

- Front cover made with PVC *Sponge Leather*, backing is TR/BRUSH which does not damage or scratch any surface.
- Top row includes **STRONG magnets**, which attract and stay on any metal surface easily.
- Easy to open and fold into compact size.
- The magnets are removable and replaceable before and after washing the fender cover.



KA-6671B



KA-6671C



KA-6671P



KA-6671NP



KA-6671H

Item No.	description	size
KA-6671B	Magnetic Fender Cover	800 X 600MM (31-1/2" X 23-3/4")
KA-6671C	Magnetic Fender Cover	1080 X 390MM (42-1/2" X 15-3/8")
KA-6671P	Magnetic Fender Cover With Pocket with 4 tool holding pockets	1100 X 560MM (43-1/4" X 22")
KA-6671NP	Magnetic Fender Cover Without Pocket	
KA-6671H	Magnetic Fender Cover	1060 X 590MM (42" X 23-1/4")

Bush Kit



KA-3527-1



KA-3527-2



KA-3528



KA-3528-2



KA-3528-3



KA-3270 Honda Acura Damper Holding Tool
L:590mm

6 Oil Seal Wrenches Set With Socket Adaptors

KA-4020

Contents: (mm)

8 x 10	■	Citroën-Honda-Peugeot-Renault
8 x 3/8	●	Opel-Vauhall
10 x 11	●	Ford-Peugeot/Talbot
12 x 13	●	Fiat-Lancia
14 x 17	●	VW-Audi-BMW-Mercedes
19	●	VW-Golf



KA-4020A

Contents: (mm)

8 x 3/8	■
11 x 12	●
13 x 14	●
5/16 x 3/8	●
8 x 10	●
17 x 12	●

KA-4020B

Contents: (mm)

8 x 9	●
10 x 12	●
14 x 17	●
8 x 10	■
11 x 12	■
3/8" x 13	■



KA-5231 1/4" Dr Adjustable Extension Bar

- 7" - 12"



KA-5232 1/4" Dr Adjustable Extension Bar

- With 1/4" universal joint
- 7" - 12"



KA-7775 1/2" Dr. Floppy Universal Joints

- Made of CR-Mo
- Two Ball design to increase the revolving angles.
- Spring body to prevent the joint stuck due to large angle.



Universal Joint

KA-5233A	1/4"	KA-5233C	1/2"
KA-5233B	3/8"	KA-5233D	3/4"



KA-6556 14/18mm Compressed Air Adaptor

- Compressed air adaptor for 14mm and 18mm spark plug threads - 1/4" BSP female airline coupler.
- Includes 2 adaptors: metric and imperial.
- Use on most engine types.



KA-2475 10pc Tune Up Tool Kit

Contents:

- 1pc terminal pliers
- 1pc feeler gauge
- 2pc spark plug socket (5/8", 3/16")
- 2pcs spark plug rethreader (14mm & 14mm x 18mm)
- 2pc calibrated ignition testers (hei system & standard system)
- 1pc ratchet handle
- 1pc extension bar



KA-6792 Identify A Clips

9 pairs of color-coded clips for marking larger hoses, parts etc, to simplify re-assembly.



KA-6801 Radiator Back Flusher

Fits 1/2", 5/8" & 3/4" (13, 16, 19mm) heater hoses uses compressed air and standard garden hose pressurized air & water cleans cooling systems & heater cores without disassemble solutions.
Keep radiator pressure cap in position to prevent over boosting. Saves costly replacement charge of the most stubbornly clogged heater cores.



Front Axle Shaft Installer

KA-7041A for SUBARU
KA-7041B for FORD



KA-6349 Drive Shaft Boot Changer

- M18 X P1.5 for SUZUKI
- M20 X P1.0 for NISSAN, DAIHATSU
- M20 X P1.75
- M22 X P1.5 for NISSAN, HONDA, MITSUBISHI, ISUZE, DAIHATSU, MAZDA, SUBARU
- M24 X P1.5 for NISSAN, HONDA
- 5/8 X 18 mini
- M19 X P1.5 for TOYOTA
- M20 X P1.5 for NISSAN, MAZDA
- M22 X P1.0 for NISSAN
- M30 X P1.5
- 7/8 X 14 mini



KA-6395 METRIC COLLET
Size: 6 - 8 -10 - 12 -14 -16 mm



KA-6395B IMPERIAL COLLET
Size: 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8"

Dowel Pin Puller Set

Heavy-Duty slide hammer and collets to remove dowel pins from cylinder blocks, crankshafts or any where dowel pins are fitted.



KA-6422 First Motion Shaft Puller

For OPEL and VAUXHALL gear boxes on vehicles with transverse engines.
Contents: 008S SLIDE hammer
097 first motion shaft adaptor
One set of 096 clutch retaining clips



KA-6695K Universal Camshaft Bearing Tool

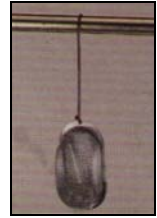
A complete low cost universal camshaft bearing tools set that remove or insert camshaft bearings in nearly all engines from compact cars to heavy trucks. Range from 1.125" to 2.69"(28.58~68.3mm). Easy on bearings, the expander has a neoprene sleeve over which the split driving plugs are mounted and expanded to size. This tool has two sets of rubber sleeves supplied with it for each expanding drive. The brown sleeves are used with driving thin wall bearing (0.065). The black sleeves should be used with driving thick wall bearing (0.090). Full instruction manual and part list is included.
Content: Driving shaft, Driving shaft Extension, Expander Unit, Five Split Driving Plugs, Two Driving Collars, Centering Cone and Blow Molded Case.

Bearing Size I.D.	Expanded Driver #	Used Washer	Sleeve
1.125 to 1.475	6695A	2010-430	2010-410
1.475 to 1.700	6695B	2010-430	2010-120
1.700 to 1.925	6695C	2010-420	2010-140
1.925 to 2.150	6695D	2010-420	2010-160
2.150 to 2.375	6695E	2010-420	2010-180
2.375 to 2.690	6695-100	2010-420	2010-200



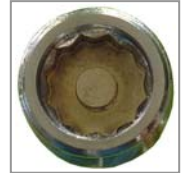
KA-5128 Small Parts Cleaning Basket

- Slide on steel cover, prevents loss of small parts.
- Hanging hook supplied to hold basket in parts cleaner



KA-2450 Transaxle Drain Plug Socket

- 12 PNT 3/8" FOR VW



KA-5064 "Air Holds" For Overhead Valves

Here is a long needed tool to make overhead valve repairs without removing the cylinder head. Set of 14mm and 18mm with 1/4" pipe thread for any quick coupler. It lets air do the work.



KA-6486 Cylinder Head Holders

Sturdy stand holds cylinder heads safely and securely. While you repair cracks, grind seats, clean carbon or perform guide work. There is ample clearance under heads for knurling and reaming valve guides.



KA-5037 Doughnut Stretcher

Removes and installs rubber mounting ring style hangers. Just place the hook of the tool through the rubber-mounting ring. Then pull or push to stretch until you can remove ring from the hook on muffler, pipe or frame. Reverse the procedure to install ring.



KA-6456 Stud Remover & Setter Kit

- Easily removes exposed studs from engine blocks, manifolds and other areas. Maintains threads by screwing proper collet size down on exposed threads.
- Only a few threads need to be exposed for a positive grip.
- To use, simply screw proper collet size onto exposed thread.
- Place housing over collet. Tightening housing bolt clamps collet down on stud. Back off housing for removal. Reverse process to install.
- Size: 14 collets, M6x1.00, M7x1.00, M8x1.00, M8x1.25, M9x1.00, M9x1.25, M10x1.25, M10x1.50, M12x1.25, M12x1.50, M14x1.50, M14x2.00, M16x1.50, M16x2.00.

KA-6492 Universal Master Cylinder Bleeder Kit



- Fits most vehicles using either U.S. or metric fittings.
- Also, may be used to bleed most hydraulic clutch cylinders.
- Aluminum fittings tightly seal both ISO and inverted flair master cylinder ports.
- Check valves stop back flow of fluid, eliminating trapped air in cylinder.
- Red-colored fittings are metric size.
- Blue-colored fittings are imperial size.
- Special gauge identifies thread type and size.
- Clear vinyl hose allows viewing of air bubbles as cylinder is bled.
- Hose clip holds in master cylinder.

Kit includes plastic fittings:

2pcs -3/8"-24	1pc -7/16"-24	1pc -9/16"-18	4pcs -CHECK VALVE ASSE
1pc -9/16"-20	2pcs -1/2"-20	4pcs -M10x1.0	1pc -TUBE HOLDER
2pcs -M10x1.25	1pc -M11x1.5	2pcs -M12x1.0	4pcs -20" URETHANE TUBES
1pc -M12x1.5	1pc -M13x1.5	2pcs -M12x1.0	1pc -THREADE GAUGE

Rocket Set

- This tool enable cups to be installed smoothly without scratching damage o ring cylinders

KA-4432 – 7pcs

KA-4433 – 4pcs



KA-4432



KA-4433

size	KA-4432	KA-4433
9/16" (ø14.4mm – ø16.0mm)	●	●
5/8" (ø15.9mm – ø17.5mm)	●	●
11/16" (ø17.5mm – ø19.1mm)	●	●
13/16" (ø20.7mm – ø22.4mm)	●	●
15/16" (ø24.0mm – ø26.0mm)	●	
1" (ø25.5mm – ø27.5mm)	●	
1 3/16" (ø30.3mm – ø32.3mm)	●	

KA-4189 5pcs Cup Rocket Set (For Truck)

The rocket-like design enabled cup to install in smooth and ease, eliminating damage to the O-ring cylinders.

Applications:



Part no.	Inner diameter	Outer diameter	Size
L44	44.3mm	47.5mm	44.0mm
L47	47.8mm	51.0mm	47.5mm
L50	53.7mm	57.0mm	50.8mm & 53.5mm
L55	55.8mm	59.0mm	55.56mm
L58	59.0mm	62.0mm	58.74mm

Belt Tensioning Adjuster

KA-7319A size: 46mm 1.6, 1.7D, 1.8, (cup to 87') 2.0

KA-7319B size: 41mm 1.2, 1.3, 1.4, 1.6, 1.6D, 1.8 ('87 onwards)



- For gm open engines. Overcomes difficult access.
- Provides high torque without tilt or slip.



KA-5010 Spanner Wrench

Adjustable three-stud design for, GMR – 4 compressors. Also has applications on some GM, Warner Pitts and Ogura clutches.



KA-2722 Toyota Cam Tool/Wrench Spanner

- Universal design fits many different types of pulleys having slots or holes, including camshaft pulleys and crankshaft pulleys.
- Wrench is adjustable from 1-1/4" to 5", works with 1/2" ratchet or breaker bar.



KA-2329 Adjustable Spanner Wrench

- This tool is Ideal for adjusting pillow block bearings.
- Also works well on international model "m" water pump or power takeoff on all.
- Adjustable from 1/2" to 2-3/4"



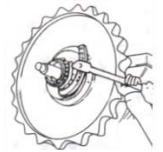
Hook Spanner Wrench

- KA-6853** 3/4"~2"
- KA-6854** 1-1/4"~3"
- KA-6855** 2"~4-3/4"



KA-2330 Adjustable Hook Spanner Wrench

- Needed where turret adjusting nuts or packing gland nuts are used.
- Capacity: 1.1/2" to 4" (38 to 100mm)
- Length: 24" (610mm)



KA-2331 Adjustable Hook Spanner Wrench

- Heavy-duty drop forged jaws adjust to eleven positions for servicing industrial tractors and other equipment.
- Supplied with one jaw 3/8" (9.5mm) thick.
- Capacity: 4.3/4" to 12.3/4" (120 to 325mm)
- Length: 24" (610mm)
- Handle diameter: 1" (25mm)



KA-2332 Adjustable Hook Spanner Wrench

- Heavy-duty drop forged jaws adjust to eleven positions for servicing industrial tractors and other equipment.
- Thick & 1 x 3/4" (19mm) thick
- Capacity: 4.3/4" to 12.3/4" (120 to 325mm)
- Length: 24" (610mm)
- Handle diameter: 1" (25mm)



KA-2333 H/D Adjustable Hook Spanner Wrench

- Heavy-duty double shear design with drop forged jaws which adjusts to eleven positions for servicing industrial tractors and other heavy equipment.
- Supplied with one jaw 3/4" (19mm) thick.
- Capacity: 4.3/4" to 12.3/4" (120 to 325mm)
- Length: 25.3/4" (655mm)
- Handle diameter: 1.5/16"(33mm)



Standard Piston Ring Expander

Replace piston rings without the danger of breakage or distortion. No adjustments needed, expands all ring styles whether square, diagonal or step-cut style.

- | | | | |
|-----------------|-----------------------------|-----------------|----------------------------|
| KA-5058 | 2" ~ 4" (50~100mm) | KA-5058A | 2-3/4" ~ 4-1/4" (70~108mm) |
| KA-5058B | 4-1/2" ~ 7" (115~180mm) | KA-5058C | 3-1/8" ~ 4-3/4" (80~120mm) |
| KA-5058D | 4-3/8" ~ 6-3/8" (110~160mm) | | |



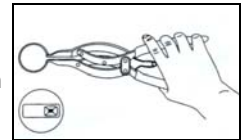
KA-6355 Piston Ring Expanding Device

Universal design for most vehicles. Flat & smooth gripping edge enhances to eliminate damage & breakage of ring.



KA-5076 Parallel Jaw Lock Ring Pliers

- Feature heavy drop forged 10" external action lock ring pliers feature compound leverage action.
- The thin jaws are notched to securely hold snap rings and they open in a parallel plane.
- Ideal for working on automatic transmissions.
- Spread: 1.1/16" (27mm)
- Length: 10" (250mm)



KA-5011 Piston Ring Installer

Save by reducing ring breakage. Tapered jaws to remove and install most passenger car and light truck rings from 3/64" to 1/4" (1.2-6.3mm)



KA-3647 Piston Ring Pliers

- With prism gripper for safe piston ring spreading.
- Special steel.
- Hardened prism gripper.
- Gunmetal finished tips.



KA-6394 Piston Ring Compressor Set

Includes pliers and six bands

Use the pliers with any band to install pistons from 2-7/8" to 4-3/8" in diameter (73mm to 111mm). Self-locking ratchet allow you to compress rings by minute graduation. Pliers can be used vertically or horizontally. Place band around piston, covering rings, hook pliers into band and squeeze. With band tightly around piston, insert piston into cylinder and tap lightly with hammer handle to install.

THERE ARE SIX BANDS:

- | | |
|-------------------------------------|--------------------------------------|
| A. 2-7/8" to 3-1/8" (73mm to 79mm) | B. 3-1/8" to 3-3/8" (79mm to 86mm) |
| C. 3-3/8" to 3-5/8" (86mm to 92mm) | D. 3-5/8" to 3-7/8" (92mm to 98mm) |
| E. 3-7/8" to 4-1/8" (98mm to 105mm) | F. 4-1/8" to 4-3/8" (105mm to 111mm) |

Piston Ring Compressor with Safety Valve

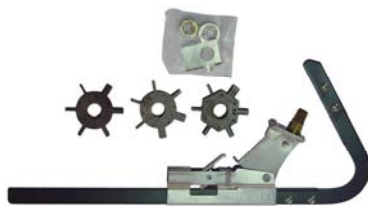


	HIGH	CAPACITY
KA-2033	2" (50mm)	40~80mm
KA-2034	3" (75mm)	53~125mm
KA-2035	4" (100mm)	60~175mm
KA-2036	6" (150mm)	60~175mm
KA-6364A	3-1/4" (83mm)	57~127mm
KA-6364B	3-1/2" (88mm)	53~125mm
KA-6364C	3-1/4" (83mm)	88~178mm
KA-6364D	4" (100mm)	88~178mm
KA-6364E	6-1/2" (165mm)	90~175mm
KA-6364F	6" (150mm)	90~175mm



KA-5008 Ring Groove Cleaner

Comes with two easy-to set cutter wheels for quick cleaning of grooves. Heavy coil spring holds cutter in groove for fast removal of carbon. Tool comes with standard KA-5008A cutter blade sizes: 5/64", 3/32", 1/8", 5/32" and 3/16". Also special KA-5008B cutter blade with size: 1.5mm, 1/6", 1.75mm, 2mm and 1/4" handles pistons 2-3/4" to 5" diameter. KA-5008C adapter plate available for smaller pistons 1" to 2-3/4".



KA-6352 Piston Ring Groove Cleaning

Comes with three easy-to-set cutter wheels for quick cleaning of grooves. Sharp steel cutter removes carbon and vanishes from piston ring grooves. Fits 2" to 5" (51mm to 127mm) diameter pistons. The three six-bladed cutters cover all major piston ring grooves.
 Blades 1 sizes: 1/16", 5/64", 3/32", 1/8", 5/32", 3/16"
 Blades 2 sizes: 2.00mm, 2.50mm, 3.00mm, 4.00mm, 4.50mm, 1/4"
 Blades 3 sizes: 1.20mm, 1.50mm, 1.80mm, 2.80mm, 5.0mm, 5.50mm



KA-3273K Piston Ring Service Tool Set

Contents:

- Piston ring compressor w/safety valve
 KA-2034 H: 3"(53~125mm)
 KA-6364C H: 3-1/2"(90~175mm)
 KA-6364D H: 4"(90~175mm)
- KA-5058 piston ring expander (50~100mm)
- KA-6352 piston ring groove cleaning
 FITS: 2"~5"(51~127mm)
 Blade 1: 1/16~3/16"
 Blade 2: 2.0~4.5mm(1/4")
 Blade 3: 1.2~5.5mm
- Offset screwdrivers: ⊕ ⊖



KA-6686 Piston Pin Tool Installer/ Remover Set

- Combine with 5 to 10 ton shop press to handle piston pins from 0.855" to 1.062".
- Unique anvil with interchangeable inserts directs pressing force to the pin.



KA-5022 Wrinkle Band Piston Ring Compressor

- Low friction: Wrinkle-Band cuts friction in half. Ring slide on easily
- Wrinkle-Band: Can't slip down into cylinder.
- Cam Operated: Set adjustment screw just once for entire set of pistons.
- Faster: Insert a full set of pistons in half the time, with half the work.
- Adjustable band expands from 3" to 5" (76mm to 127mm)



KA-4295 Piston Ring Gap Filer

- Tungsten carbide cutter file.
- Portable rotary filer to file piston rings accurately.
- Be usable for any diameter piston rings.



KA-6799 Engine Tilter

Used to tilt and hold engine forward, allowing access between the engine and the tire wall. Makes servicing much easier on spark plugs, oxygen sensor, ignition coil, etc.



KA-5019 Engine Chain Lift

- For removal of car and light commercial vehicle engines.
- Unique self balancing and securing link lock feature, ensures safe and non-slip lifting.
- Never exceed the maximum load of 450 kg.
- Do not attach ends more than 510mm (20") apart.



KA-5042 Engine Lift

For easy removal of car & truck engines and other heavy unit from chassis, self-balancing and self securing link-lock features, assures safe, non-slip lifting, convenient for lifting processing. Cap. 1-1/2 ton.



KA-4435 Fluid Line Clamper Set

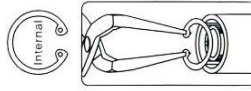
The tools used on disassembling hose that necessary to stop liquid in the hoses that could reduce the damages from liquid leaking to minimum.

MODEL	APPLICABLE HOSE SIZE
KA-4435-1	~ø10mm
KA-4435-2	~ø15mm
KA-4435-3	~ø25mm
KA-4435-4	~ø45mm



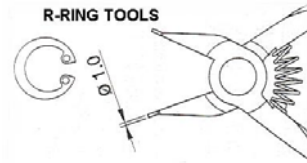
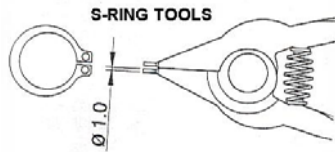
KA-3873 Internal Snap Ring Plier With Long Arm

Jaw: 55mmL



KA-5547 4pcs Mini Snap Ring Pliers Set

For S-Ring & R-Ring tools

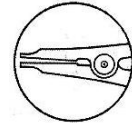


KA-6316 Snap Ring Plier - 10~50mm



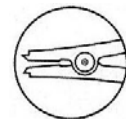
KA-6864 Flat Nose Retaining Ring Plier

- Works on GM output shaft & 425 chain sprocket has addition ring applications.
- Maximum Spread: 1-1/2" (38mm)
- Length: 9-1/4" (235mm)



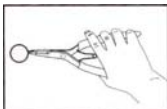
KA-6865 Snap Ring Plier

- Ideal tool for removal & installation of snap-rings with reverse bevel ends, used to locate bearing on shaft of transmissions, differentials, etc...
- Maximum spread: 1-7/16" (36.5mm)
- Length: 8-1/2" (215.9mm)



KA-2327 Straight Tip LOCK Ring Plier

- Features heavy drop forged tips with wider opening for standard transmissions
- Tip: flat, straight, serrated.
- Spread: 1.1/2" (38mm)
- Length: 9" (230mm)

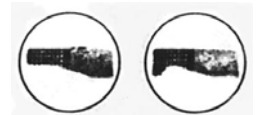


KA-2328 Angle Tip Lock Ring



KA-7035 Heavy-Duty Lock Ring Pliers 13-1/2" Replacement Tip Set

- Serrated angled flat tips with retaining screws.
- Designed for heavy-duty service on external lock rings used in truck and tractor transmissions.
- Replaceable tips.
- Extra leverage from long spring loaded handles.
- Spread: 3" (75mm)
- Length: 14" (355mm)





KA-6528 7" H/D Lock Ring Plier— Bent CRV



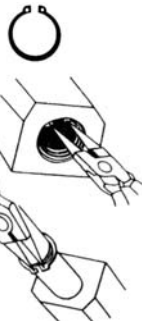
KA-6530 7" H/D Locking Plier— Straight

Straight Nose, Internal Plier

- For hole

KA-7218 10"(230mm), capacity 32 – 80mm

KA-7223 12"(310mm), capacity 85 – 165mm

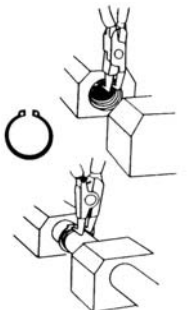


Bent Nose, Internal Plier

- For shaft

KA-7221 10"(230mm), capacity 32 – 80mm

KA-7222 12"(310mm), capacity 85 – 165mm



Straight Nose, External Plier

- For hole

KA-7219 10"(230mm), capacity 32 – 80mm

KA-7225 12"(310mm), capacity 85 – 165mm



Bent Nose, Internal Plier

- For shaft

KA-7220 10"(230mm), capacity 32 – 80mm

KA-7224 12"(310mm), capacity 85 – 165mm



KA-4024 90° Circlip Pliers

For brake calipers and transmission, angled 90°

Length: 190 mm

Length of Flange: 60 mm



KA-4023 30° Circlip Pliers

Suitable for VW-Audi, Mercedes, Opel, etc.

The Tips are angled at 30°, and are very thin with an additional centralised hole in the face of the Tip, which guarantees safe grip on Outer Rings. This is particularly important during repairs to Drive-Shafts/CV Joints, Motors and Transmissions.



KA-7259 Heavy-Duty Combination Snap Ring Pliers

- Remove & install heavy-duty internal snap rings from 2-7/16" to 3-1/2" in diameter.
- Remove & install heavy-duty external snap rings from 1-1/2" to 4" in diameter.
- Including 3 pairs interchangeable points.
 - Sizes: 0.108" diameter, 15° angle
 - 0.108" diameter, 45° angle
 - 0.123" diameter, 45° angle
- Overall length (without tips): 9-1/2"



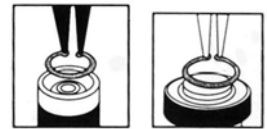
KA-6621 8-IN-1 Free Way Snap Ring Plier Set

For Heavy-Duty motor cycle

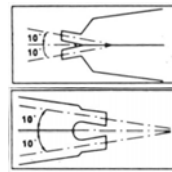
KA-7031 10-1/2" Heavy-Duty Replaceable Tip Circlip Pliers Set

Feature replaceable tips and have a spring ratchet locking mechanism to hold circlip securely against tension.

Offset tips make it easier to facilitate circlip.



Tip	Tip Angle	Qty
108	0°	2
108	15°	2
108	45°	2
108	90°	2
120	0°	2
120	15°	2
120	45°	2
120	90°	2



For external application tips must be toed outward

For internal application tips must be toed inward



KA-7032 16" Internal-External Heavy-Duty Circlip Plier Set

- Features replaceable points and spring ratchet looking mechanism to securely hold against circlip tension.
- Tip Diameter: 0.12" (3mm)
- Spread : 3-1/4" (85mm)



KA-2041 Snap Ring Pliers Set (internal/external)

- Capacity: 12 - 50mm
- Heat-treated CR-MO steel of trips
- Patented seat fixture allows instant replacement between tips.
- Well ergonomic designed grip provides excellent hand-feel and comfortable handling.
- Tip contents: Blackening Ø 1.7mm, straight
Blackening Ø 1.7mm, 70°
Zn plating Ø 1.2mm, straight
Zn plating Ø 1.7mm, 70°



KA-7232K 11pcs Snap Ring Plier Set – internal & external

Contents:

	TIP SIZE		TIP SIZE
5-1/2" BENT	0.38" (1.0mm)	8" STAIGHT	0.70" (1.8mm)
6" STAIGHT	0.38" (1.0mm)	8-1/2" BENT	0.90" (2.3mm)
5-1/2" BENT	0.47" (1.2mm)	9" STAIGHT	0.90" (2.3mm)
6" STAIGHT	0.47" (1.2mm)		
7-1/2" BENT	0.70" (1.8mm)	2PC HOOK & PICK TOOL	



KA-6537K 4-IN-1 E-Ring Tool Set Insert & Release

Insert-Take the "E-Ring" on the wsent side then push it in.
Release- Using the release side push out the "E-Ring" directly.





Release of install headlight springs



Remove small fuses stuck parts



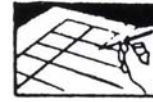
Separate small wires in awkward places



Retrieve lost nuts, bolts washers, tools from tight areas



Remove spring from oil burner relay boxes



For die layouts



Mark your tools



Replacing "o" rings



KA-6419 4pcs Hook and Pick Set

- Straight
- "O" ring 90° tip
- Hook tip
- Combination tip



KA-6419A 6pcs Hook and Pick Set

Each hook or pick fitting is made of hardened steel that is 3" long. Includes a 3 lb. Quick-connect magnet. Knurled steel non-slip-grip handle with removable end-cap holds picks inside when not in use.

Includes:

- Straight Tip
- Hook Tip
- Telescopic Pick Up
- 90 degree Tip
- Combination Tip
- Component Compartment In Handle



KA-6420 5pcs Hook and Pick Set

- Straight Tip
- Hook Tip
- Telescopic Pick Up
- 90 degree Tip
- Combination Tip



KA-6508 O-Ring and Seal Pick

- Both tools easy removal and installation of o-ring and seals
- Can also be used to retrieve small items
- Knurled handle for sure grip



KA-2409 7pcs Universal Hook & Pick Set

- For punching, marking and line-up work
- Ideal for separating wires.
- Removing small fuses, stuck parts
- Pull "R" rings seals cotter pins and brushes quickly and easily
- Remove spring from oil burner relay boxes
- Retrieve lost nuts, bolts washers, tools from tight areas
- Brake spring puller, heavy-duty spring hook
- Heavy-Duty hook and cotter pin extractor



KA-6418 8pcs Mini Pick & Driver Set

- Heat treated. Chrome plated, chrome vanadium steel, shafts with magnetic tips.
- Hooks and picks for use on cotter keys, o-rings, springs, snap rings, washers in auto, shop and workbench.
- Screwdrivers, for use on electric appliances in home, shop and workplace.

Contains: (plastic storage case for easy storage and carry)

- | | |
|----------------|-------------------------|
| Straight pick | 1/8" flat screwdriver |
| 90 degree hook | #0 Phillips screwdriver |
| Full hook | SD-25 star screwdriver |
| Offset 45 hook | SD-20 star screwdriver |



KA-7409 O-Ring Remove Tool

Material: SWPA8C



KA-6675 O-Ring Pick Up Tool

Material: Nylon



KA-4190 12pcs Mini Pick and Hook Set With Magnet

Used in many ways around the vehicle from seals to cotter pin removal, cleaning nooks and crannies, bushing, O-ring removal, alignment, scribing, piercing holes in leather or fabric, etc. The long grip handles provide comfort and control while using, the top magnets increase its multi-purpose.

Set contains 12 different type picks and hooks and packaged in storage pouch.

Material: stainless 304



KA-7227 Seal Puller

- Quick and easily remove O-Ring or grease and oil seal.
- Special angle on the tool head provides a better work than traditional seal pullers.
- 3 different lengths and tips fit nearly all seal applications.
- Simple insert the tool tips, press and pull.
- Length: 165, 117, 150mm

Instruction:

1. For seals, please choose a suitable seal puller from the curved ones.
2. Insert the tip of the tool behind the seal. (Fig. 1)
3. Simply press, turn and pull the tool head. (Fig. 2) The special angle provides a quick work.
4. For O-Ring, please choose the pointed one. (Fig. 3)
5. Insert the tip of O-Ring, simply press and pull to remove the O-Ring.



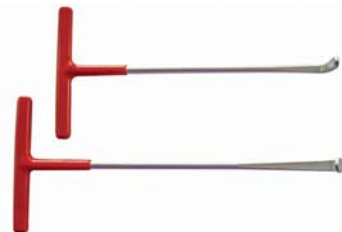
Fig.1



Fig.2



Fig.3



KA-3108K 2pcs Rubber Ring Hook Tool Set

- Special designed to pull the rubber ring which connected with exhaust tube.
- 2 special angle hook attached.





KA-2150 R-134a O-Ring (265pcs/BOX)

- | | | |
|--------------------|---------------------|---------------------|
| 20pcs- 14 x 2 | 20pcs- 12.42 x 1.78 | 10pcs- 10.77 x 2.62 |
| 20pcs- 11 x 2 | 15pcs- 6.8 x 1.9 | 10pcs- 15.54 x 2.62 |
| 20pcs- 8 x 2 | 15pcs- 8.8 x 1.9 | 10pcs- 13.8 x 1.9 |
| 20pcs- 4.8 x 1.5 | 15pcs- 9.8 x 1.9 | 10pcs- 17.17 x 1.78 |
| 20pcs- 7.8 x 1.9 | 10pcs- 10 x 2 | 10pcs- 20.22 x 3.53 |
| 20pcs- 9.25 x 1.78 | 10pcs- 10.82 x 1.78 | 10pcs- 10.95 x 3.5 |



KA-2149 R-134a O-Ring and Spring Lock (100pcs/BOX)

- | | |
|--------------------|------------------------|
| O-RING | SPRING LOCK |
| 20pcs - 7.6 x 1.9 | 5pcs- 0.3 x 3.3 x 41.5 |
| 20pcs - 10.8 x 1.8 | 5pcs- 0.5 x 3.3 x 51.5 |
| 20pcs - 14 x 1.8 | 5pcs- 0.5 x 3.3 x 61.5 |
| 20pcs - 17.1 x 1.8 | 5pcs- 0.5 x 3.3 x 71.5 |

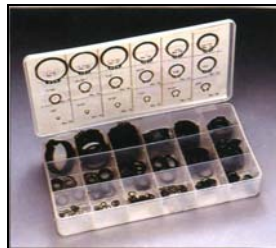


KA-2148 R-134a O-Ring (240pcs/BOX)

- | | |
|--------------------|-------------------|
| 40pcs- 6.07 x 1.78 | 30pcs- 13.7 x 1.9 |
| 40pcs- 8.8 x 1.9 | 30pcs- 15x1.8 |
| 30pcs- 10.6 x 2.4 | 20pcs- 13.8x2.5 |
| 30pcs- 10.9 x 1.9 | 20pcs- 17.3x2.5 |



KA-285 Retaining Ring
285pc, 18 sizes



KA-300 Snap Ring
300pcs, 18 sizes



KA-300E E-Clip
300pcs, 9 sizes



KA-54 O-Ring
54pcs, 18 sizes



O-RING
KA-160M(Metric)
KA-160A(Inch)
160pcs, 18 sizes



O-Ring
KA-225M(Metric)
KA-225A(Inch)
225pcs, 18 sizes



O-Ring Kit
KA-407A (Inch)
KA-419M (Metric)
407/419pcs, 32 sizes



O-Ring Kit
KA-382A (Inch)
KA-382M (Metric)
382pcs, 30 sizes



KA-7489 Ceramic & Steel Seat Remover & Installer



KA-7488 Steel Seal Seat Remover & Installer

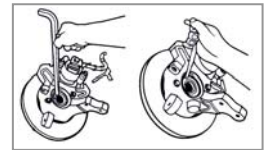


KA-7537 Steel Seal Seat Remover & Installer



KA-2433 2pcs Seal Pullers

- A few hammer taps on tool back transmissions.
- Ideal tools for all seals where shaft cannot easily be removed. Contains one standard puller and one short puller without handle.
- Contents:
 KA-6483, Length: 1/2" (304.8mm)
 KA-2433-02, Length 6" (152.4mm)



KA-3050 Seal Puller

- Heavy-duty, heat-treated steel.
- Easily removes grease and oil seals.
- 2 tips for multiple applications.



KA-3645 Adjustable Seal Puller

- Head adjusts to 5 positions.
- Two hook sizes easily remove most oil and grease seals.
- Where clearance is a problem, remove the pin to reposition the head. The adjustable head works great on front wheel drive transaxles. Also works on front crankshaft seals without removing the radiator.



KA-5003 Automatic Transmission Clutch Spring Compressor

For removing and installing the transmission rear clutch piston snap ring adjustable, for most models of American cars and light trucks applies pressure to the retaining washer in the clutch drum to compress clutch piston return springs, in order to remove or install snap ring during clutch repair or overhaul.





KA-5063 Clutch Service Set

Self-Adjust clutch Rotating.

Replaces self-adjuster mechanism on spacer self-adjust clutches. Permits use of open end or box wrench to make proper clutch adjustment.



KA-3106 17pcs Universal Clutch Aligning Tool Set

Chemically blackened steel components in presentation box.

Aids alignment of clutch plate for assembly.

Applications: Audi, Citroen, Fiat, Ford, Honda, Mazda, Mitsubishi, Nissan, Opel, Peugeot, Renault, Rover, Saab, Toyota, Vauxhall, VW, Volvo.



KA-5060 Truck Clutch Alignment Tools

These truck clutch tools are available in the three most popular sizes: 1-1/2", 1-3/4", and 2" O.D. 10-spline shafts. Each tool is constructed of a lightweight fiberglass-reinforced nylon body that won't hang up in the clutch disc spines. Each tool is designed to provide a perfect fit to the spine of the clutch disc. Easily supports heavy pressure plates.

KA-5060A: Truck clutch alignment shaft. 1 1/2" O.D., 30mm pilot.. Wt., 10 oz...

KA-5060B: Truck clutch alignment shaft. 1 1/2" O.D., 1" pilot. Wt., 10oz.

KA-5060C: Truck clutch alignment shaft. 1 3/4" O.D., 1 1/4" pilot. Wt., 11oz

KA-5060D: Truck clutch alignment shaft. 2" O.D., 1 1/4" pilot. Wt., 13oz

KA-5060E: Truck clutch alignment shaft. 1 3/4" O.D., 1" pilot. Wt., 7oz



KA-5038 Clutch Alignment Tool

Faster, easier replacement of clutches.

Align clutch plates and pilot bearings accurately.

Shaft and bushings provide an accurate fit for eight pilot bearing sizes. Two turned sizes (1" and 1-1/8") fir 90% of the clutch plates and cone handles the rest.



KA-5039 Metric Clutch Alignment Tool

For faster, easier replacement or repair of metric clutches. Tool consists of the shaft, ten pilot bushings and two plate alignment cones with graduated turned diameters for automatic fit of most metric clutch plates. A tapered cone to fit all others is provides.



KA-6484 Universal Clutch Pilot Tool Set (sae & metric)

Accurately machined steel allows for fast and precise alignment of clutch plated to flywheel fits most singled disc clutches on most of the cars and trucks.

- Includes 6 standard two-step sae adapters and 2 black oxide two-step metric adapters.



KA-6696K S.A.E and Metric Clutch Alignment Tool

■ S.A.E clutch alignment tool

Faster, easier replacement of clutches.

Align clutch plates and pilot bearings accurately.

Shaft and bushings provide an accurate fit for eight pilot bearing sizes. Two turned sizes (1" and 1-1/8") fir 90% of the clutch plates and cone handles the rest.

■ Metric clutch alignment tool

For faster, easier replacement or repair of metric clutches. Tool consists of the shaft, ten pilot bushings and two plate alignment cones with graduated turned diameters for automatic fit of most metric clutch plates. A tapered cone to fit all others is provides.



KA-2894 Universal Clutch Aligner Set

- A great kit for alignment and assembly of clutch.
- For vehicles equipped with late-model front wheel drives without pilot bearing in flywheel.
- Size: Small cone: 14.4-21mm
Large cone: 20.9-29 mm



KA-2906 Fan Clutch Holding Tool

- New holder tool for removal and installation of Ford 6.0L PowerStroke Diesel engines from 2003 to present.
- Designed for Fan Clutch removal on 2003 and above Ford 6.0L Powerstroke engines.
- Unique fan clutch wrench grips and securely holds the pulley housing.
- Fan clutch holding tool loosens and removes oval or round hole clutch nut.



KA-1266 Audi / VW Fan Clutch Holding

- Audi & VW fan clutch idler pulley holding tool is a 4 pin wrench design that holds the pulley of the viscous fan clutch.
- This allows the technician to hold the fan clutch with one hand and break the coupling nut loose with the other.
- Its long handle design gives the technician plenty of room to hold the wrench securely.
- 32mm wrench is a perfect match for this fan clutch service.
- AUDI 1996~2001 A6 2.6L V6.
- VW 1998 and Later Passat 3.0L V6.



KA-2993 Self-Adjusting Clutch Assemble Tool

Applicable: For Most SAC Clutch. VW, CMW, MERCEDES, VOLVO, OPEL/VAUXHALL, RENAULT...etc



KA-2993A

Complete Kit For Assembling and Disassembling Self Adjusting Clutches (3 hole pitch)

Suitable for most Self Adjusting Clutches SAC(3 holes) equipped on vehicles of FIAT GROUP, VW-AUDI, BMW, MERCEDES, VOLVO, OPEL, RENAULT etc.

Allows operations on clutch equipped with this device in order to prevent any damage to system and to keep adapter ring in right position.

Advantages :

- Pre-tightening of disk pushing plate during assembly and disassembly avoiding clutch deformation.
- Alignment of clutch disk to drive bearing or to disk pushing plate.



KA-2993B

Complete Kit For Assembling and Disassembling of Self Adjusting Clutches (3 and 4 hole pitch)

Suitable for most Self Adjusting Clutches SAC(4 holes) equipped on vehicles of FIAT GROUP, VW-AUDI, BMW, MERCEDES, VOLVO, OPEL, RENAULT etc.

Allows operations on clutch equipped with this device in order to prevent any damage to system and to keep adapter ring in right position.

Advantages :

- Pre-tightening of disk pushing plate during assembly and disassembly avoiding clutch deformation.
- Alignment of clutch disk to drive bearing or to disk pushing plate.

- Allows the crank seal to be replaced without dismantling the crank case saving your time and costs. Do not worry about scraping the crank surface.
- Ideal for both crankshaft and camshaft seal
- Quick and easy work for both removal and installation work









KA-4194 Crank Seal Remover/Installer Kit

- includes wide size seal installers (28mm to 64mm) Use the existing bolt in the vehicle for installation
- Screw-type adapter to fit the centering
- The blue seal adapters are made of aluminum to prevent the damage of crank
- **Note:** some cam seals have screws to prevent remove. Don't attempt to use this tool by force.

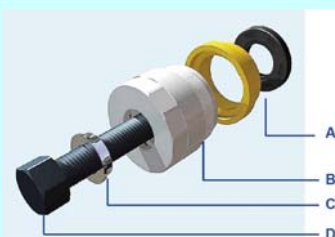


KA-6971K Crankshaft & Camshaft Seal Remover and Installer Kit

- Master kit includes wide size seal installers (28mm to 68mm)
- Provided with 2 seal removers with different length and angle fits wide applications
- Angled blade seal remover is ideal for removing seals in limited space

Instruction	KA-4194	KA-6971K
Remove Seal	<p>Step 1: Select the suitable seal remover provided.</p> <p>Step 2: Insert the puller between seal and wall.</p> <p>Step 3: Screw the bolt of puller and extract the seal</p>  	<p>Select the suitable seal remover provided.</p> <p>Insert the gap between seal and wall.</p> <p>Twist and extract the seal</p>  
Install Seal	<p>Step 1: Select available cap and attachment</p> <p>Step 2: Connect existing crankshaft/camshaft bolt with attachment</p> <p>Step 3: Turn the wrench clockwise and install the seal properly</p>  	

Installation Description



- A: Seal Attachment
- B: Extension caps
- C: Bolt attachment
- D: Camshaft / crankshaft existing bolt

Parts size

	KA-4194	KA-6971K
Bolt Attachment: ID: Ø8, Ø10, Ø12, Ø14, Ø16, Ø18, Ø20	●	●
Length of Extension Caps: 10, 18, 22, 27mm	●	●
Concaved Ø54.5 x Ø24.5	●	●
Adjustable Cap: Min. application length: 33mm Max. application length: 50mm		●
Seal Attachment: OD: Ø 28, Ø34, Ø42, Ø46, Ø49, Ø56, Ø64	●	●
Seal Attachment: OD: Ø48, Ø52, Ø58, Ø60, Ø68		●

- Comparison:**
1. KA-6971K provides an "adjustable" extension cap for many different depth
 2. KA-6971K provides 5 more seal attachment to fit more applications:
48mm: for Audi, VW, Suzuki..etc ; 52mm: Honda, GM, Audi..etc. ; 58mm: Toyota, Honda..etc.
60mm: Toyota, Buick..etc. ; 68 mm: MB, Audi, Nissan, Toyota...etc.

KA-6971KC Crankshaft & Camshaft Seal Installer Kit



- Ideal for both crankshaft and camshaft seal
- Quick and easy work for installation work
- Master kit includes wide size seal installers
- Contents:
 - Bolt Attachment: ID: Ø8, Ø10, Ø12, Ø14, Ø16, Ø18, Ø20
 - Length of Extension Caps: 10, 18, 22, 27mm
 - Concaved Ø54.5 x Ø24.5
 - Adjustable Cap: Min. application length: 33mm
 - Max. application length: 50mm
 - Seal Attachment: OD: Ø 28, Ø34, Ø42, Ø46, Ø48, Ø49, Ø52, Ø56, Ø58, Ø60, Ø64, Ø68

Installation

- Step 1: select available cap and attachment
- Step 2: Connect existing crankshaft/camshaft bolt with attachment
- Step 3: Turn the wrench clockwise and install the seal properly



- A: Seal Attachment
- B: Extension caps
- C: Bolt attachment
- D: Camshaft / crankshaft existing bolt



KA-6972K Master Seal Remover & Soft Hose Pick Set

- Easily remove seals or o-ring or pick soft hoses on vehicle
- Provided with different length and angle fits wide applications
- Angled blade is ideal for removing seals in limited space
- Blade material: SCM 440

	Blade length	Overall length	Description
NO.1	160 mm	285 mm	Angled 110° Steel wing: angled 360°
NO.2	92 mm	20 mm	Angled 100°
NO.3	85 mm	193 mm	Angled 93.5°
NO.4	142 mm	165 mm	
NO.5	100 mm	115mm	
NO.6	67 mm	150mm	



KA-7265 15pcs Clutch Alignment Rectifier

- Universal application or nearly all type of clutch types – FF, FR, 4WD with bearing & FF without bearing.
- Available for manual passengers and small trucks. (below 3500c.c)
- Available for manual transmission system:
 - Nearly all vehicles with single disc.
 - Some vehicles with double disc.
- Not suitable for DSG (double clutch) system.

Specification:

- Spindle thread (M15 x 1.5P): 55, 100, 150mmL
- Small cone adaptor: using range: 19 ~ 30mm
Tail ID: 20mm
- Big cone adaptor: using range: 26 ~35mm
Tail ID: 27mm
- Dual disc adaptor
- Pilot adaptor: Ø 10, 12, 14, 15, 16, 17, 19, 25, 27





KA-3646 Universal Clutch Alignment Set

- Clutch Alignment and assembly.
- The vehicles equipped with late-model front wheel drives without pilot bear in flywheel.
- Size: small cone: range 14.4~21mm
Large cone: range 20.9~29mm



KA-3646A Universal Clutch Alignment Set

For clutch-hub: Ø 15-28mm

As a result of parallel expansion technique it is possible to align the clutch plate to the pilot bearing in the crankshaft flywheel.

Clutch assemblies no longer equipped with a pilot bearing in the crankshaft can be aligned with the cover plate using the new parallel expansion technique.

Advantage:

The expanding segments expand in the same axis of both the tool body and the crankshaft, so that alignment of the clutch plate is possible relative to either flywheel or cover plate.



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-4022

Reaction Wrench For Crankshaft Pulley (German utility model)

For VW-Audi 4 and 5 cylinder engines with and without harmonic damper. To provide a reaction onto the crankshaft front pulley so that the central pulley bolt may be loosened or tightened. Required for timing belt changes, oil-seal replacement and during engine repairs.

Advantage: By using the 2 extension handles, the loosening and tightening of the central crankshaft pulley bolt can be undertaken by a single mechanic.

KA-4021 Hydraulic Cylinder 17t With Shoulder Nut M16 x 1.5

This tool enables controlled, professional and safe extraction of very tight-fitting injection nozzles in conjunction with a special pull spindle, a Injector Nozzle Puller with extraction bridge and a Hydraulic-Pump with manometer.

The Hydraulic-Cylinder with shoulder nut together with a special pull spindle is placed onto the extraction bridge instead of a mechanical drive. The special manometer of the Hydraulic Pumps or ensures that the applied force can be checked during the extraction process.



Maximum allowed force:	170 KN(17t)
Maximum stroke:	±15mm
Hydraulic oil connection:	3/8" - 18 NPT
Transmission bore in tubular piston:	Ø 16.5mm
Cylinder overall height, piston retracted:	89mm
Cylinder overall height, piston extended:	104mm
Cylinder-Ø (outer)	79mm



KA-6396 Universal Clutch Aligning Tool

Special design aligns and assembles clutch on the workbench for easy installation. Suit for front wheel drivers that have no pilot bearing in flywheel. Designed for most vehicles up to 5 tons with single plate clutches.

INSTRUCTIONS:

Thread the funnel wheel onto the center body, with ribs facing the same direction as those on the fixed wheel that is the smooth side of the wheel facing away from the fixed wheel. Select the suitable collet, depending on clutch size, and slide onto center shaft. Insert center shaft and collet through center body, and thread small wheel onto the end of the shaft.



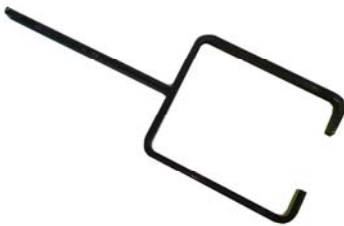
KA-1321K Clutch-Centering Mandrel Set

- For fast and exact clutch plate centering on vehicles with clutch guide bearing
- For passenger cars and small commercial vehicles
- Infinitely variable
- Special steel
- Contents: KA-1321A size: Ø20 – Ø 26.6mm
KA-1321B size: Ø15 – Ø 19mm



KA-6337 Clutch Adjusting Wrench

For internal adjustment of spider angle-spring and multiple lever clutch. Eliminates the need for pry bars that could damage clutch parts.



KA-6351 Clutch Release Tool

Permits removal of the shipping blocks from between clutch housing and release bearing.



KA-6694K Clutch Service Set

An ideal companion set to the clutch handler, this set lets you perform a variety of clutch and flywheel service jobs on Spicer-Built heavy-duty cast and angle-spring clutches. Nine different tools ideal for everything from clutch installation and removal such as installing new drive pins in the flywheel, proper adjustment of manual and self-adjusting clutches. Carrying/ storage case included.

Item No.	Description
KA-6694A	Self-adjust clutch rotating tool rotates adjusting ring.
KA-6694B	Flywheel drive pin installing tool. Properly aligns and installs drive pins in 14" heavy-duty truck pot-typ3 flywheel.
KA-6694C	Clutch release tool. Removes shipping blocks from between clutch housing and release bearing.
KA-6694D	Adjusting wrench. For internal adjustment of multiple lever and angle spring clutches.
KA-6694E	Clutch alignment tool 1-3/4" O.D. provides perfect fit to spline of clutch disc.
KA-6694F	Clutch alignment tool. 2" O.D. provides perfect fit to spline of clutch disc
KA-6694G	Pair of 3/8" flywheel to clutch guide pins
KA-6694H	Pair of 7/16" flywheel to clutch guide pins.
KA-6694I	Hex key wrench



KA-3009 Ford Hydraulic Clutch Quick Disconnect Tool

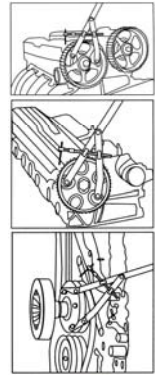
Used to release fingers that hold clutch line to the clutch sleeve cylinders. It works on hard-to-reach coupling found on Ford light-duty trucks, Bronco II, Ranger, Explorer, 1989 to current Thunderbird and Cougar with hydraulic clutch.



KA-4441



KA-5120



Universal Pulley Holder & Fan Clutch Set

- This set is designed to removes and installs fan clutch & hold the camshaft pulley.
- Use for most of the cars.
- Contents with different tap to fit any cars and pin width can adjust.
- Can adjust different width from 40m/m to 220m/m.
- Size available: $\varnothing 6m/m - \varnothing 10m/m$, $\varnothing 8m/m - \varnothing 11m/m$
 $\varnothing 10m/m - \varnothing 12m/m$, $\varnothing 11m/m - \varnothing 16m/m$



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-3018B 1/2" Dr. 10pc Fan Clutch Wrench Set

- (1) Fan pulley holding tool 2-1/4" (57mm)
- (2) Fan clutch bolt holding tool 2-3/8" (60mm)
- (3) Fan clutch puller holding tool 2-1/8" (54mm)
- (4) Fan clutch puller holding tool 3-1/4" (82mm)
- (5) Fan clutch puller holding tool 3" (76mm)
- (6) Fan hub wrench 2-13/16" (72mm)
- (7) Fan clutch nut wrench 1-7/16" (36mm)
- (8) Fan clutch wrench 1-7/16" (36mm)
- (9) Fan clutch wrench 1-9/16" (39mm)
- (10) Clutch nut wrench left hand 1-7/8" (47mm)



KA-3018A 1/2" Dr. 4pcs Fan Clutch Wrench Set For Ford

- A. 58mm B. 3-1/4" C. 1-7/8" D. 36mm (1-9/16")



KA-3018C 1/2" Dr. 6pcs Fan Clutch Wrench Set

- A. 36~48mm B. 40mm C. 68~76mm
D. 58~83mm E. 60mm F. 54~72mm

KA-9001K 4pcs Fan Hub Wrench Set

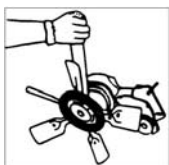
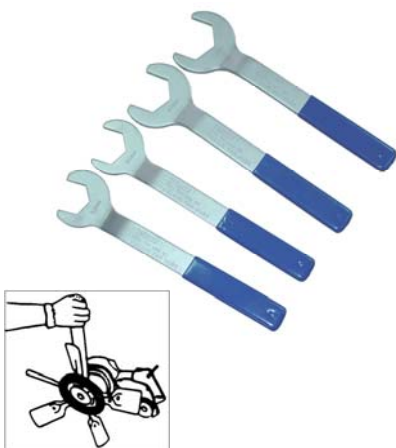
- For removal of thermo, viscous fan hubs. Cranked for easy access.

KA-9001 size: 32mm, open end x 270mm
For BMW 316i, 520i, 525i, 530i, 535i, 730i, & 735i CAPRI, SIERRA GRANADA 2.0 & 2.8, FORD TRANSIT 2.0 1986-90. (with viscous fan) LCx2.0, LCT 2.0, 2.5 DIESEL 1980-90. LCx2.5D & LCY 2.5D

KA-9002 size: 36mm, open end x 270mm
For FORD, GRANADA 2.4 & 2.9, GM CARLTON, MOANTA & SENATOR.

KA-9001K-41 size: 41mm, open end x 270mm
For twisting the water pump on OPEL and GM when tightening the belt on OHC-engines.

KA-9001K-46 size: 46 mm, open end x 270mm
For twisting the water pump on OPEL and GM when tightening the belt on OHC-engines.



KA-2116 2 Way Viscous Fan Spanners

- For the removal of thermo-viscous fans on BMW, FORD, OPEL & VAUXHALL VEHICLES
- Size: 32mm and 36mm
- L: 13" (330mm)



KA-6956 Fan Belt Service Wrench

- This universal tool has been designed to service Mercedes BENZ, Nissan Quest, mercury villager radiator fans and pulley belts. The three in-one design allows servicing three separate areas of repair, all of which require a specialty tool due to their confined locations.
- This special wrench can be used for loosening the A/C idler pulley tensioner lock-nut for A/C belt adjustment or replacement.
- 8m/m & 10m/m bit included.



Viscous Fan Hub Spanner

For removal of thermo, Viscous fan hubs. Cranked for easy access.

KA-9001A – Size: 32mm

- Application: BMW 316i, 520i, 525i, 530i, 535i, 730i, 735i
 FORD CAPRI, SIERRA GRANADA 2.0 & 2.8
 FORD TRANSIT 2.0 1986-90.(with viscous fan)
 LCX 2.0, LCT 2.0, 2.5 DIESEL 1980-90, LCX 2.5D & LCY 2.5D



KA-9002A – Size: 36mm

- Application: FORD, GRANADA 2.4 & 2.9.
 GM CARLTON, MOANTA & SENATOR. MERCEDES BENZ



KA-6480 Reaction Wrench With 3 Holes

Required to remove the radiator fan hub, the reaction spanner is bolted to the front face of the hub. The POLY-V belt is not in place and not be used to lock the hub.

- Application: Mercedes engine M111 (4-cylinder 4-valve; C-class, E-class)
- Length: 410mm



KA-6481 Single-Ended Open Wrench 65mm

Special open-ended spanner to allow removal and replacement of the radiator fan hub.

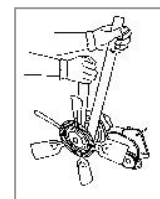
- Application: Mercedes engines M1.3(6-cylinder), M104(6-cylinder 4-valve), M119(8-cylinder 4valve), M120(12-cylinder 4-valve)
- Length: 400mm



KA-7185 BMW Pulley Holder

Needed for securing water pump hub from rotating during R&R of fan clutch nut.

- Applicable engine: M10, M20, M30, M50, M70, M42, M60



KA-6487 Holding Tool

To allow removal of the visco-coupling on the cooling fan.

Application: on Mercedes engines.



KA-4449 BENZ & BMW Fan Service Wrench Kit

Contents:

- KA-6487 Holding Tool
- KA-6480 Reaction Wrench With 3 Holes
- KA-6481 Single Ended Open Wrench 65mm
- KA-6956 Fan Belt Service Wrench
- KA-7185 BMW Pulley Holder
- KA-9001A 32mm Viscous Fan Hub Spanner
- KA-9002A 36mm Viscous Fan Hub Spanner



KA-5044 Serpentine Belt Servicing Tool Set

- with 1/2" sq. drive adapter

Replacement sockets: KA-5044A 13mm Socket
KA-5044C 16mm Socket

KA-5044B 15mm Socket
KA-5044D 18mm Socket



KA-6550K Serpentine Belt Tool

Tool is used to release tension On serpentine belt self-adjusting Idler pulleys and push or Pull to release tension. Belt tool

Includes :

Description	Use on
3/8" Driver Bar for socket and crowfoot wrenches	Ford 1.9 and 2.3L; GM 3.1L
1/2" Square Driver Bar	Chrysler 2.5 and 3.0L; Ford 4.6L
3/8" Drive 6 point 15mm socket	Ford 3.0 and 3.8L; Chrysler 3.0, 3.3 and 3.8L; GM 2.2, 2.8, 3.8 and 4.0L
3/8" Drive 6 point 16mm socket	Ford 3.8 and 4.0L
3/8" Drive 6 point 18mm socket	GM 3800
3/8" Drive 13mm Crowfoot wrench	GM Quad Four Engine
3/8" Drive 14mm Crowfoot wrench	Saturn Engine
3/8" Drive 15mm Crowfoot wrench	Ford Windstar with 3.8L engine



KA-3878 Serpentine Belt Tool

Additional sockets and extension expand application to cover most domestic models. Used to remove and install belts on serpentine systems using spring loaded idler pulley. Fits pulleys requiring 13, 14, 15, 16 and 18mm hex, and both 3/8" and 1/2" square drive sizes. Two extensions can be bolted on for hard to reach areas.



KA-3879 Serpentine Belt Tool

Applications:

- 3/8" Drive 13mm crowfoot wrench GM Quad Four Engine
- 3/8" Drive 14mm crowfoot wrench Saturn Engine
- 3/8" Drive 15mm crowfoot wrench Ford Windstar with 3.8L Engine
- 13mm Socket (on handle)-Late model GM Quad Four Engine
- 14mm Socket-1.9 Liter Saturn
- 15mm Socket-Some GM and Chrysler
- 16mm Socket-Ford 3.8 L & 4.0 L
- 18mm Socket - GM 3800 Engine
- 3/8" Square Drive Socket - 3.1 Liter GM
- 1/2" Square Drive Socket - Late Model GM and Ford
- Short Extension - Allows easier access on some Fords



KA-4448 Serpentine Belt Ratchet Wrench Kit

Service approximately 90% of all vehicles equipped with spring-loaded serpentine belt tensioners.

- For use when servicing serpentine drive belts or any belt-driven accessories.
- Specifically designed to fit into tight areas.
- Ratcheting action allows quick an easy positioning of wrench driving end for tensioner access from any angle.
- Heat treated and nickel chrome plated for strength, durability, and appearance.
- Ratchet wrench 15mmx21TxL:450mm (17-5/8")
- Sockets: 15x18mm, 15x5/8", 15x14mm, 15x13mm
- Adaptor: 15x1/2", 15x3/8"



KA-7658 Serpentine Belt Servicing Tool Set

- Combines the patented innovation of gear Wrench with the requirements of the Serpention Belt removal tool to provide the user with the best possible combination.
- Provides coverage for all major vehicles with serpentine belt configuration.
- The versatility and strength of the Gear Wrench allows for unlimited access to serpentine pulley tension arms with added attachments for unlimited coverage.
- Size: 24mm, 18mm, 17mm, 14mm, 13mm, 12mm, 8mm, 5/8", 1/2", 3/8"



KA-7812 Double Offset Ratchet Wrench

- 8mm x 12PT x 12mm x 12PT x 300mm long.
- For installation and removal of glow plugs of diesel engines of RENAULT, VW, AUDI
- For glow plugs between the motor unit and the diesel injection pump
- Heads with hexagon profile.
- S 8mm for operation of conductor rail screws with limit stop to guide the 8mm nut.
- S 12mm for the operation of glow plug



Ratcheting Wrench – Box End

- Special design with T-Handle
- Especially for confined area with restricted access.
- Extra-Long design.
- Pivoting / Swivel > 90 °



KA-2803A	10mm	Length: 395mm	Weight: 240g
KA-2803B	12mm	Length: 405mm	Weight: 280g
KA-2803C	13mm	Length: 405mm	Weight: 280g
KA-2803D	14mm	Length: 405mm	Weight: 280g



KA-3644 Import Serpentine Belt Wrench

- Designed to release the tension on spring-loaded idler pulleys.
- Allow direct access to the tensioner without having to remove engine accessories or frame components.
- Ratcheting wheels allow easy positioning of the wrench to allow access the tensioner from any angle.
- Rotate the drive end to match the position of serpentine belt tensioner.
- Heat treated and nickel chrome plated for durability, appearance and long tool life.

13mm or 1/2"	Hex	Volkswagen 2.0 liter
17mm	Hex	Audi 2.2, 2.8 liter; Mercedes
19mm or 3/4"	Hex	Mercedes
1/2"	Square	Volvo 2.3, 2.4, 2.8, 2.9 liter



KA-3280 Rear Bush Installation Tool

- Suitable for in-situ installation of rear axle mounting bushes on selected VW and AUDI vehicles.
- Use with ratchet wrench or spanner to insert composite bushes.
- Applications: AUDI A3, VW BORA and GOLF IV.



KA-2120 2-IN-1 Disconnect Tool

Reach and disconnect the clutch line from the slave cylinder during clutch master cylinder, slave cylinder, or clutch assembly service.

STRAIGHT END is for manual transmission: 1993-94 chevy lumina; 1993 and newer chev. Cavalier, Pontiac sunbird and grand prix, olds clutlass superme, and buick regal; and 1995 and newer Chevrolet monte carlo.

BENT END is for 2wd and 4wd vehicles with nv3500 manual transmissions: 1996 and newer full size 2wd and 4wd trucks, s-10s, and s-5 blazers.jimmys.



KA-7368 Straight Edge

- Great stability with 5/8" width, 1-3/8" height and 20-1/2" length. Convenient hanging hole and edge protector.
- Use with feeler gauges to check for distortion in engine blocks, cylinder heads and flywheels.



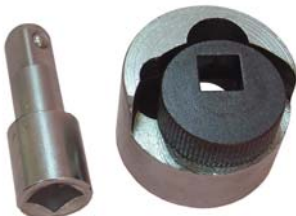
KA-6822 Cylinder Ridge Remover

Reversible tungsten carbide blade range 76mm 127mm



KA-6447 Front Shock Absorber Tool Set

This tool is designed to remove and install front shock absorbers on domestic cars. Includes two sizes of oval piston-end sockets, and a convenient 3/8" square drive wrench. The 9/16" hex socket is used to loosen or tighten the hex nut on the socket, use 3/4" open-end wrench. Instruction included.



KA-6398 Stud Remover

Made of heat treated high grade Alloy Steel to loosen hard to turn studs. Compact and powerful. The tighter the stud, the tighter the grip. Capacity from 1/4" to 3/4" (6.35 ~ 20mm) diameter.



KA-5210 Carburetor Adjusting Tool

For adjusting idle/Mixture screws on GM and Chrysler. Heavy-duty flexible shaft for easy access. Four adapters conveniently store in the comfortable handle.

KA-5210-PART-A 4.5mm hex for 78 and 79 GM

KA-5210-PART-B 1/4" hex for pre-78 GM

KA-5210-PART-C 3/32" hex for 78 thru present Chrysler, 1.7L-2.2L engines.

KA-5210-PART-D Double "D" for GM 79 thru present.



KA-3201 Expandable Handle Rod

- Size:68.5-161.5cm
- Dia:15.8mmx19mmx22.2mm



KA-6309 Deluxe Multi-Use Siphon Pump

Feature

- Multi-use for transfer air & liquid.
- Easy operation and rapidly transferring.



KA-3272 Fuel Injector Nozzle Puller



KA-5050 Transmission Cooler Line and Fuel Line Quick Disconnect Tool

Removes push lock connectors found at both the radiator and transmission. Used on 1983 through current Ford, and the 1982 Lincoln Continental overdrive transmissions. Tool slides down transmission cooler spread the plastic clip apart for easy removal.



KA-6406 Disconnect Tool Set

Two popular disconnect tools in one set gives you the versatility to quickly separate the quick connectors found on everything from radiators to transmission and power steering lines. The quick disconnect coupler tool, No. 400 works on late model Ford and GM vehicles by sliding down the line and into the connector, spreading the clip apart for removal – without disturbing the quick connect seals. No 400A releases the fingers on the transmission-to-radiator oil cooler line quickly and without damaging the those or connector. Works on 1986 and newer Ford Taurus and Mercury Sables with an AXOD, AOD, or ATX transmission. Each tool is available separated.



KA-6423 9pc Carburetor Tuning Set

A comprehensive special tool kit covering most popular carburetor and fuel injection systems. Contents:

- KA-6423-1 Bosch k-tronic mixture adjustment
- KA-6423-2 Bottom fitting cd and cds
- KA-6423-3 Tamperproof mixture adj-ford cvh
- KA-6423-4 Weber 0.8x4mm blade
- KA-6423-5 Stromberg dual purpose tool
- KA-6423-6 Aisan and mikuni/Toyota venturi
- KA-6423-7 Nikki and Hitachi-datsun/subaru
- KA-6423-8 Float needle valve spanner
- KA-6423-9 Bosch k-tronic mixture adjustment



KA-5117 Oil Pan Separator Tool

- Wide, tapered, ground blade wedges between metal surfaces to break gasket seals on engine sumps, transmissions or any difficult to separate gasket joints.
- Blade width: 1.7/8" (48MM)
- Length: 3.1/8" (78mm)



KA-5117K Replaceable Oil Pan Separator and Clean Kit

- Breaks gasket seals on engine sumps, transmissions or any difficult to separate gasket joints.
- The copper blade could avoid damage on gasket or oil pan connection joint surface
- Clean up wheel tool helps use to clean all small spaces on cylinder head



KA-5544 Oil Pump Primers

- KA-5544-1** GM V-6 and V-8 oil pump primer
- KA-5544-2** Oil pump primer for Fords with 1/4" hexes
- KA-5544-3** Oil Pump Primer for Fords with 5/16" hexes
- These tools are designed to prime the lubricating system of a rebuilt engine prior to its first start to prevent the damage of a dry start
- It works by connecting to the oil pump shaft through the distributor hole.
- Designed to be used with a 3/8" reversible drill.



KA-5021 Rocker Stoppers Oil Plug

Plug oil holes in ball-joint type rocker arms. Spring steel clips with gaskets top splashing, squirting hot oil while you adjust clearance. Designed for cars with hollow, oil fed pushrods.



KA-6672DA Oil Drain Plug Remover

- Protects your hands from hot oil no more fishing for dropped drain plugs
- The smart, simple way to change your motor oil
- Protects your hands from the hot drain plug and oil as it rushes out of drain
- Holds the drain plug so it doesn't drop into the oil pan
- Makes it easy to re-install the plug
- Made of durable high impact copolymer plastic



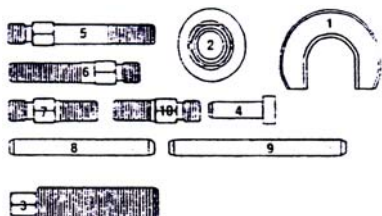
KA-3079 Gland Nut Wrench

Fully adjustable to fit hydraulic cylinders on vehicles having gland nuts from 1 to 3-3/4" in diameter. It also reverses to work on either 1/4" or 7/32" pin holes. Use it with a 1/2" square drive to loosen the toughest gland nuts.



KA-3080 Adjustable Gland Nut Wrench

The 1266 is specially designed to fit hydraulic cylinders on most farm and construction equipment. It adjusts to fit gland nuts from 2" to 6" dia. Pin to pin. And it's reversible to fit 1/4" and 5/16" dia. Pin holes. This heavy-duty wrench features a 3/4" square drive to tackle even the most stubborn gland nuts.



KA-3089 Pulley Puller And Installer Set

Remove pressed-on alternator and power steering pulleys on late-model GM, FORD and Chrysler engines. The threaded end installs late-model GM alternator and power steering pulleys. Including Quad 4. Reverse the jaws to pull the alternator internal bearing. The puller fits some AMCs.

- Replacement part: #1 Puller Body (Letter A)
- Replacement part: #2 Jaw and Sleeve Assembly (Letter B)
- Replacement part: #3 Jackscrew (Letter C)
- Replacement part: #4 Button (Letter D)
- Replacement part: #5 Bearing and Washer (Letter E and F)
- Replacement part: #6 Puller Pin for Quad 4 (Letter G)
- Replacement part: #7 Screw Installer for Quad 4 (Letter H)
- Replacement part: #8 Puller Pin for GM 3.1 (Letter J)
- Replacement part: #9 Screw Installer for GM 3.1 (Letter K)
- Replacement part: #10 Screw Installer for Ford 4.6 (Letter M)
- Replacement part: #11 Screw Installer for Others (Letter N)



KA-1402 Steering Wheel Lock Plate Remover

Simplifies removal and installation of the round, wire snap rings retaining steering wheel lock plates. This tool is a must for access to turn signal switches on current models of GM cars. For all late model GM, AMC, and Chrysler model cars with either tilt or conventional steering columns, including metric columns.



KA-3062 Special Steering Wheel Puller

For OPEL, FORD & other cars



KA-5048 Power Steering Pump Pulley Replacer

This is a time - tested time - saver when it comes to installing power steering pump pulleys. It will not damage internal components by exerting force through the pump shaft. A roller bearing in the tool allows for easy turning and the tool shape prevents damage to the pump.



KA-5049 Power steering Pump/Alternator Pulley Remover

The tool-removes pulleys on all Chrysler, Ford, GM and VW vehicles ; including Saginaw, Thompson and the Ford C2 power steering pumps, GM belt driven vacuum pumps on both gas and diesel cars and press - on water pump pulleys on GM V6 engines. Works on pulleys with hub diameters of 1-1/8", 1-1/4", 1-5/16", and 1-3/8". With split collet design, the jaws grip the pulley flange for damage-free removal. Mechanical screw power does the actual pulling.



KA-3871 Pivot Pin Remover





KA-3088 Steering Wheel Remover/Lock Plate Compressor Set

Removing steering wheels of most domestic and imported vehicles, with or without telescoping tilt steering columns, is easy with this new set. You get the steering wheel puller, including five sets of cap screws needed for various thread requirements. The steering wheel lock plate compressor is also included, to compress the steering wheel lock plate to remove or install the snap ring. It accesses the turn signal switch and S.I.R. modules on current GM vehicles. Also works on older GM, AMC, and Chrysler vehicles with tilt or conventional steering columns. Contained in convenient plastic storage tray.



KA-3088B Steering Wheel Remover/Lock Plate Compressor Set

Removing steering wheels of most domestic and imported vehicles, with or without telescoping tilt steering columns, is easy with this new set. You get the steering wheel puller, including five sets of cap screws needed for various thread requirements. The steering wheel lock plate compressor is also included, to compress the steering wheel lock plate to remove or install the snap ring. It accesses the turn signal switch and S.I.R. modules on current GM vehicles. Also works on older GM, AMC, and Chrysler vehicles with tilt or conventional steering columns. Contained in convenient plastic storage tray.

KA-6877K Harmonic Damper Pulley Puller

(FOR USE ON MOST CHRYSLER / MITSUBISHI ENGINES)

- This unique tool has been developed to aid in the removal of the harmonic damper pulleys found on many chrysler & mitsubishi engines.
- This pulley is hard to access and remove due to space limitations in and around the engine compartment.
- In most cases this compact tool eliminates the need of a technician to go through the time consuming process of first removing the radiator before being able to remove the pulley.
- This low profile puller has been designed for use on the following automobiles, vans & pickups:
 Chrysler 1990 & later vans with 3.3l V-6
 Chrysler 1993-1997 automobiles with 3.3l & 3.5l V-6
 Chrysler 1994 & later vans with 3.8l V-6
 Chrysler 1994 & later pickups with 8.0l V-10
 Chrysler 1995 & later automobiles with 2.0l 4 cyl, 2.4 4 cyl & 2.5l V-6
 Chrysler 1998 & later automobiles with 2.7l
 Dohc V-6, 3.2l sohc V-6 & 3.5l sohc V-6
 Mitsubishi eclipse 1995~1999 2.0l dohc non-turbo



KA-5131

Harmonic Damper Pulley Holding & Puller Set

- This unique tool has been developed to aid in the removal and installation of the crank bolt on most chrysler hyundai and mazda engines.
- The tool has a 1/2" square drive hole for use with abreaker bar or ratchet.
- This unique tool has been developed to aid in the removal of the harmonic damper pulleys.
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 Chrysler 1994 & later vans with 3.8l V-6
 Chrysler 1994 & later pickups with 8.0l V-10
 Chrysler 1995 & later automobiles with 2.0l 4 cyl, 2.4 4 cyl & 2.5l V-6
 Chrysler 1998 & later automobiles with 2.7l
 Dohc V-6, 3.2l sohc V-6 & 3.5l sohc V-6
 Chrysler 1998 and laster 4.7l V-8
 Mitsubishi eclipse 1995-1999 2.0l dohc non-turbo
 GM 1997 & later genIII 5.7l V-8, includes camaro, corvette, firebird and trans-am 2000 and later genIII turcks & suv's with 4.8l V-8, 5.3l V-8, 6.0l V-8 and 8.1l V-8
 Cadillac 1988-1992 4.5l V-8, 1991-1995 4.9l V-8, 1993 & later 4.6l V-8, escalade 6.0l V-8
 OLDSMOBILE 1995 & LATER 4.0l V-8





KA-2453K Master Harmonic balancer Installer

The most complete master set available. Covering almost every car and light truck application, old or new. Installs drive pulleys or harmonic balancers that are pre-fit onto the crankshaft. The heavy-duty 7/8" diameter forcing screw has internal threads to fit the threaded adapters. Thirteen adapters, in the right reach length to fit most threaded crankshafts.

Contains:

Hardened forcing screw, 7/8-14*4"

Thrust Bearing and Hex nut.

Threaded adapters in the following sizes:

7/16-20, 1/2-20, 9/16-18, 5/8-18, 3/4-16, M10*1.5, M12*1.0, M12*1.5
M12*1.75, M14*1.5, M14*2.0, M16*1.5, M16*2.0



KA-6819 Rear Clutch Spring Compressor

Releases rear retainer inside the case makes snap ring easy to remove and replace

- Puts retainer MA Straight w/o bending
- For turbo - hydramatic 250/350/350C transmissions



KA-2473 Circlip Tools

Description:

- Internal / External.
 - "T" Bar and screw action gives precise control.
 - Supplied with 4 pairs of tips.
- Applications: 44 - 178mm (diameter) 1-3/4" - 7"



KA-6794 Universal Carburetor Feet

Durable nylon feet hold carburetor steady and level on workbench.

Allows free movement of linkage and throttle plates. Four feet snap together for easy storage.



KA-5027 Carburetor Main Jet Tool Kit

Extra short length enables carburetor to be serviced while still fitted to the vehicle.

Removal and installs both main jet and access plug. Kit includes main jet plug removal tool and main jet tool spanner.



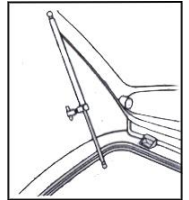
KA-6805 Carburetor Throttle Adjustment Tool

Flexible shaft adjusts rpm without disturbing original carburetor setting. Can be used without removing air cleaner. Tool holds setting whilst you do tune - up, Timing or length:12" (300mm)



KA-6557 Universal Lift Support Clamp

- Fits vehicles with weak gas cylinder, lifts on hoods, tailgates and trunks.
- Clamp securely holds weak lift supports in the extended position to allow access to the engine compartment or luggage area.
- Lift hood, trunk or tailgate and hold.
- Place the tool on lift rod next to cylinder body.
- Tighten with knob until it is secure on lift rod when finished, loosen knob and remove prop.



KA-6558 Seal-Off Dispenser

- Used for general front end greasing.
- Oil and grease resistant rubber tip.
- Use with grease gun extension or hose.
- 1/8" female NPT.
- For handguns only.



KA-7516 Slide Hammer And Clutch Removal Kit

- Specially designed for the safe removal of clutch assemblies, it is possible to remove the clutch without having to remove either the engine or transmission.
- Applications: Vauxhall/Opel Nova, Corsa, Astra, Belmont, Kadett, Tigra, Cavalier, Ascona, Vectra and Calibra (Front Wheel drive models with 4 and 5 speed gearboxes).
- Contains:
 - 1- KA-7515 One Slide Hammer
 - 2- One Input Shaft Puller
 - The threaded bolt end of the puller allows the operator to screw into the input shaft.
 - The shaft can be with drawn by simply gripping the puller by hand if it is loosely fitted.
 - The other end has an internal thread (5/8" UNF), it can combine with the "SLIDE HAMMER".
 - 3- Clutch Retaining Clips
 - Allows the clutch to pass between the flywheel and bell-housing, the pressure plate must be compressed against the diaphragm spring. The three clips will secure the assembly in the compressed position.



KA-6443 Heater Hose Disconnect Tool

Remove heater hoses with 1/4" or 5/8" quick disconnect couplings from rear heater core on 1987-current dodge Caravan and Plymouth Voyager vans. Also gets into difficult access area next to firewall on 1986-current Ford Aerostar vans.



KA-6397 Freeze Plug Removal & Installer Kit

- **Adaptor Size:** 20mm, 25mm, 30mm, 35mm, 40mm, 45mm, 50mm
For freeze plugs up to 2" in diameter 1/4" thick yoke receives 2-7/8" long self-tap screw. Drill 17/64" hole first.
- **Freeze Plug Installer**
Ideal for reaching those stubborn freeze plug. No need to remove head or manifold. Includes the long installing tool with ball-type swivel for easy positioning plus seven adaptors



KA-4352 Master Freeze Plug Installation Tool Kit

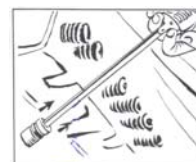
- Complete kit including straight and formed driver, all adapters and coupling nut, plug exclusive pneumatic adapter.
- All parts quality machined and plated.

PART NO.	DESCRIPTION
KA-4352-1	18" Bent Shaft Freeze Plug Driver
KA-4352-2	Coupling Nut
KA-4352-3	1-3/4" Adapter
KA-4352-4	1-1/2" Adapter
KA-4352-5	1-1/4" Adapter
KA-4352-6	1" Adapter
KA-4352-7	3/4" Adapter
KA-4352-8	8" Straight Freeze Plug Driver
KA-4352-9	Pneumatic Adapter



KA-2738 Quickie Hydraulic Tappet Remover

- Use to remove valve tappets that are not stuck or baked-in.
- For use on the average job.
- Can be used with most manifolds in place.



KA-7765 Special Wrench made for Nuts with Top Holes

- Interchangeable Pins.
- The Adjustment is controlled from the central knurl. Each wrench supplied with a set of 8 pins.
- 2 spare pins
- Double ended round pins for nuts with top holes.



KA-4287 Ford Lifter Bleed Down Tool

(FOR REMOVAL & INSTALLATION)

- This unique tool has been developed for removal and installation of relays and fusible links on most of the cars.
- These square and rectangular shaped relays and fusible links are located in confined areas making them difficult to reach.
- In many cases the relays and fusible links are grouped close together without any room around them for hand removal. This tool has been engineered to reach into the confined area around the corners of the relay or fusible link with special coated tips for a solid grip needed in removing and installing them. These pliers come with soft grip handles and have been designed with a slip joint feature allowing multiple size usage.



KA-7777 Ball Joint Spanner Wrench

- To remove and install the ball joint adjusting sleeve on 1/2, 3/4 and 1 ton Dana 44 open yoke front axles on Jeep 4WD, GM, Ford, Chrysler, International vehicles.
- Allows easy torque action with 1" socket for correct upper ball-joint preload.



KA-7786 Lifting Brackets

- Attach directly to component, then hook lifting chain through chain link for easy lifting.
- Capacity: 4000 lbs / 1800kgs
- 2 pcs / set



Clutch Nut Socket

KA-1258 (small)

KA-1258A (big)



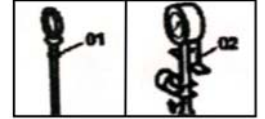
KA-3110 Volvo Strut Nut Socket

- Use for removing and installing the top shock retaining nut on Volvo.
- Application: Volvo models S40, S60, S70, S80, S90.
- Includes 1 piece of holding socket which has four knurled points, and 1 piece of double-D axel center socket.



KA-6950 Oil Gauge (Flat Type - stainless steel)

- Length: 850mm
- Engine 103.943/984/985, 104, 111, 119, 120, 137, 603.913/963/97, 604, 605, 606, 611, 612, 613, 626



KA-6951 Oil Gauge (Flat Type - head 90° - stainless steel)

- Length: 930mm
- Engine 112, 113, 646, 647, 648



KA-6952 Transmission Oil Gauge (ROUND SPRING TYPE)

- Length: 920mm
- Transmission 716.5, 722.7



KA-6953 Transmission Oil Gauge (ROUND SPRING TYPE)

- Length: 1220mm
- Transmission 722.6



KA-5160 Audi Oil Dipstick

- Length: 695mm
- Applicable: Audi 100



KA-5161 Mercedes Truck Oil Dipstick

- Length: 1000mm



KA-5173 Engine Oil Dipstick For AUDI

- This oil gauge and dipstick is designed for measuring the oil levels on different Audi engines fitted with electronic oil level systems.
- The tool also checks the oil levels in Audi A4 A5 6 cylinder petrol 3.2 liter 4 valve engines. It can also be used to assist the calibration of the driver's instrument panel. OEM Code: T40178



Oil Drain Repair Kit

- Disassemble the damaged oil drain screw.
- Choose a tap. For example, if the original diameter of oil drain hole is M14, then operator needs a M15 tap.
- Use a tool operating the tap to enlarge the diameter of oil drain hole.
- Take a washer through the new oil drain plug and then insert a new oil drain plug.



KA-7229
(M13 x 1.5P)



KA-7229A
(M13 x 1.25P)



KA-7229B
(M15 x 1.5P)



KA-7229C
(M17 x 1.5P)



KA-7229D
(M20 x 1.5P)



KA-7229E
(M22 x 1.5P)



KA-7229F
(M14 x 1.25P)



KA-7229G
(M18 x 1.5P)



KA-3616 Oil Drain Plug Repair Kit

For threads M14×1,5, Includes a special thread borer , 5 Threaded Plugs ,5 Washers.



KA-7229K 64pcs Oil Drain Repair Kit

- Renew the diameter and replace a new drain oil drain plug.
- Four popular sizes fit nearly all applications.
- Specification: M13 x 1.5P, M15 x 1.5P, M17 x 1.5P, M20 x 1.5P



KA-7229K1 114pcs Oil Drain Repair Kit

- Renew the diameter and replace a new drain oil drain plug.
- Four popular sizes fit nearly all applications.
- Specification: M13 x 1.5P, M13 x 1.5P, M15 x 1.5P, M17 x 1.5P, M20 x 1.5P, M22 x 1.5P



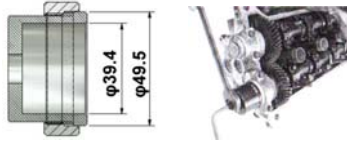
KA-7229K2 48pcs Oil Drain Repair Kit

- Renew the diameter and replace a new drain oil drain plug.
- Four popular sizes fit nearly all applications.
- Specification: M15 x 1.5P , M18 x 1.5P , M20 x 1.5P



KA-6100 Camshaft Seal Installer

- Special tool for easily and quickly install camshaft seal in 4 & 6 cylinder.
- Application: MAZDA, NISSAN, TOYOTA, Lexus etc...
- Spindle sizes: 1/2" -20 x M10, 1/2"-20 x M12



KA-3695 Camshaft Pulley Remover / Installer

- Designed to hold the camshaft pulley stationary while loosening and tightening the center shaft bolt.
- Using the centered screw rod to uproot the pulley.
- Locking screw: M8, M10
- Fixed distance: 54-120mm



KA-3679 Rear Seal Repair Kit

- Works on 1994-2003 7.3L diesel engine in Ford 3/4- and 1-ton trucks.
- A complete kit with the tools you need to properly remove and install the rear main oil seal and wear ring on the crank shaft.
- Eliminates makeshift methods of seal removal and installation that could damage new seal or crankshaft.
- To prevent personal injury when using these tools, wear eye protection
- That meets ANSI Z87.1 and OSHA standards.



KA-3252B



KA-3252A



KA-3253



KA-3254

ANTI-FREEZE TESTER

- KA-3252B** Length: 8-1/2" , packing: color box
- KA-3252A** Length: 8-1/2" , packing: blister card
- KA-3253** Length: 7" , packing: blister card
- KA-3524** with thermometer



KA-3339 Anti-Freeze Tester

- Avoid winter freeze-ups and summer boil-over.
- Test all permanent (Ethylene Glycol) solutions with radiator hot or cold.
- Two scales show freeze point of radiator solution and boiling point of summer coolant.



KA-2060 Camshaft Central Valve Tool

- Assembly tool for installation and removal 4/3-way central valve for camshaft adjustment.
- These tools have offset pins.
- Applicable with 4-cylinder gas direct injection, 1.8 liter, 2.0 liter, 4v, TFSI engine with chain
- For Audi A3. A4. A5. Q5, VW with engine above.



KA-6793 Vacuum Hose Plug And Cap Kit

- Use this 49 pieces, color-coded kit to mark vacuum hoses and other lines when disconnecting hose to insure proper reassemble.
- Contains 7 size: 1/8"(3mm), 3/16"(5mm), 1/4"(6mm), 5/16"(8mm), 3/8"(9.5mm), 7/16"(11mm), AND 1/2"(12.5mm)
- Seven different colors in each size.



KA-6793A 72pcs Vacuum Hose Plug And Cap Kit

- The identifiers are commonly used when tuning the engine or working on the carburetor.
- Identifiers can also be used to plug fuel lines while changing.
- Contents 4 size: 11mm (7/16"), 8mm (5/16"), 5mm (3/16"), 4mm (1/6")
- Nine different colors in each size



Attachment Specification:

Parts No.	picture	application
ATF-101		1/8 NPT, Ford
ATF-102		Universal BMW, Honda, Nisan, etc
ATF-103		VW/Audi
ATF-104		VW/Audi, Porsche
ATF-105		M10 x 1.0, VW/Audi, Mini cooper
ATF-106		M24 x 1.5, VW/Audi DSG
ATF-107		M22 x 1.5, VW/Audi CVT
ATF-108		M12 x 1.5, Mercedes

KA-6078C Transmission Filling system

- Capacity: 7.5L
- Outlet: 80cc/ cycle
- Viscosity Range: up to SAE 140

Operation:

Step 1:

- Select the correct attachment.
- Open the valve and push the oil way control bolt to **right** side, and then push the handle to transmit oil.

Step 2:

- When handle is hard to push and ATF of vehicle is almost full.
- Push the oil way control bolt to **left** side and make smoothly transmission oil.

Step 3:

- When transmission oil almost finished.
- Close the valve

Step 4:

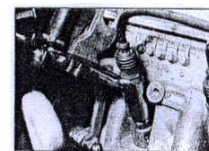
- When finished transmission oil, stop to push the handle.
- Take out the attachment from ATF and put the hose higher than tank. And then open the valve, let residue oil in the house reflux into the tank.

- Note:*
1. Do not used with volatility product (e.g. petro, diesel oil ...etc).
 2. Keep away from fire.
 3. Please prevent polluting the ATF oil and keep work environment clean.



KA-7182 Spark Plug Socket Pliers

- 200mm long, for R & R spark plug connectors.
- Recommended for models 190 E & 300 E or most European cars.
- Length : 220mm



KA-7182A Spark Plug Socket Plier

- Safely remove spark plug cables & prevent cable damage, pliers JAMD;ES WOTJ a JEAUV-DUTY plastic for a sure grip.
- For MERCESD - BENZ
- Length: 220mm



KA-7014 Spark Plug Terminal Pliers

- Safely removes spark plug cables. Pliers prevent damage to cables. Handles and jaws are coated with heavy-duty plastic for shockproof sure grip.
- L : 250mm



KA-7006 Spark Plug Wire Pliers

Removes spark plug wires safely with insulated handles and jaws small indentations in the jaws allow gripping even a bare terminal with engine.
Running. OAL: 7" (18CM)



KA-7010 Heavy Duty Spark Plug Boot Plier

- This long reach spark plug boot pliers is designed to remove hard-to-reach spark plug boots.
- Double insulated to give complete protection against shock.
- Jaws is double dipped to assure complete coverage of all contact areas. Angled nose easier access to boots.
- Size: 10" (250mm)
- Warning: to be used only when engine is turned off



KA-7011 Spark Plug Wire Plier

- Length: 200 mm
- Small design is good to use in a narrow space.
- In order to fit the angle of the electric wire, the head of the remover is use a special curve design.
- Special design on the head of the remover is holding the electric wire tight.
- Safely removes spark plug cables. Pliers prevent damage to cables. Handles and jaws are coated with heavy-duty plastic for shockproof sure grip.



KA-2481A Spark Plug Pliers

- Made of 1/8" (3.2mm) steel with black-oxide finish.
- Spring-loaded for one-hand operation.
- Overall length: 11-1/2" (292.1mm)
- Extra long and thick polyethylene handles help guard against shocks.
- Specially designed head allows access on all angle pull heads and hard-to-reach applications like: Nissan naps-2 V30, General Motors V-6, 231 Chevette, 1.6, 1.8 with air and others.
- Unique posi-grip lips break tight insulators loose with just a twist.

KA-81A Straight nose, Orange handles, Nose angle bent at 120°

KA-81B Angled nose, green handles, Nose angle bent at 45°



KA-2482 12pcs Spark & Wire Service Tool Kit



KA-4428 Spark Plug Tool/Gauge Kit

Contents:

- Heavy duty spark plug boot pliers
- Rubber spark plug remover and installer
- Spark plug gap gauge
- 3/8" dr. 5/8" spark plug socket
- 3/8" dr. 13/16" spark plug socket



KA-3983 4pcs Ignition Coils Puller Set

- Use for VW BORA, GOLF, NEW BEETLE, PASSAT, POLO, TOURAN 1.4/1.6L, LUPO 4-ZYI. FSI, PHAETON and T4, BBY.BKY1.4.
- Use for VW BORA, GOLF, PASSAT SHARAN, TOUAREG, R32 PHAETON and T5,V5 2.3, V6 3.2.
- Use for VW 8-AND 12 CYLINDER ENGINES E.G. PHAETON, B5 1.8T, GTI. FSI 2.0
- This tool can use for most of VW-AUDI injection engines.



KA-3985
Differently handle



KA-3986
Differently handle



KA-3522BL Spark Plug Puller

To install and remove the coils with power stage of injection engines on 5 and 6cy1, olf, Bora, 4 and 5cy1. VW Passat, 6cy1. VW Sharan, Touareg, Phaeton.

KA-3522A Spark Plug Puller

To install and remove the ignition coils with power stage on VW Polo, Golf 1.4, 1.6l, Caddy 1.4l, Boral.4, Passat, Touran 1.6l, Phaeton, Transporter T4.



KA-3522C Spark Plug Puller

To install and remove the ignition coils with power stage of injection engines on VW 8 and 12 cy1



KA-3522D Spark Plug Puller

To install and remove the ignition coils with power stage of injection engines on VW 8 and 12 cy1

SPARK PLUG HOLE THREAD CHASERS

These thread chasers clean threads of dirt, carbon build-up and metal particles. Hexagonal section with neoprene band permits use of any standard deep socket. Ends shaped for easy starting.

KA-3012 Spark Taper - 10 & 14mm

Use with any standard 13/16" deep socket.



KA-3013 Spark Taper - 12 & 14mm

Use with any standard 13/16" deep socket.



KA-3014 Spark Taper - 10 & 12mm

Use with any standard 13/16" deep socket.



KA-3016 Spark Taper - 14 & 18mm

Use with any standard 13/16" deep socket.



KA-3015 Spark Taper -14mm

Features 5/8" hex and 3/8" square drive. Can be used with Extended Spark Plug.



KA-3206 2pc Lambda Sensor Socket Thread Chaser

- Used for repairing and cleaning damaged threads on oxygen sensor ports.
- Size:12mm x 1.25, 18mm x 1.5



KA-5240 Rethreader Kit For 14mm Spark Plugs

This tool will repair stripped spark plug holes back to a new condition. Kit comes complete with rethreaded tap and one each of four replacement sizes.

Includes:

- KA-5240-2 Insert - 3/8" long
- KA-5240-3 Insert - 7/16" long
- KA-5240-4 Insert - 1/2" long
- KA-5240-5 Insert - 3/4" long
- KA-5240-1 Tap and Reamer



KA-5045 Rethreader Kit For 18mm Spark Plugs

This tool will repair stripped spark plug holes back to a new condition. Kit comes complete with rethreaded tap and one each of four replacement sizes.

Includes:

- KA-5045-2 Insert - 7/16" long
- KA-5045-3 Insert - 1/2" long
- KA-5045-4 Insert - 5/8" long
- KA-5045-5 Insert - 13/16" long
- KA-5045-1 Tap and Reamer



KA-5046 Rethreader Kit For 14mm Spark Plugs

This tool will repair stripped spark plug holes back to a new condition. Kit comes complete with rethreaded tap and one each of four replacement sizes.

Includes:

- KA-5046-2 Insert - 3/8" long
- KA-5046-3 Insert - 7/16" long
- KA-5046-4 Insert - 1/2" long
- KA-5046-5 Insert - 3/4" long
- KA-5046-1 Tap and Reamer



Internal Spark Plug Rethread Tool

Patented design allows for chasing spark plug threads from inside the cylinder head and working outward. The tool uses the better threads at the base of the spark plug port and greatly reduces the chance of debris from falling into the cylinder.

KA-3998A	12mm	KA-3998E	10mm
KA-3998B	14mm	KA-3998AB	12 & 14mm
KA-3998C	18mm	KA-3998BC	14 & 18mm
KA-3998D	08mm	KA-3998DE	08 & 10mm

260mm Internal Spark Plug Rethread Tool (Thread Chaser)

- The tool uses the better threads at the base of the spark plug port and greatly reduces the chance of debris from falling into the cylinder.
- It's unique design allows for chasing spark plug threads from inside the cylinder head and working outward.
- Uses the good threads at the base of the port.
- Reduced dirt and metal from being driven into the cylinder head.
- Use light grease on the end to trap filings and keep tool easy to use
- Length of 260mm(10") allows for deep well plugs.



- KA-3998A-260** 12mm x 260L
- KA-3998B-260** 14mm x 260L



KA-5101 Spark Plug Tool

1/2" Dr. 500mm x 12mm
1pc 16mm (5/8") socket
1pc 21mm (13/16") socket



KA-5102 Spark Plug Tool

3/8" Dr 500mm x 11mm
1pc 16mm (5/8") socket
1pc 21mm (13/16") socket



KA-5103 Spark Plug Tool

1/2" Dr 500mm x 12mm
1pc 16mm (5/8") socket
1pc 21mm (13/16") socket



KA-5104 Spark Plug Tool

300mm x 9mm with 21mm (13/16") socket

KA-5105 Spark Plug Tool

350mm x 9mm with 21mm (13/16") socket



KA-5106 Spark Plug Tool

500mm x 12mm with 21mm (13/16") socket



KA-5107 Spark Plug Tool

500mm x 9mm with 16mm (5/8") socket



KA-5108 2-IN-1 Spark Plug Tool

500mm x 9mm
1pc 16mm (5/8") socket
1pc 21mm (13/16") socket



Spark Plug T-Handle W/Magnetic

KA-5235A 16mm with magnetic & swivel

KA-5235B 21mm with magnetic & swivel



T-Handle Spark Plug Wrench With Swiveling Socket

KA-6890-16M 16mm (5/8")

KA-6890-21M 21mm (13/16")



KA-5109 3/8" Spark Plug Tool Kit

With feeler gauges brush
5/8"(16mm) & 13/16"(21mm)socket



KA-5110 3/8" Dr. Spark Plug Tool Kit

5/8" (16mm) & 13/16" (21mm) SOCKET



KA-5111 Flexible Spark Plug Socket Set

5/6"(16mm) & 13/16"(21mm)



12" Spark Plug Extension Bar W/Magnetic

KA-5236A 3/8"x16mm **KA-5236C** 1/2"x16mm

KA-5236B 3/8"x21mm **KA-5236D** 1/2"x21mm



TUBULAR SPARK PLUG WRENCH

KA-2904 Ø16MM

KA-2905 Ø22.8MM



Spark Plug W/Magnetic

- KA-5234A** 1/2" x 16mm **KA-5234C** 3/8" x 16mm
- KA-5234B** 1/2" x 21mm **KA-5234D** 3/8" x 21mm



Spark Plug Socket

- KA-6264** 3/8" x 14 x 90mmL – black finished
- KA-6264A** 3/8" x 16 x 90mmL – chrome plated



Spark Plug Socket

- KA-6265** 3/8" x 14 x 150mmL – black finished
- KA-6265A** 3/8" x 16 x 150mmL – chrome plated



Spark Plug Socket

- KA-6266** 3/8" x 14mm x 12PT x 250mmL – black finished
- KA-6266A** 3/8" x 16mm x 12PT x 250mmL – chrome plated
- KA-2819** 3/8" x 14mm x 12PT x 250mmL – chrome plated
- KA-2819A** 3/8" x 16mm x 12PT x 250mmL – black finished



KA-2476 Spark Plug & Lead Tester

Tests both spark plugs and spark plug leads. With engine running place the wire in the cradle, slide the tool up and down the length of the wire. Flashes of light should be visible. To test spark plug, place opposite end as close to spark plug boot as possible. Flashes of light should be again visible. Steady flashes indicate normal. Erratic or no flash indicates faulty component.



KA-7503 Spark Gap Tester

Tests both spark plugs and spark plug wires. With engine running place wire in cradle. Slide the tool up and down.



KA-2477 In Line Spark Checker

- Troubleshoot ignition system quickly and visually with hands-free operation.
- Frequency and intensity of flash indicates problem or fault in the fuel delivery system; flash can be seen in bright sunlight.
- Features a 90° boot and long wire to easily install/remove tool between the spark plug and ignition wire.
- Clear plastic body resists rough use and resists automotive chemicals.



KA-2478 In-Line Ignition Spark Checker

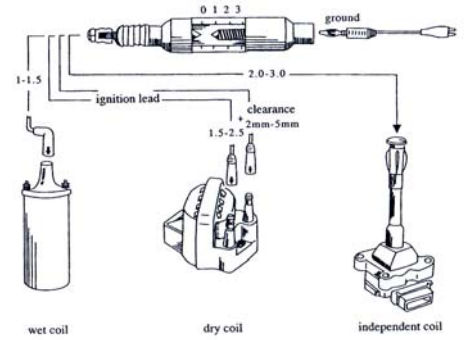
- Connects between spark plug and spark plug wire to visually check condition of ignition system at each cylinder.
- Frequency and intensity of flash indicates if ignition or fuel delivery problem is present.
- "Flash" can be seen in bright sunlight.
- Clear plastic body can withstand rough use and resists automotive chemicals.
- Protected by mechanical strain relief.

KA-5162 Spark Tester

- To judge the quality of coil according to spark color and distance.
- The car factory choose the appropriate coil depends on engine and ignition system

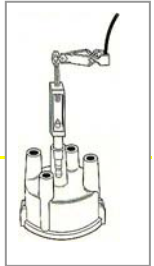
Application:

- The normal spark distance is 2cm, and the shape is straight with violet blue color. The coil is aged or defect if the spark is either red or curved.
- Spark plug in oil vapor that spark ignition cylinder, and also in combustion chamber with pressuring. Higher pressure would cause larger impedance of spark plug. In order to apply many kind of compression ratio of engine, adjust the distance of spark tester to simulate the state of cylinder is burning.



KA-7017 Adjustable Ignition Spark Tester

- Works on ignition systems from high energy electronic automotive systems to small engines
- Tests for no start conditions and spark strength
- Adjustable gap allows for different spark gap requirements of different ignitions systems, from 0 to 40,000 volts
- Gauge background makes spark easy to see for accurate measurement
- Alligator clip fastens securely to ground
- Screw assembly adjusts spark gap quickly and easily.



KA-7188 Spark Gap Tester

- Provides instant diagnosis of ignition problems such as a faulty coil, ignition wire or spark plug
- Plugs into coil to measure jump of spark from 0 to 40,000 volts.
- Works hands-free and can be used as a troubleshooting tool for road tests



KA-7001 Spark Plug Wire Tester

Quickly locate faulty plug wires. No shock hazard. This tool can check spark plug wires without piercing the wires light flashes indicating sound wire.



Calibrated Ignition Tester

- Use to accurately check for spark in ignition systems without removing spark plug from engine
- Verifies that energy is sufficient for spark plug to fire if voltage on hei tester is great enough the center electrode is not used.
- To use attach spark plug wire to tester end. Clamp tester to engine as ground. Crank engine and check for spark.
- Caution: wear safety goggles.



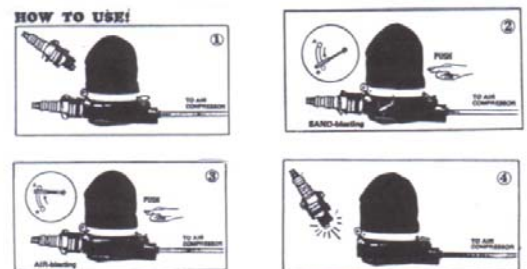
KA-5138 HEI system

KA-5139 Standard ignition system

KA-6728 Spark Plug Cleaner

Cleans any size of spark plug quickly

- Two-way lever valve allows for blasting or air cleaning
- Blast action removes carbon build-ups on plugs
- Internally controlled abrasive blasting
- Abrasive material supplied
- Cleans plugs into the new one.



After Cleaning, An Old Plug Turns Into A New One!!



Flexible Spark- plug Fitter

- Helps engage a spark-plug thread in any location
- For all types of spark plug
- Length: 316mm

KA-7776A 9/16" (14.3mm)

KA-7776B 5/8" (15.9mm)

KA-7776C 13/16" (20.6mm)



KA-5516K 18pcs Spark Plug Starter

- Installs and removes freed spark plugs
- Flexible, sure grip
- Universal size, fits all spark plugs
- Convenient, non-marring
- Durable

It won't damage spark plugs



KA-6341 Long Handle Spark Plug Boot Puller

Remove recessed spark plug boots easier. Extra long handle could be worked on most vehicles. The grip behind baked-on boots and pulls without damaging wires.



KA-6635 Spark Plug Starter

- Universal size, fits all spark plugs.
- Flexible shaft permits access from many angles.
- Easily insert & remove hard-to-reach spark plugs with the flexible shaft tool.
- Soft tip is stepped to grip plug terminal and porcelain securely.
- Tool helps you avoid hot engine burns.



KA-7002 Spark Plug Boot Puller



KA-7005 Spark Plug Wire Puller

Nylon stops the shocks and beats the heat and burns. Helps you pull spark plug wires quickly, easily and without damage to the wire or rubber boots.



KA-7003 Spark Plug Wire Puller

So simple, but very effective! Place hooked shaft behind the spark plug boot. Pull tool to disengage boot. The square shaft prevent slipping. This tool performs well in difficult areas, such as recessed plugs and obstructed plugs.



KA-7012 Rubber Spark Plug Remover And Installer

Flexible shaft permits access form many angles.
Easily insert and remover hard-to-reach spark plugs with the flexible shaft tool. Soft-Stepped tip firmly grips terminal and porcelain. Tool helps you avoid hot engine burns.



**KA-5168 Compression Test Adaptor
(designed to fit 12mm spark plugs)**

- This extra long compression test adaptor is designed to fit 12mm spark plugs.
- This tool is now essential on BMW E90 335i with N54 engine 2006, BMW MINI, Mercedes M156.
- Also used on PEUGEOT 207/307 and RENAULT 1.2 16 valve engine

KA-5168A – 14mm



KA-3659 CDI-Glow Plug Tool

For unscrewing and disassembly of glow plugs in the cylinder head, especially for glow plugs that are stuck because of carbonization remains.
Cylinder does not need to be removed any more.
Fits all Mercedes 10mm glow plugs, engine codes 611-612-613 etc.



KA-3206A Oxygen Sensor Rethread Tool

- Cleans threads in oxygen sensor holes
- Use with 3/4" hex socket or 3/8" square drive
- M18 x 1.5 also works on M18 x 1.5 spark plug threads



KA-3152 Spark Plug Thread Repair Kit

This tool is designed for repairing stripped or damaged threads on spark plug seat.

Contents:

1. Tap (M14 X 1.25P)
2. Step-Tap (M14 x 1.25P, M15.8 x 1.25P)
3. Wrench (3/8")
4. 3/8" Dr. T-bar
5. 3/8" Insert drive
6. Seat cutter
7. Inserts (L:15mm & L:9.4mm)
8. Alley key 2.5mm (for No.3 wrench)

A unique tool for repair damaged spark plugs, glow plugs and lambda probe threads.

Features:

- Quick and easy repair without extensive component disassembly.
- Easy to use and proper fixed with absolute gas-tight seating of the inserts. Thin wall bushings with rust protective coating.
- Repair easily without complex component.



KA-5061A 10pcs Glow Plug Thread Set – M8 X 1.0

Contents:

- 1pc piloted tap M8X1.0
- 1pc piloted tap M10X1.0
- 1pc piloted reamer M8X1.0
- 1pc screw in tool for insert nut L=100mm M8X1.0
- 1pc screw sleeve 14HX90MM
- 5pcs insert nut with collar L=11MM IG=M8X1.0/AG=M10X1.0



KA-5061B 10pcs Glow Plug Thread Set – M9 X 1.0

Contents:

- 1pc piloted tap M9X1.0
- 1pc piloted tap M11X1.0
- 1pc piloted reamer M9X1.0
- 1pc screw in tool for insert nut L=103MM M9X1.0
- 1pc screw sleeve 17HX93MM
- 5pcs insert nut with collar L=11MM IG=M9X1.0/AG=M11X1.0



KA-5061C 16pcs Glow Plug Thread Set – M10 X 1.0

Contents:

- 1pc piloted tap M10X1.0
- 1pc piloted tap M12X1.0
- 1pc piloted reamer M10X1.0
- 1pc screw in tool for insert nut L=106MM M10X1.0
- 1pc screw sleeve 17HX85MM
- 5pcs insert nut with collar L=12MM IG=M10X1.0/AG=M12X1.0
- 5pcs insert nut with collar L=19MM IG=M10X1.0/AG=M12X1.0
- 1pc screw in tool for insert nut L=103MM M10X1.0



KA-5061D 10pcs Glow Plug Thread Set – M10 X 1.25

Contents:

- 1pc piloted tap M10X1.25
- 1pc piloted tap M12X1.25
- 1pc piloted reamer M10X1.25
- 1pc screw in tool for insert nut L=100MM M10X1.25
- 1pc screw sleeve 17HX89MM
- 5pcs insert nut with collar L=12MM IG=M10X1.25/AG=M12X1.25



KA-5061E 22pcs Glow Plug Thread & Spark Plug Set – M12 X 1.25

Contents:

- 1pc piloted tap M12X1.25
- 1pc piloted tap M14X1.25
- 1pc piloted reamer M12X1.25
- 1pc screw in tool for insert nut L=100MM M12X1.25
- 1pc screw sleeve 19HX89MM
- 5pcs insert nut with collar L=12MM IG=M12X1.25/AG=M14X1.25
- 5pcs insert nut with collar L=19MM IG=M12X1.25/AG=M14X1.25
- 5pcs insert nut with collar L=26MM IG=M12X1.25/AG=M14X1.25
- 1pc screw in tool for insert nut L=107MM M12X1.25
- 1pc screw in tool for insert nut L=114MM M12X1.25

A unique tool for repair damaged spark plugs, glow plugs and lambda probe threads.

Features:

- Quick and easy repair without extensive component disassembly.
- Easy to use and proper fixed with absolute gas-tight seating of the inserts. Thin wall bushings with rust protective coating.
- Repair easily without complex component.



KA-5061F 10pcs Oxygen Sensor Thread Set – M12 X 1.5

Contents:

- 1pc thread cutting tap M12X1.5 L=50MM
- 1pc thread cutting tap M14X1.5 L=50MM
- 1pc piloted reamer M12X1.5 L=50MM
- 1pc screw in tool for insert nut L=100MM M12X1.5
- 1pc screws sleeve 19HX93MM
- 5pcs insert nut with collar L=9MM IG=M12X1.5/AG=M14X1.5



KA-5061G 21pcs spark plug thread Set – M14 X 1.25

CONTENTS:

- 1pc thread cutting tap M14X1.25 L=70MM
- 1pc thread cutting tap M16X1.25 L=70MM
- 1pc piloted reamer M14X1.25 L=70MM
- 1pc screw in tool for insert nut L=100MM M14X1.25
- 1pc screw sleeve 23HX90MM
- 5pcs insert nut with collar L=11.2MM IG=M14X1.25/AG=M16X1.25
- 5pcs insert nut with collar L=17.5MM IG=M14X1.25/AG=M16X1.25 CONE
- 1pc screw in tool for insert nut L=106MM M14X1.25



KA-5061H 10pcs Oxygen Sensor Thread Set – M18 X 1.5

Contents:

- 1pc thread cutting tap M18X1.5 L=50
- 1pc thread cutting tap M20X1.5 L=50MM
- 1pc piloted reamer M18X1.5 L=50MM
- 1pc screw in tool for insert nut L=90MM M18X1.5
- 1pc screw sleeve 27HX81MM
- 5pcs insert nut with collar L=9MM IG=M18X1.5/AG=M20X1.5



KA-5061K 112pcs Master Rethread Tool Kit

Contents:

- 10pcs glow plug rethread tool M8 X 1.0
- 10pcs glow plug rethread tool M9 X 1.0
- 16pcs glow plug rethread tool M10 X 1.0
- 10pcs glow plug rethread tool M10 X 1.25
- 22pcs glow plug rethread tool M12 X 1.25
- 10pcs oxygen sensor rethread tool M12 X 1.5
- 21pcs spark plug rethread tool M14 X 1.25
- 10pcs oxygen sensor rethread tool M18 X 1.5
- 1pc rethread gauge set
- 1pc brass cleaning brush
- 1pc nylon cleaning brush



KA-5175
8PCS 3/8" Dr. (12point) Spark Plug Torque Limited Socket Kit



KA-5175A
3PCS 3/8" Dr. (12point) Spark Plug Torque Limited Socket Kit



KA-5175B
4PCS 3/8" Dr. (12point) Spark Plug Torque Limited Socket Kit

Content	KA-5175	KA-5175A	KA-5175B
KA-5175A-14 1pc 14mm socket (Max. Torque 19Nm)	•	•	•
KA-5175A-16 1pc 16mm socket (Max. Torque 20Nm)	•	•	•
KA-5175A-21 1pc 21mm socket (Max. Torque 25Nm)	•	•	•
1pc 3/8" universal joint	•		
1pc 3/8" x 6" extension bar	•		
1pc 3/8" x 10" extension bar	•		
1pc 1/2"(F) x 3/8"(M) adapter			•
1pc 3/8" x 10" slide bar	•		



Note: Do not use with power tools!!



KA-5176 Glow Plug Torque Limited Socket

Content:
8mm socket (Max. Torque 15Nm)
10mm socket (Max. Torque 15Nm)
12mm socket (Max. Torque 15Nm)



KA-3593 Spark Plug Socket Pliers(straight)

- For installing and removing straight spark plug sockets.
- Long jaws provide a better safety distance to the hot engine.
- Especially for deeply located spark plug sockets, e.g. on AUDI V6 and V8 engines, JAGUAR 12 cyl.
- Ergonomically shaped 2-component plastic handle covers.
- Special steel.
- Surface chrome-plated.



KA-3594 Spark Plug Socket Pliers(angled)

- For installing and removing straight spark plug sockets.
- Safe application due to milled jaw profile.
- Especially on MERCEDES-BENZ.
- Ergonomically shaped 2-component plastic handle covers.
- Special steel.
- Surface chrome-plated

**KA-3259 VW, Audi Spark Plug Cable Puller**

Removing and installing spark plug connectors.

Spark plug socket remover for new beetle and cars with 2.0 engine AZJ.

Locking, VW, Golf IV & V with 1.6 engine, VW Audi, Bora, Mercedes, Smart, etc...

Length: 264mm

**Spark Plug Cable Remover Tool**

For metal spark plug caps. To release and detach plug-leads from inaccessible locations, such as VW-Audi, Mercedes, Smart, etc...

KA-3260 Length: 350mm

KA-3260A Length: 225mm





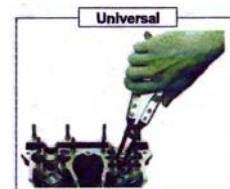
KA-5033 Valve Stem Seal Pliers

- Pliers reach down around the valve stem into the confined area of the seal to grip it for removal.
- “Gripping” serration in the tip allow them to grasp both original equipment and aftermarket seals regardless of their configuration.
- L : 245 mm



KA-5033A Extra Long Valve Stem Ring Pliers

- For removing valve stem seals in multi-valves engines.
- Jaw longitudinal toothed-avoids slipping down.
- For deeply leveled valve stem seals.
- The special long, slim form ensures the quick, safe and easy removal of valve-stem oil-seals, even on 4-valve cylinder head.
- L : 275 mm



KA-6664 Valve Stem Seal Pliers (30-degree effect jaws)

- Removes valve stem seals on overhead camshaft engines.
- Pliers reach down around the valve stem into the confined area of the seal to grip it for removal.
- “Gripping” serration in the tip allow them to grasp both original equipment and aftermarket seals regardless of their configuration. Jaws are serrated for a secure grip on the seal.
- L : 270 mm



KA-7756 Valve Retainer Ring Pliers

- To remove valve stems seals on multi-valve engines.
- Hardened Jaws with longitudinally toothed.
- Working area is dip-insulated to avoid the damages to the timing gear.
- Straight design
- Length: 250mm



KA-7757 Valve Retainer Ring Pliers

- To remove valve stems seals on multi-valve engines.
- Hardened Jaws with longitudinally toothed.
- Working area is dip-insulated to avoid the damages to the timing gear.
- Bent 25°
- Length: 241mm



KA-7758 Valve Seal Removal Pliers

- To remove valve stems sealing ring.
- The special long, slim form ensures the quick, safe and easy removal of valve-stem oil-seals, even on 4-valve cylinder head.



KA-7767 Valve Stem Seal Pliers

- To remove the valve stem seals on Peugeot, Citroen and other engines.
- L : 230mm



KA-3631K Valve Stem Seal Tool Set

For Valve Stem Sealing Rings.
This tool set allows the removal and replacement of valve shaft sealing rings.
Consists of:

- Basic Slide Hammer
- Valve Seal Collet Chuck (bucket-tappets diam. 26 mm upwards)
- Valve Seal Collet Chuck (bucket-tappets diam. 23 mm up to 26 mm)
- Oil Seal Removal Pliers - Long
- Press Set for valve seals (10 pcs., Ø 9.5 - 14 mm inside)



KA-5062 Hydraulic Valve Lifter Puller

Remove most stuck hydraulic valve tappets with this slide hammer-type tool. Spread jaws to clamp recessed area of tappet and use slide hammer to remove. Adapters convert tool to a puller for baked-in valve tappets. Turn adjusting nut with 5/8" wrench. This is a serviceable product.



KA-6689 Valve Adjustment Tool Set

For use on all 10-12-13mm & 9/16" jam nut adjustment screws

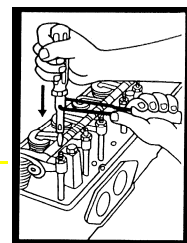
- This two in one tool features a window in its socket so the technician can see jaw nut is tightened.
- This visual contact in addition to the feel of holding the screwdriver allows for quicker valve adjustment times as the technician can hold the adjustment screw exactly where he wants it.

K186A For all cars with 10mm jam nut valve screws.

K186B For all cars with 12mm jam nut valve screw.

K186C For all cars with 9/16" jam nut valve screws.

K186D For "VW" and "Porsche" cars with 13mm jam nut valve screws.



KA-4453K Universal Valve Adjustment Tools

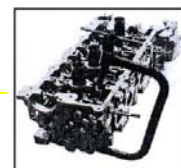
For use on all 10-12-13mm 1/2" & 9/16" jam nut adjustment screws

- This two in one tool features a window in its socket so the technician can see jaw nut is tightened.
- This visual contact in addition to the feel of holding the screwdriver allows for quicker valve adjustment times as the technician can hold the adjustment screw exactly where he wants it.



KA-7033 Heavy Duty Valve Spring Compressor

- Used for Car & Motorcycle.
- Designed to compress and release valve spring after removing the collets. Pantograph-type levers ensure a consistent coaxial contact with the valve.
- Driving adaptor: 19mm, 23mm, 25mm.



KA-4452K Heavy Duty Valve Spring Compressor

- Used for Car & Motorcycle.
- Designed to compress and release valve spring after removing the collets. Pantograph-type levers ensure a consistent coaxial contact with the valve.
- Driving adaptor 16mm, 19mm, 23mm, 25mm, 30mm



KA-5054 Valve Spring Compressor

Compressor services overhead valve engines. A handle on the outside of the tool makes it easy to use. It has a throat depth of 7-1/2" and jaw openings 2-3/4" to 5-7/8" compressor fits most passenger cars and light trucks and will also work on small L-head engines with manifolds removed.



KA-5055 Valve Spring Compressor

Compress valve springs on overhead valve and L-head engines on cars, Trucks and tractors. Tool has a 9-3/4" throat depth, and jaw openings 2-3/4" to 7-3/4" fit larger engine sizes. Jaws and plunger bar are easily adjusted. Plunger bar seats on both flat and cup-shaped valve heads.



KA-5056 Valve Spring Compressor

Compress valves on small overhead or L-head engines. Tool has a throat depth of 6-1/4" and jaw openings 3 to 5-3/8" it's designed for lightweight valve springs. Compressor works on L-heads with manifolds removed and many industrial engines.



KA-5057 Valve Spring compressor

For overhead cam engines specially designed for O.H.C. engines.



Valve Spring Compressor

- For large engines & diesel engines.
- Unique "Direct action" compressor lever gives improved visibility & ease of use in areas of difficult access.
- Collect release adapters: restricted access adapter, 25mm, 30mm

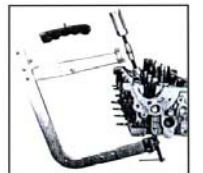
	JAW OPENING(A)		THROAT(B)
	MIN	MAX	
KA-5124	35mm	142mm	250mm
KA-5124A	45mm	142mm	250mm



KA-6427 Valve Spring Compressor

- For large engines & diesel engines.
- Unique "Direct action" compressor lever gives improved visibility & ease of use in areas of difficult access.
- Collect release adapters: restricted access adapter, 25mm, 30mm

JAW OPENING(A)		THROAT(B)
MIN	MAX	
35mm	200mm	250mm



KA-6428 Universal Valve Spring Compressor

- Capacity: 55-175mm
 - Throat clearance 165mm
- Designed for use on multi valve petrol and diesel engines with deep seated valves, also suitable for general use on a wide range of OHC. OHV and CVH engines. Universal model with unique dual cam-action. Parallel lift and automatic locking. Reversible jaw/adaptor.



KA-6627 Overhead Valve Spring Compressor

- For use on a wide range of OHV, OHC and CHV engines.
- Not suitable for use on engines with deep seated valves.
- Allow valve springs and valve stem oil seals to be replaced with the cylinder head.
- Feature a reversible jaw/adaptor and automatic cam-action locking to a re-determined setting.



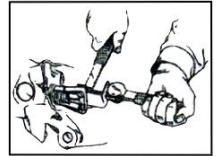
KA-5001 Valve Spring Compressor

Compresses overhead valve springs with rocker arm studs. this tool can be used with the head either on or off the engine. Jaws adjust to fit most domestic and import overhead valve engines. Adjustable handle allows for clearance in tight areas. Comes complete with stud adapter.



KA-5009 Valve Spring Compressor An "On The Car" Tool

Makes compressing the spring and removing the keepers a simple job because there is no need to remove the head. Adjustable cam action. Fast because there is no need to readjust the tool after each spring. When space prohibits use of cam handle. Replace handle with bolt and turn with socket.



KA-6434 Valve Spring Lifter

- Designed for use on all small cars with I-head engines
- Adjustable jaws easily lift valve springs and automatically lock at any height tool provides clear view and easy access for spring removal and replacement.



KA-2721 Valve Spring Compressor

For R & R of valve spring or rocker arm (cylinder head does not need to be removed). Applicable: V-8 engines (M116 & 117) 4 & 6 cylinder engines with single camshaft. With the exception of engines M 102, 103 & 119 (Please see #M 1160 above).



KA-5531K Valve Spring Compressor

How to use: after removing an ignition plug, insert the relevant adapter 1 into a plug hole, screw and firmly fix the support 2 at the thread plug hole assemble the body 3 to the support 2, adjust the angle adjuster 4 in accordance with an angle of a valve fasten the body 3, using the body fastener 5, move the distance adjuster 6 so as to set the distance between the valve and the body 3, then air inlet. Mount the pushing member 7 on the valve, and revolve the valve pusher 8 to push the valve down.



KA-5002 Valve Spring Compressor

Remove and replace valve springs in gm 8-cylinder engines. Heavy-duty tool replaces weak or broken valve spring and guide seals with cylinder head on the engine. Compressor is used by removing rocker and fastening tool to stud with nut. Pull on the handle to compress spring. Use with 901 or 2992 air hold fittings to keep valve closed. Length : 12-1/2".



KA-5028 Valve Holder

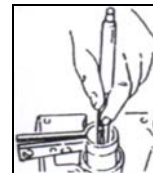
Allows for replacement of valve seals and broken or weak valve spring without removing the head by applying air to cylinder through spark plug hole
 One end of tool fits 14mm & 18mm threads of spark plug hole.
 Other end of tool is a 1/4" NPT female.
 Long hose ideal for reaching deep set spark plug holes.
 Length of hose: 300mm



KA-5029 Valve Collets Replace

For 8V , 16V and 24V engine

Replaces tapered split collets on recessed valve springs quickly and easily.
 The special spring loaded unit places collets in position on recessed heads instantly.
 Includes magnet to retrieve collets.
 One valve spring is compressed; one end of the tool positions collets and magnet end picks up loose collets.



KA-6489 Valve Keeper Installing & Pick Up Tool

This tool holds the valve keepers in its magnetic jaws so you can easily maneuver the keepers into the valve stem grooves for installation.
 Easily reaches into recessed spring pocket to retrieve released valve keepers.
 Retrieves small parts from any recessed or hidden area.
 Contents: 3pcs valve keeper installing tool, flexible magnetic pick up



KA-5023 Valve Stem Seal Installing Tool

An interference fit holds the tool allowing it be lowered down into the confined area of the valve guide and thus easily tapped on with hand pressure.



KA-5041 Universal Overhead Cam Valve Spring Compressor

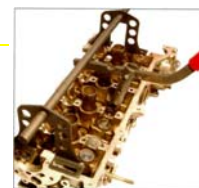
- For use on most foreign & domestic engines , including Audi, Chrysler, Infiniti, Honda, Hyundai, Lexus, Mazda, Mitsubishi, Nissan, Porsche, Saturn, Toyota, Volvo & Volkswagen.
- The tool has been developed to remove and install the valve spring with the cylinder head still on the engine and in the car, or with the cylinder head removed.
- Quick removal and installation of the spring retaining keepers in then easily accomplished through the large openings on both sides of the compression tube.



KA-5041A Universal Valve Repair Kit

Contains:

- KA-5041 Universal overhead cam valve spring compressor
- KA-6489 Valve keeper installing & pick up tool
- KA-5033A Valve stem seal plier
- Valve holder



KA-6568K Universal Valve Repair Kit

Contains:

- KA-5041 Universal overhead cam valve spring compressor
- KA- 5029 Valve collet replacer
- KA-5028 Valve holder
- KA-5033 Valve stem seal pliers-straight jaws
- KA-6664 Valve stem seal pliers-30° effect jaws
- 14/18mm Compressed air adaptor: Compressed air adaptor for 14mm and 18mm spark plug threads-1/4" BSP female airline coupler. Includes 4 adaptors.
- Valve stem installing tool: An interference fit holds the tool allowing it be lowered down into the confined area of the valve guide and thus easily tapped on with hand pressure. There are six sizes: 5mm , 6mm , 7mm , 8mm , 10mm , 11.5mm.



KA-5041B Universal Valve-Spring Compressor Tool

Installation example VW-Audi, Ford, Peugeot, Volvo, etc.
 Applicable for 1-12 cylinder engines - two up to four-valve technology, in-line-engines or V-engines.
 This tool permits renewal of valve-stem oil-seals with the cylinder head removed or cylinder head assembled.
 The retaining flanges are rotatable, so that they may be affixed to the cylinder head lengthways, sideways or diagonally.
 The correct height of the supporting rod may be adjusted due to the adjustment spindles on the left and right side, to achieve the correct angle between handle and the pressure piece for compressing the valve-spring. Moveable rests allow infinitely adjustment of the tool length and therefore an universal application for 1-12 cylinder engines.



KA-6404 Vsc-Ford Valve Spring Compressor

Allows valve stem oil seals to be replaced without removing the cylinder head. For use on 1.3cc, 1.4cc and 1.6cc CVH ford engines fitted to the fiesta (inc. RS turbo). Escort (inc er31 and RS turbo) and all Orion models. Display packed.



KA-7039 90° Angle Driver Bit Set

(For adjustable valve)



KA-3891 Valve Adjusting Tool

- For Toyota and other overhead camshaft engines using spacer shims
- Shim pliers push between the shim and camshaft allowing the included wedge tool to be placed between the valve lifter ledge and camshaft for easy shim replacement.

KA-3891A Valve Adjusting Tool

- For Nissan overhead camshaft engines using spacer shims
- Same shim pliers as the AT-585 above. except its wedge tool is designed for Nissan GM engines found on Sentra.



KA-6357 Valve Play Compensator & Rocker Arm Remover

- No need to remove the camshaft
- This tool allows quick removal of valve play compensator & rocker arm on gm (Opel/Vauxhall) OHC engines.
- If this to hydraulic tappets, without this tool replacing the cylinder head gasket becomes necessary



KA-3892K

*245mmL valve stem seal plier



KA-3892K1

*275mmL valve stem seal plier

Valve Seal Removal & Installer Kit

- Work on valves still seated or removed.
- Precision machined seal driving adapters guide the seal for proper setting.
- Contains:
 - 1pc valve stem seal plier.
 - 1pc drive handle 6" (150mm)
 - 2pc deep seal driving sockets for seals o.d. 10.8-14.8mm
 - 7pc seal driving adapters fit seals 5, 5.5, 6, 6.6, 7, 8, 3/8"

VALVE REFACING & SEATING TOOLS

- Precision machined tungsten carbide blades produce valve seats with:
 - Accurate seat angle
 - Superior seat surface
 - True, flat seal
 - Seats concentric with valve guide

Available in a wide range of cutter diameters and angles



KA-7322K-S 10pcs

Application:

- cutter Ø37mm-46mm 60° and 45°
 - cutter Ø37mm-44mm 75° and 30°
 - cutter Ø28mm-37mm 75° and 45°
- 3pcs expandable pilot "T" wrench handle



KA-7322K 15pcs

Application:

- cutter Ø52mm-65mm 75° and 60°
 - cutter Ø46mm-60mm 45° and 30°
 - cutter Ø44mm-52mm 75° and 30°
 - cutter Ø37mm-46mm 68° and 45°
 - cutter Ø37mm-44mm 75° and 30°
 - cutter Ø28mm-35mm 75° and 45°
- 5pcs expandable pilot Ø 55mm-Ø12.5mm "T" wrench handle

OVERHEAD VALVE SPRING REMOVER

Removes springs without removal of cylinder heads.

Conveniently allows for removal of valve springs on most automotive and light trucks without removing cylinder head. Offset jaws easily grip and compress valve springs. Requires flexible air valve holders and air hold fittings to keep valves from dropping into cylinders when keepers are removed.

KA-5004



KA-7316



KA-7316B



KA-7316A



KA-7655 Valve Core/Stem Remover And Installer Set

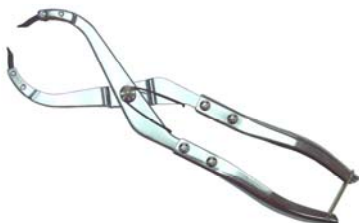
Set includes four essential tools to insert and remove cores, tap inner stem threads and chase outer threads.

The screwdriver-style handle design allows the service more convenient and easier.



Valve Depressors for Disc Removal

- **KA-7759A** 180mm
- **KA-7759B** 230mm
- **KA-7759C** 245mm



KA-7772 Valve Disc Removing Tool

- For removing the valve disc
- Length: 275mm



KA-7761 Slide-Hammer Valve Lifter

- Designed for removing valve springs
- The slide hammer is used to free split collets
- Ø34mm



KA-7762 Collet Clamp

- Designed for 16-Valve Engines.
- Fits KA-7761 Slide-Hammer Valve Lifter
- Length: 54mm
- Ø29mm



KA-7764 Valve Lifter

- For removing valve springs.
- Complete with jaws.



KA-7763 Cylinder Head Rest

- Adjustable distance between two feet.
- Designed for easy use of valve lifters KA-7761 and KA-7764.



Collet Clamp and Cup

- Fits KA-7764, the collet replacing the screw, with the cup inserted between the 2 jaws.

KA-7760A Ø30mm for 16-Valve Engines

KA-7760B Ø33mm



KA-3638 Valve Shim Remover

(Valve / Opel | Volvo)

For use on some European Cars with overhead camshafts which use spacer shims.



KA-5020 Valve Lappers – For hand lapping valves

- 5020A** has 1-1/8"(29mm) and 1-3/8"(35mm) diameter cups for large valves.
- 5020B** has 5/8"(16mm) and 13/16"(21mm) diameter cups for small valves.



KA-5020K Valve Grinder – For hand lapping valves

- 5020KA** Suction pads Ø 19 and 22 mm. Length: 245mm
- 5020KB** Suction pads Ø 22 and 32 mm. Length: 255mm



PA-127HY Air Operated Valve Lapper (special for engine repairing)

- Design for operating in tough environments.
- Adjustable speed regulator for precise control during operation.
- Complete with rubber caps of 20mm, 30mm, 35mm and 45mm.
- Nitto fitting

BLOWS PER MINUTE	AVERAGE AIR CONSUMPTION(25%)	EXHAUST	SIZE		WEIGHT		AIR PRESSURE		AIR INLET
			m/m	in	kgs	lbs	psi	kg/cm ²	
BPM 5,600	SCFM 10.0	Bottom	171	6.73	1.46	3.2	90	6.3	1/4"



KA-7768 Valve Stem Seal remover

- Application: PSA HDI Engine.
- Slide-hammer puller
- Removing seals without scoring or damaging bore in cylinder-head.
- Min. hole 21mm, Height 70mm
- Length: 310mm Ø 60mm



KA-7768A Valve Stem Seal Remover

- Superior to remove valve stem seal without any risk of damage to inner walls of the cylinder-head in the area of the bucket-tappet.
- Tri-jaw pinching designed to grip seal outer diameter from 10 to 19mm
- Slider hammer with rough texturing prevents hand-slippage.
- Twin-color finish (nickel plating in jaws v.s Blackening finish in body) benefits stem valve lock-in

High impact polypropylene made the release piece is to provide easily releasing. Whole work of high carbon steel, heat treated in pinching jaws



KA-2057 One Man Operation Valve Spring Compressor Kit

- The valve pusher master is adjustable/ shifting on 2 bars and lockable to fit various angle of valve on engines.
- The user's hands are spared for precious operation onto valve spring compression and on small parts collection/replacement.
- Two sizes of valve pusher, ψ22 x 75 & ψ22 X 125, prepared to expand the tool capacity to more engine types.
- Large work window of valve pusher to supply more space for replace valve collets.
- No need to remove the cylinder for you work with this tool
- Patented.





KA-7269 Universal Valve Spring Compressor (pneumatic)

- Universal application for one car using.
- Patented design for limited space application, firewall, for example.
- Easy work to compress valve spring for straight, V-shape engines.
- Additional pneumatic tool is also available, for save energy working.
- Sliding main tool help to compress valve spring one cylinder by one cylinder.

How to operate it



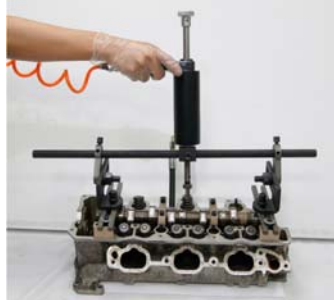
Manual Working



Manual working(for limited space because of firewall)



Additional pneumatic tool



Work with pneumatic tool



Target

KA-5059 Radiator Tool Set



A. UNIVERSAL RADIATOR PETCOCK SOCKET

Specially designed to be used to open and close petcocks on radiators, engine blocks, liquid storage tank, etc. Two-slot design permits use on all types of petcocks. Can be used with a 1/4" drive ratchet or a 7/8" wrench. O-ring of socket helps hold wrench in place to permit one-hand operation in confined spaces.

B. UNIVERSAL RADIATOR DRAIN PLUG SOCKET

Double slotted end of this 3/8" drive socket will fit most radiator drain plugs that have thumb wings.

C. HEATER AND RADIATOR HOSE SLITTER

Ideally suited for heater and radiator hose.

Angled "T" blade has double cutting edges, one for push cutting and one for pull cutting.

KA-2405 Radiator Cap Wrench

L: 195mm



KA-6311 Radiator Hose Sharktooth Plier

- Remove and install radiator and heater hoses.
- Grip hose securely and provide leverage to twist hose free.



KA-3034 Hose Pinch-Off Tool-Bar Type

- Suite for both brake and fuel lines.
- Effective pinch action with rounded clamp section to prevent damage to hose lining.
- L: 140 mm



KA-3035 Fluid Hose Clamp

- Completely or partially closes flexible brake, fuel, vacuum, fluid line.
- All steel construction with adjustable locking collar.
- L: 165mm



KA-3586 Oil Cooler Line Plier

- Release the hydraulic cooling lines that connect to the transmission.
- Applications: BMW E46, E53, E65, E66, E85, R50, R53.



KA-6336K Flexible Line Clamp Set

- 3pc 10", 7-1/2", 6-1/2"
- Unique designed jaws prevent internal hose linings from destruction
- Lightweight easy for handle and non-conductive safety.





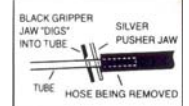
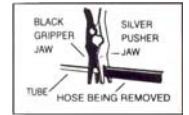
KA-5015K Hose Pinch-Off Pliers —8", 10", 12"

- The pinch-off pliers act as a third hand to help you keep hose changed tightly when you are servicing various engine components.
- No need to drain system when changing thermostats. Save coolant-save time.
- Jaws swivel for parallel clamping.
- Locking ratchet provides tight grip in just about any piston.
- Can also be used to pinch-off many other hoses.
- Do not use on wire reinforced radiator hose.
- KA-5015 8" / KA-5015A 10" / KA-5015B 12"



KA-6632 Hose Remover Pliers

- For easy removal of 5/32" to 1/2" vacuum and fuel hose
- Fit the jaws on the tube with black jaw on the tube and silver jaw on the hose.
- Squeeze to push the hose off the tube.
- L : 195 mm



KA-6632A Hose Remover Pliers

- For easy removal of 5/32" TO 1/2" vacuum and fuel hoses. Engage the tube (line) with the black jaw.
- This sharpened jaw actually "digs" into the tube to grip it, squeeze and the hose is easily pushed off by the silver jaw.
- L : 240 mm



KA-3049N Hose Remover Plier

L: 220mm



KA-7770 Hose Clamp Pliers

Pliers for removing/ installation of hose clamps.



KA-2931 Hose Remover Plier – for fuel filter bolt (PATENTED)

- Special jaw design: flexibly fastens onto hose for easy pull-out
- Hose size: 1/4"~1/2"



KA-5014 Hose Clamp Plier

A new design plier for all kind of hose clamp, special design narrow space, tips and jaws swivel through 360 degrees.



KA-7183 2PC Multi-Purpose Hose & Wire Plier

- Capacity: 1/4" TO 3/4" OD
- Length: 8.5" & 10"
- Remove engine 1/4" air pipe
- Remove engine intake air pipe
- Remove spark plug lead
- Remove cooling water pipe
- L : 8.5" & 10"



KA-5133 Clic-R Collar Plier

- For releasing and re-fitting reusable hose clips.
- For type clic and clic-R
- Application: Audi, Citroen, Fiat, Mercedes, Opel/Vauxhall, Peugeot, Renault, VW etc.
- L : 180 mm



KA-3045A Hose Remover Plier

- Angular Twist Collars
- L: 200 mm



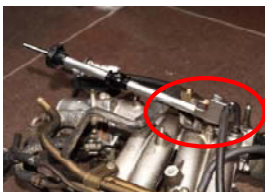
KA-1267 Hose Clamp Tension Device

- Made for self-gripping spring band hose clamps.
- For areas with restricted access.
- Work with Reversible Ratchet, 6-Point Socket or Flexible Extensions , Flexible Hex Nut Drivers & Screwdrivers for PH Screws.
- 6-point drive, 6mm
- Surface galvanized
- Jaw capacity 8-52mm



KA-7228 Hose Clamp

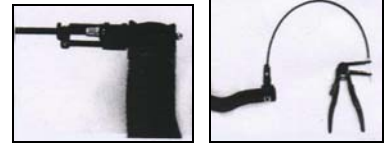
- Stop the oil flow and avoid damaging hoses.
- Adjustable for most kinds of flexible hoses, particularly for brake, fuel or cooling system hoses.
- Length 310mm, extension hose clamp helps repair work.
- Maximum application: 25.4mm
- Adjust the movable ball(1) and fit the width of hose, then screw the adjustable head(2).





KA-5122 Flexible Hose Plier

- For replacement of fuel , oil and water hose
- Hose clamp with flexible 630mm wire.
- Convenient for working hidden areas and long distance.



KA-5122A Hose Clamp Plier

- For VW, Audi 2.0 TDI
- Special jaw design for vw, audi 2.0 tdi engine lower water hose clamp
- Max clamp capacity: 55mm
- 630mm cable is flexibility enables user to reach, remove and lock clamp into the open position



KA-5122B Universal Hose Clamp Plier

- Specialty jawdesign will work on all 3 style hose clamps, standard, space saver & pre-opened.
- Strong ratcheting construction is more secure lock on hose clamp, less of a chance the clamp flying off causing an injury.
- 630mm cable is flexibility enables user to reach, remove and lock clamp into the open position
- The jaw open capacity from 7mm to 60mm



KA-7520 Flexible Cable Hose Clamp Removing Plier

- Flexible clamp fastener.
- Flexible cable for hard to reach places.
- Pliers latch in position to securely hold hose clamp when expanded.
- Adjustable cable tension.

Taiwan pat. Pending
U.S.A. pat pending
Germany pat. pending



KA-2448 2-IN-1 Flexible Hose Plier

- For replacement of fuel, oil and water hose.
- Replaceable clipping member on the same clamp handle.
- Hose clamp with flexible 580mm and 100mm wire.
- Convenient for working hidden areas and distance.



KA-2919
7" CLIC Type Clamp Plier
 Remove and replace clamp easily



KA-2920
7" Exclie and Clic GR1 Type Clamp Plier
 Remove and replace clamps easily



KA-5251 Hose Clamp Plier
 ■ Specially design to release and re-fit the reusable hose clips/ clamps.
 ■ Open and close the hose clips / clamps quickly and easily.
 ■ L : 150mm





KA-8346 Adjustable Style Hose Remover

- Tool consisting of a body and moving jaw that adjusts to fit hose diameter between Ø48 to Ø115mm.
- This tool specifically designed for removing hoses, quick and easily loosens and removes hoses with a simple forward and backward motion.
- Without needing screwdrivers and multi-grip pliers, no more torn hoses, no more damage to plastic couplings.



KA-8346A Adjustable Style Hose Remover

- Tool consisting of a body and moving jaw that adjusts to fit hose diameter between Ø24 to Ø53mm.
- This tool specifically designed for removing hoses, quick and easily loosens and removes hoses with a simple forward and backward motion.
- Without needing screwdrivers and multi-grip pliers, no more torn hoses, no more damage to plastic couplings.



KA-4302K 2pcs Hose Remover Set



Safety Wire Twisters

- Auto spring return
- Fast spiral action
- Aerospace standard

KA-1019-6 6" L without Reversible

KA-1019-9 9" L without Reversible

KA-1019-6R 6" L with Reversible

KA-1019-9R 9" L with Reversible



Long Handles Straight Pliers

- Long handles easy to reaches narrow area

KA-4283 Length: 11" (284mm)

KA-4283A Length: 16" (410mm)



KA-3047 Swivel Jaw Hose Clamp Plier

“+” Slot With Ratchet

- For corbin style & other hose clamps
- 2 pairs jaws included. Ratchet handle lock holds plier in clamp open position for easy removal & installation



KA-6706A Swivel Jaw Hose Clamp Plier

- Swivel jaws are slotted for positive holding of large or small clamps at angle.
- Ratchet action holds jaws closed in 5 different positions.
- Fits all automotive and appliance spring wire hose clamps.



KA-3048 Swivel Jaw Hose Clamp Plier

“V” Slot With Ratchet



KA-3049 Swivel Jaw Hose Clamp Plier

Removes and installs new style flat band hose clamps. Jaws rotate to grip at any angle.



KA-5156 Hose Clamp Plier (45°)

This plier features ratcheting mechanism holding the clamp in open position for easy removal & installation



KA-5157 Hose Clamp Plier (45°)

This plier features ratcheting mechanism holding the clamp in open position for easy removal & installation



KA-5158K Hose Clamp Set (45°)



KA-5159K Hose Clamp Set



KA-6706 Angled Flat Band Hose Clamp Pliers

Designed to remove and install flat band hose in hard-to-reach area. The pliers feature angled with rotating tips to grip clamps at any angle. Locking latch securely holds clamps in position

- Keep wire clamps spread open and free both hands.
- Finger tip “Position Lock” makes it ways to replace the lower radiator hose.
- 45° designed to fit some clamps deep position.

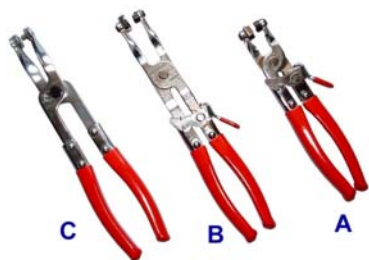


KA-3145 2PC HOSE CLAMP PLIER SET

Two pliers service all ring type or flat band type hose clamps. One cross slotted jaws plier & one wide flat band hose clamp jaws plier both pliers feature ratcheting lock mechanism holding the clamp in an open position for easy removal & installation.



KA-3144
Handle with coating



Spring-Clip Pliers

- For hose clips on cooling, heating, fuel or screen-washer systems.

KA-7766A Standard-reach model with lock and pivoting jaws

KA-7766B Long-reach model with lock and pivoting jaws

KA-7766C Slip-joint model



KA-7521K Universal Auto Hose Assemble And Disassemble Pliers Kit

- KA-7520 FLEXIBLE CABLE HOSE CLAMP REMOVING PLIER**
- KA-7183 MULTI-PURPOSE HOSE & WIRE PLIERS (Length 8.5")**
 - Easily removes stubborn hoses for use with air, water, gas, and fluid hoses.
 - 360 degree rotating headpieces to easily remove hoses at any angle.
 - For use with 1/4 - 3/4 inch hoses.
- KA-3047 SWIVEL JAW HOSE CLAMP PLIERS ("+" SLOT)**
 - Allows fast and easy clamp removal.
 - Pliers latch in position to securely hold hose clamp when expanded.
- KA-3048 SWIVEL JAW HOSE CLAMP PLIERS ("V" SLOT)**
 - Allows fast and easy clamp removal.
 - Pliers latch in position to securely hold hose clamp when expanded.
- KA-6708 SWIVEL JAW HOSE CLAMP PLIERS**
 - Allows fast and easy clamp removal.
 - Pliers latch in position to securely hold hose clamp when expanded

KA-5072 7pcs Hose Clamp Pliers Kit

Contents:

- KA-5072-A HOSE CLAMP PLIERS**
 - Allows for extra reach, removal and locking of clamps into open position.
 - Allows for removal of plastic and/or metal self-tightening hose clamps with diameters of 11/16" - 2-1/2" (18mm - 54mm)
 - Precision clamp on end of flexible cable allow for extended reach where other models cannot reach.
 - Pliers can be locked, freeing up your hands and making your job easier and faster.
 - Rubber dipped handle.
 - Pliers have a lifetime warranty.
 - Cable and spring are wearable items and must be replaced.
- KA-5072-B SWIVEL JAW HOSE CLAMP PLIERS ("+" SLOT)**
- KA-5072-C SWIVEL JAW HOSE CLAMP PLIERS**
 - Swivel jaws are slotted for positive holding of large or small clamps at any angle.
 - Ratchet action holds jaws closed in 5 different positions.
 - Fits al automotive and appliance spring wire hose clamps.
 - Allows fast and easy clamp removal.
 - Pliers latch in position to securely hold hose clamp when expanded.
- KA-5072-D ANGLED FLAT BAND HOSE CLAMP PLIERS**
 - Designed to remove and install flat band hose clamps in hard to reach areas.
 - Pliers feature angled jaws with 360° rotating tips to grip clamps at any angle.
 - Locking latch securely holds clamp in position.
 - Rubber dipped handle.
- KA-5072-D FLAT BAND HOSE CLAMP PLIERS**
 - Removes and installs new style flat band hose clamps.
 - Jaws rotate 360° to grip at any angle.
 - Rubber dipped handle.
- KA-5072-E CLIC-R COLLAR PLIERS**
 - For releasing and re-fitting reusable hose clips.
 - For type clic and clic-r.
- KA-5072-F HOSE REMOVER PLIERS**
 - Designed to allow easy removal of 5/32" to 1/2" vacuum and fuel hoses.
 - Rubber dipped handle.





KA-7790 Tube Blocking Pliers

For releasing and re-fitting the re-usable hose clips types CLIC and CLIC-R. Suitable for VW-Audi, Citroën, Mercedes, Opel/Vauxhall, Peugeot, etc.



KA-3281 Fuel Line Pliers (VAG)

- To operate the spring band hose clamps.
- For the hose clamp with three ends located on fuel lines and tank ventilation lines on VW, AUDI, SEAT, SKODA
- Chrome-Vanadium
- Nickel-plated surface



KA-3525 Fuel Feed Pipe Pliers

To undo quick release connections on fuel feed pipe lines. Application: Opel/Vauxhall, Fiat, GM, VW etc.



KA-4025 Fuel Line Pliers

- Suitable for VW-Audi, Fiat, GM, Opel, Mercedes etc. (e.g. Mercedes M-Class with Petrol engines.)
- For removal and replacement of the connections on the in-line Fuel Filter. Required when replacing the Fuel Filter or during engine repairs.
- Removal of Connector: Pull the connector backwards with the Pliers.
- Replacing the Connector: Slide the connector forwards with the Pliers.



Fuel Line Coupling Release Tool

Designed to service special quick connect coupling found on fuel feed and return lines located at the engine. Simply place tool around the fuel line and push into the female connector to release the male connector.

KA-5024 5/16" & 3/8"

KA-5024A 1/2" & 5/8"



KA-7233K Fuel Line Disconnect Tool Set

- These tools can be used on many other makes of car where the connectors are the same.
 - Simple operation will tell you when these tools will be used on other makes or models.
- It is also possible that owing to a change in a given car model or connector that they do not work on all Renault, or Opel/G.M. cars.

OPEL/G.M.
BUICK-PONTIAC

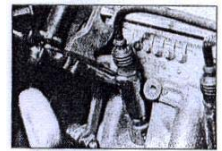
Ø8mm
RENAULT
GASOLINE ENGINES
FORD-MERCURY
DODGE-CHRYSLER

Ø10mm
RENAULT
DIESEL ENGINES
FORD-MERCURY
DODGE-CHRYSLER



KA-7182 Spark Plug Socket Pliers

- 200mm long, for R & R spark plug connectors.
- Recommended for models 190 E & 300 E or most European cars.
- Length : 220mm



KA-7182A Spark Plug Socket Plier

- Safely remove spark plug cables & prevent cable damage, pliers JAMD;ES WOTJ a JEAUV-DUTY plastic for a sure grip.
- For MERCEDES - BENZ
- Length: 220mm



KA-7014 Spark Plug Terminal Pliers

- Safely removes spark plug cables. Pliers prevent damage to cables. Handles and jaws are coated with heavy-duty plastic for shockproof sure grip.
- L : 250mm



KA-7006 Spark Plug Wire Pliers

Removes spark plug wires safely with insulated handles and jaws small indentations in the jaws allow gripping even a bare terminal with engine.
Running. OAL: 7" (18CM)



KA-7010 Heavy Duty Spark Plug Boot Plier

- This long reach spark plug boot pliers is designed to remove hard-to-reach spark plug boots.
- Double insulated to give complete protection against shock.
- Jaws is double dipped to assure complete coverage of all contact areas. Angled nose easier access to boots.
- Size: 10" (250mm)
- Warning: to be used only when engine is turned off



KA-7011 Spark Plug Wire Plier

- Length: 200 mm
- Small design is good to use in a narrow space.
- In order to fit the angle of the electric wire, the head of the remover is use a special curve design.
- Special design on the head of the remover is holding the electric wire tight.
- Safely removes spark plug cables. Pliers prevent damage to cables. Handles and jaws are coated with heavy-duty plastic for shockproof sure grip.



KA-2481A Spark Plug Pliers

- Made of 1/8" (3.2mm) steel with black-oxide finish.
- Spring-loaded for one-hand operation.
- Overall length: 11-1/2" (292.1mm)
- Extra long and thick polyethylene handles help guard against shocks.
- Specially designed head allows access on all angle pull heads and hard-to-reach applications like: Nissan naps-2 V30, General Motors V-6, 231 Chevette, 1.6, 1.8 with air and others.
- Unique posi-grip lips break tight insulators loose with just a twist.

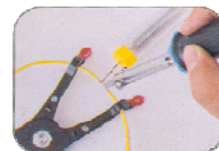
KA-81A Straight nose, Orange handles, Nose angle bent at 120°

KA-81B Angled nose, green handles, Nose angle bent at 45°



KA-5075 Soldering Aid Tool

- Designed for holding two wires while they are soldered
- On certain electrical systems it is not possible to use connectors as this creates resistance, therefore the wires need to be soldered.



KA-3523 Glow-Plug Connector Pliers (straight)

- To remove stubborn - awkward to reach Glow-Plug connectors, commonly on the latest generation of engines.
- e.g. Mercedes, BMW, VW-Audi etc.



KA-3524 Glow-Plug Connector Pliers (angled)

- To remove stubborn - awkward to reach Glow-Plug connectors, commonly on the latest generation of engines.
- e.g. Mercedes, BMW, VW-Audi etc.
- Version angled at 90°



KA-2040 Relay Plier

- Can easy and safe to installing or removing the relays, even small ones.
- Applicable: OPEL, FORD, MAZDA, CHRYSLER, NISSAN, VW passenger cars, MERCEDES-BENZ, MAN, IVECO commercial vehicles



KA-2040A Relay Plier (60°)

- Can easy and safe to installing or removing the relays, even small ones.
- Applicable: OPEL, RENAULT and NISSAN
- Jaws 60° bent



- (1) **KA-6863 Relay and Fusible Link Plier**
- (2) **KA-6626 Angle Tip Relay Plier**



Screw-Type Hose Clamps

- Cooling systems.
- Fuel Lines.
- Vacuum hose.

KA-7769A Ø 27mm, Length: 65mm

KA-7769B Ø 45mm, Length: 85mm



Track-Rod End Release Tools

- 3/8" Square Drive

KA-7773A Inside Ø 36mm, Ø 70 x 130 x 25

KA-7773B Inside Ø 41mm, Ø 75 x 135 x 25



KA-2404 Plug Weld Plier

- L:220mm
- Weld dose not stick to copper alloy backing plate

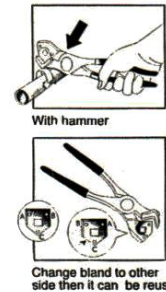


Tubing Cutter

For rubber & P.V.C hose etc...

KT-25 6-25mm

KT-38H 6-35mm



KA-4036 Tubing Bender Pliers

Unique head design bends tubing without collapsing the tube.
Won't mark tube surface.

The handles are more than 3-1/4" apart for proper leverage when handling even steel tubing.

- Bends 3/16" & 1/4" brake lines without kinking or flattening, especially in tight spots.
- Bends all types of 3/16" & 1/4" OD tubing.



KA-7771 Driveshaft Tie Pliers

Applicable on Audi, BMW, Chrysler, Ford, GM, Honda, Mazda, Mercedes, Nissan, Opel/Vauxhall, VW, etc.

- For crimping driveshaft bellows ties.
- Suitable for Oetiker fittings.



KA-7040 Driver Joint Inserter

L: 10-1/2"



KA-6065 Fuel Tank Sender unit Wrench

Use instead of hammer and punch when it is necessary to remove or install fuel tank lock rings. Fits 1974 thru 1984 Ford rear wheel drive vehicles with mechanical fuel pumps.



KA-6063 Fuel Tank Sender unit Wrench

Use instead of hammer and punch when it is necessary to remove or install fuel tank lock rings. Fits 1984 thru current Ford vehicles with CFI and EFI fuel systems.



KA-6444 Fuel Injection Rotating Tool

Use on trucks/buses with 6.9 & 7.3 liter Navistar engines. This tool lets you make accurate timing adjustments which are necessary for maximum fuel economy. The tool grips the front of the fuel injection pump securely so you can rotate it to make the needed adjustments. It eliminates time-consuming methods previously used.



KA-7780 Oil Service Wrench

- For servicing the oil filler and oil drain plug gearbox, differential, oil pan such as Alfa ROMEO, FIAT, LANCIA
- For 12mm inside hexagonal screws.



KA-80/15H Cap Oil Filter Wrench W/ Handle

- 80mm (3-9/64") - 15 flutes - 1 step
Fits Hastings, Fram, Purolator, Nissan, Honda. Motorcraft, Mazda, Lsuzu, Subaru, Opel, Toyota, etc...
- Hand: 28mmL



Hinged Chain Wrench For Oil Filters

- Burnished and chrome finish.

KA-3973 Suitable for filter Ø 60~105 mm. Length 350mm

KA-3974 Suitable for filter Ø 60~160 mm. Length 520mm



Oil-Filter Wrench With Thin Double Chain

KA-3961 suitable for filter Ø 60 ~ 115mm

KA-3961A suitable for filter Ø 60 ~ 170mm



Heavy Duty Swivel Handle Drive Oil Filter Wrench

(Head: 3.0mm, Handle:3.0mm, band: 0.8mm)

- KA-6689-1** capacity: 2-3/8" to 2-7/8" (60mm to 73mm)
- KA-6689-2** capacity: 2-7/8" to 3-3/8" (73mm to 85mm)
- KA-6689-3** capacity: 3-3/8" to 3-3/4" (85mm to 95mm)
- KA-6689-4** capacity: 3-3/4" to 4-3/8" (95mm to 111mm)



Heavy Duty Swivel Handle Drive Oil Filter Wrench

- KA-6689H-1** capacity: 2-3/8" to 3" (60mm to 76mm)
- KA-6689H-2** capacity: 2-7/8" to 3-3/8" (73mm to 85mm)
- KA-6689H-3** capacity: 3-3/8" to 3-7/8" (85mm to 99mm)
- KA-6689H-4** capacity: 3-3/4" to 4-3/8" (95mm to 111mm)



KA-2024 Oil Filter Wrench

Make of metal and handle coated w/ vinyl, three section adjustable diameter 2.76" -3.86" (70~98mm)



KA-5165
Adjustable Oil Filter Wrench
fits: 80 ~ 115mm



KA-5166
Adjustable Oil Filter Wrench
fits: 65 ~ 80mm



KA-2927
Oil Filter Wrench- Adjustable
Works easily, effectively with adapter sleeve, holding mechanism, adjustable bar, adapter, flexible parts and torsion spring.



KA-6835
All In One Oil Filter Plier
Cap: 53mm~118mm (2-1/8"~4-5/8")



KA-2018 Oil Filter Wrench
Cap: 60~90mm(2-1/2"~3-1/2")



KA-2017 Oil Filter Wrench
Cap: 85~115mm(3-1/2"~4-5/8")



Swivel Jaw Filter Wrench Plier

- Jaws swivel 90° in either direction to access most oil and fuel filters.
- Works where other oil and fuel filter pliers and wrenches don't.
- Jaws adjust to 4 positions, (30° increments) to fit most applications.
- Sure grip teeth prevent slipping.
- Cushioned handles provide comfort.



- KA-3999** Slip-joint handle offers a big range from 2-1/4" to 4-3/4" (57mm to 120mm).
- KA-3999A** Slip-joint handle offers a big range from 3-1/8" to 7-1/2" (80mm to 190mm).



KA-3608 Fuel filter Wrench – Ø108

- Drive: 3/8"
- Profile: Ø 108 mm, 46 Rillen

Suitable for Peugeot, Citroen, Renault e.g. with HDI diesel engines.

The fuel filter key is required to remove and install the fuel filter cap when replacing the fuel filter cartridge.



Two Way Oil Filter Wrench - Reversible

- Serrated jaw for better grip
- 1/2" drive or 21mm wrench

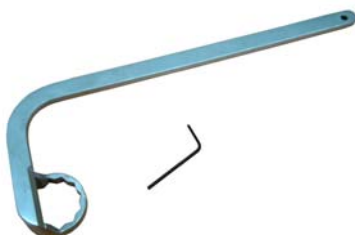
- KA-2928** For small oil filter can, Sizes: 60-80mm
- KA-2928A** For large oil filter can, Sizes: 80-120mm
- KA-2928C** For extra large oil filter can, Size: 110-140mm



KA-3627 Oil Filter Wrench

Allows quick and easy removal of stubborn Oil Filters.

Ø 76 mm • 12 Ribs • with grip Ford with 1,8 diesel-engines and motorcraft-filter EFL 344 • Peugeot with Purflux-filter • Renault (R5, Twingo, Rapid with C-Petrol engines; Clio, Kangoo with E-Petrol engines; R19, Espace III, Laguna with F-Petrol engines; Megane, Kangoo with K-Petrol engines and filter; R21, Espace I + II with F-Petrol engine; Trafic with J-Petrol engine and filter) • etc.



KA-3626 Differential Filter Spanner Wrench

- Size: 46 mm x 12 PT
- Hex Key: 5 mm

Applicable: VW5+6-Gang Schaltgetriebe Allrad (Bora, Golf IV, Sharan, Skoda-Octavia)



2 Way Rubber Strap Wrench

- KA-7030A** Cap: 4" (100mm)
- KA-7030B** Cap: 6" (150mm)



Heavy-Duty Filter Wrench

- KA-7317A** Cap: 6"(150mm) 1/2"dr.
- KA-7317B** Cap: 3-3/4"(95mm) 1/2"dr



Heavy Duty Square Drive Oil Filter Wrenches

USE WITH 1/2" SQUARE DRIVE TOOL.

- KA-6803A** fits filters 4-1/8" to 4-3/4" (105-120mm)
- KA-6803B** fits filters 4-1/2" to 5-1/4" (115-135mm)
- KA-6803C** fits filters 5" to 5-3/4" (125-145mm)

Heavy Duty Square Oil Filter Wrench — Large Type For TRUCK

- 1/2" Dr
- For truck use
- Band : High: 75mm(3"), Thickness: 1.0mm

- KA-5082** Capacity: 105 -125mm
- KA-5083** Capacity: 120 - 138mm
- KA-5084** Capacity: 125 ~ 145mm



KA-2029C 2 Way Oil Filter Wrench

- 3/8"DR.
- 1 step 65~76mm (2-9/16"~3")
- 2 step 85~96mm (3-11/32"~3-25/32")

Fuel Tank Sender Spanner Set - Adjustable

- Universal application
- For removing and replacing the Plastic Retaining Ring on the sender Unit on Fuel Tanks. Drive 24 mm



KA-2804A
Tank Sender Spanner
Ø 110 - 170 mm



KA-2804B
Tank Sender Spanner
Ø 80 - 122 mm



KA-2804C
Tank Sender Spanner
Ø 75 - 160 mm



KA-2023 Oil Filter Wrench

Cap: 65~110mm



KA-2011 Chain Oil Filter Wrench

Hand: 6"
Cap: 1/2" to 4-3/4" (120mm)



KA-2012 Chain Oil Filter Wrench

For removing oil filter cartridges up to 120mm (4-3/4") diameter 1/2" Square drive with 22mm Nale hex adaptor.



KA-6802 Chain Oil Filter Wrench

Hand: 6"
Cap: 1/2" to 6" (152mm)



KA-6361 Chain Oil Filter Wrench

L: 8" (200mm)
Cap: 120mm



KA-6360 Chain Oil Filter Wrench

1/2" dr.
Cap: 120mm (4-7/8")



KA-2037 Chain Oil Filter Wrench 10" Vice Grip

Cap: 1/2" to 6" (152mm)



KA-2009 Chain Oil Filter

Hand: 12"
Cap: 1/2" to 6" (152mm)



KA-2008 Chain Oil Filter

Hand: 20"
Cap: 1/2" to 6" (152mm)



KA-2016 Nylon Strap Wrench

Heavy duty aluminum handle with strong nylon web strap. Handle is 300mm long. Strap is 400mm long 25mm wide.



KA-6359 Chain Oil Filter Wrench

3/8" & 1/2" dr. cap: 300mm (12")



KA-2013 Nylon Strap Oil Filter Wrench

Use wrench on oil filters up to a 6" (152mm) capacity. Strong nylon belt will not slip. Use with 1/2" square drive tools. 2" Wide



Strap Wrench for Oil Filters

- For removal of oil filters in car engines.
- Special tool steel body, mat chrome plated.
- High-strength fabric strap, Ø160mm

KA-2015 Belt L: 900mm

KA-2015A Belt L: 700mm



KA-3269 Vectran Heavy-Duty Strap Wrench

- Handle any shape object up to diameter of 12"(300mm). The Vectran webbing is the toughest material available.
- Length: 15-4/3"(400mm) Lightweight aluminum handle.
- Strap Length: 38"(965mm)
- Width: 1-1/2"(38mm)



KA-2001 Oil Filter Wrench

- 3 Leg two way size: 65mm to 120mm (2-9/16" to 4-3/4")
- Use with 3/8" & 1/2" Square drive tool, with 21mm hexagon adaptor.



KA-2002 Oil Filter Wrench

- 3 Leg two way size: 65mm to 120mm (2-9/16" to 4-3/4")
- Use with 3/8" & 1/2" Square drive tool, with 21mm hexagon adaptor.



KA-2003 Oil Filter Wrench

- 3 Leg two way size: 65mm to 120mm. (2-9/16" to 4-3/4")
- Use with 3/8" & 1/2" Square drive tool, with 21mm hexagon adaptor.



KA-2004 Oil Filter Wrench

- 3 Leg two way size: 65mm to 120mm (2-9/16" to 4-3/4")
- Use with 3/8" & 1/2" Square drive tool, with 21mm hexagon adaptor.



Oil Filter Wrench

- KA-2005** 63~102mm
- KA-2005A** 63~120mm



KA-2006 Oil Filter Wrench

- 3 Leg two way size: 65mm to 120mm (2-9/16" to 4-3/4")
- Use with 3/8" & 1/2" Square drive tool, with 21mm hexagon adaptor.



KA-2007 Oil Filter Wrench

- 3 Leg two way size: 65mm to 120mm (2-9/16" to 4-3/4")
- Use with 3/8" & 1/2" Square drive tool, with 21mm hexagon adaptor.



KA-4438 Trucks Oil Filter Wrench

- 3 Leg 1 way 1/2" square drive
- Capacity: 75~130mm (3"~5-1/8")



KA-4373 Oil Filter Wrench

- 3/8" & 1/2" dr.
- Cap: 1-3/4"~4-3/8" (45~111mm)



Reversible Filter Wrench

- 3/8"DR.
- Steel jaw grip filter without slipping

KA-6628 cap: 2-3/8"-4" (60-100mm)

KA-6628A cap: 3-1/8"-3-7/8" (80-98mm)



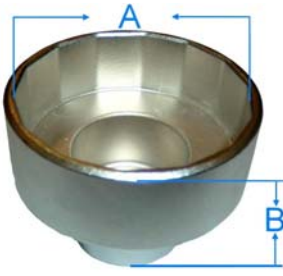
KA-4438N Oil Filter Wrench

1/2" DR. 80-120MM



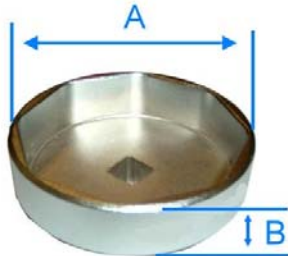
KA-4438NL Oil Filter Wrench

1/2" DR. 95-165MM



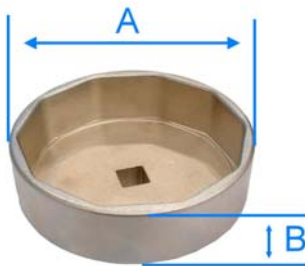
KA-7782 Oil and Diesel Oil filter Wrench

- 14 sides
- A: 74mm, B: 68mm



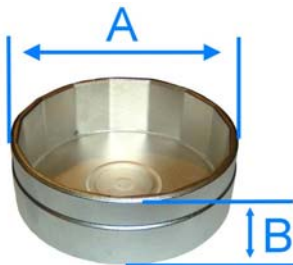
KA-7783 Oil and Diesel Oil filter Wrench

- 8 sides
- A: 74mm, B: 35 mm



KA-7784 Oil and Diesel Oil filter Wrench

- 10 sides
- A: 92mm, B: 43 mm



KA-7785 Oil and Diesel Oil filter Wrench

- 15 sides
- A: 105mm, B: 67 mm



KA-3625 Oil Filter Wrench

- 1/2" Dr. 22 mm Hex

For VW-Audi diesel engines with MANN-, Mahle- or Knecht- filter.
This tool is especially applicable for removal of oil filters in narrow space conditions.

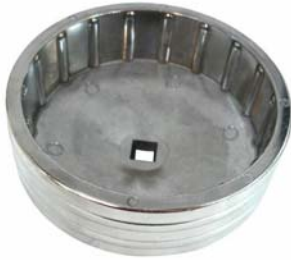


KA-3625A Oil Filter Cap Wrench

- 12.5mm (1/2") square driver
- Hexagon 22mm
- C.R.V
- For KNECHT and MAHLE oil Filter: OC 51, OC 83 and OC 214
- For MANN oil and fuel filters: W 920, W 920/7, W 930, W 930/9, W 940, W 940/15, W 940/20, W 940/25, W 950, W 950/1, W 950/5, W 962/2, W 962/7, W 962/14, W 1130/1, WK 940/4, WK 950/4, WK 962/5, WP 931 and WP 962/3



KA-6976 Oil Filter Wrench
Capacity: 63 – 83mm



KA-3621 Oil Filter Wrench

- 3/8" Dr. Hex
- For Oil Filter with Ø 86mm and 18 Ribs.
- Applicable for VW-Audi, Seat, Škoda etc.
- Especially suitable for VW (e.g. Golf III / Passat up to '96 with TDI-engine), Audi (e.g. A6 up to '96 with TDI-engine 115 hp), Renault (e.g. Clio; Rapid 1,9 D and Laguna, Safrane; Espace III 2,1 D)...etc



Oil Filter Steel Framework Wrench

- KA-3620** MULTIJET 1.9,
16 sides Ø 75mm
- KA-3620A** 16 sides Ø 87mm



KA-6945N Oil Filter Key

- Drive: SW 22 mm
- For Oil Filter with 74mm and 14 Flats.
- Applicable on VW-Audi, BMW, Citroën, Fiat, Ford, Lancia, Mazda, Mercedes, Nissan, Opel/Vauxhall, Peugeot, Porsche, Renault, Suzuki, Toyota, etc.
- Especially suitable for Audi A3 TDI, VW Golf IV TDI, BMW E36 with 4-cylinder engines, Porsche Cayenne, Boxster, 911 and Mercedes CDI engines, as well as C- and E-Class with 4- and 6-cylinder petrol engines.



KA-3669 Oil Filter Wrench

- Size: 16flutes x 86.6mm x 3/8"
- Material: Aluminum
- Application: BMW-335i 3.0L Twin Turbo/ 535i 3.0L Twin Turbo/ 3series (E90)/ X6 3.0L Twin Turbo
Volvo- all models (1999-2006) (exc. 2005 40 & 50 series)



KA-3578 Hyundai Oil Filter Wrench

- Size: 15flutes x 88.8mm x 3/8"
- Material: Aluminum
- Application: for Hyundai / Kia



Caution: Only when replacing a new filter, the torque wrench is available. Please DO NOT use the torque wrench since removing filter.



KA-3579 Oil Filter Wrench

- Size: 14flutes x 64.5mm x 3/8"
- Material: Aluminum
- Application:
 - Toyota: 2007-2008 3.5L V6, GS300(2006), IS250(2006-), IS350(2006-), ES350(2007-)
 - Lexus: GS350(2007-), GS450h(2007-), LS460(2007-), RX350(2007-), LS600h L(2008)



Caution: Only when replacing a new filter, the torque wrench is available. Please DO NOT use the torque wrench since removing filter.



KA-3579A Toyota Oil Filter Wrench

- Size: 14flutes x 64.5mm x 3/8"
- Material: Aluminum
- Application: Allion, Auris, Corolla axio, Corolla fielder, Corolla rumion, Isis, Ist, Noah, Premio, Prius, Voxy, Wish



Caution: Only when replacing a new filter, the torque wrench is available. Please DO NOT use the torque wrench since removing filter.



KA-5130 Truck Oil Filter wrench (strap type)

- Use with any 1/2" power bar
- Cap: 6" (150mm)



KA-2061 Oil Filter Wrench - Strap type

- With 1/2" square drive.
- Heavy duty bonded strap.
- Especially for trucks, agricultural & building machines.
- For oil filters or other round shaped bodies up to 180mm (7")





KA-4380 1/2" Dr. Oil Filter Wrench



Item No.	Specification	Application	Round
KA-4380-1	15P x 100mm	Fits fram, Motorcraft, Wix, Isuzu and Mitsubishi, etc...	
KA-4380-3	14P x 68mm	Fits Hastings, Mazda, Ford, Escort, Capri, Subaru, Fran Ph6607 (those fram filters made in Korea), Motor craft FL816 etc...	
KA-4380-6	18P x 87mm	VW, Golf, (MKIII. Tdi, passat Tdi) Audi A6Tdi, Renault (Clio/. Rapid 1.9D Laguna. Safrane. Espace 2.1D). Citroen, Peugeot, Renault	•
KA-4380-8	15P x 90mm	Fits Honda, Accord, Mitsubishi, Mopar, Isuzu etc...	
KA-4380-9	15P x 100mm	Fits fram, Motorcraft, Wix Isuzu and Mitsubishi etc...	
KA-4380-10	15P x 81mm	Fits Wix filters as made in Canada including PH4386, PH4967, PH6017, PH6018, Daihatsu etc...	
KA-4380-11	14P x 65.5mm	Fits same filters as made in Canda including PH4386, PH4967, PH6017, PH6018m Daihatsu, etc...	
KA-4380-12	15P x 80mm	Fits Hastings, Fram, Purolator, Nissan, Honda, Motorcraft, Mazda, Isuzu, Subaru, Opel, Toyota etc...	
KA-4380-14	15P x 107mm	Volvo (C70, S70, V70, Tdi TD) (Turbo. Diesel. 850 Tdi. Diesel) etc...	
KA-4380-15	14P x 76mm	Fits Champion, Champ Lee, Purolator, Mopar, VW, Porsche, Mercedes Benz, BMW, Audi (I.B.A3TD) Opel, etc...	
KA-4380-16	15P x 75mm	Fits Fram, AC, Saturn, etc...	
KA-4380-17	15P x 95mm	Toyota #15600-41010, Alfa, GM, Ford, Chrysler, etc...	
KA-4380-18	15P x 92.5mm	Fits Casite, Champ, Champion, GM Fram, Hastings, Opel, Mazda, Volvo, Mitsubishi, Purolator, Wix, Nissan, VW, Porsche, Renault, Ford, Honda, Audi, etc...	
KA-4380-19	12P x 76.5mm	Fiat(Z.B. Ducato, Scudo, Ulysee), Renault(Megane, Laguna, Espace III) etc...	•
KA-4380-20	18P x 96.5mm	Audi (A4, A6. Tdi), VW(Passat 97 Tdi), Renault(Laguna 2.2d, Safrne 2.2D), Espace 2.2D R19 RAPID. MEGAN 1.9/2.1D. Tdi, etc...	
KA-4380-21	45P x 93mm	VW-Audi(Tdi 2.4, 2.6, 2.8L) etc...	•
KA-4380-24	14P x 74mm	Toyota/Lexus, VW-Audi, Ford, BMW, Opel, Mercedes-Bena, Peugeot, Citroen, Renault, Mazda, etc...	
KA-4380-31	15P x 90mm	Fits Honda, Accord, Mitsubishi, Mopar, Isuzu etc...	
KA-4380-33	36P x 93mm	Fits Motorcraft only-FL1A, FA1B, FL300, FL820, Ford etc...	
KA-4380-34	15P x 73.5mm	MF, Audi, GM, Rover, Chrysler, etc...	
KA-4380-35	14P x 67mm	Ford, Mitsubishi, Mazda, etc...	
KA-4380-36	14P x 64mm	Toyota(2007)	
KA-4380-37	15P x 88mm	Hyundai, Kiz3.3L(2007)	



KA-3215



KA-3215A



KA-3216



KA-3216A



KA-3217

Oil Filter Socket - 3/8"x32x30mmL

KA-3215 Black Finished

KA-3215A Chrome Plated

Oil Filter Socket - 3/8"x36x30mmL

KA-3216 Black Finished

KA-3216A Chrome Plated

KA-3217
Oil Filter Socket

- 3/8"x27x30mmL
- Black Finished



KA-3218K 3pcs Oil Filter Socket

KA-3215 3/8"Dr.x32x30mmL

For: VAUXHALL/OPEL: ASTRA, CORSA ZATIRA

KA-3216 3/8"Dr.x36x30mmL

For: VAUXHALL/OPEL: OMEGA D1 16V

VECTRA, ZAFIRA > 98

BMW: 16V

FORD: MONDEO 2.0D 16V DURA TORQ ENGINE,

FRANSIT 2.5 & 2.0 DURA TORQ DIESEL ENGINE,

MERCEDES: 116MB ENGINE VITO CDI

KA-3217 3/8"Dr.x27x30mmL

For MERCEDES: ACLASS



KA-2893K 6-IN-1 Oil Filter Wrench Kit

■ 6 flute:24,27,30,32,36,38mm

■ Adapter: 1/2" DR (F) X 3/8" (M)

■ Applications:

24mm 2004 BMW 5 Series, 7 Series and X5 with V8 motor (N62).

27mm Mercedes: C 230(4 cylinder) 2003

32mm GM: newer models with 4 cylinder Ecotec engine. Saab:9-3 2003. Saturn: Ion 4 cylinder Ecotec.

36mm Mercedes-Benz-OM 604, 605 and 606.

VW-For R & R of oil filter cartridge element on VR6 engines.

BMW-M52, M60, M62, M70, M73. engines

38mm Vauxhall Vectra 2 litre diesel engines.



KA-2893K-4 4 pcs Oil Filter Cap Wrench Set

■ Size: 24, 27, 32, 38mm

■ 3/8" square drive

■ Material: Chrome-vanadium steel

■ Applications:

27MM MERCEDES A CLASS

32MM VAUXHALL/OPEL: ASTRA, CORSA, ZAFIRA

38MM VAUXHALL/VETRA 2 LITER

Diesel engine



KA-2893K-5 5 pcs Oil Filter Cap Wrench Set

■ Size: 24, 27, 32, 36, 38mm

■ 3/8" SQUARE DRIVE

■ MATERIAL: CHROME-VANADIUM STEEL

■ APPLICATION:

24MM CADILLAC 36

27MM MERCEDES A CLASS

32MM VAUXHALL/OPEL: ASTRA, CORSA, ZAFIRA

36MM VAUXHALL/ OPEL: OMEGA DL 16V

VECTRA, ZAFIRA 1998 LATER

BMW: 16V

FORD: MONDEO 2.0D 16V DURA TORQ ENGINE,

TRANSIT 2.5 & 2.0 DURA TORQ

DIESEL ENGINE

MERCEDES: 116MB ENGINE VITO CDI

38MM VAUXHALL/VETRA 2 LITER

Diesel engine



KA-2893K-7 5pcs Oil Filter Cap Wrench Set

■ Size: 24, 27, 29, 32, 35/36, 38, 30mm

■ For use with most popular vehicles

■ Applications:

24MM FOR USE ON CADILLAC 36

27MM FOR USE ON MERCEDES A CLASS,VW, 2.8L, 3.2L & 3.6L V6 USED IN CADILLAC CTS, STS,SRX,BUICK RENDEZVOUS ULTRA,BUICK LACROSSE CXS,SATURN L3000,SAAB 9-5 & MERCEDESE 1.8L

29MM(1-1/8") FOR DODGE CUMMINS FUEL FILTER HOUSING

32MM FOR USE ON 2.2 SATURN ECOTEC,SAAB AND GM

35/36MM: FOR FORD 6.0L DIESEL FUEL AND OIL FITER HOUSINGS,MINI COOPER AND SOME BMW OIL FILTER HOUSINGS,AND MACK TRUCK OIL FILTER HOUSING.

38MM FOR USE ON VAUXHALL/VECTRA 2 LITER DIESEL ENGINE

30MM FOR KOREAN CAR USE



KA-4423K
13pcs Cup Type Oil Filter Wrench Kit



KA-4439K
16pc Cup Type Oil Filter Wrench Kit

These cup-type filters are made of 7 & 16 gauge construction and are able to withstand up to 85 ft. lbs. of torque. Cup-type design grips like a socket minimizing the possibility of crushing filters. Fits 3/8" or 1/2" square drive tool Coated with electro-black oxide finish for protection against rust.

PARTS.NO.	Description	KA-4423K	KA-4439K
KA-66/6	66mm (2-19/32") - 6 flutes - 1 step Fiat (Punto, 1.2) Renault (Clio 1.2 Express, Kangoo, Rapid, Twingo) etc...	•	•
KA-74/76	74 to 76mm (2-29/32" to 3") 15 flutes - 2 step Fits Fram, Ac, Saturn, Opel, VW, Audi, Mercedes, filters.		•
KA-76/8	76mm (3") - 8 flutes - 1 step Fiat (z.B. Marea), Lancia (z.B. Delta) etc...	•	•
KA-76/12	76mm (3") - 12 flutes - 1 step Fiat (z.B. Ducato, Scudo, Ulysee), Renault, (Megane.Laguna.Espace III.) etc...	•	•
KA-76/14	76mm (3") - 14 flutes - 1 step Fits Champion, Champ Lee, Purolator, Mopar, VW, Porsche, Mercedes, BMW, Audi, Toyota, Opel, filters.		•
KA-86/16	86mm (3-3/8") - 16 flutes - 1 step Volvo (S40, S60, S70, S80.) etc...	•	•
KA-86/18	86mm (3-3/8") - 18 flutes - 1 step V.W. Golf. (MKIII. Tdi, passat Tdi,) Audi A6 Tdi, Renault (Clio, Rapid 1.9D Laguna.Safrane. Espace 2.1D). Citroen, Peugeot, Renault, etc...	•	•
KA-92/10	92mm (3-40/64") - 10 flutes - 1 step Fiat, Cinquecento. Coupe. Croma, Fiat, Panda, Regata, Ritmo Fiat, Seicento, Tempra.Tipo, Lancia (Beta, Dedra, Kappa, Monte, Carlo.Prisma, Thema.Trevi) etc...	•	•
KA-93/15	93mm (3-21/32") - 15 flutes - 1 step Fits Casite, Champ, Champion, GM, Fram, Hastings. Purolator, Wix, Nissan, Volvo, Mazda, Audi, VW, Porsche, Renault filters.		•
KA-93/45	93mm (3-21/32") - 45 flutes - 1step VW-Audi. (TDi 2.4, 2.6, 2.8L) etc...	•	•
KA-96/18	96mm (3-3/4") - 18 flutes - 1 step Audi (A4 Tdi, Vw Passat 97 Tdi) Renault (Laguna 2.2d, Safrane 2.2D, Espace 2.2D, R19 2.2D Rapid, Megane.1.9/2.1D.Tdi) etc...	•	•
KA-106/15	106mm (4-11/64") - 15 flutes - 1 step Fiat(Ducato 2.5D, Td) etc...	•	•
KA-108/15	108mm (4-8/32") - 15 flutes - 1 step Volvo (C70, S70, V70, Tdi, TD) (850 Tdi, TD) etc...	•	•
KA-108/18	108mm (4-8/32") - 18 flutes - 1 step Renault (Espace, Laguna, Master, Safrane, Traffic 2.4, 2.5, 2.8D, TD) etc...	•	•
KA-65/120	3 legged oil filter tool 65 -120mm (2-1/2" to 4-3/4").	•	•
KA-9.5mm	Adaptor 1/2" N 3/8" Square drive Tool.	•	•



KA-4426K
9pcs 1/2" Dr. Oil Filter Wrench Kit

KA-4427K
9pcs 3/8" Dr. Oil Filter Wrench Kit

KA-4427KA
8pcs 3/8" Dr. Oil Filter Wrench Kit

These cup-type filters are made of 7 & 16 gauge construction and are able to withstand up to 85 ft. lbs. of torque. Cup-type design grips like a socket minimizing the possibility of crushing filters. Fits 3/8" or 1/2" square drive tool Coated with electro-black oxide finish for protection against rust.

PARTS NO.	Description	KA-4426K	KA-4427K	KA-4427KA
KA-27/6	27mm – 6 Flats for MERCEDES and SMART.		•	•
KA-32/6	32mm – 6 Flats for GM, Opel/Vauxhall 4-cyl. GM 2.2 liter Ecotech engines e.g. X10XE, X12XE, Y17DT, Y17DTL engines and Mercedes HGV's e.g. OM 364, OM 366 engines.		•	•
KA-36/6	36mm – 6 Flats MERCEDES BENZ (AXOR BR400, ATEGO BR900, ACTROS BR500) / SCANIA (PDE V8-MOTOR, HPI-MOTOR)	•	•	•
KA-74/14	74mm – 14 Flats MERCEDES BENZ (Sprinter Motor Version 600) / VW (Transporter)	•		
KA-75.6/14	75.6mm – 14 Flats Volvo models 99~04		•	•
KA-76/12	76mm – 12 Flats Fiat (e.g. Ducato, Scudo, Ulysee), Mercedes (all with Purflux Filter LS 918), Renault (e.g. Megane, Laguna Espace III, Trafic 1,9 diesel, Master 1,9 diesel), Honda (e.g. Prelude BA4 2,0 16V engine), Opel (e.g. Vivaro), etc.		•	•
KA-76/14	76mm – 14 Flats Newer Mercedes Benz with Threaded cap		•	•
KA-86/16	86mm – 16 Flats Applicable: Volvo models 99~04		•	•
KA-93/15	93mm – 15 Flats VOLVO, VW, AUDI, RENAULT, PORSCHE, OPEL, NISSAN		•	•
KA-106/15	106mm – 15 Flats MAN (8-10 To. - Serie L2000) SCANIA (PDE-Motor) / FIAT (DUCATO 2.5D/TD) / IVECO	•		
KA-107/15	107mm – 15 Flats VOLVO / IVECO / RENAULT / SCANIA	•		
KA-108/15	108mm – 15 Flats VOLVO / IVECO / RENAULT / SCANIA	•		
KA-108/18	108mm – 18 Flats RENAULT Transporter (Master, Traffic 2.4 / 2.5 / 2.8 D/TD) / OPEL (Movano)	•		
KA-135/18	135mm – 18 Flats	•		
KA-4426K-1	MAN (18 – 48 To. Serie F2000, TGA) Strap-Wrench up to Ø 160mm with 4pt. 1/2" drive and 6pt. Flank-drive 21mm	•		
KA-4426K-2	Offset box spanner 21mm / 12 pt.	•	•	



KA-2727K 3pcs Oil Filter Socket

- (1) **KA-2727A 3/8" Dr. x 32 x 30mmL**
For VAUXHALL/OPEL: ASTRA, CORSA ZATIRA
- (2) **KA-2727B 3/8" Dr. x 36 x 30mmL**
For VAUXHALL/OPEL: OMEGA D1 16V VECTRA, ZAFIRA > 98
BMW: 16V
FORD: MONDEO 2.0D 16V DURA TORQ engine, FRANSIT 2.5 & 2.0
DURA TORQ diesel engine, Mercedes: 1.16MB engine VITO CDI
- (3) **KA-2727C 3/8" Dr. x 27 x 30mmL**
For MERCEDES: ACLASS



KA-5085K
13pcs Cup Type Oil Filter Wrench



KA-5086K
5pcs Cup Type Oil Filter Wrench
For Mazda Cars



KA-6538
15pcs Cup Type Oil Filter Wrench
(Metal)

These cup-type filters are made of 7 & 16 gauge construction and are able to withstand up to 85 ft. lbs. of torque. Cup-type design grips like a socket minimizing the possibility of crushing filters. Fits 3/8" or 1/2" square drive tool Coated with electro-black oxide finish for protection against rust.

PARTS NO.	Description	KA-5085K	KA-5086K	KA-6538
KA-65/14	65mm (2-9/16") - 14 flutes - 1step Fits Champ, Hastings. Gm/Ac, Wix, Napa, Purolator, Diahatsu, Toyota Nissan. etc...	•	•	•
KA-65/67	65 to 67mm (2-9/16" to 2-21/32") - 14 flutes - 2 step Fits same filters as made in Canada including PH4386, PH4967, PH6017, PH6018, Daihatsu. etc...			•
KA-68/14	68mm (2-11/16") - 14 flutes - 1 step Fits Hastings. Mazda, Ford Escort, Capri, Subaru, Fran PH6607 (those Fram filters made in Korea), Motorcraft FL816 etc...	•		•
KA-73/14	73mm (2-7/8") - 14 flutes - 1 step Fits Toyota/Lexus etc...	•		•
KA-74/76	74 to 76mm (3-29/32" to 3") 15 flutes - 2 step Fits Fram, Ac, Saturn, etc...			•
KA-75/77	75 to 77mm (3-15/16" to 3-1/32" - 15 flutes - 2 step Fits VW, Audi.Casite. GM/AC, Hastings, Wix. NAPA Ford. Isuzu Mercedes, Opel, etc...			•
KA-75.6/14	75.6mm-14 flats Applicable: Newer Mercedes Benz with Threaded cap, MAZDA		•	
KA-76/14	76mm (3") - 14 flutes - 1 step Fits Champion, Champ Lee, Purolator, Mopar, VW, Porsche, Mercedes, Benz, BMW, Audi, (I.B. A3TD) Opel. etc...	•		•
KA-76/30	76mm (3") - 30 flutes - 1 step Fits Motorcraft only-FL400A, Ford. etc...		•	•
KA-80/15	80mm (3-9/64") - 15 flutes - 1 step Fits Hastings. Fram, Purolator, Nissan, Honda. Motorcraft, Mazda, Isuzu, Subaru. Opel. Toyota. etc...	•		•
KA-80/82	80 to 82mm (3-9/64" to 3-7/32") - 15 flutes - 2 step Fits Wix filters. Branded for: mazda. Subaru. Toyota. Honda. Acura. Nissan. NAPA. etc...			•
KA-90/15	90mm (3-17/32") - 15 flutes - 1 step Fits Honda Accord. Mitsubishi. Mopar. Isuzu etc...			•
KA-93/15	93mm (3-21/32") - 15 flutes - 1 step Fits Casite, Champ, Champion, GM, Fram, Hastings. Opel, Mazda, Volvo. Mitsubishi, Purolator, Wix, Nissan, VW, Porsche, Renault Ford, Honda. Audi. Etc...	•	•	•
KA-93/36	93mm (3-21/32") - 36 flutes - 1 step Fits Motorcraft only-FL1A, FLA1B, FL300, FL820, Ford. etc...			•
KA-95/15	95mm -15 flute - 1 step Toyota D4D, MIGHTY-X, Toyota#15600~41010, Alfa, GM, Ford, ALFA, Chrysler.	•		
KA-100-15	100mm -15 flute - 1 step Toyota1KZ, Fram, Motorcraft, Wix, Isuzu, Mitsubishi.	•		
KA-100/75	100mm (4") - 15 flutes - 1 step Fits Fram, Motorcraft, Wix, Isuzu and Mitsubishi filters.			•
KA-101/15	101mm - 15 flute - 1step ISUZU KBZ 2500, MAZADA TOYOTA FUSO	•		
KA-9.5mm	Adaptor 3/8" N 1/2" square drive tool			•
KA-2005A	65 - 120mm, 3 jaw oil filter wrench	•		
	1pc 1/2" dr. ratchet handle	•		
	1pc 5" extension bar	•		
	1pc 1/2"(F) x 3/8"(M) adapter	•		



KA-4424K 30pc. Cup Type Oil Filter Wrench Kit

These cup-type filters are made of 7 & 16 gauge construction and are able to withstand up to 85 ft. lbs. of torque. Cup-type design grips like a socket minimizing the possibility of crushing filters. Fits 3/8" or 1/2" square drive tool Coated with electro-black oxide finish for protection against rust.

KA-66/6	66mm (2-19/32") - 6 flutes - 1 step Fiat (Punto. 1.2) Renault (Clio 1.2 Express, Kangoo. Rapid. Twingo) etc...
KA-65/14	65mm (2-9/16") - 14 flutes - 1step Fits Champ, Hastings. Gm/Ac, Wix, Napa, Purolator, Diahatsu, Toyota Nissan. etc...
KA-65/67	65 to 67mm (2-9/16" to 2-21/32") - 14 flutes - 2 step Fits same filters as made in Canada including PH4386, PH4967, PH6017, PH6018, Daihatsu. etc...
KA-68/14	68mm (2-11/16") - 14 flutes - 1 step Fits Hastings. Mazda, Ford Escort, Capri, Subaru, Fran PH6607 (those Fram filters made in Korea), Motorcraft FL816 etc...
KA-73/14	73mm (2-7/8") - 14 flutes - 1 step Fits Toyota/Lexus etc...
KA-74/15	74mm (3-29/32") 15 flutes - 1 step MF, Audi, #056-115-561g, GM. Rover. Chrysler. Etc...
KA-74/76	74 to 76mm (3-29/32" to 3") 15 flutes - 2 step Fits Fram, Ac, Saturn, etc...
KA-75/77	75 to 77mm (3-15/16" to 3-1/32" - 15 flutes - 2 step Fits VW, Audi.Casite. GM/AC, Hastings, Wix. NAPA Ford. Isuzu Mercedes, Opel, etc...
KA-76/8	76mm (3") - 8 flutes - 1 step Fiat (z.B. Marea), Lancia (z.B. Delta) etc...
KA-76/12	76mm (3") - 12 flutes - 1 step Fiat (z.B. Ducato, Scudo, Ulysee), Renault, (Megane.Laguna.Espace III.) etc...
KA-76/14	76mm (3") - 14 flutes - 1 step Fits Champion, Champ Lee, Purolator, Mopar, VW, Porsche, Mercedes, Benz, BMW, Audi, (I.B. A3TD) Opel. etc...
KA-76/30	76mm (3") - 30 flutes - 1 step Fits Motorcraft only-FL400A, Ford. etc...
KA-78/15	78mm (3-2/32") - 15 flutes - 1 step Nissan #15208H8991, Ford, Toyota. Accord. etc...
KA-80/15	80mm (3-9/64") - 15 flutes - 1 step Fits Hastings. Fram, Purolator, Nissan, Honda. Motorcraft, Mazda, Isuzu, Subaru. Opel. Toyota. etc...
KA-80/82	80 to 82mm (3-9/64" to 3-7/32") - 15 flutes - 2 step Fits Wix filters. Branded for: mazda. Subaru. Toyota. Honda. Acura. Nissan. NAPA. etc...
KA-86/16	86mm (3-3/8") - 16 flutes - 1 step Volvo (S40, S60, S70, S80.) etc...
KA-86/18	86mm (3-3/8") - 18 flutes - 1 step V.W. Golf. (MK III. Tdi, passat Tdi,) Audi A6 Tdi, Renault (Clio. Rapid 1.9D Laguna.Safrane. Espace 2.1D). Citroen, Peugeot, Renault, etc...
KA-90/15	90mm (3-17/32") - 15 flutes - 1 step Fits Honda Accord. Mitsubishi. Mopar. Isuzu etc...
KA-92/10	92mm (3-40/64") - 10 flutes - 1 step Fiat, Cinquecento. Coupe. Croma, Fiat, Panda. Regata. Ritmo Fiat, Seicento. Tempra.Tipo, Lancia (Beta. Dedra. Kappa. Monte. Carlo.Prisma. Thema.Trevi) etc...
KA-93/15	93mm (3-21/32") - 15 flutes - 1 step Fits Casite, Champ, Champion, GM, Fram, Hastings. Opel, Mazda, Volvo. Mitsubishi, Purolator, Wix, Nissan, VW, Porsche, Renault Ford, Honda. Audi. Etc...
KA-93/36	93mm (3-21/32") - 36 flutes - 1 step Fits Motorcraft only-FL1A, FLA1B, FL300, FL820, Ford. etc...
KA-93/45	93mm (3-21/32") - 45 flutes - 1step VW-Audi. (TDi 2.4, 2.6, 2.8L) etc...
KA-95/15	95mm (3-6/8") - 15 flutes - 1 step Toyota #15600-41010, Alfa, GM, Ford. ALFA, Chrysler, etc...
KA-96/18	96mm (3-3/4") - 18 flutes - 1 step Audi (A4 A6 Tdi, Vw Passat 97 Tdi) Renault (Laguna 2.2d. Safrane 2.2D. Espace 2.2D. R19 Rapid. Megane.1.9/2.1D.Tdi) etc...
KA-100/15	100mm (4") - 15 flutes - 1 step Fits Fram, Motorcraft, Wix, Isuzu and Mitsubishi, etc...
KA-106/15	106mm (4-11/64") - 15 flutes - 1 step Fiat(Ducato 2.5D. Td) etc...
KA-108/15	108mm (4-8/32") - 15 flutes - 1 step Volvo (C70. S70. V70. Tdi. TD) (Turbo. Diesel. 850 Tdi. Diesel) etc...
KA-108/18	108mm (4-8/32") - 18 flutes - 1 step Renault (Espace, Laguna, Master, Safrane, Traffic 2.4, 2.5, 2.8D. TD) etc...
KA-65/120	Two way oil filter wrench 65-120mm
KA-9.5mm	Adaptor 1/2"(F) N 3/8"(M) Square drive Tool.



KA-6544
23pcs Oil Filter Wrench Kit
 (Cast Aluminum Alloy)



KA-6544A
23pcs Oil Filter Wrench Kit
 (Cast Aluminum Alloy)

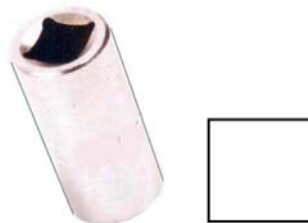


KA-6544B
17pcs Oil Filter Wrench Kit
 (Cast Aluminum Alloy)

PARTS NO.	Description	KA-6544	KA-6544A	KA-6544B
#441	65mm 14F FOR TOYOTA, NISSAN	•	•	•
#442	67mm 14F FOR FORD, MAZDA	•	•	•
#443	74mm 14F FOR BMW, AUDI, VW, OPEL, AUSTIM	•	•	•
#444	75mm 15F FOR GM, CHRYSLER	•	•	
#445	74mm 8F FOR FIAT	•	•	
#446	74mm 15F FOR GM, CHRYSLER, ROVEO	•	•	
#447	73mm 14F FOR TOYOTA, NISSAN	•	•	
#448	73mm 30F FOR GM, FORD	•	•	
#449	79mm 15F FOR ISUZE, FORD, <u>DAI</u> HATSU	•	•	•
#450	73mm 15F FOR GM, CHRYSLER, MITSUBISHI	•	•	•
#451	84mm 18F FOR PEUGEOT, CITRON, RENAULT	•	•	•
#452	89mm 15F FOR HONDA, CIVIC, MITSUBISHI	•	•	•
#453	91mm 15F FOR TOYOTA, NISSAN, ISUZE	•	•	•
#454	92mm 15F FOR HONDA, CIVIC, TOYOTA	•	•	•
#455	95mm 15F FOR GM, FORD, CHRYSLER, ALFA	•	•	•
#456	91mm 12F FOR CITRON, PEUGEOT, RENAULT	•	•	
#457	76mm 12F FOR FORD, MAZDA, MITSUBISHI, <u>DAI</u> HATSU	•	•	•
#458	79mm 12F FOR HAND ACCORD, NISSAN, TOYOTA	•	•	•
#459	86mm 14F FOR MITSUBISHI, MAZDA	•	•	•
#460	91mm 14F FOR GM, FORD, CHRYSLER, LANCIA, FIAT		•	•
#913	91mm 15F	•		
#461	101mm 15F FOR MAZDA, MITSUBISH TOYOTA, <u>DAI</u> HATSU	•	•	•
	Nylon strap oil filter wrench	•		
	1pc 1/2" dr. ratchet handle	•	•	•
	1pc offset box spanner 27mm (12pt)	•		
	1pc offset box spanner 31mm (12pt)		•	•



KA-7807
Triangular Drain Plug Key
 Application: Renault



KA-7808 Drain Plug Socket
 10mm Square Female.
 Applicable: BMW, FORD, RENAULT, TOYOTA



KA-7809
1/2" & 3/8" Square, High Torque Drain Plug Wrench
 1/2" & 3/8" male square for removing drain plugs on oil, transmissions, and differentials. Heavy duty construction, tempered to withstand the rigors of constant use.

KA-6552 12pc Drain Plug Key & T-Bar

- 8mm HEX – BMW (BA), FORD (GB), GM (BA, GB)
 - 9mm HEX – GENERAL MOTORS (BA)
 - 10mm HEX – FORD (BA)
 - 12mm HEX – FIAI LANCIA (GB, PU), PEUGEOT TALBOT (GB, PU)
 - 14mm HEX – LANCIA (GB, PU), MERCEDES (BA, GB)
 - 17mm HEX – AUDI (GB), AUSTIN (GM), BMW (GB), VW (GB)
 - 3/8" HEX – BLMC (MORRIS) (BA), LANCIA BETA (DIFF)
 - 8mm (5/16") SQ – CITROEN (GB, PU), PEUGEOT (BA, GB, PU), RENAULT (PU), TALBOT (GB, PU), VOLVO (PU)
 - 11mm SQ – FORD (BA, GB)
 - 13mmSQ – NISSAN (BA, GB), SUBARU (BA)
 - 3/8" SQ – HONDA (GB, PU), MAZDA (BA, GB), RENAULT (GB, PU), SAAB (GB), VOLVO (BA, PU)
- KEY: BA=BACK AXLE, GB=GEAR BOX, PU=PUMP



KA-7806 15pc Drain Plug Key Set

- 127mm (1/2") SQ DRIVE
- HEX: 8,9,10,12,14,17mm
- Square: 8,9.5,11,12,13mm
- Triangular: 9.5mm Δ
- Female Square: 10 x 12mm Socket
- 12.7mm Sq Drive Bar



KA-7805 14pc Drain Plug Key Set

- BMW, LANCIA, RENAULT, CITROEN, MAZDA, SAAB, FIAT, MERCEDES, TOYOTA, FORD, NISSAN, VAUXHALL/OPEL, HONDA, PEUGEOT, VOLKSWAGEN
- 6- 3/8" Dr. Hex : 8,9,10,12,14,17mm
- 6- 3/8" Dr. Square: 7,8,11,13mm 5/16" & 3/8"
- 3/8" Dr. Female Square: 10mm
- 1- 3/8" Dr. Triangular Δ



KA-7805A 17pc Master Drain Plug Key Set

- BMW, LANCIA, RENAULT, CITROEN, MAZDA, SAAB, FIAT, MERCEDES, TOYOTA, FORD, NISSAN, VAUXHALL/OPEL, HONDA, PEUGEOT, VOLKSWAGEN
- 6- 3/8"Dr. Hex : 8-9-10-12-14-17mm
- 9- 3/8"Dr. Square :7-8-10-11-12-13-14mm & 5/16"-3/8"
- 3/8"Dr. Female Square : 10mm
- 1- 3/8"Dr. Triangular Δ



KA-7805B 18pcs Master Drain Plug Key Set

- BMW, LANCIA, RENAULT, CITROEN, MAZDA, SAAB, FIAT, MERCEDES, TOYOTA, FORD, NISSAN, VAUXHALL/OPEL, HONDA, PEUGEOT, VOLKSWAGEN
- 3/8"Dr. Sliding T-bar
- 6- 3/8"Dr. Hex : 8-9-10-12-14-17mm
- 9- 3/8"Dr. Square :7-8-10-11-12-13-14mm & 5/16"-3/8"
- 3/8"Dr. Female Square : 10mm
- 3/8"Dr. Triangular Δ



KA-1268 18pc Drain Plug Key

- For female drain 3/8"Dr. wrench, 8mm bar & puller all keys have 19mm spanner.
- Hexagon, Square, Triangle, Socket(10mm) Guidance applications consult workshop manual
- 3/8"(M) x 1/2"(F) adaptor
- 8mm Hex-BMW(BA), Ford(GB), GM(BA, GB)
- 9mm Hex-General Motors(BA)
- 10mm Hex-Ford(GB)
- 12mm Hex-Fiat Lancia(GB, SU), Peugeot Talbot(GB, SU)
- 14mm Hex-Lancia(GB, SU), Mercedes(BA, GB)
- 17mm Hex-Lancia Audi(GB), Austin(GB), BMW(GB), VW(GB)
- 7mm SQ
- 8mm(5/16") SQ-Citroen(GB, SU), Peugeot(BA, GB, SU), Renault(SU), Talbot(GB, SU), Volvo(SU)
- 3/8" SQ-Honda(GB, SU), Mazda(BA, GB), Peugeot(GB, SU), Saab(GB), Volvo(BA, SU)
- 10mm SQ-Citroen(GB, SU), Peugeot(BA, GB, SU), Renault(SU), Volvo
- 11mm SQ-Ford(BA, GB)
- 12mm SQ-Toyota
- 13mm SQ-Nissan(BA, GB), Subaru(BA)
- 14mm SQ
- △ 10mm Triangular –Renault(SU)
- ⊕ 10mm Female Square-BMW(BA), Ford(GB), Renault(SU), Renault(SU), Toyota





KA-5025 8/10mm Drainer Wrench

Male square 8 & 10mm
 Made from forged and black coated steel
 Ideal for use on back axle, gear box or sump draining jobs.



KA-4381 Fuel Line Disconnect Tool

For releasing the quick connect fitting at the fuel inlet.
 Line to the fuel pressure regulator. Fits Merkur Scorpio, 1990 Ford Bronco 11, and early Ford Rangers and Explorers with 4.00L V6 engines.



KA-5241 Ford Fuel Pump Wrench

- For removal and installation of the fuel pumps with a plastic retaining nut.
- Suits all Ford Falcon models XE, XF to current.
- Diameter: 6-1/8" (155mm)



KA-4310 Ford 7.3L Fuel Cap Tool

- Design allows for easy removal and installation of FORD 7.3L diesel fuel caps and other diesel filter systems using the same configuration.
- Works with fuel caps from 1995 to present.
- Improves ability to remove and install caps where access is a problem.



KA-6421 Fuel System Tool Set

- KA-6421-1 3MM HEX: ZENITH (STROMBERG) 150 CD3, JAGUAR, LOTUS, MG, LAND ROVER, RANGE ROVER AND SAAB
- KA-6421-2 145MM FLEXIBLE EXTENSION
- KA-6421-3 HANDLE
- KA-6421-4 BIT SET: TX 20 FORD W CARBS, FUEL PUMPS ETC.
 3MM HEX 'K' JETRONIC, 5MM HEX 'L' JETRONIC, 3MM FLAT, 5MM FLAT, CROSSPOINTS NO 1 & 2
 POZIDRIVE NO 1 & 2
 1/4" A/F SQ. DR. CONVERTOR
- KA-6421-5 95MM EXTENSION
- KA-6421-6 FORD: WEBER TLDM, DFTM, 2V, TLM, TLD, DFT ETC.
 FORD FIESTA, ESCORT AND ORION 1989
- KA-6421-7 17MM(0.6")
 SU/SU HIF ROVER MINI AND METRO
- KA-6421-8 0.34", 1/2" SU/SU HIF, ROVER MINI AND METRO
- KA-6421-9 ZENITH CD, OPEL/VAUXHALL
- KA-6421-10 ZENITH(STROMBERG) CD
 LAND ROVER, SAAB, VAUXHALL AND VOLVO
- KA-6421-11 NIKKI, HITACHI, NISSAN AND SUBARU
- KA-6421-12 ZENITH
- KA-6421-13 AISAN AND MIKUNI. TOYOTA, AND MITSUBISHI



KA-4347 Marine Lower Unit Flush And Fill Tool

Hand operated plunger pump that will screw onto gear box oil containers with universal threaded adaptor to fit marine lower units. Use pump to refill or flush out lubricant.



KA-4348 Fluid Quart Pump

Fits standard quart bottle. Ideal for adding fluids to small engines, gearboxes and differentials. Flexible hose for hard-to-reach fill plugs. 4cc pump.



KA-4349 Marine Lower Unit Flush And Fill Tool

Hand operated plunger pump that will screw onto gear box oil containers with universal threaded adaptor to fit marine lower units. Use pump to refill or flush out lubricant.



KA-7805D 21pcs 3/8"Dr. Master Drain Plug Key Set

- Application: BMW, LANCIA, RENAULT, CITROEN, MAZDA, SAAB, FIAT, MERCEDES, TOYOTA, FORD, NISSAN, VAUXHALL/OPEL, HONDA, PEUGEOT, VOLKSWAGEN
- Suitable for sump plugs on engine, gearbox and back axle
- CR-V steel, Mat Finished
- Contents:
 - Hex key socket: 8, 9, 10, 12, 13, 14, 17mm
 - Square socket: 5/16", 3/8", 7, 8, 10, 11, 12, 13, 14mm
 - Torx socket: T45
 - Triangular socket: 10mm
 - Spline (TAMPER) socket: M16
 - Square drive socket : 10mm
 - 3/8" drive sliding T-handle



KA-2896 Oil Filter Cutting System

- Roller bearing provide smooth rolling action.
- Hardened hardware throughout.
- No parts or adapters to change.
- Separate steel housing & paper filter for best environment protection.

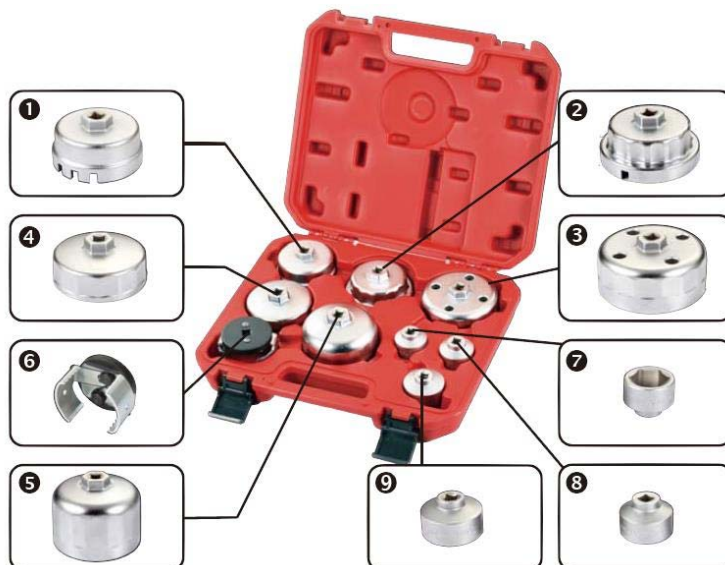


KA-2991 Oil Quality Comparator

The accessory provides the ability to examine oil quality visually.



KA-7263K 9pcs Oil Filter Wrench Set



No.	Item No.	Flutes	size	Dr.	Material/Surface Finish	Application
1	KA-3579A	14	64.5mm	3/8"	Aluminum/ Chrome	Toyota: Allion, Auris, Corolla axio, Corolla fielder, Corolla rumion, Isis Ist, Noah, Premio, Prius, Voxy, Wish
2	KA-3579	14	64.5mm	3/8"	Aluminum/ Chrome	Toyota 2007 – 2008 V6 (2006)- all of Vehicles Lexus (2007 ~) ES350, GS350, GS450h, LS460, RX350 (2008 ~) LS600h L
3	KA-3578	15	88.8mm	3/8"	Aluminum/ Chrome	Available for Hyundai/Kia
4	KA-3668	14	74.2mm	3/8"	Aluminum/ Chrome	Audi, BMW, Ford, Mazda, Toyota, Volkswagen, Porsche, Mercedes (all models with V6 and V8)
5	KA-3669	16	86.6mm	3/8"	Aluminum/ Chrome	BMW – 355i 3.0L Twin Turbo BMW – 535i 3.0L Twin Turbo BMW – BMW 3 series (E90) BMW – X6 3.0L Twin Turbo Volvo – All Models(1999-2006) (exc. 2005 40 & 50 series)
6	KA-6976		63~83mm	3/8"	SCM440/ Galvanized	Universal oil filter wrench: 63 ~ 83mm
7	KA-3218K1	6	27mm	3/8"	S45C/ Nickel-plating	Mercedes and smart car
8		6	32mm	3/8"	S45C/ Nickel-plating	GM, Opel/Vauxhall 4 cyl. GM 2.2liter ecotech X10XE, X12XE, Y17DT, Y17DTL engines Mercedes HGV'S e.g. OM364, OM366 engines
9		6	36mm	3/8"	S45C/ Nickel-plating	Mercedes diesel engines OM604, OM605, OM606 BMW engines M52 6-cyl, M60 8-cyl, M70 12-cyk Mini One/Cooper/Coppers Ford 6.0 liter diesel engine(predominantly used in pickups) VW VR6 engine



KA-2895 Aluminum Cup Wrench For Cartridge Type Oil Filter

- Size: 24-27-30-32.5-36-38mm
- Use 1/2" Drive Wrench
- Aluminum cup wrench to remove cartridge type oil filter commonly used in Opel/Vauxhall, Mercedes, BMW and VAG.
- Optional adaptor converts 1/2" to 3/8"





KA-3697 Oil Filter Wrench

- An artistic outlook, light and handy, durable and made under strict processing and treatment. Breakaway Torque: min. 150 N-m
- Easy to use, fit for dismounting oil filter of 55- 95mm range in diameter. The body could be shrunk to 72mm, fit for almost all small vehicle oil filter.
- The clamp rods are also able to disassembled and replaced with difference length and shape as requirement. Available clamp rods are accessible in our website. Tri-clamp-rods are designed with slip-less feature.
- Further with magnetic and anti-slip pad at the bottom. It is very easy to adjust with single hand however in a limited space and easy to dismount / mount the oil filter.
- Box wrench, ratchet socket wrench and turntable wheel wrench which attached with the equipment are suitable to dismount / mount all difference type of oil filter.
- Surface attachment of the tri-clamp-rods and oil filter, prevent deformation of oil filter. Diamond like surface coating of the tri-clamp-rods will clamp the oil filter firmly however oily.



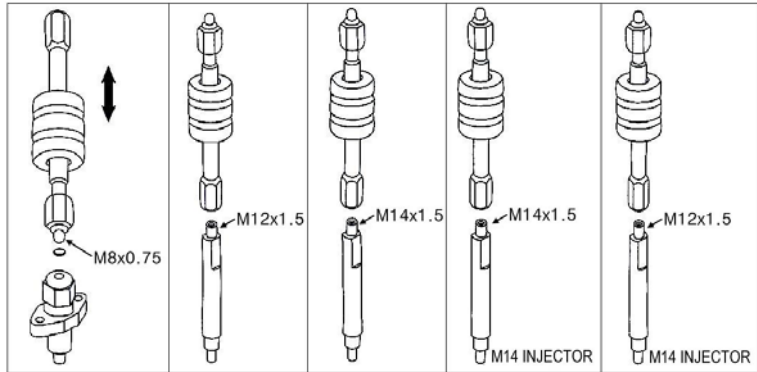
PAT. U.S.A, GERMANY, TAIWAN, U.K.

KA-2877N Diesel Injector puller

Assists removal of stubborn bosch and lucas diesel injectors – saves time and money when injectors are difficult to remove.



- With M8 - M12 - M14 adapters
- L:230mm



KA-3633 Special Wrench for Turbo

The Special Wrench For Turbo

Special wrench for screwing on the turbo-charger in diesel engines of VW / AUDI; new model, short type, from now on very convenient assembling and disassembling for screw underneath the turbo-charger.



- For:VW / AUDI
- Drive: 3/8" □
- Size : 12 mm x 12PT

KA-5171 Diesel Injector Nozzle Socket

- 1/2" DR. socket can use for SIEMENS & BOSCH
- Size: 25, 27, 29, 30mm

Suitable for Peugeot and Citroen with 2.0 engines (110/135HP) HDI engine.



KA-2054 3pcs Diesel Injector Puller Set

- This special designed diesel injector puller set is ideally for the need to remove stubborn diesel injector. No need to remove cam cover and the use of slide hammer.
- Fitted mainly to Mercedes C-class, E-class, Sprinter Vehicles and Chrysler Grand Cherokee 27crd(00-)



KA-2054A 4PCS Injector Nozzle Puller Set

- Screw off the nozzle head, Screw in the puller spindle, Insert the support ring, Push the support sleeve over the spindle and screw on the collar nut then pull out the nozzle by turning the collar nut.
- Support sleeve, Pull spindle, Shoulder nut M16×1.5, Support ring, Special bit insert 10 mm hex, Axial bearing, Circlip, Special socket insert 29mm hex
- For Mercedes CDI Motore OM 611,612,613



KA-2056 Diesel Injector Nozzle Extractor Set

Suitable for PSA 2,0 (110, 135 HP) HDI engines e.g. Peugeot, Citroën etc. (engine code DW 10)



- Identify injector "blow-by" exists (The leaking of combustion gases from the cylinder through the injector seat, the "blow-by" causes starting symptoms and poor running, excessive smoke, tar build-up, loss and noise of compression).
- Re-face the diesel injector seat in order for the new or reconditioned injector to be fitted correctly.
- Clean and re-cutting of injector seat.
- Avoid a high risk of "blow-by" occurring cause of the build up of carbon deposits and the effects of corrosion.
- Application for all modern common rail diesel engines.
- Don't use with air tools



KA-3636A 5pcs Diesel Injector Seat Cutter Set

Material: CRMO

Kit contents:

- 15mm Flat Reamer for Universal injector.
- 17mm Flat Reamer for Delphi/Bosch injectors (BMW/PSA/Renault/Ford).
- 19mm Flat Reamer for Bosch injectors (Mercedes CRD).
- 19mm Angled Reamer for Fiat/Iveco.
- Pilot post x 1pc



KA-3636AE 6pcs Diesel Injector Seat Cutter Set

Material: CRMO

Kit contents:

- 15mm Flat Reamer for Universal injector.
- 17mm Flat Reamer for Delphi/Bosch injectors (BMW/PSA/Renault/Ford).
- 17mm Angled Reamer for Mercedes Benz CDI
- 19mm Flat Reamer for Bosch injectors (Mercedes CRD).
- 19mm Angled Reamer for Fiat/Iveco.
- Pilot post x 1pc



KA-3636B 6pcs Diesel Injector Seat Cutter Set

Material: CRMO

Kit contents:

- 15mm Flat Reamer for Universal injector.
- 17mm Flat Reamer for Delphi/Bosch injectors (BMW/PSA/Renault/Ford).
- 19mm Flat Reamer for Bosch injectors (Mercedes CRD).
- 19mm Angled Reamer for Fiat/Iveco.
- T handle x 1pc
- Pilot post x 1pc



KA-3636C EVA Tray



KA-3636E 7pcs Diesel Injector Seat Cutter Set

Material: CRMO

Kit contents:

- 15mm Flat Reamer for Universal injector.
- 17mm Flat Reamer for Delphi/Bosch injectors (BMW/PSA/Renault/Ford).
- 17mm Angled Reamer for Mercedes Benz CDI
- 19mm Flat Reamer for Bosch injectors (Mercedes CRD).
- 21mm Angled Reamer for Fiat/Iveco.
- T handle x 1pc
- Pilot post x 1pc



KA-3636D 8pcs Diesel Injector Seat Cutter Set

- Used for cleaning place under injection washer after replacing injector.
- It is necessary to clean place under and above washer for perfect fit new or replaced diesel injector.



KA-3636G 8pcs Diesel Injector Seat Cutter Set



Carbon Residue tends to accumulate on the injector seat and injector nozzle. Regular diesel injector seat cutter seat only cleans and cut the injector seat, but KA-3636G not only clean the seat but also the nozzles

- A complete kit to service seat & injector nozzle
- Clean the injector nozzles
- Clean and re-cut the injector seat
- Re-face the diesel injector seat to fit the new or reconditioned injector correctly.
- Application for all modern common rail diesel engines.
- Don't use with air tools
- Material: CRMO

Kit contents:

- 15mm Flat Reamer for Universal injector.
- 17mm Flat Reamer for Delphi/Bosch injectors (BMW/PSA/Renault/Ford).
- 17mm Angled Reamer for Mercedes Benz CDI
- 19mm Flat Reamer for Bosch injectors (Mercedes CRD).
- 21mm Angled Reamer for Fiat/Iveco.
- Injector Cleaner (58-60 degree)
- T handle x 1pc
- Pilot post x 1pc



KA-3636F 9pcs Diesel Injector Seat Cutter Set



- Specially designed for clean and re-cutting of injector seats on modern common rail diesel engines.
- The kit includes 5 seat cutting reamers for Bosch, Delphi and universal application along with a special angled reamer for Iveco/Fiat applications.
- Include 3 sizes of reamer chuck for 17, 19 and 21mm is suitable cleaning for injector nozzle end.



KA-3696 Injector Seat Cleaning Set



- Suitable for 2.0 TDI engine from VAG group.
- To clean the contact surface between the injector and engine head when making the replacement.
- Include cutter holder can made cutter is straight and correct to attach when do cleaning.
- Insert the extension bar in to the cutter for deep hole cleaning.





KA-3642 Copper Washer Removal Tool For Diesel Injector

- Size: inner hole 7
- Length: 230mm
- Collet type easy to holding the copper washer.



KA-8377 Diesel Injector Remover

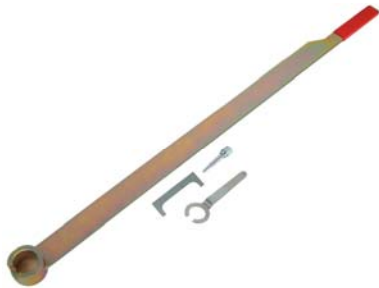
- This specialist kit is designed primarily for removing seized diesel injectors from VAG TDI engines
- The set includes a 0.5kg slide hammer with threaded adaptors in direct, offset and hook profiles.
- Model: VAG-TDI



KA-4027 4pc Diesel Injector Removal Set-Delphi & Bosch

Specifically designed for removing Delphi/Bosch diesel injectors using a Slide Hammer with 5/8" UNF thread.

Adaptors can also be used with an air tool to loosen the injectors by vibration. Set of 3 adaptors plus a special tool for removing the internal part of Bosch injectors.



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-4028 Puller for Sealing Ring

For use on sealing rings with internal diameter 4 - 16 mm, e.g. injector nozzle sealing rings on Mercedes CDI engines.

The puller extracts the sealing rings correctly, for example from between the injector nozzle and the cylinder head.

To pull out the sealing ring, screw the taper point of the tool into it, then remove with the impact-type puller.



KA-3639 Injector Puller Set

Mercedes CDI

This six piece puller set has been especially designed for removing stubborn injectors on Mercedes Benz vehicles fitted with CDI engines.

Packed in a blow moulded case.

Injector Extractor

- With this tool, when removing seized or stuck Common Rail injectors, no more need to disassemble the cylinder head.
- Applicable for MERCEDES-BENZ CDI engines 611, 612, 613, etc.
- Especially for the limited spaces due to the cylinder head cover



KA-3968

- Contents:**
- 1 Impact Extractor
 - 1 Injector Claw
 - 1 External Adapter
 - 1 Slide Hammer



KA-3970

- Contents:**
- 1 Impact Extractor
 - 1 Injector Claw
 - 1 External Adapter

Injector Puller For Mercedes-Benz (slide hammer style)

- For removing adapted tight common rail injectors without having to disassemble cylinder head.
- Use for Mercedes-Benz CD engines 611.612.613...etc.
- Injection puller with impact hammer, injection nozzles that do not fit very tightly can be pulled out without needing to take them apart or remove the cylinder block.

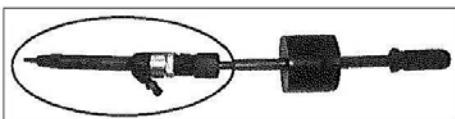
KA-3969 4PCS



KA-5167B 6PCS



KA-5167C 7PCS



This high quality tooling is designed for the removal of stuck and seized injectors.

KA-5167A 9pcs Common Rail Injectors Extractor Set

Feature:

- With slide hammer for DB CDI-engines & Mercedes CDI engines OM 611, 612, 613 etc.
- For removing stuck and the seized common-rail injectors without dismount the cylinder head.
- The sturdy construction will enable the swift removal of even the most severely seized in injector.

Specification:

- Material: S45C steel
- Total Length: 350mmL
- Contents: Slide Hammer (1.75kgs)
Adaptor M17 x 1.0
Adaptor M27 x 1.0 for Bosch injector nozzle.
Adaptor: Puller w/M12 x 1.75



KA-4032 Injector Nozzle Tool Set

- Mercedes CDI engines (German Utility Model)
- Suitable for Mercedes CDI engines OM 611, 612, 613, etc.
- This injector nozzle Tool set (comprising nozzle puller, nozzle puller , milling cutter, compressed air adapter, thread tap and plastic case) makes it possible to remove the injector nozzles correctly.



KA-4034 Injector Nozzle Puller for Mercedes CDI

Suitable for Mercedes CDI engine OM 668 e.g. A-Class.
The injector nozzle puller makes it possible to remove even nozzles that are a very tight fit in the cylinder head, without the cylinder head having to be removed from the engine.



KA-4033 Glow Plug Tool Set

- For Mercedes CDI engines
- Suitable for Mercedes CDI engines OM 611, 612 and 613.
- The glow plug tool set KA-4033 enables the correct removal of burnt and/or stuck due to corrosion or torn off glow plugs as well as the repair of the glow plug retaining thread.
- The cylinder head does not have to be removed.

(Note: Screwing the compressed air adapter into the injector nozzle bore and injecting compressed air into the combustion chamber prevents dirt and metal particles from entering the combustion chamber)

Advantage:

- Large time saving and cost saving
- Clean working methods.
- The tool is easy to operate.



KA-3676 Truck Injectors Solution

- Injector puller solution SSANGYONG & MERCEDES
- Special Injector puller solution for new generation trucks
- Application rang: SSANGYONG, MERCEDES, trucks with injector-Pump systems or with traditional truck injectors (Volvo, scania, Mercedes, man, Renault, iveco, etc...)
- Content:

- KA-3676-01 socket for Delphi injectors & Trucks
- KA-3676-02 Injector "hook"
- KA-3676-03 Extension handle
- KA-3676-04 Upper handle
- KA-3676-05 Body-tamper
- KA-3676-06 Cardanic joint
- KA-3676-07 M18 x 1.5 nut





KA-3664 VW. AUDI Common Rail Diesel Injector (TDI)

- Special two jaws design to fix the injector and pull out with slide hammer
- Applicable: VW, AUDI (TDI) engine



KA-3665



KA-3665A

**KA-3665 KA-3665A
VW. AUDI Injectors Remover Set (FSI)**

- Use "U" sleeve or two jaws hook to fix the injector and then pull out with slide hammer
- Applicable: VW, AUDI (FSI) engine



KA-3694



KA-3694A

**KA-3694 KA-3694A
Injectors Pump Extractor Remover Set**

- Use "U" sleeve or two jaws hook to fix the injector and then pull out with slide hammer.
- Special two jaws design to fix the injector and pull out with slide hammer.
- Application range: VW, AUDI (TDI) (FSI)
VW, AUDI, SEAT, SKODA
VW,AUDI TDI engine code :
ALH/AHU/1Z



KA-3677 Solution For BMW Common Rail Injectors

- Complete set for removing **BMW CR** Injectors without dismounting the cylinder head.
- Equipped with a blower adapter to clean the injector seats.
- Bosch injectors: common rail injectors mounted on BMW
- Application Engines: BMW Common Rail : M47TU, M57, M57TU
- Content:
 - KA-3677-01 M17-M16 screw with num
 - KA-3677-02 Hexagonal wrench to remove the solenoids
 - KA-3677-03 Main extractor's body
 - KA-3677-04 2 pcs x 140mm support foot
 - KA-3677-05 2 pcs x 115mm support foot
 - KA-3677-06 Ch.29 socket with 1/2 connection to remove the electronic group



**KA-3678
Removing and Cleaning BMW Injectors Common Rail Diesel**

- Complete set for removing **BMW CR** Injectors without dismounting the cylinder head.
- Equipped with a blower adapter to clean the injector seats.
- Bosch injectors: common rail injectors mounted on BMW
- Application Engines: BMW Common Rail : M47TU, M57, M57TU , M87, M87TU

KA-4296 Glow Plug Removal Set

Diesel Engine requires GLOW PLUG for combustion process in engine cylinder. The heating element in glow plug heat up and drive the cylinders gradually. But the heating elements are very delicate, and require special tool for removing the glow plug. KA-4296 is the best tool set for successful removal of glow plug.



Specification

Parts No.		Parts No.	
1	Hex 12mm spindle, Hex 30mm nut, cone center tool	11	7 x 5.5
2	Drill installer	12	9 x 5.5
7	1/4" -28 UNF, Hex 9mm -2pcs	13	T-handle
8	Ø6 x 3.5 x 40L -2pcs	14	Ø3.5 drill -2pcs
9	Alley key	15	M10 x P10
10	9.7mm square socket	16	M8 x 1.0
		17	1/4" - 28UNF



KA-3699 Injector Puller for VAG

models with TDI-PD systems

Features:

- Specially designed for TDI-PD systems
- Slide hammer with special PD puller
- Supplied with Vice Clamp suitable for use with traditional injectors.



**KA-6323
Mechanics Stethoscope**



**KA-6324
Mechanics Stethoscope**



**KA-7034
Mechanics Stethoscope**
– Supplied with trumpet.

Features

- Professional mechanic quality. Sensitive instrument.
- Provides a fast and easy way to locate troubles in engines, bearings and other moving parts.
- Plastic earphones shut off outside noises.
- Aluminum alloy probe/needle for finding the exact location of unusual noises.
- Plastic and rubber parts make the instrument shockproof.
- Ideal for pinpointing unusual vibrations or suspected leaks (valves, piston rings, gaskets, etc).



KA-4294K I.C. Engine Mechanic's Stethoscope

Provides a fast and easy way to locate troubles in engines, bearings and other moving parts.



KA-4294K1 Combination 4 Channel Electronic Stethoscope Kit

Engine stethoscope:

- Use to locate & identify engine noise
- Super sensitive microphone pick-up
- Flexible non-conductive shaft
- Cushioned headphones

Component stethoscope

- Detect & isolate noisy components
- Enables road test diagnosis
- 4 channel sensor selector unit
- 4 pick up sensors – 4.8m long cords



KA-4294K2 Combination 6 Channel Electronic Stethoscope Kit

- Use to locate & identify engine noise
- Super sensitive microphone pick-up
- Flexible non-conductive shaft
- Cushioned headphones

Component stethoscope

- Detect & isolate noise components
- Enables road test diagnosis
- 6 channel sensor selector unit
- 6 pick up sensors – 4.8m long cords

Use for: * road test diagnosis * under chassis * under hood * fuel injectors

The chassis EAR is a versatile electronic listening tool, which is designed to allow the user to listen to amplified sounds through a professional set of headphones during a road test. There are 6 extremely sensitive microphone/clamps that can be attached adjacent to many difficult to diagnose vehicle parts and 1 extension lead.

Instructions

Electronic stethoscope

- Connect headphone jack into stethoscope unit
- Turn unit on with volume control dial & set to mid level
- Put headset on & place probe onto part to be tested.
- Use to detect & diagnose worn pistons, faulty lifter, bearing & gear noise, manifold leaks – also use to locate wind & water leaks in doors & windscreens.

Component stethoscope

- Attach 4 or 6 sensor clamps to suspected source of noise
- Use either Velcro straps or cable ties to secure the clamp wires.
- Plug headphone jack into selector box & turn on with volume control & set to midlevel
- Operate component or test drive vehicle to duplicate the problem noise.
- Adjust volume to desired level & rotate the selector box knob between the 4 or 6channels, until the source of the noise is isolated.
- Use to trace drive-train, under-bonnet & under-dash source of noises.

Stethoscope & 4 or 6 channel selector box require a 9 volt battery – supplied.

KA-1040 Automotive Noise Finder

This is a portable automotive noise finder which could quickly detect source or location of noises emanated from bearing, gear, valve, valve body, crankshaft, cylinder, gearbox, car body etc. parts after starting engine. It helps the serviceman to pinpoint the actual noise part and severity even in severe ambient noise.

- To determine the trouble location according to different noise.
- Sound amplification with volume control.
- Battery Voltage Indicate.



KA-5163 Noise Expert

Feature:

- Flexible Noise Collecting Tube
- Reach any confined or hard-to-reach place in the engine room
- Compact and Easy to use.

Procedure:

- Switch on
- Point the black "noise collecting tube" to problem location to detect the noise.



KA-1045 Combination Electronic Stethoscope



KA-1045K Combination 6 – Channel Electronic Stethoscope

COMBINATION ELECTRONIC STETHOSCOPE Universal Electronic Detector (Auscultator Diagnosis), a professional audio detection kit, deliberately designed to detect and analysis any unusual sounds produced by bearing or industrial machines. This all-in-one gear kit included a highly sensitive detecting stick, that are capable of unusual sound detection and analysis of vehicles. Suitable for bearing and link shaft for industrial machineries, wheel axle, chassis, brake calipers, vehicle body division connection, sparking plug, hi-voltage coil, fuel injection, motors, sterling wheel, compressor, shock absorber etc.

Contents:	KA-1045	KA-1045K
Blow Case	•	•
Stereo Earmuffs	•	•
Screw Driver	•	•
Spare screw nuts x 4	•	•
Numbered Microphone Clip from 1~6		•
Electronic Control Box with Bendable Single-point Detection Unit (Detection Stick included)		•
6-Channel Electronic		•
9V batteries x 2		•

KA-1607
Noise Master Kit



1



2



3



4



5



6



7



8

1) Main body × 1

2) Earphone × 1

3) Power line × 1

4) Sensor extended line × 4

5) Holding sensor × 1

6) Magnetic sensor × 2

7) Sucker sensor × 2

8) Clipping sensor × 2

9) Bag × 1

10) User's manual × 1

- Noise Master is specialize-designed to detect the noise of car.
- It combines 4-kind sensors for different materials.

FUNCTION

1. Power Indicator & Noise Indicator

The indicator lights when the power is on.

The Noise Indicator will be green, yellow or red according to the detected volume.

2. Earphone & Channel Socket

Exclusive earphone, adjust volume and detect the source of noise.

Detect different locations by 4 channels.

3. Noise Indicator Sensitivity Switch

Adjust the sensitivity switch to increase or decrease the display range of the indicator.

4. Power & Sound Sensitivity Switch

Power on/off and adjust sound sensitivity.

When raising the sound sensitivity, it will increase the detecting range of sensor, too.

5. Channel Selection

Choose the channel you want and monitor the noise by earphone.



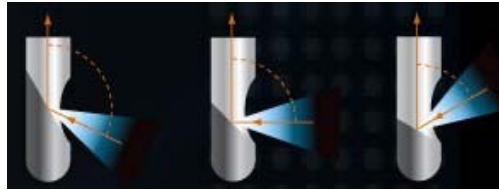
Auto repairing



Airplane engine

KA-1039 Video Borescope (4 LED lights)

- Snap, video record and stored in the memory device
- Zoom in and zoom out
- 4 LED lights help user to see the view in dark place
- Rechargeable Lithium battery and the adapter are included
- Pictures and videos can be displayed on LCD screen
- TV-out
- USB port included
- 2.5" LCD screen (320 x 240 pixel)
- Visual range: 30° mirror, 45° mirror, 60° mirror
- TV-in function



30° mirror 45° mirror 60° mirror



5.5mm Camera Lens



SD Card Support



Quick Release



Flexible Tube



One-Button
One Function

KA-1039A Wireless Video Borescope

Application

Home security, Automotive, Mechanics, Exterminators, Plumber, HVAC, piping inspection, Aircraft, Marine, Locksmiths, Electricians

Advance

- 3.5" LCD display
- Video support (up to 4 hours)
- Snapshot support
- Zoom in / out support
- Image Rota support
- Image Reflective support
- Voice recording support
- Video replay support
- Picture preview support
- Include 1 GB SD card (support up to 32 GB)
- 26 operation languages software support
- USB 2.0 / 1.1 support
- AV out

Feature

- Working temperature -20° to 60° (Celsius)
- Depth of Field: from 2 to 8 to infinity (possible by customization)
- 4 hours operation
- Fix-focus sensor
- Resolution: 640 x 480
- Rechargeable Li-Polymer Battery (3.7v)
- Video out format: NTSC & PAL

Optional Accessory

- Tube length from 1 meter up to 50 meter (possible by customization)
- Tube out-diameter available from Ø4mm, Ø5.5mm, Ø6.0mm, Ø8.0mm, Ø10.0mm, Ø15mm, Ø28mm, Ø40mm
- Water / oil proof, comply IP57
- Mirror: 70 / 90 / 110 / 120 degree adapter



Ø 5.5mm

Inspection Camera (Borescope)

1. 2.4" TFT-LCD color monitor
2. Lightweight handheld design to easily find, diagnose, and solve problems.
3. Requires 4 AA batteries for camera power supply
4. 3 useful accessories included: hook, mirror and magnet



KA-1041



KA-1042

Specifications:

	KA-1041	KA-1042
Imaging Sensor	CMOS	CMOS
Total Pixels	640 x 480	704 x 576(PAL) / 712 x 486(NTSC)
Horizontal View Angle	45 degree	50 degree
Power Supply	4 x AA batteries	4 x AA batteries
Tube Diameter	9mm	17mm
Waterproof Capacity	IP67	IP67
LCD Screen Type	2.36" TFT-LCD	2.36" TFT-LCD
LCD Screen Effective Pixels	480 x 240	480 x 234
Video System	PAL/NTSC	PAL/NTSC
Consumption Current (Max.)	300mA	150mA
Video Output Level	0.9-1.3V _{p-p} @75ohm	--
Operating Temperature	-10°C ~+50°C / +14°F ~+122°F	-10°C ~+50°C / +14°F ~+122°F
Operating Humidity (Max.)	15 ~ 85%RH	15 ~ 85%RH
Receiving Sensitivity	≤ -85dBm	--
Transmission Frequency	2468MHz	--
Minimum Illumination	0 Lux	--
Modulation Type	FM	--
Bandwidth	18MHz	--

Wide Usage:

- Checking for internal leaks around chimney flashing.
- Reading the model number off a furnace fan motor.
- Retrieve a screw lost under the refrigerator
- Checking the kitchen garbage disposal

**KA-1047 Wireless Video Borescope**

- Wireless transfer
 - Satisfy every situation
 - Professional borescope
 - Portable product
 - Long duty hour
 - 2.5"Extra-wide view angle TFT
 - 5mm dia. Lens w/1m long wire
 - 300,000 pixel
-

**KA-1048 Video Borescope**

- 9mm dia. Lens w/1m long wire
 - 3.2" TFT screen
 - 3 AA-batteries
 - 260,000 pixel
-
-
-
-
-