dodge 6 cyl 5.9L diesels.



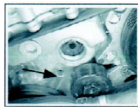
KA-8340 VW 3-IN-1 Bosch VE Fuel Injection Pump Adapter Timing Tool

- Bosch Diesel Injection Pump Timing Indicator Tools
- Dial Indicator and Holder



KA-8340A VW Bosch VE Fuel Injection Pump Adapter Timing Tool

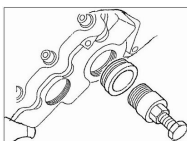
- Bosch Diesel Injection Pump Timing Indicator Tools
- This set has a dial gauge with an 8mm shank.
- Dial Indicator and Holder



KA-8317 Diesel Injection Pump Puller For BMW

This tool is specifically designed for holding the sprocket/chain in place when disassembling the VP44 injection pump and high pressure pump.

- Common rail fitted to BMW engines:
318D/compact(E46), 320D/TD compact(46), 330D(E46), 525D(E39), 525D(E60/E61), 530D(E39), 530D(E60/E61), 535D(E60/E61), 730D(E38), X53.0D(E53)



KA-3656 Diesel Injection Pump Puller for Land Rover

This tool is specifically designed for holding the sprocket/chain in place when disassembling the VP44 injection pump and high pressure pump.

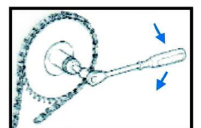
- Common rail fitted to Land Rover engines:
Land Rover / Freelander (TD4) / Rover / 75 (M47)



KA-8285

KA-8286 Puller for Injection Pump Tools Kit for BMW

- Applicable for BMW 4 cylinder diesel engine(M41), 6 cylinder diesel engine- 2,5(M51) also for Opel/Vauxhall Omega 2,5 TD.
- To loosen the injection pump pulley form the shaft when dismantling the injection pump.





KA-5132 Crank Shaft Locking Tool (8V) (For Volkswagen)

- For use on Volkswagen Bora, Golf, Lupo & Polo TDi's



KA-3915 Volkswagen Camshaft Timing Tool Set (8V)

- Lock the camshaft timing when replacing the timing belt or servicing engine parts.
- Application: Volkswagen Bora, Golf, Lupo and Polo TDi's



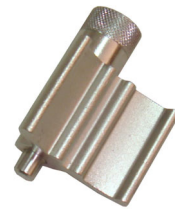
KA-8236 Crankshaft Locking Tool W/ Steel Plate(8V)

Applicable: VW, AUDI, SEAT SKODA 4-YZI. TDI PD engine.



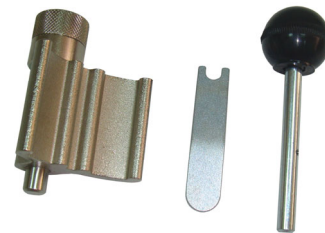
KA-8238 Diesel Engine Locking With Steel Plate(8V)

Applicable: VW, AUDI, SEAT SKODA 4-YZI. TDI PD engine.
To lock injection pump drive pulleys. VW, AUDI, SEAT SKODA 1.9D, SD, SDI, TD, and TDI. To position the camshaft VW, AUDI, SEAT SKODA TDI PD engine.



KA-8249 Crankshaft Locking Tool (16V) (For Volkswagen)

Application: VW-Audi 2.0L TDI engines with OVAL crankshaft timing-belt pulley, e.g. engine code BDK, BKE, BLB, BMA, BMM, BMP, BMR, BNA, BPW, BRE, BRF, BRC, BUZ, BVE etc.



KA-8259 Crankshaft Locking Tool for VW (2.0ST) Set (16V)

For Use on Volkswagen BORA, GOLF, LUPO & TDi's



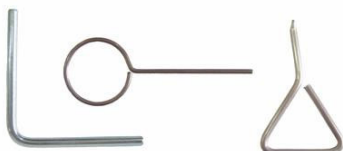
KA-8259B Crankshaft Locking Tool for VW (16V)

Application: VW-Audi, Seat, Skoda 2.0 TDI PD.



KA-8259A Timing Tools VAG 2.0 TDI PD (8V & 16V)

Timing tool Set for VAG 2.0Litre TDI PD DOHC engines fitted to Audi A4, A6 Skoda Octavia II and Volkswagen Golf / Golf Plus / Jetta and Touran models.



KA-8260 Belt Tensioner Locking Pins

For VOLKSWAGEN / AUDI / TDI PD ENGINES

Timing belt tensioner pins-OEM Nos T101 15, T400 11 and Serpentine tension pin-T10060/A

For use on: Lupo. Polo 1.4 TDi PD Golf, Bora, Polo 1.9 TDi PD

Beetle, Sharan 1.9 TDi PD

Passat 1.9 TDi PD

Audi A2 / A3 1.4 / 1.9 TDi PD

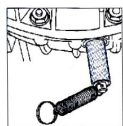
A4 / A6 1.9 TDi

A4 / A6/A8 ALLROAD 2.5 V6 TDi



KA-8229 Diesel Engine Setting / Locking Kit

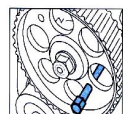
- Anodized finish for corrosion protection.



For vehicles without this type of sump pan, use the flywheel TDC setting tool. Secure the tool to the cell housing with the marker point bent in towards the flywheel timing gear. Align the TDC mark on the flywheel with pointer.



Any other use of these tools than that described in the section above is considered as misuse.

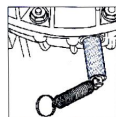


On vehicles from 1998on, the injection pump locking pin is required as part of the procedure. With the TDC set up, pass the locking pin through the hole in the timing pump gear and locate it.



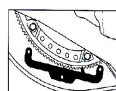
KA-8229A Diesel Engine Setting / Locking Kit – OPEL, Vauxhall

This tool set allows the precise location of the crankshaft in the TDC-Position against the fly-wheel.



TDC-Locking Tool for Crankshaft

- Application: Astra 1,7 D up to '97
- Adjusting Tool for the TDC-Marking on the flywheel.



Locking Pin for Flywheel/Crankshaft

- Application: Astra 1,7 D from '98
- Pin for locking the crankshaft in the TDC-Position.

Locking Tool for Flywheels

- Application: Opel/Vauxhall Diesel-Engines(Isuzu)
- With 1,5 and 1,7 and for Opel/Vauxhall Fuel-Engines(OHC) from 1,2 to 2,0



KA-8214 Diesel Fuel Pump Timing Set

It is made for Resetting The Timing Position On Diesel Engines

Application for following fuel pumps:

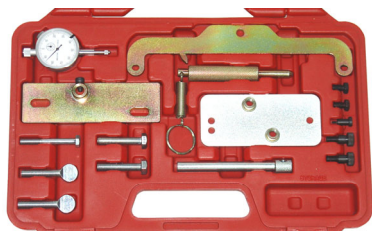
Bosch Ep/VeRotary, Kikki, Nippon Denso, Cav Roto diesel in Alfa Romeo, Audi, Bmw, Daihatsu, Fiat, Ford, Isuzu, Iveco, Lancia, Land Rover, Mazda, Mitsubishi, Nissan, Renault, Rover And Volkswagen.



KA-8214A

Includes:

- locking pin Ø15.5 for VW/Audi
- fixing gauge for VW/Audi/Ford etc
- guide bolt set for front beam



KA-8215 Diesel 1.7 OPEL & ISUZU

- Applicable models: OPEL ENGINES: ASTRA, CAVALIES, VECTRA-A (87-00), ISUZU, NOVA, CORSA/COMBO, ASTRA, CAVALIER, VECTRA, FRONTERA, MONTEREY, MIDI, BRAVA(88-04)
- Engines OPEL:16DA, 17D, 17DR, X17DTL ISUZU:4EC1, 4EE1, 4JB1,4XJ1, 4JA1,4JG2, 4FC1, 4FD1, 4FG1, Z17DT,Y17DT/DTL.



KA-8216 Diesel 1.3 CDTI- OPEL

Applications:

VAUXHALL / OPEL 1.3 CDTI COMMON RAIL.
VAUXHALL / OPEL CORSA, COMBO Z13DT ENGINE.



KA-8218 Diesel 2.0 & 2.4 TDDI-TDCI (chain)

- Models: MONDEO & TRANSIT (01-04)
- Engines 2.0 & 2.4 DURATORQ 16V.
- Codes: FMBA/B, D5BA, ABFA, D3FA, D2FA, D4FA, F4FA.



KA-8243 Diesel Engines 1.5/1.9/2.2/2.5 DCI

- Renault: Clic · Megane, Scenic, Laguna, Espace, Kangoo, Trafic, Master (99-04)
- Engine: 1.5, 1.9, 2.2&2.5DCI.
- Codes: K9K, G9T, G9U.



KA-8324

Diesel Engine Camshaft Locking Tools For VGA/FORD/VOLVO

- The diesel timing kit is a set of essential tools for setting and locking the camshaft and crankshaft when changing the timing belt on Audi Seat Volvo and Volkswagen diesel engines.
- The kit also forms a part of the engine timing & locking and the comprehensive diesel engine and fuel pump timing & locking kit



KA-8333 Timing Tool For Renault 1.5DCI 1.9DCI Engines

Operating instruction: always refer to the maintenance manual supplied by the vehicle manufacturer.

Attention: incorrect engine timing may result in damaged. It is always recommended to turn the engine slowly by hand and check the timing positions of both the camshaft and the crankshaft again.



KA-8405 VAG Engine Timing Tool For 1.2 TFSI

For adjusting the timing e.g. during replacement of the timing chain or during engine repairs. Contains: camshaft locking device, crankshaft setting tool, timing cover alignment pins.

Suitable for

- Audi: A1, A3, A3 Sportback, A3 Cabrio
- Seat: Altea, Altea XL, Ibiza, Ibiza Sportcupé, Leon, Toledo
- Skoda: Fabia, Fabia Combi, Rapid, Oktavia, Oktavia Combi, Rommster, Yeti
- VW: New Beetle, Caddy, Golf, Golf Plus, Golf Cabriolet, Golf Variant, Jetta, Polo, Touran

Engine code

- CBZA, CBZB, CBZC

KA-5482 V-Ribbed Belt Tensioner Tool Set

For Citroen, Peugeot, Fiat, Ford 1.4L & 1.6L Diesel



- KA-5482 is designed to Remove and Install the V-Ribbed Belt on the vehicle in-situ, even in very confined space.
- Enhance the locking and Pre-tensioning of the V-Ribbed Belt Tensioner.
- Application: Citroen, Peugeot, Fiat, Ford 1.4L & 1.6L Diesel Engines:
 - Citroen: Berlingo, C1, C2, C2; C3 Picasso, C3 Pluriel, C4, C4 Picasso, C5, DS3, DS4, Xsara, Xsara Picasso.
 - Peugeot: Partner III, 206, 207, 308, 508, 3008, 5008.
 - Also DV4 & DV6 Engines. - Ford: 1.4-1.6 D
- Packed in White Box.



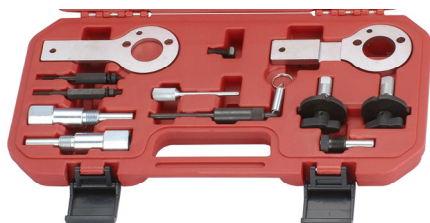
KA-8234 Diesel Engine Setting / Locking Tool Kit

Models: ASTRA, ZAFIRA, VECTRA & SIGNUM(04-)



KA-8280 VAUXHALL/OPEL Timing Tools (Diesel 1.9 CDTI)

- Applicable for Opel 1.9 CDTI diesel engines(Z19DT, Z19DTH) e.g. Opel Vectra, Signum etc.
- To prevent the engine shafts (e.g. camshaft, crankshaft) from turning or to keep them in a specific position and to adjust the timing belt tensioner when changing a timing belt or during other engine repairs.



KA-8281 Engine Timing Tool Set for FIAT & OPEL

This timing tool kit is specifically designed for FIAT chain engines fitted to the very latest VAUXHALL/OPEL 1.3 and 1.9 CDTI models. (2004 ONWARDS)



KA-8368

Setting/Locking Kit Alfa Romeo 1.9 8/16V, 2.4 10/20V JTD

- Applications:
 - Alfa Romeo: 145(98-01), 146(98-01), 146(98-01), 147(01-08), 156(97-08), 159(05-08), 166(98-08), GT(04-08), Brera(05-08)
 - Fiat: Brava(98-02), Bravo(07-09), Croma (05-08), Doblo /Cargo(02-08), Grande Punto (05-08), Idea(04-07), Marea(99-03), Marea Weekend(99-03), Multipla (99-04), Stilo(01-06)
 - Lancia: kappa(98-02), Lybra(99-07), Musa(04-08), Thesis(02-08)
- Engine Codes:
 - Alfa Romeo: 1.9-323.02, 371.01, 182B9.000, 937A2.000, 939A1.000, 939A2.000, 939A7.000, 192A5.000, 192B1.000, 937A4.000, 937A5.000, 939A2.000, 939A8.000, 2.4-325.01, 342.02, 362.02, 839A6.000, 841C.000, 841G.000, 841H.000, 841M.000, 939A3.000
 - Fiat: 192A1.000, 192A3.000, 192A9.000, 199A5.000, 939A1.000, 939A5.000, 939A7.000, 223A7.000, 192A5.000, 939A2.000, 939A8.000, 185A6.000, 939A3.000
 - Lancia: 323.02, 371.01, 188B2.000, 937A2.000, 838A8.000, 839A5.000, 839A6.000, 841C.000, 841G.000, 841H.000



KA-8334 Timing Devices Fiat 1.9 JTD 16V Multijet Engine

This tool is to fit onto the crankshaft pulley to stop the crankshaft rotating. When the tool is secured in position, the first piston stops at the TDC position.

Contents:

- Flywheel locking tool
- Camshaft locking pins. When the plug placed laterally to the valve housings are removed and the pins are inserted into the slots on the camshafts, the camshafts will be locked in the timing position.



KA-8239 AUDI Camshaft Alignment Tool

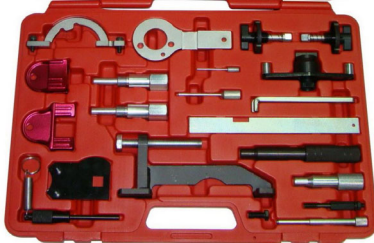
- Holding /Alignment Fixture
- Align and hold camshaft
- Applicable: VW polo Diesel, Audi 100 since 1991, Audi A6 with Z15L TDI engine.



KA-8277 Engine Timing Locking Tool Set FORD/MAZDA

- Designed for pulling off the camshaft timing belt wheel and locking or positioning the engine output shafts such as the camshaft and the crankshaft.
- Required for changing the timing belt or for engine repair.

Applicable for FORD 1.8 D/TD/TDCI diesel and 1.25-2.0 16V Zetec petrol engine e.g FORD Fiesta, Fscore/Oruon, Focus, Puma, Sierra, Modeo, Cougar, Couier/Kombi, P100 and Mazda 121



KA-8278 Engine Timing Tool Set – Opel / Vauxhall

- Changing the timing belt suitable for identical engines in e.g: Saab., Renault...etc
- Locking the camshaft and crankshaft
- Diesel engine 1.3CDTi, 1.6v, 1.9CDTi, 2.0DTi, 2.2DTi

Application for Agila, Combo-C, Corsa, Frontera, Omega, Sintra, Tigra, Vectra, Zaira,
Petrol engine 1.0 12v / 1.2
16V(since 97) 1.4/1.6/1.8/2.0/2.2
16V(since 95)



KA-8270 Engine Timing Tool Set For Professional Engine Repair

Feature:

Petrol Engines:

FIAT Brava, bravo, Barchetta, Cargo, Coupe, Marea, Palio Weekend, Punto, Multipla, Stilo, Idea Doblo Twin Can Genines 1.2 1.4 1.6 1.8 16V

Diesel Engines:

FIAT Barva, Bravo, Marea / Weekend, Palio, Punto. Multipla, Doblo, Ulysse, Ducato, Stili JTD Diese Engines 1.9D / TD 1.9JTD 2.4TD/JTD



KA-8309 Engine Timing Tool Kit

Composed by: 23 adapters 1 tool for variable valve timing rotation 1 tool for TDC.



KA-8320 Engine Timing Tools Set For Alfa Romeo/Fiat/Lancia

Suitable for:

Alfa Romeo vehicle with 1.4, 1.6, 1.8, 2.0, 3.0L 4-and 6-cylinder engine Alfa Romeo 145, 146, 147, 155, 156, 164, 166, GTA, GTV, Spider GT and Fiat/Lancia vehicle with 1.2, 1.4, 1.6, 1.8, 2.0L 4-and 5-cylinder engine. Fiat Panda, Punto, Palio, Siena, Bravo, Brava, Stilo, Marea, Multipla, Barchetta, Coupe, Lancia Dedra, Delta, Kappa, Lydra.



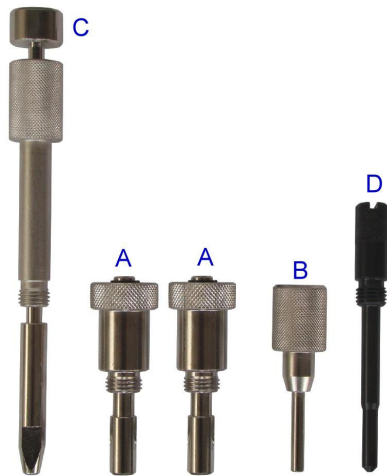
KA-8323 Land Rover/Jaguar Engine Timing Tool Kit

5pcs timing kit consisting of flywheel locking equipment and camshaft timing pins for Land Rover Discovery 2.7 TDV6, Range Rover Sport 2.7 TDV6 and Jaguar S Type TDV6 engines (with automatic and manual tensioners.)

**KA-8327****Diesel Engines Timing Tool Set For Fiat 1.7D/1.7TD 1.9D 1.9TD**

Applicable: Fiat Punto 1.7D/TD Tipo 1.9D/Ducato 1.9D/Tempra 1.9D Tipo 1.9TD/Ducato 1.9TD/Tempra 1.9TD diesel engines with an adjustable camshaft timing belt pulley.

Item No.		Vehicle	Year	Component	Engine Codes	Applicable
KA-8327-17 Diesel Engine Locking Tool Set For Fiat Punto 1.7D/TD		Punto 1.7D Punto 1.7TD	1996-1997	Camshaft Locking Tool-A	176 B3.000 176 A3.000 176 A5.000	Fiat Punto 1.7D/TD diesel engines with an adjustable camshaft timing belt pulley.
KA-8327-19D Diesel Engine Locking Tool Set For Fiat Tipo 1.9D/Ducato 1.9D/Tempra 1.9D		Tipo 1.9D Tempra 1.9D Ducato 1.9D	1987-1998 1987-1998	Camshaft Locking Tool-B	149 B1.000 160 A6.000 160 A7.000 160 D1.000 230 A2.000 230 A3.000 230 A4.000 280 A1.000	Fiat 1.9D/Ducato 1.9D/Tempra 1.9D diesel engines with an adjustable camshaft timing belt pulley.
KA-8327-19TD Diesel Engine Locking Tool Set For Fiat Tipo 1.9TD/Ducato 1.9TD/Tempra 1.9TD		Tipo 1.9TD Tempra 1.9TD		Camshaft Locking Tool-A Camshaft Locking Tool-B 160 A7.000	149 B1.000 160 A6.000 160 D1.000 230 A2.000 230 A3.000 230 A4.000 280 A1.000	Fiat 1.9TD/Ducato 1.9TD/Tempra 1.9TD diesel engines with an adjustable camshaft timing belt pulley.

**KA-8332 Diesel Engine Timing Tool Set For Fiat 2.3 JTD**

This kit includes the latest crankshaft timing pin required from 2006-2008.

The 2.3 JTD twin camshaft common rail diesel engine is belt driven between crankshaft and inlet camshaft but utilizes a chain to connect both camshaft. The high pressure fuel pump does not require timing.

Follow all the manufacturers' specified procedures in preparation to remove the worn or damaged timing belt.

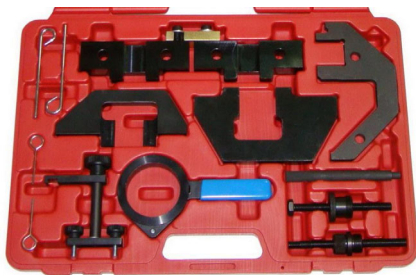
Part	Description
A	Camshaft Timing Pins (2)
B	Camshaft Timing Pins (2005)
C	Camshaft Sprocket Alignment Pin
D	Camshaft Timing Pins (2006)

Manufacturer	Model	Engine Size	Year	Engine Code
Fiat	Ducato	2.3JTD Multijet 120	2002-06	F1 AE0481D, F1AE0481N
Fiat	Ducato	2.3JTD Multijet 120	2006-08	F1 AE0481D, F1AE0482N
Fiat	Ducato	3.0JTD Multijet 160	2006	F1AE0481D

KA-8276 Engine Timing Tool Set For-BMW

This comprehensive set of tools enables the correct timing positions to be achieved on both camshaft and crankshaft whilst replacing the timing belt or chain on both petrol and diesel engines.

- Includes a special wrench for controlled turning of the exhaust camshaft sprocket when removing and installing the VANOS unit
- Includes primary Timing Chain Pre-Load tool for tensioning the timing chain on M50 engines
M22 Threaded for M42/M60 Engines
M26 Threaded for M50/M52 Engines
- This set enables the correct timing to be made when servicing BMW M47 2.0 16 engines.
E46 318D 302D 330D
E39 520D 525D 530D
E38 730D





KA-8364 Timing Belt Tool Set For VW TDI

- Used for locking the camshaft, crankshaft and diesel pump while setting the timing belt.
- Applicable for 1999-2008 VW TDI and pumped use engines.
- Includes new-style cam lock bar.
Both 2 pin spanner wrenches
Both styles of crankshaft stops



KA-8262 Timing Tools

For Ford 1.8 TDDi / TDCi from 2000 to 2006 including Fiesta / Focus / Cmax / Tourneo / Transit with chain driven engines.



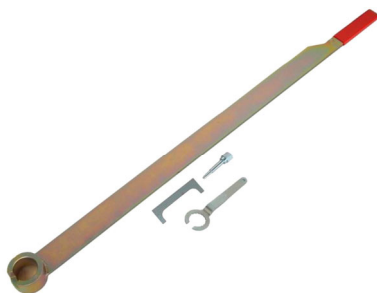
KA-8375 Diesel Engine Setting/Locking Tool Set

- BMW N47/N47S 2.0d Diesel engine in:
1 series: 118d (E81/E87), 120d (E81/E82/E87), 123d (E81/E82/E87)
3 series: 318d (E90/E91), 320d (E90/E91/E92)
5 series: 520d (E60/E61)
X3 2.0d: (E83)
- Contents:
Flywheel locking pin
Camshaft setting plate
Crankshaft turning tool



KA-8375A Diesel Engine Setting/Locking Tool Set

- Kit includes camshaft setting plate, flywheel locking pin and crankshaft turning tool.
- Kit also includes HP pump sprocket retaining tool required during pump removal/replacement.
- **Applications:**
BMW 1 series (2007~2014), BMW 3 series (2007~2014), BMW 5 series (2007~2014)
BMW 7 series (2008~2012), BMW X series (2007~2014), MINI (2010~2014)
- **Engine Codes:**
2.0D:N47 D20 N47 D20A N47 D20B N47 D20D N47 D20K1 N47 D2000 N47 D2001 N47
D20T1 N47 D20U0 N47 D20U1 N47S D20T0 N47T D20 N47T D2001 N47T D20U1
3.0D:N57 D30BT0 N57 D3000 N57 D3001 N57 D30T0 N57 D30T1 N57 D30U0

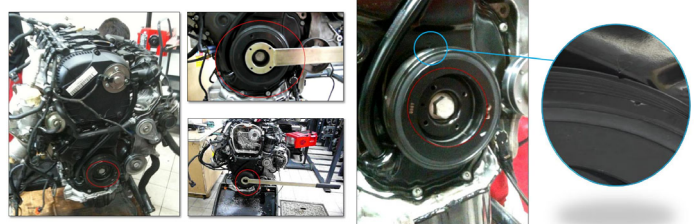


KA-8374 Diesel Engine Setting/Locking Tool Set

- VW GROUP 2.5TDI common rail diesel engines (Belt) in
VOLKSWAGEN LT Crafter
BJJ, BJK, BJL and BJM engines
- Contents:
Crankshaft pulley holding tool
Crankshaft locking pin
Camshaft setting plate
Tensioner adjuster

KA-2095 Counter Hold Tool

- This tool used for stopping the engines crankshaft pulley/vibration damper when center bolt for crankshaft is installation or disassembly.
- 840mm (33") long, with 4 ins, size 5mm with 42mm pin spacing.
- Application: Mainly used for car Audi A3 (2004-up), engine 1.8 liter TFSI (chain drive), also fits Audi A4/A5/Q5 (2009-up), engine 2.0 liter TFSI (chain drive).





KA-8379 Camshaft Clamp Tool Kit



KA-8379A Camshaft Clamp Tool Kit

For locking camshafts when checking and adjusting timing.
For removing and installing camshaft drive gear and eliminating play in gear train.
Application: Transporter T5, Touareg.



KA-8379B Engine Timing Tool Kit For VW 2.5/4.9D/TDI PD

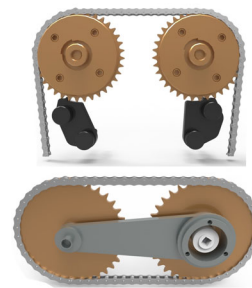
Volkswagen Touareg and Transporter 2.5 TDI PD models with
A new timing tool kit designed for gear driven engines where the injection timing is controlled by the camshaft followers.
This engine is driven by Timing Gears which are more commonly fitted to engines without an overhead Camshaft or on diesel engines. Most gears used for driving camshafts and diesel injection pumps have helical-cut teeth but some applications have spur gears with straight cut or backlash reduction systems.
The service life of the timing gears depends on:
Correct gear backlash
Correct lubrication Timing gears are not normally considered part of the general service and need checking only if they are dismantled or become noisy.

Picture	Part No. / Description	KA-8379	KA-8379A	KA-8379B
	KA-8379-1 Camshaft Clamp Phaeton 2003, Touareg 2003, Transporter 2004, 10-cyl. Diesel in Phaeton and Touareg for 5-cyl. Diesel engine in Touareg and Transporter	•	•	•
	KA-8379-2 Camshaft Clamp Tool Touareg 2003, Phaeton 2003, Transporter 2004, 5 and 10-cyl. Diesel engine		•	•
	KA-8379-3 Crankshaft Clamp Touareg 2003, Transporter 2004, 5-cyl. Diesel engine. For setting engine to cylinder 1 TDC	•	•	•
	KA-8379-4 Camshaft Compensation Gear Pre-Tensing Tool		•	•
	KA-8379-5 Key for Crankshaft To twist or hold against the crankshaft. Required for example when setting the motor shafts to OT or the releasing of the gear mounting screw as at the water pump		•	•
	KA-8379-6 Crankshaft Locking Tool			•
	KA-8379-7 Guide Pin Set			•
	KA-3640 Water Pump Removal Tool Kit – VW T5 & Touareg 2.5D	•		



KA-6122 VAG Engine Timing Tool Set (EA888)

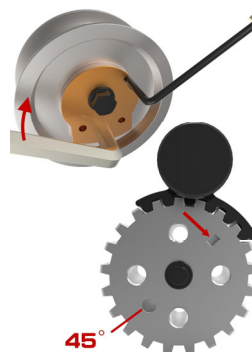
- Use for correct the camshaft and crankshaft timing position.
- Applicable: 2006-2013 VAG series TSI, TFSI EA888 engine (1.8L, 2.0L). CEEA, CGMA, CCZA, CCZB, CCZC, CCZD, CCUA, CAEB, BYJ, BYE, CDAA, CDAB, CDNC, CDAZ, CADA, CPSA



KA-8031

VAG Engine Timing Tool Set (TDI)

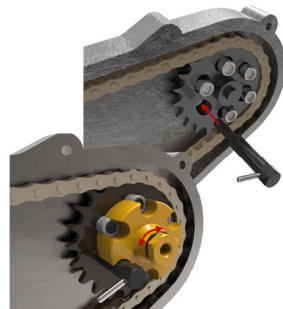
- Special designed set for alignment camshaft locking and adjusting.
- VM number: 1-T20102, 2-T10050, 3-T10100, 4-T40098, 5-T10265, 6-T10264, 7-T10051, 8/9-T10052, -10T10255
- Applicable: Audi, VW, Seat 1.6, 2.0 TDi engine from 2007
- Engine code: FCA, CAAA, CAAB, CAAC, CAYB, CAYC, CAGA, CAHA, CAGB, CAHB, CAGC, CAVA, CBAB, CBAC, CBBB, CBAA, CBDA, CBDC, CBDD, CCHA, CFFB.



KA-8032

Engine Adjustment Tool Set for Audi / VW 2.7I and 3.0I TDI

- Specially designed tool for camshaft locking and adjusting.
- Applicable:
VAG 2.7/3.0 TDi V6, and 4.0/4.2 TDi V8 Chain Drive
Audi: A4, A5, A6, A8, Q5, Q7 diesel engine
VW: Phaeton, Touareg diesel engine.



KA-8033

Diesel Engine Setting Tool and Injection Pump Removal / Installation Kit For Ford Duratorq 2.0, 2.2, 2.4 & 3.2

Contents:

Engine Cover Aligner
Engine Cover / Crankshaft Seal Removal / Installation Tool
High Pressure Pump Sprocket Retaining Tool
H.P. Pump Removal Tool
Flywheel Locking Pin (Gold)
Flywheel Locking Pin (Silver)
Locking Pin Set (3 x Pins)
Tensioner Locking Pin

Applications:

FORD DURATORQ (PUMA)
2.0, 2.2, 2.4 & 3.2L Diesel engines in:

CITROËN Relay Jumper III
FIAT Ducato
FORD Mondeo Transit
JAGUAR X-Type
LAND ROVER Defender
LDV Convoy
PEUGEOT Boxer III

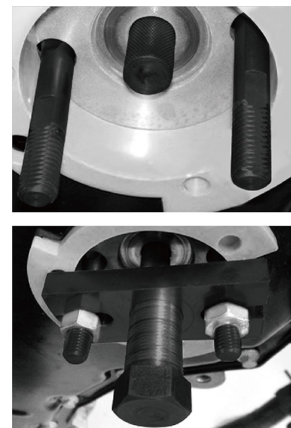
Engine Code:

2.0 Engines – ABFA, D3FA, D5BA, D6BA, F3FA, F5FA, FMBA, HJBA, HJBB, HJBC, HJBE, N7BA, N7BB
2.2 Engines (Chain driven H.P. pump) – QJBA(BG), QJBB, QJBC, QJBD
2.2 Engines (Camshaft driven H.P. pump) – 4HM, 4HU, 4HV, P8FA, P22DTE, QVFA, QWFA
2.4 Engines – 244DT, D0FA, D2FA, D2FB, D4FA, F4FA, FXFA, H9FA, H9FB, HEFA, HFFA, JXFA, PHFA, ZSD 424
3.2 Engines – SAFA (Engine timing only)



**KA-3757****Diesel Pump Sprocket Puller (Ford Transit)**

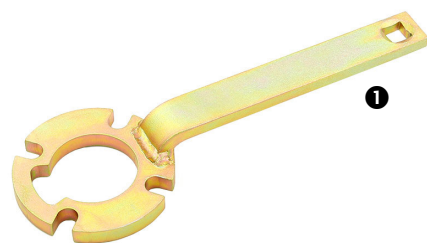
- The threaded holes in the sprocket of the fuel pump have been omitted.
- The new special tool is required to ensure the correct and rapid removal of the fuel pump on 2.2L TDCI (puma) diesel engine in Ford Transit from 2011.
- The special tool consists of two special hooks for holding the sprocket and a compression piece for releasing the fuel pump.
- Suitable for Ford Transit (04/2011~) with 2.2L Duratorq-TDCI (global puma) diesel engine, RWD.

**KA-8045 Diesel Pump Adjustment Tool**

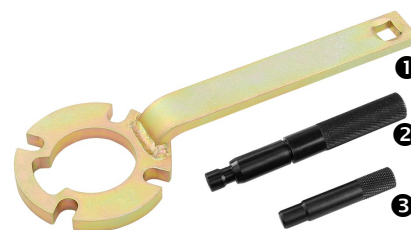
- Secure stand for the pump wheel when assembling and disassembling the high pressure pump exact positioning of the pump wheel no need to disassemble the tooth belt saves work of making further adjustments to the pump.
- Application range: diesel engines F9Q for Opel, Renault and Nissan vehicles.

**KA-8403****Diesel & Petrol Crank Crankshaft Holding Locking Tool For Volvo**

- Used to counter-hold the crankshaft pulley to release and tighten the center bolt.
- Suitable for a wide range of Volvo models and engine sizes.
- Applications: Volvo; C30(06-10), C70(98-10), S40(96-10), S60(00-09), S70(97-07), S80(98-06), V40(96-10), V50(04-10), V70(97-07), XC70(02-07), XC90(02-10)

**KA-5338****KA-5338 Petrol / Diesel Crankshaft Holding Tool for Volvo & Ford**

- Designed to counter-hold the vibration damper while loosening / tightening the crankshaft central screw.
- Suitable for Volvo 1.6, 1.8, 1.9, 2.0, 2.3, 2.4, 2.5, 2.8, 2.9 and Ford 2.5, 4- and 5-cylinder petrol engines; 2.0 and 2.4, 5-cylinder diesel engines.
- Volvo: C30, C70, S40, S60, S70, S80, V40, V50, V60, V70, XC60, XC70, XC90
- Ford: Focus, Galaxy, Kuga, Mondeo, S-MAX

**KA-5338A****Volvo Engine Codes – Petrol**

1.6:	B4164S
1.8:	B4184S
1.9:	B4194T, B4204A, B4204T
2.0:	B5204T3, B5204T4, B5204T5
2.3:	B5234FS, B5234T3, B5234T7, B5234T8, B5234T9
2.4:	B5244S, B5244S2, B5244S4, B5244S5, B5244S7, B5244SG, B5244SG2, B5244T, B5244T2, B5244T3, B5244T5, B5244T7
2.5:	B5254FS, B5254T, B5254T2, B5254T3, B5254T4, B5254T5, B5254T6, B5254T7, B5254T8, B5254T10, B5254T11
2.8:	B6284T/T2
2.9:	B6294S, B6249S2, B6304S3, B6294T

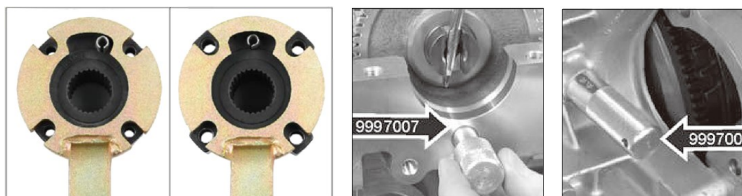
Volvo Engine Codes – Diesel

2.0:	D5204T, D5204T2, D5204T3, D5204T5
2.4:	D5244T, D5244T2, D5244T3, D5244T4, D5244T5, D5244T6, D5244T7, D5244T8, D5244T9, D5244T10, D5244T11, D5244T13, D5244T14, D5244T15, D5244T16, D5244T17, D5244T18, D5244T19

Ford Engine Codes

HUBA, HUWA, HYDA, HYDB, JZDA, LCB

- ❶ Crankshaft Holding Tool
OEM: 9995433
- ❷ Crankshaft Locking Pin
OEM: 9997005
- ❸ Camshaft Locking Pin
OEM: 9997007



KA-8052 Camshaft Holding Tool for 1.3L Diesel 16V

- For counter holding the camshafts during engine timing, setting and adjustment procedures.
- OEM Ref. Fiat 1.871.008.600, Ford 303-1475, Suzuki 09917-68221, Peugeot / Citroen 0104-B.



Manufacturer	Model	Year	Engine
Fiat (JTD)	500 / 500C	07-15	169A1.000 (FD4), 169B1.000, 169A5.000, 188A8.000, 188A9.000, 199A2.000, 199A3.000, 199A9.000, 199B1.000, 199B2.000, 223A9.000, 263A2.000, 263A2.000, 843A2.000
	Panda / Panda Classic	03-11	
	Punto / Punto Classic	03-11	
	Punto Evo	09-12	
	Grande Punto	05-11	
	Qubo	08-13	
	Doblo/Doblo Cargo	04-10	
	Idea	04-11	
	Linea	07-11	
	Fiorino	07-11	
	Strada Pickup	06-13	
Lancia(JTD)	Ypsilon	03-13	(LDV)A13DTC, (LSF)A13DTE, A13DTR, D13A, Y13DT, Y13DTH, Z13DT, Z13DTE, Z13DTH, Z13DTI, Z13DTJ, Z13DTR
	Musa	04-11	
Alfa Romeo(JTD)	MiTo	08-13	
Ford(TDCi)	Ka	09-14	
Opel Vauxhall Holden (CDTi)	Agila / Agila-B	03-10	
	Combo-C / Combo-D	03-13	
	Corsa-C / Corsa-D	03-13	
	Meriva-A / Meriva-B	04-13	
	Astra-H / Astra-J	04-13	
Suzuki (DDiS)	Tigra-B	04-10	
	Swift	04-13	
	Ignis	03-09	
	Wagon R+	03-08	
	Splash	08-11	
Peugot (HDi)	Bipper	10-15	FHZ (F13DTE5)
Citroen (HDi)	Nemo	10-15	

KA-8094 Engine Timing Tool for VAUXHALL/OPEL 1.6 CDi

- This kit provides the essential tools required to set, check and time the main engine components when replacing the camshaft drive chain, cylinder head gasket, timing chain..etc
- In 2013, Opel/Vauxhall launched a new 1.6 ecoFLEX diesel engine that can be serviced with KA-8094 Timing Tool.
- Application: VAUXHALL/OPEL:
Astra-J/ Meriva-B/Mokka/Zafira-C Toure
1.6 CDi ecoFLEX CDTi (2013-2016)

Content:

- 1x Auxiliary Drive Belt Tensioner Locking Pin
- 1x Camshaft Alignment Setting Pin
- 3x Crankshaft Alignment Tool + Screws
- 1x Tensioner Locking Pin
- 3x Camshaft Sprocket Holding Tool + Screw

**KA-8095 Engine Timing Tool for Ford 2.0lit EcoBlue TDCi Engine**

- The Latest Ford 2.0D Ecoblue TDCi engine featuring an innovative "Belt-in Oil" design that let the synchronous drive belt to be located inside the oiled area of the engine.
- Remove and install the timing belt without damage.
- OEM NO.: 303-1637, 303-1650, 303-1643
- Applications:
Ford Transit, Transit Custom and Tourneo Custom with EcoBlue TDCi engines: AWD, FWD, RWD 2016 onwards

Content:

- 1x Flywheel Holding tool
- 1x Crankshaft Alignment Tool
- 1x Timing Belt Installing Cups
- 3x 5mm hex key Wrench





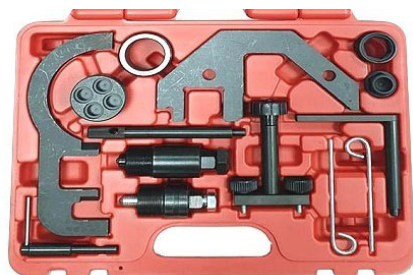
KA-8372D Timing Tool Set (TFSI) for VW, AUDI

- Align the camshafts when adjusting timing.
- For: AUDI A6 2005~, Q5 2.0T, A6L 3.0T.
- For Engine: 6 Cylcle. Petrol direct injection 2.8L 4V Engine, Mechanics.
- OEM Ref: T40133



KA-8372E Timing Tool Set (V6, 3.2FSI) for VW, AUDI

- Align the camshafts locking and adjustment.
- Including a camshaft adjusting socket. (OEM Ref. No. T40058)
- Including 2 camshaft stopping pins.(OEM Ref No: T40071)
- For VAG A4/A6/A8, 3.2 FSI with Engine Auk, A6L/Quattro 2.4 with engine BDW.



KA-8375L Diesel Engine Setting / Locking Kit

- A Must-have Tools for Timing BMW/Mini N47 / N57 1.6, 2.0 And 3.0 Diesel Chain Drive Engines.
- The Kit contains Camshaft Aligning & the Flywheel Locking Tools
- For BMW, Land Rover, Rover & Mg Vehicles Fitted with 2.0 and 3.0 Chain Drive Diesel Engines.

■ Application:

MODEL:

BMW : 118d E87 (04-07), 120d E87 (04-07), 318d / td E46(01-05), 318d / td E90 / 91(05-08), 320d / td E46 (98-05), 325d E90 / 91 / 92 / 93 (02-10), 330d /cd E46 / 90 / 91 / 92 / 93 (99-07), 335d E90 / 91 / 92 (06-11), 520d E39 / E60 / 61 (00-09), 525d/xd E39 / E60 / 61 (00-10), 530d/xd E46 / E60 / 61 (98-10), 535d E60 / 61 (04-10), 635d E63 / 64 (07-10), 730d / Ld E38 / 65 / 66 (98-08), X3 2.0d E83 (03-07), X3 2.0d / E83 (04-07), X3 3.0d/sd E83(03-10), X5 3.0d e53/E70 (00-10)

LAND ROVER: RANGE ROVER TD6(02-06), FREELANDER TD4(00-06), ROVER 75 CDT/CDTI(99-05)

ROVER MG-ZT/T(01-05) VAUXHALL/ OPEL: OMEGA B (01-03)

ENGINE CODE:

BMW : M47, M47T2, M57, M57 TU, M57 T2

Land Rover: 204D3/TD4, 306D1/TD6

Rover/MG: M47R/Vauxhall/ Opel: Y25D



KA-8248

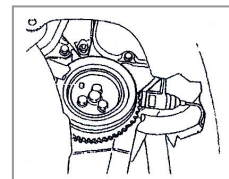
Timing Assortment Fiat Multijet For Fiat 1.3 Mustiest Engines

Applicable: Assortment for HYUNDAI, MAZDA, MITSUBISHI

HYUNDAI: SONATA.

MAZDA: 626, 323, PREMACY

MITSUBISHI: CARISMA, SPACE STAR, SPACE WAGON, GALANT, SIGMA, PAJERO.



KA-8117 Camshaft Timing Angle Checking Tool**For VW Group 1.5L TSi petrol**

The KA-8117 is designed to help users accurately align and verify to set or check engine camshaft timing on Volkswagen Group EA 211 4-cylinder TSi petrol engine, without the need for computer-based alignment tools.

It integrates a battery-powered digital inclinometer along with meticulously crafted adapters and alignment instruments to ensure that the camshaft settings adhere to the manufacturer's specifications.

Application:**Engine codes:** 1.5LT: DADA/DFYA/DHFA/DPCA/DACA/DPBA/DACB/DPBE**AUDI:**

A1.02,03(FROM 2018)
A3(FROM 2017)

SKODA:

KAMIQ (FROM 2019)
KAROQ (FROM 2017)e
KODIAQ (FROM 2019)
OCTAVIA III/IV (FROM 2017)
SCALA (FROM 2019)el
SUPERB III (2017 ~2020)

VOLKSWAGEN:

ARTEON(2018 ~ ~ 2020)
GOLF VII/VIII(FROM 2017)
PASSAT(FROM 2018)
POLO (2017~ 2021)

SEAT:

ARONA(2017~ 2021)
ATECA (FROM 2018)el
IBIZA (2017~ 2021)
LEON(FROM 2018)el
TARRACO (FROM 2019)

KA-8118 Camshaft Timing Angle Checking Tool**For VW Group 1.0L, 1.2L, 1.4L and 1.6L TSi Petrol**

Adaptor Kit to make the KA-8117 engine timing tool for calibrating/setting and checking camshaft timing on early Volkswagen 3 and 4 cylinder TSi petrol engines. Paired with the battery-operated digital inclinometer and mounting bracket included in the KA-8117 tool set, you can use the latest methods to accurately set camshaft timing on earlier versions of the EA211 engine.

- Available on Audi, Seat, Skoda, Volkswagen from 2015.
- Engine applications include 1.0L, 1.2L, 1.4L and 1.6L TSi gasoline engines.
- Engine models: TSi ACT, EA211 3-cylinder and 4-cylinder (without ACT).

KA-8119 Camshaft Timing Angle Check Tool VAS 611007**KA-8117 + KA-8118**

The kit check the camshaft timing of the VW EA 211, 4 cylinder TSi petrol engines. The kit with a battery powered digital inclinometer combined with accurately manufactured adaptors and alignment tooling to ensure the camshafts are set correctly.

- Applications include: Audi (from 2017), Seat (from 2017), Skoda (from 2017) & Volkswagen (from 2017).
- Engine applications include: 1.5L TSi petrol engines -DACA, DACB, DADA, DFYA, DPBA, DPCA & DPBE.



KA-5100TL Timing Light With Tach / Dwell / Volt Tester

- Heavy chrome plated die cast metal housing with protective rubber nose cone
- Works on all 12 V gasoline engines.
- Detachable heavy duty inductive pick-up clamps and leads for easy operation and replacement.
- Bright xenon flash tube provides concentrated light for easy visibility of timing mark

Function (Volt: 0-16V)

Tach:	Dwell:
0-3000 RPM (4 Cylinder)	0-90 Degree (4 Cylinder)
0-2000 RPM (6 Cylinder)	0-60 Degree (6 Cylinder)
0-1500 RPM (8 Cylinder)	0-45 Degree (8 Cylinder)



KA-5100DA Timing Light With Tach / Dwell / Volt Tester

- Professional quality tool works with conventional and distributorless (DIS) ignition systems.
- Heavy chrome plated die cast metal housing with protective rubber nose cone
- Large LED makes readings easy
- Works on all 12 V gasoline engines.
- Detachable heavy duty inductive pick-up clamps and leads for easy operation and replacement.
- Bright xenon flash tube provides concentrated light for easy visibility of timing mark

Function

Advance: 0-60 Degree BTDC	Dwell: 0-99.9%
Tach: 200-10000 RPM	Volt: 0-16V



KA-2300TL Die Cast Metal Timing Light

- Heavy chrome plated die cast metal housing with protective rubber nose cone
- Works on all 12 V gasoline engines.
- Detachable heavy duty inductive pick-up clamps and leads for easy operation and replacement.
- Bright xenon flash tube provides concentrated light for easy visibility of timing mark



KA-2300TA Die Cast Metal Timing Advance Tester

- Heavy chrome plated die cast metal housing with protective rubber nose cone
- Works on all 12 V gasoline engines.
- Detachable heavy duty inductive pick-up clamps and leads for easy operation and replacement.
- Bright xenon flash tube provides concentrated light for easy visibility of timing mark
- Adjustable advance knob with scale reading in direct degrees.
- Neon Double check indicator insures proper hookup or detects faulty flash tube.

Function: Advance : 0-60 Degree BTDC



KA-122TL Inductive Xenon Timing Lights

- Heavy duty inductive pick-up clamps and leads for easy and safe operation
- Bright xenon flash tube provides concentrated light for easy visibility of timing mark.



KA-2000TL Inductive Xenon Timing Lights

- Neon double check indicator insures proper hookup or detects faulty flash tube
- Specific feature or reverse polarity protection
- Heavy duty inductive pick-up clamps and leads for easy and safe operation
- Bright xenon flash tube provides concentrated light for easy visibility of timing mark.



KA-1100TL Self-Powered Dual Light

- Combine Timing Light and Work Light
- Works on all 12 Volt gasoline engines
- Powered by two "D" cells or rechargeable batteries
- LED double check indicator insures proper hookup or detects faulty flash tube.



KA-7302 Timing Light

- Works on all 12 volt gasoline engines.
- High impact abs housing.
- Neon double check indicator insures proper hookup or detects faulty flash tube.
- Detachable heavy duty inductive pick-up clamps and leads for easy operation and replacement.
- Bright neon flash tube provides concentrated light for easy visibility of timing mark.

* Diesel Timing Lights *



KA-3100DAD

Diesel and Gasoline Timing Light with Tach/Dwell/Volt Tester

- Works on all 12V and 24V diesel and gasoline engines.
- High impact ABS housing
- Detachable heavy duty inductive pick-up clamps. Leads and diesel sensor for easy operation and replacement.
- Bright xenon flash tube provides concentrated light for easy visibility of timing mark.



KA-2200DTA Diesel Advance Timing Light

- Works on all 24 volt diesel engines.
- High impact ABS housing
- Detachable heavy duty inductive pick-up clamps. Leads and diesel sensor for easy operation and replacement.
- Bright xenon flash tube provides concentrated light for easy visibility of timing mark
- Adjustable advance knob with scale reading in direct degrees.



KA-001DB Diesel Converter Box

- Fits for all timing lights