

- 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") |

Brush 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-Vauxhall |
| 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.



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 |



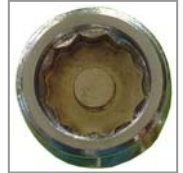
KA-5128 Small Parts Cleaning Basket

- 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



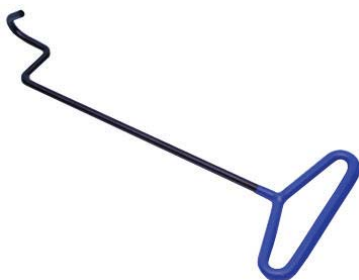
KA-5064 "Air Holds" For Overhead Valves

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.



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.

KA-6456 Metric Size

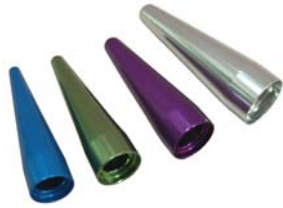
M6x1.00, M7x1.00, M8x1.00, M8x1.25, M9x1.00, M9x1.25, M10x1.25, M10x1.50, M12x1.25, M12x1.50, M14x1.50, M14x2.00, M16x1.50, M16x2.00.

KA-6456S Imperial Size

1/4"-20, 1/4"-28, 5/16"-18, 5/16"-24, 3/8"-16, 3/8"-24, 7/16"-14, 7/16"-20, 1/2"-13, 1/2"-20, 9/16"-12, 9/16"-18, 5/8"-11, 5/8"-18



KA-4432



KA-4433

Rocket Set

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

KA-4432 – 7pcs

KA-4433 – 4pcs

| 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-4433L 4pcs Rocket Set

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

- Available Size:

1-1/2" (ø33.2mm – ø35mm) for UD/FUSO,HINO.

1-3/8" (ø31.2mm – ø 33mm) for UD.

1-7/16" (ø36.7mm – ø 38.5mm) for HINO.

1-1/2" (ø38.2mm – ø 40.0mm) for HINO.



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-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 |



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"

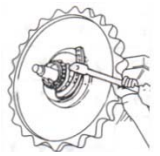
KA-6854 1-1/4"~3"

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)

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) | 90~175mm |
| 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 |



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)



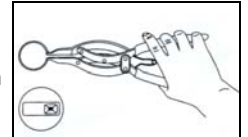
KA-6355 Piston Ring Expanding Device

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-3647A Piston Ring Pliers

- Tapered jaws hold and expand piston ring easily over piston block.
- Ratcheting function handle holds piston rings steadily for removal or installation.



KA-6394A Piston Ring Compressor Set

- Install pistons from 2-7/8" TO 4-5/8" (73mm TO 117mm).
- Ratcheting lock allows bands to compress in small increments.
- Can be used parallel vertically perpendicular horizontally.
- Set includes pliers and seven bands.
- Band Size:
 - 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)
 - G. 4-3/8" to 4-5/8" (111mm to 117mm)



Optional Band:

| Item No. | Band Size |
|--------------|-----------|
| KA-6394A-B19 | 114-121mm |
| KA-6394A-B20 | 121-127mm |
| KA-6394A-B21 | 127-133mm |
| KA-6394A-B22 | 133-140mm |
| KA-6394A-B23 | 140-146mm |
| KA-6394A-B24 | 146-152mm |

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)



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

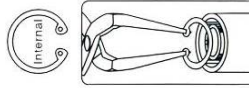
- Designed to stop the flow of liquid without damaging the hose line
- Ideal to use brake lines, vacuum lines, heater lines, transmission lines, fuel lines.

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



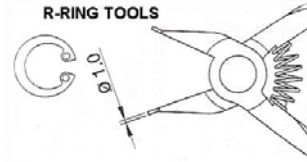
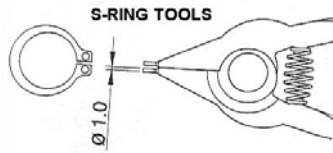
KA-3873 Internal Snap Ring Plier With Long Arm

Jaw: 55mmL



KA-5547 4pcs Mini Snap Ring Pliers Set

For S-Ring & R-Ring tools

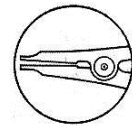


KA-6316 Snap Ring Plier - 10~50mm



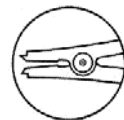
KA-6864 Flat Nose Retaining Ring Plier

- 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-6527 with spring

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



KA-6529 with spring

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



Straight Nose, External Plier

- For hole

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

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

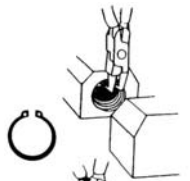


Bent Nose, Internal Plier

- For shaft

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

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



Bent Nose, External 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.

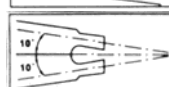
Offset tips make it easier to facilitate circlip.



| 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 locking 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.



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



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

KA-6420 5pcs Hook and Pick Set

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



KA-6420A

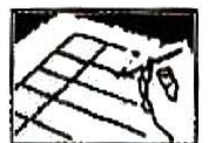
With non-conductive handle, interchangeable handle



Remove spring from oil burner relay boxes

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



For die layouts



Mark your tools



Replacing "o" rings

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



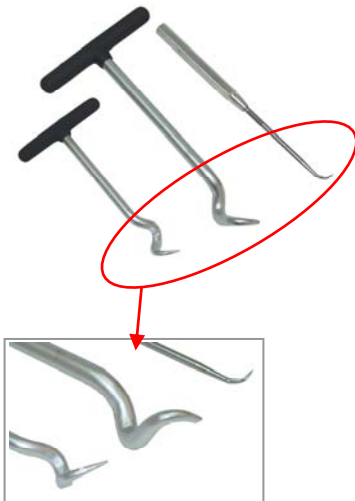
KA-6675 O-Ring Pick Up Tool
Material: Plastic



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.



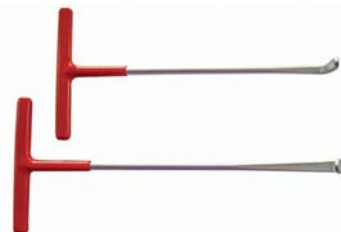
Fig.1



Fig.2



Fig.3



KA-3108K 2pcs Rubber Ring Hook Tool Set

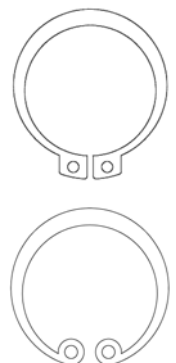
- Special designed to pull the rubber ring which connected with exhaust tube.
- 2 special angle hook attached.



KA-5292 Locking Pliers Set

● Set of 8 pieces

| ITEM NO | L(MM) | TIP Ø | DIN 471 | DIN 472 |
|---------|--------|-------|---------|---------|
| 203B | 150 | 1.2 | 10~25 | |
| 203C | 190 | 1.7 | 19~60 | |
| 223B | 140 | 1.2 | 10~25 | |
| 223C | 180 | 1.7 | 19~60 | |
| 233A | 135 | 0.8 | | 8~11 |
| 233C | 165 | 1.7 | | 19~60 |
| 253A | 125 | 0.8 | | 8~11 |
| 253C | 160 | 1.7 | | 19~60 |





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

20pcs- 14 x 2
20pcs- 11 x 2
20pcs- 8 x 2
20pcs- 4.8 x 1.5
20pcs- 7.8 x 1.9
20pcs- 9.25 x 1.78

20pcs- 12.42 x 1.78
15pcs- 6.8 x 1.9
15pcs- 8.8 x 1.9
15pcs- 9.8 x 1.9
10pcs- 10 x 2
10pcs- 10.82 x 1.78

10pcs- 10.77 x 2.62
10pcs- 15.54 x 2.62
10pcs- 13.8 x 1.9
10pcs- 17.17 x 1.78
10pcs- 20.22 x 3.53
10pcs- 10.95 x 3.5



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

O-RING

20pcs - 7.6 x 1.9
20pcs - 10.8 x 1.8
20pcs - 14 x 1.8
20pcs - 17.1 x 1.8

SPRING LOCK

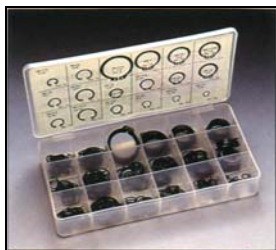
5pcs- 0.3 x 3.3 x 41.5
5pcs- 0.5 x 3.3 x 51.5
5pcs- 0.5 x 3.3 x 61.5
5pcs- 0.5 x 3.3 x 71.5



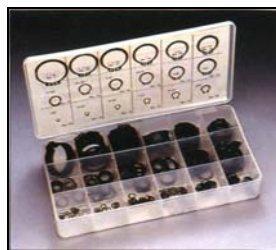
KA-2148 R-134a O-Ring (240pcs/BOX)

40pcs- 6.07 x 1.78
40pcs- 8.8 x 1.9
30pcs- 10.6 x 2.4
30pcs- 10.9 x 1.9

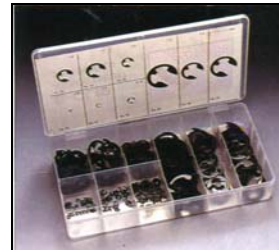
30pcs- 13.7 x 1.9
30pcs- 15x1.8
20pcs- 13.8x2.5
20pcs- 17.3x2.5



KA-285 Retaining Ring
285pc, 18 sizes



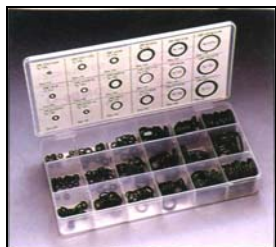
KA-300 Snap Ring
300pcs, 18 sizes



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 (AS568 Type)
KA-382M (P & G Type)
382pcs, 30 sizes



KA-7489
Ceramic & Steel
Seat Remover &
Installer



KA-7488 Steel Seal
Seat Remover &
Installer

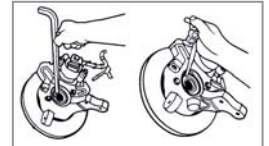


KA-7537 Steel Seal Seat Remover & Installer



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-3645A Adjustable Seal Puller

- Two hook sizes easily remove most oil and grease seals.
- The adjustable head works great on front wheel drive transaxles and front crankshaft seals without removing the radiator.
- Head adjusts to 7 positions.



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.



Truck Clutch Alignment Tool (1PC)

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

- For removal and installation of self adjusting clutches fitted to BMW, VAG, Mercedes, Volvo, Renault, Vauxhall, Opel.
- The tool allows the clutch pressure plate to be pretension prior to removal and installation, avoiding distortion to the plate. The tool also allows the clutch plate to be centred accurately on the guide bearing or pressure plate and the adjusting ring rewound.
- Material: Aluminum.



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.
- Material: Aluminum.

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.
- Material: Aluminum.

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

Remove Seal

- Step 1:** Select the suitable seal remover provided.
Step 2: Insert the **puller** between seal and wall.
Step 3: **Screw the bolt of puller and extract** the seal



Install Seal

- 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



KA-6971K

- Select the suitable seal remover provided.
 Insert the gap between seal and wall.
Twist and extract the seal



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-6971KB Universal Camshaft Seal Remover & Installer



Description:

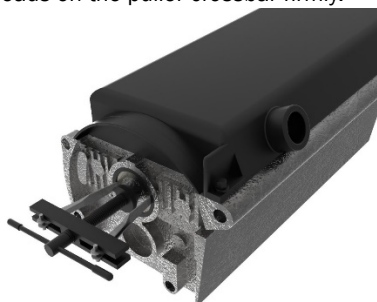
- Special Interchangeable seal assemble adapters are designed to use with the cam or crank bolt.
- Replace the crank seal without disassembling the crankcase
- Capable of servicing seal size from 21.6mm to 58mm.
- Save working time and costs.
- Eliminate the scraping the crank surface.

Content:

- (1) Puller with specialized puller leg hooks that secure seal for fast and easy removal.
- (2) Blue seal adapters are made of aluminum to eliminate damage to crank.

Remove the Crankshaft/Cam Seal

1. Choose the proper size of the puller legs to reach and insert the inner diameter of the seal. Let the puller legs be contrary to each other.
2. Set the puller firmly and secure the puller leg heads on the puller crossbar firmly.



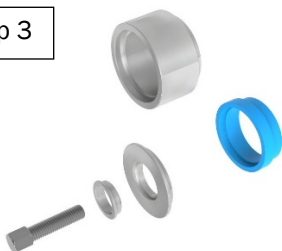
3. Rotate the center bolt till the inner crank/cam seal is plucked away



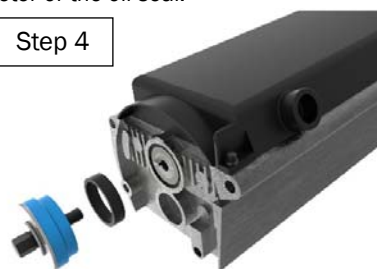
Install the Crankshaft/Cam Seal

1. Select the adapter that fit the size of the bolt previously removed from Crankshaft/Camshaft.
2. Assemble the adapter and fixed ring onto the bolt (if the screw is too long, insert a spacer between the fixed ring and the blue adaptor)
3. Select a blue adaptor that fits the diameter of the oil seal.

Step 3



Step 4



4. Place the new oil seal into the place on the crankshaft/camshaft, and use the flue adaptor to secure it in place.
5. Rotate the bolt and assembled parts by hands into the crank/cam
6. Using a spanner and press the new seal back into place





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 Clutch Alignment Set

- For passenger cars.
- Align the clutch disc either relative to the clutch pressure plate or via the pilot bearing relative to the flywheel.
- The self-centring mechanism ensures the tool is being exactly positioned in the clutch disc hub.
- For clutch hub Ø15~28mm.



KA-3646A Universal Clutch Alignment Set

- Align the clutch disc either relative to the clutch pressure plate or via the pilot bearing relative to the flywheel.
- The self-centring mechanism ensures the tool is being exactly positioned in the clutch disc hub.
- For clutch hub Ø15~28mm.
- For pilot bearing Ø12, 14, 15, 16, 17, 18, 19mm.



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 Diesel Injector Remover – Hydraulic Upgrade Kit

Turns all diesel injector removers into 17t hydraulic kits.

This set enables the controlled extraction of very tight-fitting or stuck injector nozzles.

It is used in conjunction with a injector nozzle puller with extraction bridge, and a hydraulic pump.

| NO. | Description | Similar to |
|-----|--|---------------|
| 1 | Hydraulic Cylinder 17t (with Nut M16 x 1.5) | KL-0040-170 |
| 2 | Spacer Ring | KL-0040-1751 |
| 3 | Pull Spindle M14 x 1.5 (240mm) external thread | KL-1383-1113H |
| 4 | Pull Spindle M14 x 1.5 (315mm) external thread | KL-0583-1032H |
| 5 | Pull Spindle M17 x 1.0 (240mm) internal thread | KL-0369-4606H |
| 6 | Pull Spindle M17 x 1.0 (315mm) internal thread | KL-0583-1005H |
| 7 | Pull Spindle M18 x 1.5 (250mm) internal thread | KL-0186-1711H |
| 8 | Pull Spindle M25 x 1.0 (240mm) internal thread | KL-1383-1021H |





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.

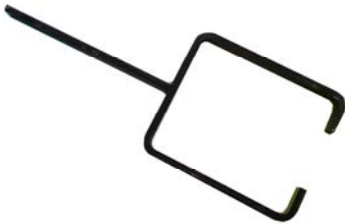
INSTRUCTIONS:

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-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-8385 Clutch Compressor for Opel & Saab

- Clutch pressure plate for Opel and Saab.
- The tool contains a steel plate with a number of concentric steps which allow the pressure plate to be accurately centered.
- A compression spindle is with axial bearing and center of the steel plate to apply compression forces without distortion of the spring-fingers.
- Advantage: No distortion of the pressure plate.
- Clutch pressure plates are not compressed in a normal bench-vise or under a hydraulic press.



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 housir 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

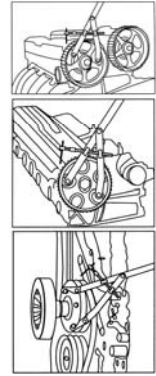
Used to release fingers that hold clutch line to the clutch sleeve cylinders. It works on hard-to-reach coupling found on ford light-duty trucks, bronco II, Ranger, Explorer, 1989 to current thunderbird and cougar with hydraulic clutch.



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: $\varnothing 6\text{m/m}$ - $\varnothing 10\text{m/m}$, $\varnothing 8\text{m/m}$ - $\varnothing 11\text{m/m}$
 $\varnothing 10\text{m/m}$ - $\varnothing 12\text{m/m}$, $\varnothing 11\text{m/m}$ - $\varnothing 16\text{m/m}$



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

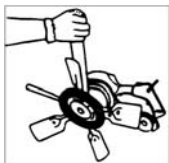
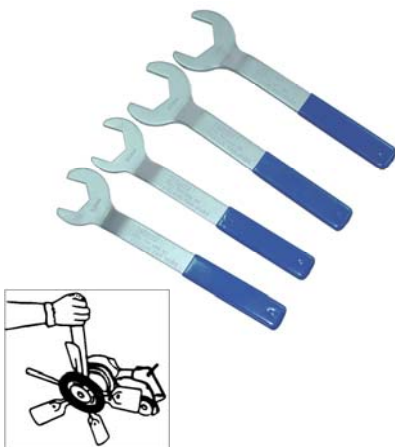
For twisting the water pump on OPEL and GM when tightening the belt on OHC-engines.

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.

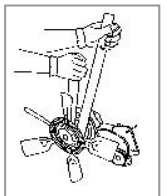
- Application: Mercedes engines M1.3(6-cylinder), M104(6-cylinder 4-valve), M119(8-cylinder 4-valve), M120(12-cylinder 4-valve)
- Length: 400mm



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 and 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 Serpentine 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-6550B 15PCS Ratcheting Serpentine Belt Tool Set

- A Complete tool set for removing /installing the serpentine belt on vehicles with a spring-loaded belt tensioner pulley.
- Attach the socket with the Long tool bar or ratcheting wrench for maximum access.
- Content:
 - (1) Drive Tools- Long Bar
 - (2) Top-Quality Ratcheting Wrench,
 - (3) 3/8", 1/2" and 3/4" Adapters
 - (4) 6 Point Sockets: 13,14,15,16,17, 18,19mm
 - (5) Crowsfoot Wrench: 13, 14,15mm



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



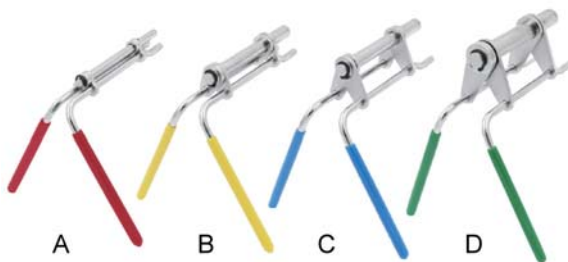
KA-3644 Import Serpentine Belt Wrench

- 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-5283 Rod Seal Installation Tool

- Rod seal installation tool can reduce the chance of seal damage by installation, most failures of quality seals are caused by bad installation or complicate groove designs.
- The tool turns seal to an omega shape without acute angle (not suitable for fragile materials), it makes the size of seal smaller than the gland hole diameter, seal can cross all over the sharp chamfers safely then rebounds in the groove.



| A | B | C | D |
|--------------------------|------------------------|-----------------------|--------------------------|
| 22-30mm (0.7"-1.187") | 30-50mm (1.187"-2") | 50-70mm (2"-2.75") | 70-165mm (2.75"-6.5") |



Cylinder Head Surface Rectifier

- Precise test for engine block and cylinder head when reassembling or overhauling an engine.
- Work with a feeler gauge & Suitable for 4- and 6-cylinder engines.

KA-7368 – 600mm



KA-7368S – 610mm



Specification:

| | Length | Width | Thickness | Material | Tolerance |
|----------|--------|-------|-----------|------------|-----------|
| KA-7368 | 600mm | 36mm | 16mm | S50C steel | <0.05mm |
| KA-7368S | 610mm | 50mm | 6mm | S50C steel | <0.03mm |

Operation:

1. Place the surface rectifier on the cylinder base (Fig. 1).
2. Refer to automotive manufacturer's service manual for the minimum clearance.
3. Slightly tilt the surface rectifier and use a feel gauge with the proper thickness. Insert the gauge into several spots to see if the clearance is acceptable (Fig. 2).



Fig. 1



Fig. 2



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 cutlass 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-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 Tauruses and Mercury Sables with an AXOD, AOD, or ATX transmission. Each tool is available separated.



KA-5050A

Fuel Line Disconnect Tool Set

- The tool set for disconnecting quick-connect couplings on fuel lines.
- Suitable for VAG, Fiat, Jeep, Opel, Ford, Chrysler and Volvo.



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



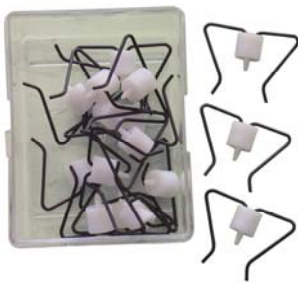
KA-5117 Oil Pan Separator Tool

- 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-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-3079 Gland Nut Wrench

- Fully adjustable to fit hydraulic cylinders on vehicles having gland nuts from 1" to 3-3/4" (25-95mm) in diameter.
- It also reverses to work on either 1/4" or 7/32" pinholes. Use with 1/2" square drive to tools.



KA-3080 Adjustable Gland Nut Wrench

- Fits hydraulic cylinders on vehicles with gland nuts from 2"-6" (51-152mm) in diameter, pin to pin.
- Reverses to work on 1/4" or 5/16" pinholes.
- Use with 3/4" square drive ratchet or breaker bar.
- Fits most farm and construction equipment.





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.

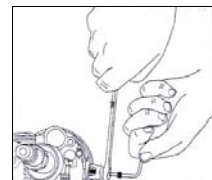


KA-5049 Power steering Pump/Alternator Pulley Remover

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

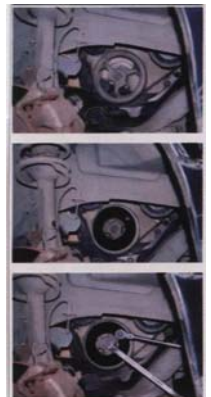
Removing steering wheels of most domestic and imported vehicles, with or without telescoping tilt steering columns, is easy with this new set. You get the steering wheel puller, including five sets of cap screws needed for various thread requirements. The steering wheel lock plate compressor is also 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 a breaker bar or ratchet.
- This unique tool has been developed to aid in the removal of the harmonic damper pulleys.
- 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 or 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
 - Chrysler 1998 and later 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 trucks & 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-8397 Harmonic Balancer Puller Set

- Designed to remove and install the harmonic balancer.
- Application:
 1. For most popular Chrysler, Hyundai, Mazda Engines
 2. Also works on GM 2000 generation III 4.8L, 5.7L, 6.0L and 8.1L V8s, also works on Cadillac 4.5, 4.6 and 4.9 L V8s beginning in 1988.
 3. Chrysler engines beginning in 1990 thru 2002 can be serviced including 2.0, 2.4l L-4s. Plus 2.5L, 2.7L, 3.3L, 3.5L and 3.8L V6s.



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)



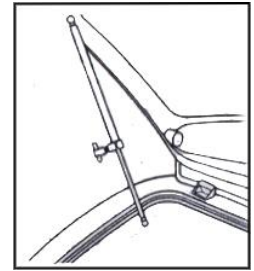
KA-6557



KA-6557A



KA-6557B



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-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



KA-6397A

KA-4352 Master Freeze Plug Installation Tool Kit

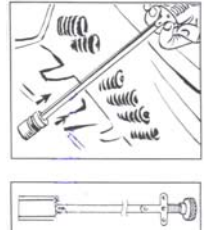
- Complete kit including straight and formed driver, all adapters and coupling nut, plug exclusive pneumatic adapter.
- All parts quality machined and plated.

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



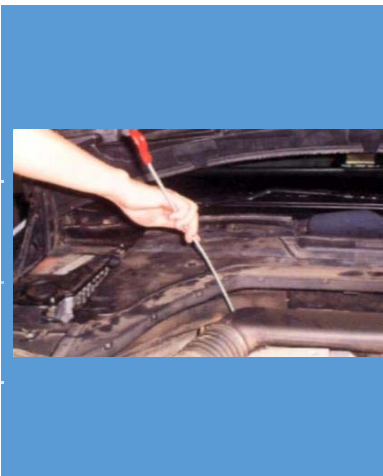
KA-3110 Volvo Strut Nut Socket

- 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.

Transmission / Engine Oil Dipstick for Mercedes Benz



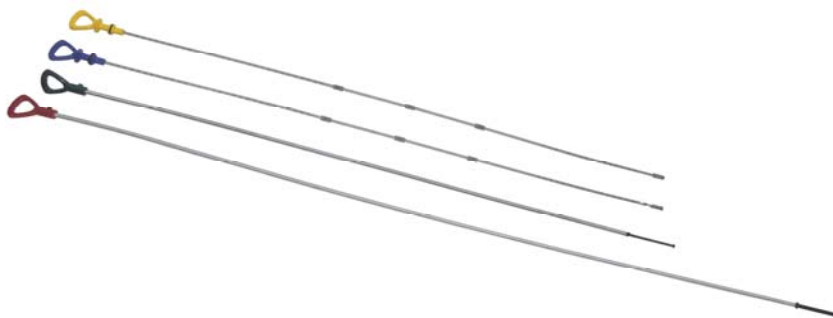
| ITEM NO. | DESCRIPTION |
|----------------------------------|---|
| KA-6950 Oil Gauge | <ul style="list-style-type: none"> Flat Type – stainless steel Length:850mm For engine 103.943/984/985, 104, 111, 119, 120, 137, 603.913/963/97, 604, 605, 606, 611, 612, 613, 626 |
| KA-6951 Oil Gauge | <ul style="list-style-type: none"> Head 90° Flat – stainless steel Length:930mm Engine 112, 113, 646, 647, 648 |
| KA-6952 Transmission Dipstick | <ul style="list-style-type: none"> Round Spring Type Length: 920mm Transmission 716.5, 722.7 |
| KA-6953 Transmission Dipstick | <ul style="list-style-type: none"> Round Spring Type Length: 1220mm Transmission 722.6 |



KA-5180K 4PCS/SET Transmission/ Engine Oil Dipstick for Mercedes Benz - colorful

Contents:

- KA-6950C Benz engine oil gauge (Flat Type)
- KA-6951C Benz engine oil gauge (90°)
- KA-6952C Benz 722.7 transmission oil gauge
- KA-6953 Benz 722.6 transmission oil gauge



KA-5161 Mercedes Truck Oil Dipstick

- Length: 1000mm



KA-5160 Audi Oil Dipstick

- Length: 695mm
- Applicable: Audi 100



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

- Renew the diameter and replace a new drain oil drain plug.
- Popular sizes fit nearly all applications.

Application:

Step 1: Disassemble the damaged oil drain screw.

Step 2: Choose a tap. For example, if the original diameter of oil drain hole is M14, then operator needs a M15 tap.

Step 3: Use a tool operating the tap to enlarge the diameter of oil drain hole.

Step 4: Take a washer through the new oil drain plug and then insert a new oil drain plug.



Step 1



Step 2



Step 3



Step 4



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

Size: M13 x 1.5P, M15 x 1.5P, M17 x 1.5P, M20 x 1.5P



KA-7229K1 114pcs Oil Drain Repair Kit

Size: M13 x 1.5P, M13 x 1.5P, M15 x 1.5P, M17 x 1.5P, M20 x 1.5P, M22 x 1.5P



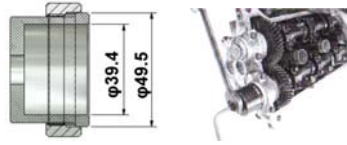
KA-7229K2 48pcs Oil Drain Repair Kit

Size: M15 x 1.5P , M18 x 1.5P , M20 x 1.5P



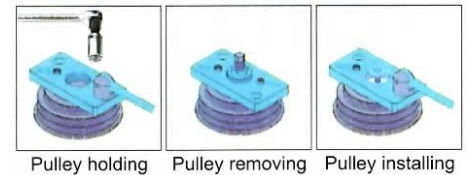
KA-6100 Camshaft Seal Installer

- 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



Pulley holding Pulley removing Pulley installing



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-3254** 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-2060C Camshaft Central Valve Tool For VW, Audi

- Set of 3 Assembly Tools for installation and removal 4/3-way central valve for camshaft adjustment.
- Applicable on: Audi A3 with 4-cylinder gas direct injection, 1.8 liter, 2.0 liter, 4v, TFSI engine with chain.
- This set includes the original tool T10352 and the new versions T10352/1 and T10352/2. Set of 3 sockets. 3/8" drive, outside diameter 34mm.



KA-2084 Crankshaft Rear Oil Seal Installer (ISUZU 3.5 tons)

This tool is specially designed for preventing the oil seal from damaged when installing it. Oil seal genuine no: BZ4962-E, 3-97071561.

Application: ISUZU 3.5 tons (4JB1, 4JG2) (130HP / 150HP))



KA-2085 Crankshaft Front Oil Seal Installer (ISUZU 3.5 tons)

This tool is specially designed for preventing the oil seal from damaged when installing it. Oil seal genuine no: BZ4961E.

Application: ISUZU 3.5 tons



KA-2086 Crankshaft Oil Seal Replacer (ISUZU)

The best tool for replacing crankshaft oil seal.

No damage to oil seal and related parts.

Easy to use and helps to install the oil seals accurately.
















Save time and money

Application: ISUZU truck, engine model: 4HF1, 4HG1, 6HH1, 6HK1

Oil seal genuine no: front BZ4365E, rear BZ4219E

KA-6078C / KA-6078C-13 / KA-6078C-15 Transmission Filling system

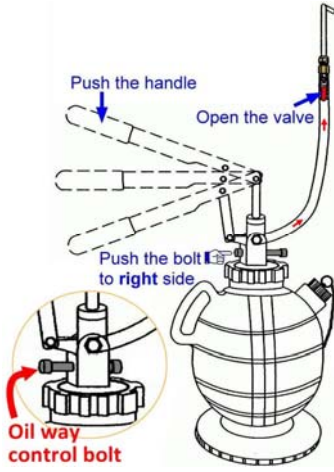
Attachment Specification:

| Parts No | picture | application | KA-6078C | KA-6078C-13 | KA-6078C-15 |
|----------|---|--|----------|-------------|-------------|
| ATF-101 |  | 1/8 - 27 (NPT), FORD | • | • | • |
| ATF-102 |  | Universal BMW, Honda, Nissan... etc. | • | • | • |
| ATF-103 |  | VW/Audi, Skoda | • | • | • |
| 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 | • | • | • |
| ATF-109 |  | M18 x 1.5, Nissan, Infinity | | • | • |
| ATF-110 |  | M30 x 1.5, Audi/VW, Skoda | | • | • |
| ATF-111 |  | Universal Flexible 300mm, Honda, Hyundai, Kia...etc. | | • | • |
| ATF-112 |  | 5/16 - 24 (UNF), Volvo | | • | • |
| ATF-113 |  | M18 x 1.5, Toyota, Lexus | | • | • |
| ATF-114 |  | M8 x 1.0, Nissan, Infiniti | | | • |
| ATF-115 |  | ATF- Adapter V.W Passat | | | • |



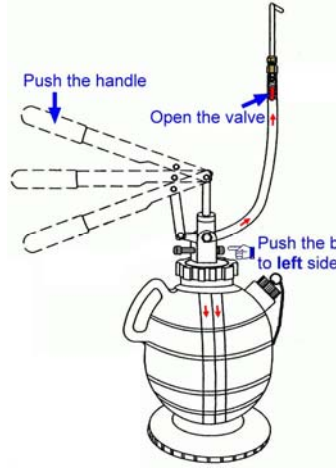
- Capacity: 7.5L
- Outlet: 80cc/ cycle
- Viscosity Range: up to SAE 140

Operation:

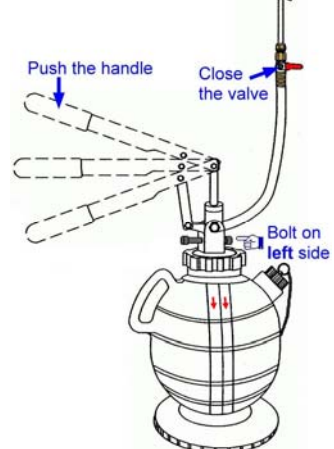


Step 1:
➤ Select the correct attachment.

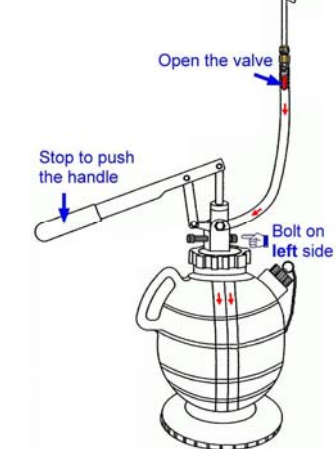
➤ Open the valve and push the oil way control bolt to **right** side, and then push the handle to transmit oil.



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-6078F Manual ATF Refill With 20 Adapters

Nylon material . Lightweight
Durable . Economy

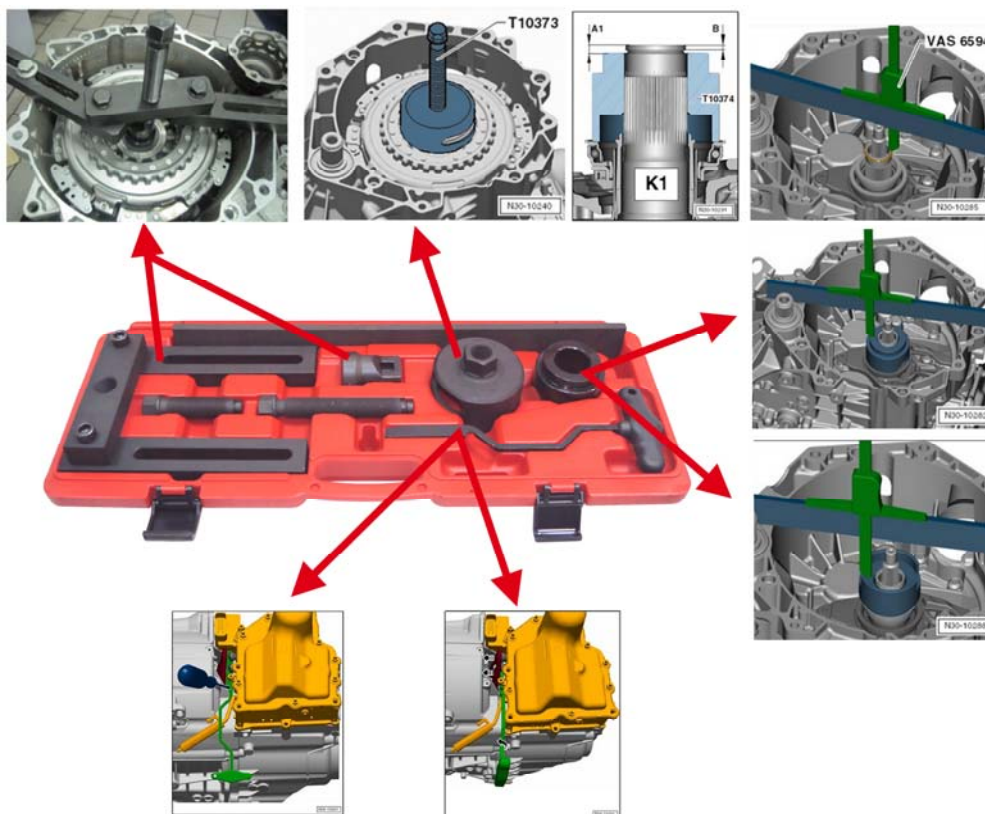
- Manual type pressure tank to refill ATF on automatic transmissions without a dipstick.
- Includes 20 adapters for most common vehicles.
- Tank with 6 liter / quarts capacity, suitable for most transmissions - Audi, Cadillac, Ford, GMC, Infiniti, Mercedes, Nissan, Toyota, Volkswagen, and Volvo.
- Specially designed tank base for feet to step on to stabilize the tank while pumping.
- Adapters in nylon 6-6 material provides lightweight but also durable features.

Instructions:

1. Fill the 6 liter / 1.5 gallon tank with new ATF.
2. Connect the manual pump on top of the tank.
3. Choose a suitable adapter and connect the adapter to the transmission filler plug (Fig.1) (or drain plug with an overflow pipe if no filler plug exists).
4. Connect the hose to the transmission adapter.
Pump manually for about 40 times (Fig.2), and open the valve on the hose end.
5. The pressure will push the new AFT into the transmission.
6. Disconnect the adapter from transmission, and drain residual fluid in the hose. Store the tool in a well-ventilated location, and avoid direct sunlight exposure.

Attachment Specification:

| | | | | | |
|----|--------------------|--------------------|----|---------------------|---------------------|
| 1 | 1/8"-27(NPT) | Ford | 11 | M18 × 1.5 | VAG |
| 2 | 5/16"-24UNF | Volvo | 12 | M30 × 1.5 | VAG |
| 3 | M10 × 1.0 | VAG | 13 | M8 × 1.0 | Nissan, Infiniti |
| 4 | Hook type – small | VAG | 14 | M10 × 1.0 | Volkswagen |
| 5 | Hook type – medium | VAG | 15 | Flexible 300mm hose | Honda, Hyundai, Kia |
| 6 | Hook type – large | BMW, Honda, Nissan | 16 | M12 × 1.25 | Nissan |
| 7 | M18 × 1.5 | Toyota | 17 | M14 × 1.5 | VAG |
| 8 | M24 × 1.5 | VAG with DSG | 18 | M10 × 1.5 | Nissan |
| 9 | M22 × 1.5 | Audi with CVT | 19 | M12 × 1.75 | Cadillac, Chevrolet |
| 10 | M12 × 1.5 | Mercedes 722.9 | 20 | Ear clip type | Mercedes 725.0 |



KA-5195 Clutch Removal Set

For VW & Audi, 7-speed dsg

KA-6592 7-Speed Dual Clutch Gearbox Assembly Lever

- Used to operate the engaging lever during dismantling and mounting of the mechatronic unit on 7-speed(DSG) dual clutch gearbox OAM (DQ200).



| | |
|------|--|
| Audi | A3 2004> |
| VW | Golf 2004>, Golf 2009>, Golf Variant 2007>, Golf Variant 2010>, Jetta 2005>, Jetta 2011>, Passat 2006>, Passat CC 2009>, Eos 2006> |
| SEAT | Altea 2005>, Altea 2009>, Toledo 2005>, Toledo 2013>, Leon 2006>, Leon 2009>, Leon 2013>, Altea XL 2007>, Altea XL 2009>, Altea Freetrack 2007, Altea Freetrack 2009>, Ibiza 2008> |

KA-6592A Assembly Lever and Guide Pin – Mechatronic

- For DSG OAM / DQ200
- To operate the engaging lever and guide the mechatronic component during dismantling and mounting jobs of the mechatronic unit on 7-speed dual clutch gearbox OAM.
- OEM Ref. T10407 / T10406



| | |
|-------|---|
| Audi | A3 2004> |
| VW | Golf 2004>, Golf 2009>, Golf Plus 2005>, Golf Variant 2007>, Golf Variant 2010>, Polo 2009>, Polo 2014>, Scirocco 2009>, Jetta 2005>, Jetta 2011>, Passat 2006>, Passat CC 2009>, Touran 2004>, Eos 2006> |
| SEAT | Altea 2005>, Altea 2009>, Toledo 2005>, Toledo 2013>, Leon 2006>, Leon 2009>, Leon 2013>, Altea XL 2007>, Altea XL 2009>, Altea Freetrack 2007>, Altea Freetrack 2009>, Ibiza 2008> |
| Skoda | Fabia 2007>, Octavia 2004> |



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-8390 Universal Clutch Alignment Tool Kit (11pcs)

For fast exact clutch plate centering on vehicles with clutch guide bearing. Suitable for most of vehicles.

Contents:

- Clutch Aligner Ø20 ~ Ø26.6mm
- Clutch Aligner Ø15 ~ Ø19mm
- Clutch Aligner Ø23 ~ Ø36mm
- Sleeve Ø12, 14, 15, 16, 17, 18, 19, 20mm



KA-8389 Clutch Alignment Tool Kit (7pcs)

For fast exact clutch plate centering on vehicle with clutch guide bearing. Suitable for transporter and small lorries with hub Ø23 ~ Ø35mm, especially Renault.

- Contents: Clutch Aligner Ø23 ~ Ø35mm
- Sleeve Ø15, 16, 17, 18, 19, 20mm



KA-8398 Clutch Aligner Set

- Universal clutch aligner for hub Ø 15 – 28mm
- The clutch aligner kit contains centering sleeves with Ø 12, 14, 15, 16, 17, 18, 19 and 20mm.
- For trucks with single or double disc clutches (universal)
- The tool allows the correct alignment of single or double disc clutches of trucks and tractors to the engine.
- Mandrel No.1 is applicable on interior clutch hub Ø 36 – 45mm
- Mandrel No.2 is applicable on interior clutch hub Ø 42 – 52mm inside.
- The clutch aligner kit contains centering sleeves with Ø 20, 25, 27 and 30mm



KA-8399 6pcs Clutch Aligner Tool for Trucks

For trucks with single or double disc clutches (universal)
This tool set allows the correct alignment of single or double disc clutches of trucks and tractors to the engine.

Mandrel No.1 is applicable on interior clutch hub Ø 36- 45mm inside.

Mandrel No.2 is applicable on interior clutch hub Ø 42 – 52mm inside.

The clutch aligner kit contains centering sleeves with Ø 20, 25, 27 and 30mm



KA-8386 Universal Clutch Alignment Tool Kit

- The vehicles equipped with late-model front wheel drives without pilot bear in flywheel.

Specification:

- Clutch Aligner: Ø15 ~ Ø28mm
- Adapter size: Ø12, 14, 15, 16, 17, 18, 19, 20mm
- Material: Nylon + Iron

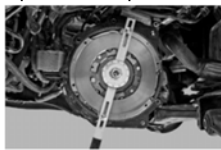
KA-8391 Dual Mass Flywheel – Special Tool (DMF)

Dual Mass Flywheel-Wear Testing Tool(for testing on the vehicle)
Universally suitable for vehicles with Dual Mass Flywheel(DMF)
Indispensable tool for the quick and professional wear tests of Dual Mass Flywheels (DMF).
Tests can be performed directly on the vehicle if the clutch has been removed. The test involves checking the rock allowance (axial play) and the freeplay angle (torsion of the secondary flywheel against the primary flywheel until the tension of the spring can be felt).

Note: It is generally necessary to test the Dual Mass Flywheel for wear and damage when replacing a clutch. Professional tests are essential as Dual Mass Flywheels that are deteriorated or worn can damage the new clutch as well as the gear box and drive train.

Specification:

- 1pc slotted bar
- 1pc degree gauge
- 1pc DTI stand
- 1pc DTI gauge
- 2pc Ring gear locking dogs
- 3pc Ring gear locking dog spacers
- 1pc degree gauge locking bar
- 2pc M6 adaptor
- 2pc M7 adaptor
- 2pc M8 adaptor



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



KA-6672DA Oil Drain Plug Remover

- Size: 14,17,19MM
- 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-5265 Oil Drain Plug Socket with Magnetic

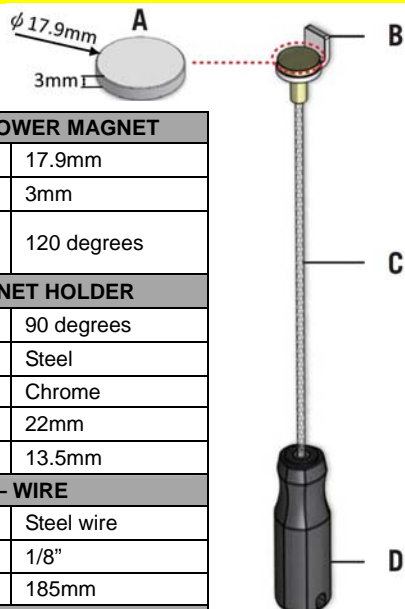
- Protects your hands from hot oil no more fishing for dropped drain plugs
- Dual Size for 17mm, 19mm
- With Magnetic



KA-6986 Magnetic Oil Drain Plier

- Drain old and hot engine oil, transmission fluid, gear oil without danger.
- High power magnet grips oil plug well.
- Pleasant oil changing works.
- Patented handle provide comfortable gripping.
- Universal application.

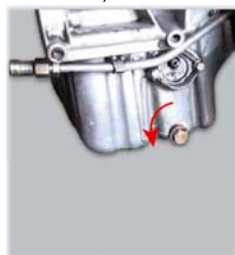
Specification:



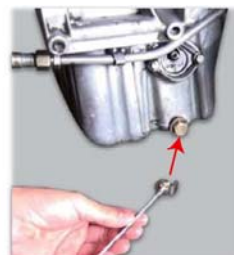
| A – HIGH POWER MAGNET | |
|--------------------------|-------------|
| Size | 17.9mm |
| Thickness | 3mm |
| Max. Working Temperature | 120 degrees |
| B – MAGNET HOLDER | |
| Angle | 90 degrees |
| Material | Steel |
| Surface finish | Chrome |
| Width | 22mm |
| Height | 13.5mm |
| C – WIRE | |
| Material | Steel wire |
| Size | 1/8" |
| Length | 185mm |
| D – PATENTED HANDLE | |
| Material | Plastic |
| Color | Black |

Instruction:

- Step 1: release slightly oil drain plug. (Fig. 1)
 Step 2: Install high power magnetic drain plier onto drain plug. (Fig.2, Fig.3)
 Step 3: Release oil drain plug continually until removal. (Fig. 4 , Fig. 5)



(Fig.1)



(Fig.2)



(Fig.3)



(Fig.4)



(Fig.5)

Comparison:

Traditional



New



- SAFE DISTANCE
- LESS TOUCH
- NO MESS
- NO DANGER

KA-6986M Oil Drain Plug Removal Tool (Magnetic)

- Just magnetically attach the tool to pre-loosened drain plug and rotate to remove plug.
- Interchangeable design.
- No touching hot plug.
- No dropping of plug.
- No hot oil on hands. (magnet max working temp. 120°C/248°F)

Specification:

| | |
|-------------------------------|--------------------------------|
| ■ Magnetic Drain Plug Adapter | ■ Holder for Adapter / Coupler |
| ■ 1/4" Dr. Coupler | ■ 152mm (6") Flex. Shaft |
| ■ 1/4" Square Driver | |



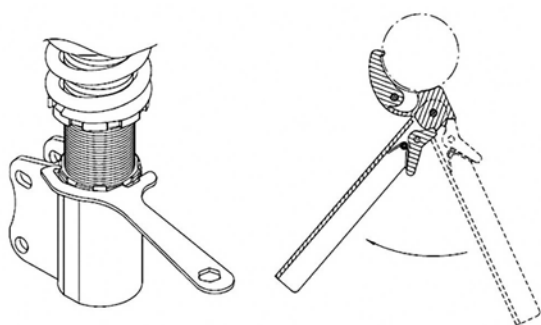


KA-5293

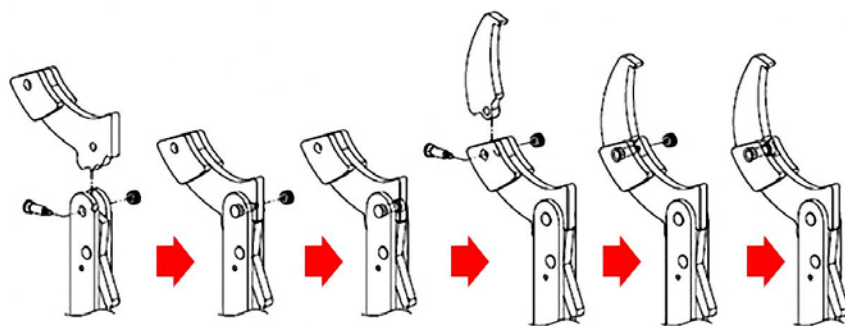
11pcs Adjustable Hook and Pin Spanner Wrench Set

- Specially designed for use with slotted retaining rings.
- The handle has a ratchet structure that gain more free move in the small space.
- The range from 3/4" to 6-1/2".
- Has Pin and Hook type!
- Available in 4 Size:
Hook Pin Diameter: 51~121mm, 115~166mm, 19~51mm, 51~77mm
(2"~4-3/4", 4-1/2"~6-1/2", 3/4"~2", 2"~3")

Operation:

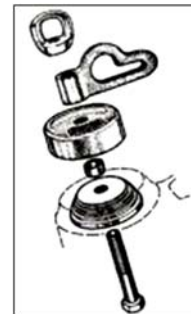


Assemble:



KA-5307 Strut Puller Kit

- Easy, fast, reliable method for pulling strut towers.
- Development for strut towers without bolts, to correct chassis dimensions to factory specifications, strut tower removal in necessary.
- Overall length: 5"
- Capacity: 3 tons



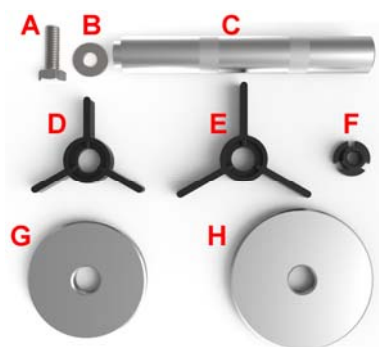
KA-2359 Piston Ring Pliers

- Allows easy and safe mounting/removing various piston rings from 60-160mm.

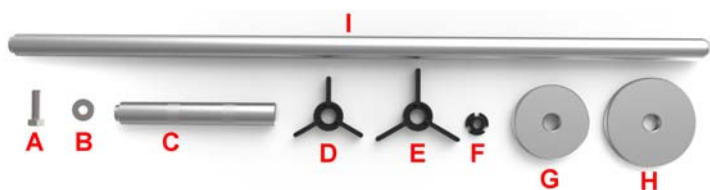


KA-3797 Cam And Crank Shaft Seal Puller

- Engage the adjustable hook behind the seal.
- Brace the push rod against the engine head then push the handle to remove the seal.
- Remove the seal easily & quickly without damage to the cam & crank shaft.



KA-5310A



KA-5310B



KA-5310C

Universal Seal Installer

The arms of the spider keep the seal centered during installation. Another benefit to this tool is the spider can be trimmed to fit seals. The long handle provides good flexibility when installing the pinion seals.

KA-5310A Application: 32~60mm (1-1/4" ~ 2-3/8")

KA-5310B Application: 32~60mm (1-1/4" ~ 2-3/8")

KA-5310C Application: 27~60mm (1-1/8" ~ 2-3/8")

Operation:



Contents:

| | KA-5310A | KA-5310B | KA-5310C |
|----------------------|----------|----------|----------|
| A. Hex Cap Screw | • | • | • |
| B. Washer | • | • | • |
| C. Handle | • | • | • |
| D. Small spider | • | • | • |
| E. Large Spider | • | • | • |
| F. Spider Insert | • | • | • |
| G. 63mm(2.5") Driver | • | • | • |
| H. 76mm(3.0") Driver | • | • | • |
| I. Long Handle | — | • | — |
| J. 45mm(1.7") Driver | — | — | • |

KA-3740-M12 Spark Plug Thread Repair Tool Set (Sleeve Type) - M12 x 1.25



- Special designed for repairing the damaged spark plug thread.
- Protecting sleeve special designed for interior and external thread.
- Use with 14mm socket
- Contents:
 - Screw Tap M15 x 1.25 x 1pc
 - Sleeve M12 x 1.25 (19L) x 8pcs
 - Sleeve M12 x 1.25 (12.7L) x 8pcs



KA-3740-M14 Spark Plug Thread Repair Tool Set (Sleeve Type) - M14 x 1.25

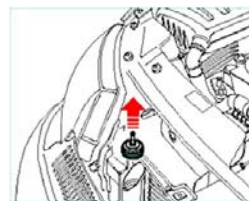


- Special designed for repairing the damaged spark plug thread.
- Protecting sleeve special designed for interior and external thread.
- Use with 14mm socket
- Contents:
 - Screw Tap M16 x 1.25 x 1pc
 - Sleeve M14 x 1.25 (17.5L) x 10pcs
 - Sleeve M14 x 1.25 (11.2L) x 5pcs



KA-6590 Drier Core Plug Remover

- For easy removal of plugs on drier cores.
- Required for new condenser design where the drier is located inside the unit on VW, Audi, Skoda, Seat, Opel and Ford, etc.
- Universal tool for plugs with 5mm inside thread.
- Screw the bolt (M5) of the remover into thread of sealing cover.
- Pull out sealing cover straight in the direction of the arrow.



KA-6591 Fuel Filter Cover Mounting Tool (VAG group)

- The fuel filter cover mounting tool is designed to press the fuel filter cover evenly and in a torsion-free manner into the seal seat in the fuel filter housing.
- Application:
VW, Audi, Skoda and Seat diesel vehicles with UFI fuel filter housing. (2.0L TDI CR)
- Also suitable for Multicar M27/ M28.



KA-3758 Clutch Alignment Tool for Jaguar / Land Rover

- Double Ended

Replace two tools for one with this cost effective clutch tool.

- End 1: Aligner (OEM 308-419)
Defender – Puma TD4 2.4L diesel (2007 onwards)
To align the clutch disc & pressure plate on installation.
- End 2: Adaptor / Installer (OEM 303-1096)
Jaguar X200 – S-Type (2003-2007)
To align the clutch drive plate and install the spigot bearing.
Discovery 3 / Discovery 4 TDV 6 2.7L diesel (2005-2012)
To install the pilot bearing.



KA-7287 Oil Drain Plug Washer Seat Resurfacing Kit

- Tools for resurfacing the washer seat of oil drain plug.
- Resurfacing of the washer seat ensures reliable sealing in the area of the oil drain plug.
- Pilot centering pin allows a correct centred boring on the washer seat.
- Contents:
 - Pilot Centering Pin
M12 x 1.5P, M13 x 1.5P, M14 x 1.5P, M15 x 1.5P, M16 x 1.5P, M17 x 1.5P
 - Milling cutter (handle / 3/8" square driver)
 - Wrench





KA-7296 Bosch Direct Injection Injector Puller Kit

- For Bosch Direct Injection Injector.
- Universal Design that Services Bosch Direct Injection Injectors in many Domestic, European and Asian Vehicles.
- Unique 2-PCS Jaw Design with Slide Lock which Enables the Easy Access and Grips Recessing Injectors and Avoid Component Damage.
- Save Labor and Service Times.
- The Slide Hammer is made with 1-Pound (lb) Weight that Helps in Breaking Loose the Stuck Injectors.



KA-5324 Universal Separator

- Applicable: Ford, Toyota, Lexus GS 300 (1999-2004)
- Mult-purpose puller set for balancer pulley & gear.



KA-3768 Crankshaft Rear Oil Seal Installation Tool for SAAB

- It is the best tool for replacing crankshaft oil seal.
- No damage to oil seal and related parts.
- This tool is easy to use and saves time and money.
- This tool is designed to install the oil seals accurately.



KA-5334

DCT Clutch Installation / Removal Tool (Volvo, Ford, Chrysler, Dodge)

For 6 speed DCT – dual clutch transmission (getrag 6 DCT450 / MPS6) on Volvo, Ford, Chrysler, Dodge.

Suitable for:

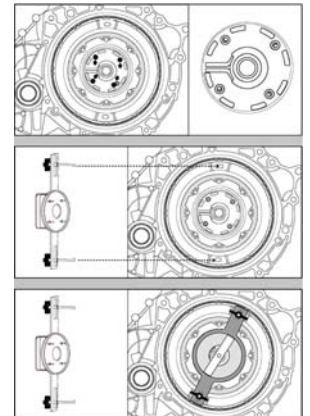
Volvo: C30, C70 (06~), S40 (04~), S60 (11~), S80 (07~), S80L, V40 (13~), V40 Cross Country, V50, V60, V70 (08~), XC60.

Ford: Focus (04~), C-Max, S-Max, Galaxy, Mondeo (07~), Kuga (13~)

Chrysler: Sebring.

Dodge: Avenger, Journey.

OEM Ref. 9997435 (volvo) / 308-763 (Ford)

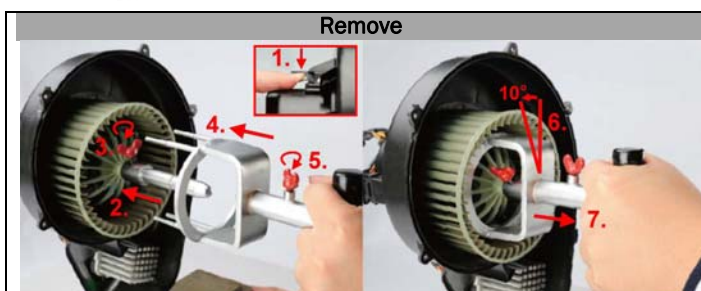


KA-5333 Blower Motor Remover / Installer (Volvo / Land Rover)

- To remove and install the blower motor.
- OEM Ref. Volvo 9997284 / Land Rover 412-140.

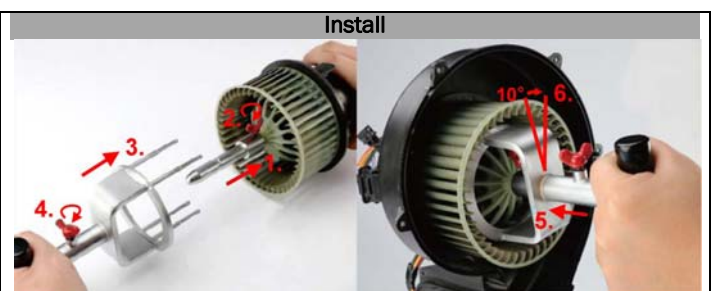
Volvo: S60(2011~), S60 Cross Country, S60L, S80(2007~), S80L, V60, V60 Cross Country, V70(2008~), XC60, XC70(2008~)

Land Rover: Freelander 2 / LR2(2006~2014), Range Rover Evoque(2008~).



Press the locking tap.
Install the tool assembly.

Turn the tool anticlockwise and then take out the blower motor from the housing.



Install the tool assembly.

Push the blower motor into the housing and then turn the tool clockwise.



KA-3770 Twisted-Copper Brush Cleaning Set

- Size: Ø6mm, Ø8mm, Ø10mm, Ø13mm, Ø16mm (each 4 pieces)
- Versatile through 5 different brush size.
- Thanks to the flexible bit holder also useable for hard to reach holes.
- For cleaning soiled or rusted bores and guides: for example, the caliper sliding guide or the bore of the ABS sensor in the steering knuckle.

Content:

- 1 x Brush Holder with Collet
- 1 x Flexible Bit Holder 1/4"
- 4 x Tube Brush Ø6mm
- 4 x Tube Brush Ø8mm
- 4 x Tube Brush Ø10mm
- 4 x Tube Brush Ø13mm
- 4 x Tube Brush Ø16mm



KA-3771 Injection Shaft Cleaning Set

To clean the injector shaft and seat as well as the injector surface.



| No. | Description | KA-3771 | KA-3771S |
|-----|------------------------------------|------------|-----------|
| 1 | Wire Brushes Ø18, 19, 21, 24, 26 | Each 2 pcs | Each 1 pc |
| 2 | Cleaning brushes (9 x 100 x 300mm) | 2 pcs | 2 pcs |
| 3 | Flexible bit holder | 1 pc | 1 pc |
| 4 | Adaptor with brush holder | 1 pc | 1 pc |
| 5 | Mounting bar | 1 pc | 1 pc |
| 6 | 1/4 Hex cleaning brushes | 2 pcs | 2 pcs |
| 7 | Sealing plugs | 8 pcs | 8 pcs |
| 8 | Cleaning brush sleeve | 1 pc | 1 pc |
| 9 | Sand paper discs | -- | 1 bag |

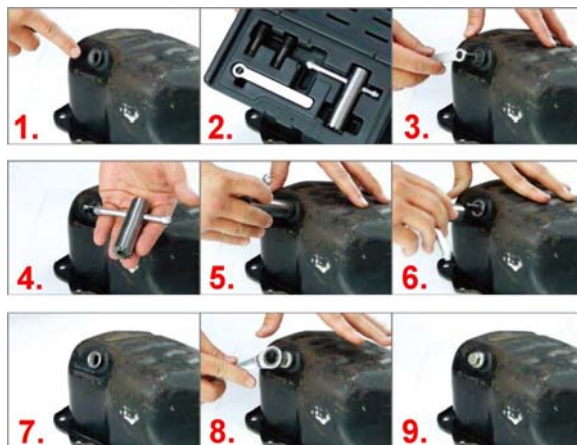


KA-5345 Oil Drain Plug Washer Seat Resurfacing Kit

- Tools for resurfacing the washer seat of oil drain plug.
- Resurfacing of the washer seat ensures reliable sealing in the area of the oil drain plug.
- Pilot centering pin allows a correct centred boring on the washer seat.

Specification:

- A. M14 x 1.5 Pilot Centering Pin
- B. M15 x 1.5 Pilot Centering Pin
- C. Milling cutter (handle / 3/8" square driver)
- D. Wrench





KA-5353 JLR Crankshaft Trigger Wheel Installer

- Tool for installing the crankshaft trigger wheel.
- Approximate dimensions: overall diameter 12.5cm (4.9").
- Application range:
Discovery 3, Discovery 4 and Range Rover sport when fitted with the TDV6 engine.
Ref: 303-1130



KA-7279 Universal Drill Guide Kit

- This universal adjustable drilling guide set allows broken or sheared studs -especially on cylinder-heads or exhaust manifolds- to be quickly and accurately extracted, without the need to remove the cylinder-head. (Male Thread M8 and M10)
- Time savings of between 2 and 4 hours can be achieved as the cylinder head has not to be removed from the vehicle.
- Universal usage.
- Straight boring out of old screw.



KA-5366 Clutch Centring Disc

For the clutch disc mounted within the fly wheel.
Adjustment is not possible without this tool, since the outer diameter of the centring disc is decisive.
Application range: Volkswagen, Audi, Seat and Skoda engines.



KA-5358

Impact Extractor For Pre-chamber For Mercedes Engines

- Ideal for removing trapped diesel pre-combustion chambers.
- Suitable for Mercedes engine OM615, OM616, OM617, OM601, OM602, OM603, OM604, OM605 and OM606.



KA-5360 Cylinder Liner Extractor Tool

- Cylinder liner puller complete with support brace.
- Wet heavy-vehicle (e.g. Mercedes Benz, MAN) cylinder liners, automobile and stationary-engine liners, and other parts may be extracted using this puller.
- Operation: the spindle of the counter-support brace is screwed into the clamping nut of the puller, and the puller inserted into the liner. The counter-support brace is placed on to the cylinder block. Due to the newly-developed spreading system, when the spindle is turned, all three jaws spread quickly and without difficulty, until they are firmly seated beneath the edge of the liner. Then the nut of the counter-support brace is tightened.
- Suitable for cylinder liner Ø60~160mm.



DSG Transmission Filter Wrench (VAG group)

Specially designed to remove and install the transmission filter housing cover when changing the transmission filter on the DSG gearbox in VW, Audi, Skoda and Seat vehicles. No removal of batteries or battery holders (time saving). 1/2" Dr. / 24mm.

KA-7280S Length: 100mm

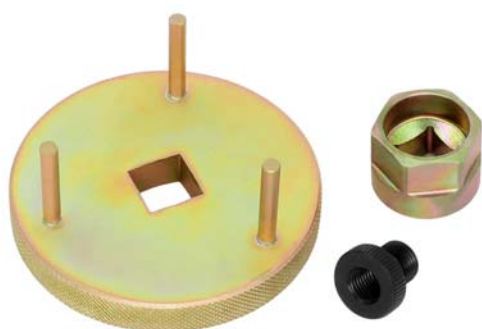
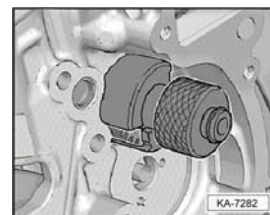
KA-7280 Length: 138mm



KA-7282 Balancer Shaft Puller (VAG group)

- Used for removal of balancer shaft on 4 cylinder injection engine. (108 / 2.0L – chain drive)
- For VAG group – VW / Audi / Seat / Skoda...

| | |
|------|---|
| VW | Golf 2004 >, Passat 2006>, Passat CC 2009>, Tiguan 2008 >, EOS 2006>... |
| Audi | A3 02004 >, A4 2008 >, A5 2008 >, TT 2007 >... |
| Seat | Alhambra 2011 >, Altea 2005 >, Altea XL 2007 >, Altea Freetrack 2007 >... |



KA-7292 Injection Pump Adjusting Tool (1.9L diesel)

- Suitable for Renault, Opel/Vauxhall, Volvo, Dacia, Nissan, Mitsubishi and Suzuki 1.9L direct injection diesel engines (F8Q and F9Q) with adjustable injection pump sprocket.
- Contents: 3 pins adjusting tool, 27mm socket, Adapter for Bosch pump (M10 x 1 to M8 x 1)
- Engine codes: F8Q, 622, 630, 632, 662, 790, F9Q, 650, 660, 664, 670, 674, 680, 690, 731, 732, 733, 736, 740, 744, 748, 750, 751, 754, 755, 758, 759, 760, 762, 770, 772, 774, 780, 782, 790, 800, 803, 804, 808, 812, 814, 818, 820, 826, 870, 872, F9Q1, F9Q2, F9Q B2, F9Q W772, D4192T, D4192T2.

| | |
|---------------|---|
| Renault | Clio, Espace, Kangoo, Laguna, Master, Megane/Scenic, Symbol, Thalia, Trafic |
| Opel/Vauxhall | Arena, Movano, Vivaro |
| Volvo | S40 / V40 |
| Dacia | Solenza |
| Nissan | Interstar, Primastar |
| Mitsubishi | Carisma, Space Star |
| Suzuki | Grand Vitara |





KA-7832A Master Oil Service Kit

Kit includes useful tools when working on oil exchange services:

- 1. Drain plug repair tool sets** in M13 x 1.5, M15 x 1.5, M17 x 1.5, M20 x 1.5 Repairs stripped or worn drain plug holes on oil or transmission pan by enlarging the holes and fit with new drain plugs and washers.
- 2. Magnetic drain plug tool**
Helps mechanics drain hot and dirty engine oil without having a direct physical contact to the oil. Special magnet with strong attraction force and high temperature resistant (up to 120°C / 248°F)
- 3. Pitch gauge**
Helps mechanics determine a fastener's diameter, pitch and length with most common sizes without needing several tools at hand.



KA-7832B Master Oil Service Kit

Kit includes useful tools when working on oil exchange services:

- 1. Drain plug repair tool sets** in M11 x 1.5, M13 x 1.5, M15 x 1.5, M17 x 1.5, M20 x 1.5 Repairs stripped or worn drain plug holes on oil or transmission pan by enlarging the holes and fit with new drain plugs and washers.
- 2. Magnetic drain plug tool**
Helps mechanics drain hot and dirty engine oil without having a direct physical contact to the oil. Special magnet with strong attraction force and high temperature resistant (up to 120°C / 248°F)
- 3. Pitch gauge**
Helps mechanics determine a fastener's diameter, pitch and length with most common sizes without needing several tools at hand.



KA-5376 4pcs Subframe Locating Pin Set

- Material: Cr-Mo with S45C Steel, FINISH: PH Black
- Size :M12x1.5
- On some vehicles in the Volkswagen Audi Group the sub-frame needs to be removed to service the suspension bushes, when removing the clutch, changing the engine, servicing the wheels, steering, stabilizer bar or control arms.
- These pins are screwed into the sub-frame and used to guide it back into place once the task is complete. Care should be taken to bolt back diagonally and to the manufacturer's recommended torque.
- The first an M12 can be fitted to Volkswagen Scirocco (09), EOS (06), Golf (09), Golf Plus (05), Jetta (4-06), Polo (02), Fox (06), Passat (06), Passat CL (09), Audi A3 (04), TT (07) and A4 (01) - OEM T10096 (Sub-frame Locating Pins - Volkswagen and Audi Group).



KA-5376A 4pcs Subframe Locating Pin Set

- Material: Cr-Mo with S45C Steel FINISH: PH Black
- Size :M14x1.5
- On some vehicles in the Volkswagen Audi Group the sub-frame needs to be removed to service the suspension bushes, when removing the clutch, changing the engine, servicing the wheels, steering, stabilizer bar or control arms.
- These pins are screwed into the sub-frame and used to guide it back into place once the task is complete. Care should be taken to bolt back diagonally and to the manufacturer's recommended torque.
- The second size an M14 is primarily used for the new Volkswagen Crafter - OEM T10227
- For VW T5, Touareg 2.5 L 5-cylinder TDI engines.



KA-3773 Heavy Duty Piston Ring Installer

- Save by reducing ring breakage. Tapered jaws to remove and install most passenger car and light truck rings from 3-1/4" to 5-5/16" (83-135mm)
- Length: 245mm



KA-3774 7pcs Oil Seal Puller Set For VW / Audi

- Removes camshaft oil seals. Applicable: VW LUPO 1.4, new POLO 1.4, VR6, AUDI V6, VW & AUDI all engines except diesel, ATE model.
- Size: 25, 32, 35, 27, 55, 32mm (long body).



KA-3050K Seal Extractor

- According to space, and as an opportunity to leverage the whole nation to perform the extraction extracted HANDLE.
- Extractor for oil seal, oil seals, sealing boots, seals, bearing seals and oil seals.
- Now on its own Remscheid Manufacturing: Guarantee the 2-K components with bulky and ergonomically designed handles triangular issue by combining hard and soft surface parts, a maximum power transfer.



KA-5390

Truck Shock Absorber Upper Base Nut Extractor / Installer for Volvo

- For the removal and installation of HGV cab shock absorbers.
- For counter holding the piston rod and simultaneous turning of the screw cap.
- Durable design. For manual operation.
- Application range: Volvo HGV cab shock absorbers.



KA-5391 Engine Crank Alignment For Volvo

- Allows the engine crank to be manually adjusted.
- Allows pinpoint accuracy calibration.
- Ideal for adjustments to the engine.
- Adjusting screw in the clutch housing.
- Application range: Alternatively for 6 or 12 liter Volvo engines e.g. engine D9A, D12, D16C.
- Genuine Stock: Volvo 9996956.



KA-5397 Crankshaft Rear Oil Seal Installer for Hino J08C

- This tool is specially designed for preventing oil seal from damaged when installing it.
- Oil seal genuine no: AZ4079-F.
- Application range: HINO 15 tons / 17 tons.



KA-5398 Crankshaft Front Oil Seal Installer for Hino Truck

- This tool is designed for preventing the HINO crankshaft front oil seal from damage when installing it.
- Oil seal genuine no: AH3618-M, BZ5376E.
- Application range: Hino Truck, Profia K13C-TE350P, 700 series E13C 420P.



KA-5408 Crankshaft Front Oil Seal Remover for ISUZU 3.5 Tons

- User for removing the crankshaft oil seal.
- Adjustable 3 jaws can hold the oil seal for easy removing.
- Application: ISUZU 3.5 T (4JB.4JG1.4JG2.4JH1.4JJ1)



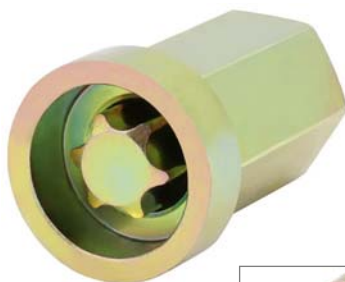
KA-5413 Diesel UD Truck Crankshaft Rear Oil Seal Installer For Nissan (CW520, CW530)

- To prevent the crankshaft rear oil seal from damage when installing it.
- It is very easy to damage oil seal without using this tools.
- Oil seal genuine no: BZ5333E-CW520, BZ4938E-CW530.
- Application range: Nissan diesel UD truck.



KA-5414 Diesel UD Truck Crankshaft Rear Oil Seal Installer for Nissan (CK450, CK451)

- To prevent the crankshaft rear oil seal from damage when installing it.
- Oil seal genuine no: BZ5967E.
- Application range: Nissan Diesel UD truck 350(CK450) over 20 tons, 380(CK451).

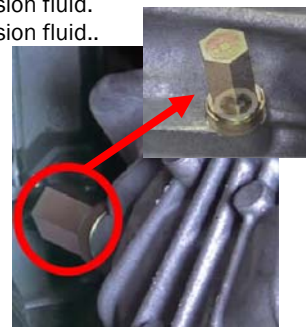


★Star shape stud to fit the outer diameter of drain plug to make removal and installation very STABLE.



KA-5445 ATF Fill /Transmission Plug Socket For Mini

- There is very little clearance from the fill plug to the power steering unit in the car, a traditional socket / ratchet is hard to reach the area. KA-5445 makes it an easy removal and installation of the fill plug with a spanner.
- Save time when checking / changing / adding transmission fluid.
- Save time when checking / changing / adding transmission fluid..
- T55 x 17mm



Oil Drain Plugs

Some recent vehicle makes and models started to use nylon/plastic oil drain plugs, and it is required to replace a new drain plug each time after oil change.

KA-3761D Plastic Oil Drain Plug (VAG group) – 3pcs/set

Required for proper removing and installing of the special plastic oil drain plug (M14 x 1.5 x 22) at plastic oil pan.



| Suitable for VAG 1.8, 2.0 TSI / TFSI; 1.6, 2.0 TDI | |
|--|--|
| VW | Beetle, Caddy, CC, Golf, Jetta, Passat, Polo, Scirocco, Sharan, Tiguan, Touran |
| AUDI | A1, A3, A4, A5, A6, A7, Q3, Q5, Q7, TT, TTS |
| SKODA | Ibiza, Octavia, Rapid, Superb, Yeti |
| SEAT | Alhambra, Leon, Toledo |



KA-3761ES Nylon Drain Plug Kit for Ford – 1pc/set



| Suitable for FORD 1.5, 1.6 TDCi / 1.0, 1.6 EcoBoost | |
|---|--|
| FORD | Transit / Tourneo Connect (2013~) |
| Suitable for FORD 1.5, 2.0, 2.3, 2.5, 2.7, 3.5, 3.7, 5.0, 5.2 petrol / 6.2, 6.7, 6.8 diesel | |
| FORD | Edge (2015~2017), F-150 (2015~2016) Fusion (2017), Mustang (2015~2017) F-250/350/450/550 Super Duty – diesel (2011~2012) |
| Suitable for LINCOLN 2.0, 2.7, 3.7 petrol | |
| LINCOLN | MKX (2016~2017) |



KA-3761MS Oil Plug Kit for Mercedes – 1pc/set

- Suitable for Mercedes:
M176 / M177 / M178 (2015~2018), M276 (2014~2018), M278 / M157 (2014~2018), OM642 (2013~), OM651 (2013~2018), OM654 (2016~2017)

Nylon Drain Plug Set for BMW

- Work with an allen wrench for removal.
- Application: BMW N13-1.6/N20-1.6,2.0 /N26-2.0

KA-3761W 6pcs /set
KA-3761WS 1pc /set

| | |
|--------------|------------|
| Diameter | Ø36mm |
| Thread Size | M24 x P1.5 |
| O-ring | Ø19 x 3mm |
| Max. Torque | 8 Nm |
| Internal Hex | 10mm |

Nylon Drain Plug Set for Ford / Peugeot / Citroen

KA-3761F 6pcs /set
KA-3761FS 1pc /set

- For Citroen, Ford, Peugeot
- Locking type provides leak-free connection

Application:

| | |
|---------|---|
| Citroen | C4 Grand Picasso II, C4 Picasso II, C5 III, C5 III Break, DS4, DS5, Jumpy Kasten, Spacetourer |
| Ford | Kuga II, Mondeo V Turnier, S-Max |
| Peugeot | 3008, 308 II, 308 SW II, 5008, 508, 508 SW, Traveller |

| | |
|-------------|---------------|
| Diameter | Ø37mm |
| Thread Size | M24 x P1.5 |
| O-ring | Ø29.5 x 3.5mm |

KA-3761X



Torx



KA-3761V



Nylon Oil Drain Plugs for VW

- VAG Drain Plug Tool set
- Nylon oil drain plug used on VAG models.
- Also used in the engine gasket head cover on some VAG models.

- KA-3761X**
- Designed with internal Torx for force/torque to be evenly distributed
 - Includes a handy drive, one T40 Torx bit and one H-shaped bit for original drain plugs.

- KA-3761V**
- Includes a handy drive and a H-shaped bit.

Application:

| | |
|------------|---|
| Audi | A1, A3, A3 Quattro, A4, A4 Quattro, A5, A5 Quattro, A6, A6 Quattro, A7, A7 Quattro, Q3 Q3 Quattro, Q5, TT, TT Quattro |
| Seat | Ibiza, Leon |
| Skoda | Octavia, Superb |
| Volkswagen | Beetle, Golf, Golf R, Golf SportWagen, GTI, Passat, Polo, Tiguan |

KA-3761K Plastic Oil Drain Plug Tool Set

- Required for proper removing and installing of the special plastic oil drain plug at plastic oil pan
- For FORD/PEUGEOT/CITROEN Oil Drain Plug



Suitable for FORD 2.0 TDCi

FORD C-Max(2015~), Focus(2014~), Galaxy(2015~), Kuga(2014~), Mondeo(2014~), S-Max(2015~)

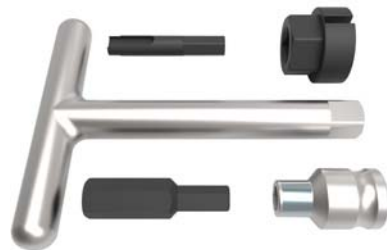
Suitable for PSA 2.0 HDi

PEUGEOT 308(2013~), 508(2014~), 3008(2009~), 5008(2009~), Traveller(2016~)

CITROEN C4(2013~), C5(2009~, 2015~), DS4(2014~2015), DS5(2013~2015), Jumpy(2015~), Space Tourer(2016~)

KA-3761KP Plastic Oil Plug Driver Set

- Contents: 3/8" Dr. T-Handle (80mm long shank length 100mm), 3/8" Dr. slot socket and 3/8" Dr. >1/4"D adaptor EU Registered Design.
- 10mm Hex bit with 1/4" hex shank and VAG oil plug bit with 1/4" hex shank.
- Designed for use with Connect 31775 Peugeot/Citroen (OEM 9801444780 Plug) and Ford (OEM 18711598 plug).
- Plus Connect 31776 Ford (OEM 1830727 plug) and Connect 31774 BMW (OEM 11137605018 plug).
- Plus Connect 31771 VAG (OEM Sump and Cam cover plug 06L 103 801).



Assembly Tool For Plastic Oil Drain Plug (VAG group)



KA-3761

- T-Handle type
- Operate Directly, Save time



KA-3761B

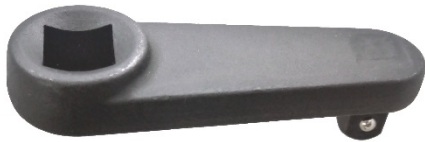
- 10mm
- Suits narrow space



KA-3761C

- 3/8" Dr. & 17mm
- Suits narrow space





KA-4107 Head Bolt Remover for Ford 6.0L

Use with 3/4" drive tools to transmit high torque needed to loosen and tighten head bolts. Allows access to rear head bolts by eliminating the need to remove the cab from the chassis, prevents damage to rear heat shield and eliminates the need to remove the evaporator housing.



KA-2952B Pull Hook Tool (VW / Mercedes)

- Used for installing and removing the handbrake return spring / removing dashboard trims.
- Suitable for VW Crafter from 2006, LT from 1996 and Mercedes passenger cars with rear disc brakes.
- OEM Ref. VW 3438 / Mercedes 116 589 01 62 00



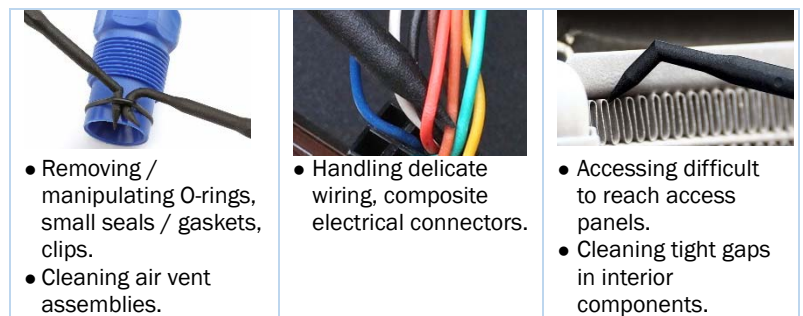
KA-4517 Petrol Injector Puller (Bosch - GDI)

- Pulls Bosch GDI petrol injector straight out, without damaging the injector or head.
- The 2pcs jaw design with slide lock easily accesses and grips recessed injector. Suitable for Bosch GDI injectors found on many European, American and Asian vehicles.
- Works on Ford GTDI EcoBoost engine from 1.0L to 3.7L. Also for gM SIDI Ecotec engine from 2009.
- OEM Ref. FORD 310-206 / GM J-37281-A



KA-5253 Light Duty O-Ring Removal Tool Kit (3pcs)

- Flexible, durable and easy to use.
- Non-marring material.
- Non-scratch.



KA-5462 8" Internal/External Snap Ring Pliers

Operates both internal & external rings.

Unique jaw design to easily remove for straight and 90° angle tips.

Alloy steel and PVC grip with storage for tips.



Specification:

Overall length: 7"

Width: 5"

Thickness: 23mm

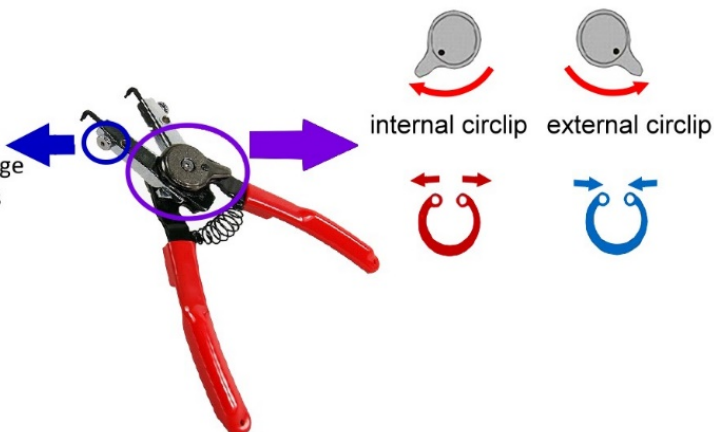
Content:

1 set – straight tips for 1.2mm & 1.8mm

2 set – 90° tips for 1.2mm & 1.8mm

1 pc – hex key

Screw the nut to
Quick & Easy Change
Tips Without Tools



KA-5463 16" Heavy Duty Snap Ring Pliers With Reversible Action

Switch internal / external

Replaceable tips, adjustable stop

External ring size: 89 – 165mm

Internal ring size: 78 – 159mm

Tip size, straight tips 2.8 & 3.2mm

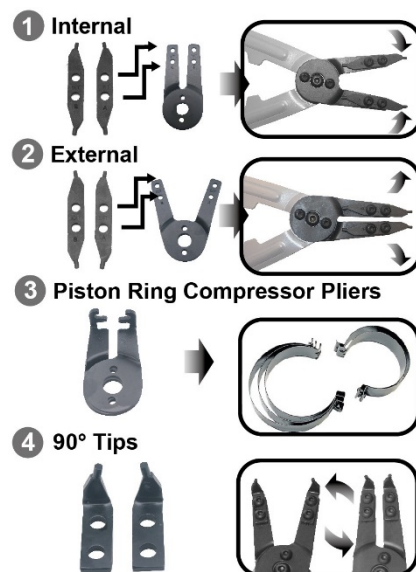
90° tips 3.2mm

1pc hex key for change head function

Material: carbon steels



Assembling Process



KA-5461 8" & 16" Circlip Plier Tool Set

Contents:

| 16" circlip plier | |
|--|------|
| Internal head | 2pcs |
| 2 in 1 internal tips | 2pcs |
| External head | 2pcs |
| 2 in 1 external tips | 2pcs |
| 90° tips | 2pcs |
| Piston ring compressor plier head (73 to 117mm / 2-7/8" to 4-5/8") | 2pcs |
| Hex key | 1pc |
| screw | 6pcs |
| 8" circlip plier | |
| Straight tips | 2pcs |
| 90° tips | 4pcs |
| Hex key | 1pc |





KA-4114 Chrysler Transmission Dipstick

- Use on 6F24 automatic transmissions found on Late model 2012 and up Dodge Dart, Fiat 500, Jeep Cherokee, Compass & Patriot.
- Black finish with reverse printing on scale for easier reading.
- Knurled handle, Tapered end.



KA-4133 Fuel Return Line Tool For VAG TDI - CR

- Designed for professional removal / installation of the fuel return line push - fit connector (round type) at the injectors.
- Suitable for VW, Audi, Skoda, Seat 2.0, 2.7 and 3.0 TDI common rail diesel engine.

| Models | |
|--|---|
| VW | Eos, Golf V - VI, Jetta, Passat, Passat CC, Scirocco, Tiguan, Transporter T5, Phaeton |
| Audi | A3, A4, A5, A6, A7, Q5 |
| Skoda | Yeti |
| Seat | Exeo |
| Engine codes | |
| BMK, BPP, CAAA, CAAB, CAAC, CAAD, CAAE, CAGA, CAGB, CAGC, CBAA, CBAB, CBAC, CBDA, CBDB, CBDC, CDUD | |



KA-4134 Crankshaft Pulley Assembly Tool Set (VAG)

- Used for dismounting and mounting the crankshaft pulley on 4-cyl. 1.8L / 2.0L 4V TFSI direct injection petrol engine (third generation EA888 - timing chain).
- Tools for securing crankshaft pulley, keep everything in time while performing a chain service.



KA-4135 Hybrid Belt Tensioner Tool For Hyundai /Kia

- The tool must be used to compress the stiffer hydraulic tensioner as part of the Hybrid Starter Generator (HSG) belt removal steps.
- Suitable for: Hyundai sonata / Ioniq
Kia Optima / Niro



KA-5464 Crankshaft Socket for Subaru

- Used to align crank to T.D.C. while working with timing chain. Also works on older 3 or 6 cylinder Dohc engines.
- Application:
 - 2013-2015 SUBARU-BRZ
 - 2012-2015 SUBARU-FORESTER
 - 2012-2015 SUBARU-IMPREZA
 - 2015-2015 SUBARU-IMPREZA WRX
 - 2013-2015 SUBARU-LEGACY
 - 2013-2015 SUBARU-OUTBACK
 - 2006 SUBARU-OUTBACK,(6-CYL.)
 - 2006 SUBARU-TRIBECA B9
 - 2013-2015 SUBARU-XV CROSSTREK



KA-2203A Clutch Alignment Tool for MINI

- The clutch alignment tool is used to install a new clutch in the manual transmission.
- OEM Ref. 21 6 100 (83 30 0 493 999)

| Make | Model | Submodel | Engine |
|------|--------|----------|-----------------|
| MINI | Cooper | Base | L4 1.6L W10B16A |



KA-2203B Clutch Alignment Tool for MINI

- The clutch alignment tool is used to install a new clutch in the manual transmission.
- OEM Ref. 21 2 210 (83 30 0 494 261)

| Make | Model | Submodel | Engine |
|------|-------|------------------------|--------|
| MINI | All | John Cooper Works GP | All |
| MINI | All | John Cooper Works MC40 | All |
| MINI | All | S | All |



KA-2087 Oil Filter Housing Removal Tool (WAF 27mm)

This oil filter housing removal for the removal and installation of the specified difficult to access oil filter covers.

Indispensable tool when replacing the oil filter cartridge.

Application:

Oil filters on FORD/PSA 2.0L Durotorq TDCI/HDI (DW10C) and 2.2L Durotorq TDCI/HDI (DW12C) diesel engines.

S Max, Mondeo, Galaxy, Euro 6 compliant engines from 2010 onwards.

Bi Hex x 1/2" drive.



KA-3712 Flywheel Rotating Tool With One Sprocket

- This tool allows the accurate rotating of the engine for valve setting or other maintenance and service work.
- Application: suits MAN engine D20, D25, D26, D28...

| No. of gears | H mm | □ |
|--------------|------|------|
| 1 | 61 | 1/2" |



KA-4519

Crankshaft Pulley Flange Holding Tool For 1.3L JTD / Multijet

- For counter holding the oil pump drive flange.

Application:

| Manufacturer | Model |
|------------------|-----------------------|
| Fiat (JTD) | 500 / 500C |
| | Panda / Panda Classic |
| | Punto / Punto Classic |
| | Punto Evo |
| | Grande Punto |
| | Qubo |
| | Doblo / Dobloc Cargo |
| | Idea |
| | Linea |
| | Fiorino |
| | Strada Pickup |
| Lancia (JTD) | Ypsilon |
| | Musa |
| Alfa Romeo (JTD) | MiTo |

| Manufacturer | Model |
|---------------|---------------------|
| Ford (TDCi) | Ka |
| Opel | Agila / Agila-B |
| Vauxhall | Corsa-C / Combo-D |
| Holden | Corsa-C / Corsa-D |
| (CDTi) | Meriva-A / Meriva-B |
| | Astra-H / Astra-J |
| | Tigra-B |
| Suzuki (DDiS) | Swift |
| | Ignis |
| | Wagon R+ |
| | Splash |
| Peugot (HDi) | Bipper |
| Citroen (HDi) | Nemo |





KA-4509 Cylinder Sleeve Puller Set

- With support and slide hammer.
- For removing wet type cylinder sleeve Ø3" to 6-1/2".
- Cone adjustment positions the puller jaws quickly, locking bar is tightened.
- To aid in breaking sleeves loose, adjustable bridge is positioned on the cylinder block and the bearing mounted forcing nut is tightened.
- Next, bridge is removed and slide hammer assembly is attached.
- With a few sharp hammer blows, sleeve is pulled.



KA-4518 Cylinder Liner Puller With Support

- For removing wet cylinder liners from engines used on passenger cars and trucks (Mercedes, MAN).
- Suitable for cylinder liner Ø60~160mm.

Operation:

1. Screw the spindle of the support into the clamping nut of the puller.
2. Insert the puller into the liner.
3. Place the support on the cylinder block.
4. Tighten the nut of the support.

** Thanks to the newly developed spreading system, turning the spindle will enable all three jaws to spread quickly and without any trouble until they are firmly seated beneath the edge of the liner.*



KA-5471

Solenoid Switching Valve Socket

- Use for removing shift valve for controlling piston cooling.
- Suitable for Mercedes diesel engine OM651.
- 1/2"Dr. x 24mm.
- OEM Ref. 651589000900.



Shutoff valve for oil spray nozzle



KA-5472 Tool For Positioning Electronic Clutch (Fiat C510 Dualogic)

- To lock the selection lever inside the actuation hydraulic unit.
- The tool should be fully tightened and should not be removed to allow the hydraulic unit to be correctly fitted.
- Suitable for 1.3 MultiJet robotized gearbox (EURO 5).
- OEM Ref. 1871003400.



Undo the protection plug for the hydraulic unit selection lever locking tool.



Install the tool to lock the selection lever inside the actuation hydraulic unit.



KA-4521 FUSO Flywheel Holder (Manual)

- Use for holding flywheel to prevent from rotating.

Applicable:

FUSO EURO 5 lift cars/IVECO engine. (MANUAL)

FUSO NO.: MH063967

IVECO NO.: 99360306



KA-4522 FUSO & IVECO Crankshaft Rear Oil Seal Removal Tool

- Use for installing IVECO F1C ENGINE / FUSO LIFT CARS(EURO 5) Crankshaft
- Rear seal installation.

Applicable:

Models: DAILY

IVECO OEM no.ref.: 99346259

FUSO NO.: MH063963



KA-4524 FUSO Crankshaft Front Oil Seal Installation Tool

- Use for installing crankshaft front oil seal.

Applicable:

FUSO EURO 5 lift cars / IVECO engine.

FUSO NO.: MH063962

IVECO NO.: 99346258



KA-4525 FUSO Crankshaft Front Oil Seal Removal Tool

- Use for removing front crankshaft oil seal.

Applicable:

FUSO EURO 5 lift cars/ IVECO engine.

FUSO NO.: MH063989

IVECO NO.: 99340059



KA-4526 FUSO Diesel Injector Removal Tool

- Use for removing the injector connector from diesel engine.

Applicable:

FUSO EURO 5 lift cars/ IVECO engine.

FUSO NO.: MH064377

IVECO NO.: 99342156

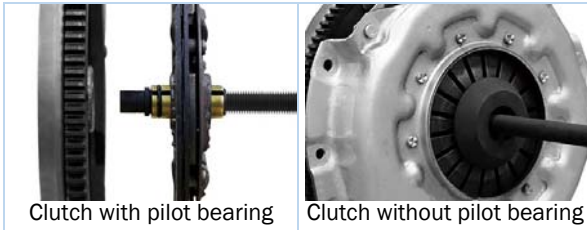


KA-4527 FUSO Fan Clutch Holder (2 point)

- Use for holding the clutch to remove the fan axial nut.

Applicable: FUSO EURO 5 engine

FM number: MH064219.



KA-8413 Universal Clutch Alignment Tool Set

- Align the clutch disc either relative to the clutch pressure plate or via the pilot bearing relative to the flywheel.
- For single / two-disc clutches. (clutch hub $\varnothing 15 \sim 26 \text{mm}$).
- For passenger cars and light commercial vehicles.
- For vehicles with / without pilot bearings.

Content:

| No. | Description |
|-----|---|
| 1 | Mandrel: $\varnothing 15 \sim 19 \text{mm}$ |
| 2 | Spindle, Length: 100mm |
| 3 | Clutch disc aligning adaptor: $\varnothing 19 \sim 30 \text{mm}$ |
| 4 | Mandrel: $\varnothing 20 \sim 26 \text{mm}$ |
| 5 | Spindle: Length: 150mm |
| 6 | Clutch disc aligning adaptor: $\varnothing 26 \sim 35 \text{mm}$ |
| 7 | Clutch plate aligning adaptor: $\varnothing 29 \sim 69 \text{mm}$ |
| 8 | Pilot bearing extension adaptor, length: 20mm |
| 9 | Spindle, Length: 55mm |
| 10 | Pilot bearing adaptor: $\varnothing 10, 12, 14, 15, 16, 17, 19, 25, 27, 30 \text{mm}$ |

KA-3761G Plastic Oil Drain Plug Tool Kit

A comprehensive 2pc kit specially designed to fit plastic oil drain screw plugs on popular commercial vehicles and passenger cars, such as DAF, MAN/NEOPLAN and Mercedes Benz.

Sliding T-handle and interchangeable design provides extra leverage and easy-change direction and quickly changed from one to the other tool.



Application:

DAF: 1853 604, 1982 821

MAN/NEOPLAN: 51.90310.6010

Mercedes-Benz OEM A 0029902017

Or some other vehicles fitted with same screw plugs.

Individual tool available upon request.

KA-2215

1/2" dr. NV4500HD Mainshaft 5TH Gear Nut Wrench For Dodge

- Made of good quality steel.
- Mainshaft 5th gear nut wrench is a requisite to remove or assemble the mainshaft nut.
- It fits for NV4500HD transference used in Cummins and V10 powered Dodge RAM models have a large diameter mainshaft nut.
- It fits for 1994-2001 Dodge NV4500HD



fifth gear nut



KA-6870 Adjustable Hook And Pin Wrench Set

- Hardened and tempered drop-forged Chrome Vanadium steel.
- Specially designed for use with slotted retaining rings.
- Hook and pin interchangeable hinged arms with three wrenches covering sizes 19-120mm (3/4"~4-3/4").
- Pin Sizes: $\varnothing 4-8 \text{mm}$.
- Supplied in tough storage case.
- Designed for use on slotted retaining rings found on motorcycle suspension and other machinery.
- Time saver.

KA-1375 Spindle Snap Ring Pliers For Ford Super Duty



- Ratcheting lock mechanism holds the snap ring open for plain extraction and installation.
- For changing the spindle snap rings found on 2007 and newer Ford Super Duty Pickups.
- Install snap ring within 2-1/2" diameter of the hub.
- Rigid plier device.
- Slender thin tips provide easy installation.



KA-3822 Heavy Duty Locking Ring Tool



- A new tool designed to dismount & mount the **Large** lock rings on the axle shaft of passenger cars, light commercial vehicles and trucks.
- The adjusting screw has a 3/8" ratchet grip providing sufficient power to easily remove stuck and rusted lock rings.
- The grip angle between the tips are always correct, regardless the size or placing position of the lock rings.
- This feature makes this set a safer, more effective and easier tool comparing using other ordinary pliers.
- This tool include 18 tips (6 lengths in 3 different angles)

Circlip Pin Size: (each 2 pcs)

Straight: 2.2mm, 2.5mm, 3.0mm, 3.5mm, 3.8mm, 4.2mm
 45° Angle: 2.2mm, 2.5mm, 3.0mm, 3.5mm, 3.8mm, 4.2mm
 90° Angle: 2.2mm, 2.5mm, 3.0mm, 3.5mm, 3.8mm, 4.2mm



KA-1384 Hood Prop Rod – Extendable

- For all kinds of cars and trucks.
- The extendable design allows the mechanic to hold/set the hood in any preferred position.
- Suitable to use from side of car for easy access to engine chamber.
- Also great for repairing on hatchbacks, doors or trunk lids.
- This hood prop can be extended from 18-1/2" to 46-1/2".
- Adjustable length, as pictures below



Extending the Prop

Retract the Prop





KA-7281K O-Ring & Rubber Removal Tools

Suitable for a number of applications including the fitting and removal of

- rings
- seals
- bushes
- springs
- cotter pins
- fuses



KA-7232KB Quick Change Snap Ring Pliers

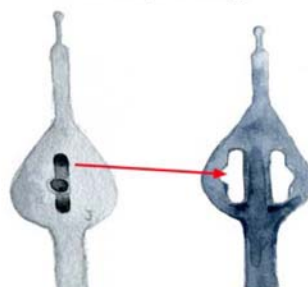
- Heat-treated CR-MO steel pliers to handle internal and external snap rings.
- Ergonomic design handle provides stable grip and better user experience.
- Special design wing knob allows pliers quickly change between internal and external use.
- Three different tip angles: Straight, 45° & 90°
- Four different tip sizes: 0.038", 0.047", 0.070" & 0.090".



Takes 3 seconds to switch from External pliers to Internal Pliers.



Insert the Wing Key into the slot to change to External or Internal Snap ring.

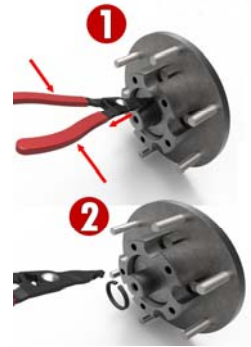


Wing Key
Back side of Part A



KA-7035N Lock-Ring Pliers

- Installing/Removing All Types Of Lock Rings.
- Excellent In Expand the Lock Rings Commonly Found on Master Cylinders, Brakes, TransmissionsEtc.
- Knurled on the Tip Of Jaws Design to Prevent Slipping.



Circlip Pliers – Internal (Available: 5", 7", 9")

- Fitting retaining ring onto shaft or into bores.
- Inserting bearing steel spikes/pin for heavy duty applications.
- Non-slip spike/pin enables the ring to stick firmly to the spikes when compressing or expanding.
- Extendable handle for better handling.
- Material: Tip – SUJ2/ Body- Carton Steel.

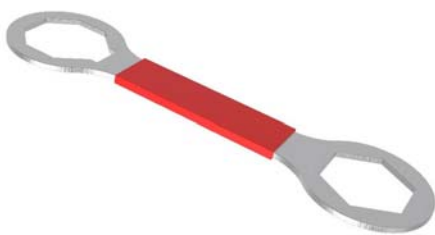
| Item no. | Length | Weight | Capacity | Bent Angle | ØMax | Handle |
|--------------|-----------|--------|----------|------------|----------------------|----------|
| KA-7000IN-5B | 5"(130mm) | 90g | 3-10mm | 90 | TIP DIA = 0.9 or 1.3 | PVC Dip. |
| KA-7000IN-7B | 7"(170mm) | 175g | 19-60mm | 90 | TIP DIA = 1.8 | PVC Dip. |
| KA-7000IN-9B | 9"(215mm) | 290g | 40-100mm | 90 | TIP DIA = 2.3 | PVC Dip. |



Circlip Pliers – External (Available: 5", 7", 9")

- Fitting retaining ring onto shaft or into bores.
- Inserting bearing steel spikes/pin for heavy duty applications.
- Non-slip spike/pin enables the ring to stick firmly to the spikes when compressing or expanding.
- Extendable handle for better handling.
- Material: Tip – SUJ2/ Body- Carton Steel.

| Item no. | Length | Weight | Capacity | Bent Angle | ØMax | Handle |
|--------------|-----------|--------|----------|------------|----------------------|----------|
| KA-7000EX-5B | 5"(130mm) | 90g | 8-13MM | 90 | TIP DIA = 0.9 or 1.3 | PVC Dip. |
| KA-7000EX-7B | 7"(170mm) | 175g | 19-60mm | 90 | TIP DIA = 1.8 | PVC Dip. |
| KA-7000EX-9B | 9"(215mm) | 290g | 40-100mm | 90 | TIP DIA = 2.3 | PVC Dip. |



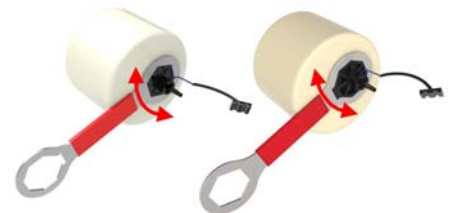
KA-3579D 2-IN-1 Water Sensor Wrench

Description:

- Great tool for replacing the fuel filter or maintaining the water sensor.
- The plastic sensor usually has hex or octagon design that is prone to damage caused if removed by regular tools or pliers, since those tools don't specifically fit the sensor.

Application:

For Removal/Installation of the aftermarket Water Sensor Located on the Fuel Filter on
(1) 2001- 2012 6.6L Duramax Diesel Engines.
(2) 2013 and newer 6.7L Cummins.



KA-3759A (Dodecagon) KA-3759B (Hexagon) KA-3759C (Octagon)

Water Sensor Wrench for Duramax

KA-3759A: 2001~2011 6.6L Duramax diesel engines

KA-3759B: 2012~ 6.6L Duramax diesel engines (OEM version)

KA-3759C: 2001~ 2011 6.6L duramax diesel engines (Aftermarket version)

- For use when replacing the fuel filter or when servicing the water sensor.
- The plastic sensor is easily damaged by tools that do not specifically fit the sensor.



4 pcs Seal Removal Tools – Spoon Type

- Ring and Seal Remover Kit.
- Rounded tip with blended radius edge allows easy removal of seals or O-rings and prevent damage to seal and surface.
- 2 tip configurations and 2 blade lengths for most seal removal situations.
- Offset and Spoon type Tips.

Suitable for:

- (1) Transmissions
- (2) Fork seals and caliper dust boots on motorcycles
- (3) Steering racks and pumps
- (4) Injectors and fuel rail o-ring
- (5) Heater and vacuum hoses
- (6) Oil pump drive shaft seals
- (7) Inner tie rod rack boots and CV boots



KA-7281 Black Shank



KA-7281S Black Shank



KA-7281S1 Silver Shank

8 pcs Hook and Pick Seal Removal Tools

- Ring and Seal Remover Kit
- Rounded tip with blended radius edge allows easy removal of seals or O-rings and prevent damage to seal and surface.
- Contents: 1 x curved pick, 1 x 90 degree pick, 1 x Offset pick and 1 x straight pick, 4 spoon type removers that prevent damage to O-rings and seals
- Chrome Vanadium blades
- Soft grip handles
- Packed in a handy wallet
- Hook length: 6"
- Spoon type length: 5-1/2" and 8-1/2"



KA-7281KB



KA-7281KB1



KA-6419L 4 pcs Hook & Pick Set – Extra Long

- Length: $\Phi 6 \times 360\text{mm}$ L
- Straight, Offset, Hook and 90° Pick
- Perfect for Pulling and Removing Wire, Gaskets, Washers, O-ring and other small parts.
- Hooks and Pick features a High-Strength, Heat-Treated CRV Steel with Knurled Grip for Precise control.
- Non-Slip Comfortable Rubber handle.
- Swivel end cap allows constant finger pressure while turning or positioning.



KA-7851 Extra Long Twin Joint Long Nose Pliers

Approx. Length: 340mm

- Full polished carbon steel (S45C).
- PVC dipped handles.
- Compound joint allows for minimal handle opening in tighter spots.
- 340mm overall length is ideal for use in hard to reach area.



KA-7851G Extra Long Twin Joint Angled Nose Pliers

Approx. Length: 335mm

- Full polished carbon steel (S45C)
- PVC dipped handles
- Compound joint allows for minimal handle opening in tighter spots
- 340mm overall length is ideal for use in hard to reach area



KA-7851F Extra Long Twin Joint Long Nose Pliers

Approx. Length: 310mm

- Full polished carbon steel (S45C).
- PVC dipped handles.
- Compound joint allows for minimal handle opening in tighter spots.
- 340mm overall length is ideal for use in hard to reach area.



Extra Long Twin Joint Spark Plug Connector Pliers

Approx. Length: 340mm

- Full polished carbon steel (S45C)
- PVC dipped handles
- Compound joint allows for minimal handle opening in tighter spots
- 340mm overall length is ideal for use in hard to reach area

KA-7851P 12.7mm Diameter

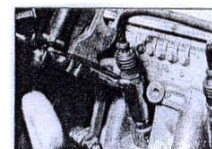
KA-7851PL 19mm Diameter

KA-7851PS 7.9mm Diameter



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-3522E Ignition Coil Puller (VAG group)

Used for removing "pencil-type" ignition coil on 4-cyl. Direct injection engine (generation III).
OEM Ref. T10530.



| | |
|-------------------|--|
| Volkswagen | Golf (2013 >) , Jetta (2011 >) |
| Audi | A3 (2013 >) |
| Skoda | Octavia (2013 >) |
| Seat | Ibiza (2008 >) , Mii (2011 >) , Leon (2013 >) |
| Porsche | Macan (2014 >) |



KA-3522F Ignition Coil Puller (VAG group)

Used for removing "pencil-type" ignition coil on 4-cyl. Direct injection engine (generation III).
OEM Ref. T10530.



| | |
|-------------------|--|
| Volkswagen | Golf (2013 >) , Jetta (2011 >) |
| Audi | A3 (2013 >) |
| Skoda | Octavia (2013 >) |
| Seat | Ibiza (2008 >) , Mii (2011 >) , Leon (2013 >) |
| Porsche | Macan (2014 >) |



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-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-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-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-3014 Spark Taper - 10 & 12mm

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-3016 Spark Taper - 14 & 18mm

Use with any standard 13/16" deep socket.



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-3998A-260

KA-3998B-260



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 – Chrome plated

KA-6266 3/8" x 14mm x 12PT x 250mmL **with Magnet**

KA-6266A 3/8" x 16mm x 12PT x 250mmL **with Magnet**

KA-2819 3/8" x 14mm x 12PT x 250mmL **with Rubber**

KA-2819A 3/8" x 16mm x 12PT x 250mmL **with Rubber**



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-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-4428 Spark Plug Tool / Gauge Kit

Contents:

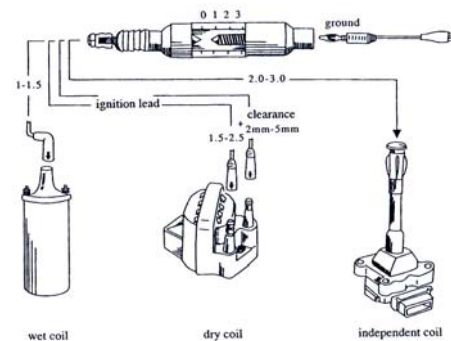
- Heavy duty spark plug boot pliers
- Rubber spark plug remover and installer
- Spark plug gap gauge
- 3/8" dr. 5/8" spark plug socket
- 3/8" dr. 13/16" spark plug socket

KA-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 from many angles.

Easily insert and remove 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-4136 3/8" Dr. Spark Plug Thread Chaser (M14 x 1.25)

- Made of high strength chrome vanadium steel.
- Works on 3/8" Dr. M14 x 1.25mm spark plug threads.
- Manganese phosphate coating prevents rust.
- Low profile design and narrow profile, and long length make it ideal for hard to reach areas.



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. Alloy 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-5263 3/8" Dr. Multi-Length Spark Plug Socket Set

- Three different sizes and three different configurations most commonly used when working with spark plugs 9/16", 5/8" and 13/16" sizes in standard, universal and extra deep styles.
- High chromed finish for easy clean up and lasting corrosion protection.
- Each socket is knurled for easy turning by hand adding more ease to the technician's work.
- Comes in a convenient storage solution.



KA-2181-14 3/8" Thin Wall Magnetic Spark Plug Socket

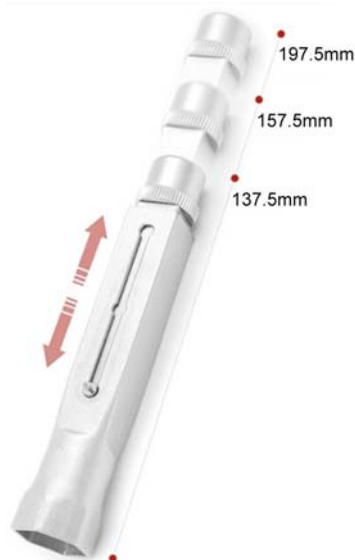
- Size: 14mm x 65mmL x 12PT
- With built-in strong magnetic insert, never drops spark plugs when working.



KA-3742 Spark Plug Connector Pliers

- For Pulling off and putting on spark plug connectors in hard to reach area.
- Suitable for Audi, BMW, Mercedes, Opel / Vauxhall, VW etc.





KA-5320 Adjustable Spark Plug Extension Wrench

- For Spark Plugs with 13/16" (20.8mm) wrench size.
- With rubber insert.
- 3/8" (10mm) square drive.
- Adjustable in length from 137.5mm ~ 157.5mm ~ 197.5mm.



KA-3522G Ignition Coil Puller (VAG Group)

- Used for removing "pencil-type" ignition coil on 1.0L / 1.0L TSI - 1.2L TSI - 1.4L TSI / TFSI - 2.0L GTI engines.
- Suitable for engine codes (petrol):
CJZB, CJZA, CBZB, CJZD, CYVB, CTHD, CTHA, CZCA, CZDB, CZDA, CMBA, CPVB, CPVA, CPCB, CHPA, CPTA, CAXA, CAVA, CAPB, CABD, CXSA, CDGA, CXEA, CXSB, CKMA, CAVE, CHHB, CHHA, CCZB, CPGA, CHZB, CHYB, CHYA

| | |
|-------|---|
| VW | Up 2011~, Polo 2012~, Golf 2013~, Beetle 2014~, Caddy 2015~, Passat 2014~, Tiguan 2015~, Touran 2015~, Sharan 2015~ |
| AUDI | A1 2012~, A3 2013~ |
| SKODA | Citigo 2011~ Fabia 2014~, Octavia 2013~ |
| SEAT | Mii 2011~, Ibiza 2013~, Leon 2013~ |

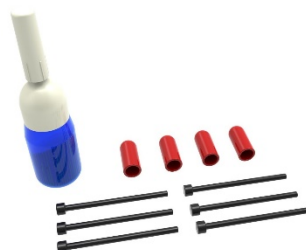


KA-5477 Broken Spark Plug Porcelain & Ford Triton Electrode Removal Set

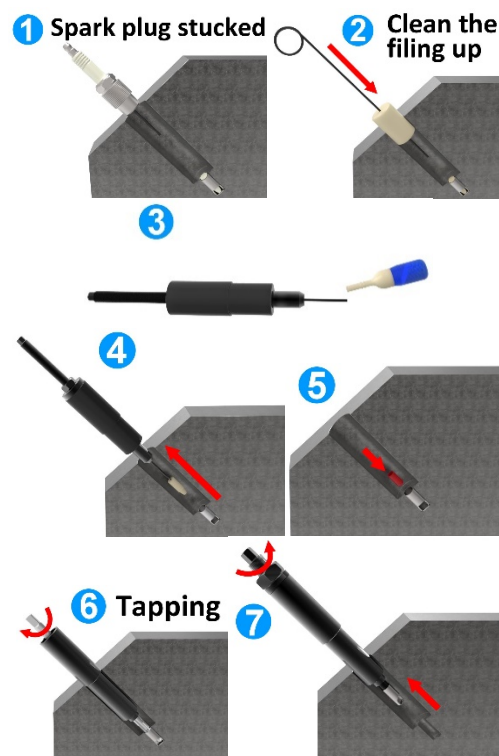
- Broken spark plug removal tool - works on all 3 valve triton motors (2004 and Newer)
- From Ford Triton 3 Valve motors (2004 - newer) - whether just the chinaware or the chinaware and the sleeve are left in the motor.
- Includes sleeve extractor Both and Porcelain extractor.
- Does not include pins, red plastic sleeve, and adhesive.

KA-5477P Broken Porcelain Extractor & Electrode Shield Removal Kit

- Use with the KA-5477.
- Includes: 4 x Red plastic sleeve, 6 x pins and adhesive.
- Adheres pin to the chinaware for easy extraction without cylinder damage. Includes red plastic sleeve to remove stuck electrode shield.



Operation:





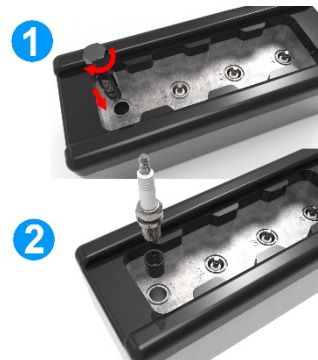
KA-7012A Rubber Spark Plug Remover And Installer

- **Flexible** Shaft allows access to confined aread and from many angles.
- Easy to insert and remove the "hard-to-reach" spark plug.
- Soft-Stepped Tip firmly grips the termial and porcelain.
- Prevent possible cross-threading on any deep seated engine applications.
- Prevent hot engine heat and burns.
- Length: 330mm
- Fit on Most Spark Plugs !



KA-5240N Spark Plug Thread Repair Kit

- 3 insert lengths (0.625", 0.4375", 0.3125") are available to accommodate most spark plug reaches.
- Positive mechanical locking feature means the insert will never come out.
- The piloted reamer tap means no drilling is necessary and perfect alignment of the tapped hole.



KA-1075 Glow Plug Tester

- 6 LED to indicate the operating state of glow plug.
- Test without removing glow plug from engine.
- Power source: 12V vehicle battery.
- Indicate the condition of Short Circuit, Fault, OK, High Resistance, Open Circuit and Low Battery.



KA-5478 Adjustable Spark Plug Wire Puller

- Plier Jaws Adjustable to Five Different Angles/positions.
- Special Cushioned and Shaped Jaws gripping the Spark Plug Boots straight on or from other sides or any sides perfectly
- Plastic Handle Grip to avoid shock.
- Make SPARK PLUG BOOTS repair Easier!!





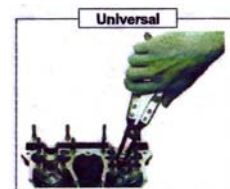
KA-5033 Valve Stem Seal Pliers

- 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.

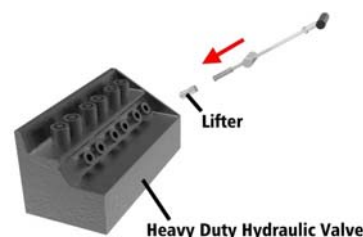
Consists of:

- 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

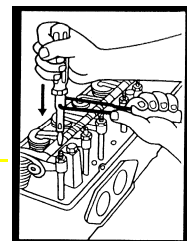
- This two in one tool features a window in its socket so the technician can see jaw nut is tightened.
- This visual contact in addition to the feel of holding the screwdriver allows for quicker valve adjustment times as the technician can hold the adjustment screw exactly where he wants it.

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

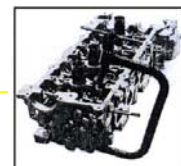
For use on all 10-12-13mm 1/2" & 9/16" jam nut adjustment screws

- 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

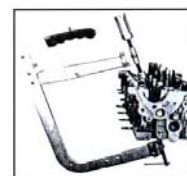
| | JAW OPENING(A) | | THROAT(B) |
|----------|----------------|-------|-----------|
| | MIN | MAX | |
| KA-5124 | 35mm | 142mm | 250mm |
| KA-5124A | 45mm | 142mm | 250mm |



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.



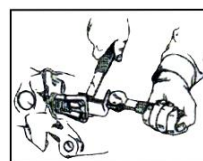
KA-5001 Valve Spring Compressor

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

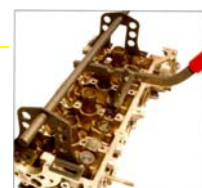
- For use on most foreign & domestic engines , including Audi, Chrysler, Infiniti, Honda, Hyundai, Lexus, Mazda, Mitsubishi, Nissan, Porsche, Saturn, Toyota, Volvo & Volkswagen.
- The tool has been developed to remove and install the valve spring with the cylinder head still on the engine and in the 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

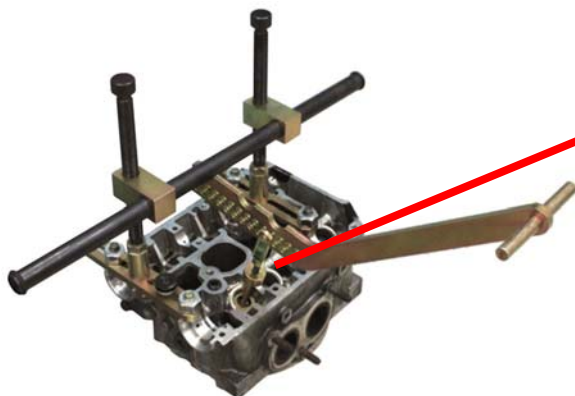
Contains:

- 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.



| Press Piece | |
|-------------|--|
| 21mm | Peugeot; Citroen HDI |
| 24mm | VW/Audi; Seat; Smart & Opel |
| 25mm | Hyundai |
| 28mm | Toyota & Ford 16V |
| 32mm | Opel & Peugeot |
| 34mm | BMW; VW & Peugeot (diesel) |
| 35mm | Renault; Mazda; Peugeot 106 & Mercedes M102 / M104 |
| 42mm | Ford |



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-3891



KA-3891A

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 KA-3891 above. Except its wedge tool is designed for Nissan GM engines found on Sentra.



KA-3892K

*245mmL valve stem seal plier



KA-3892K1

*275mmL valve stem seal plier

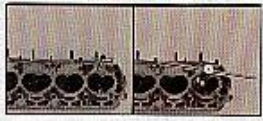
Valve Seal Removal & Installer Kit

- 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 60° 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-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.



KA-7039 90° Angle Driver Bit Set

- For adjustable valve



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 |
|------------------|------------------------------|---------|----------|----------|------------------------|-----------|
| BPM | SCFM | | m/m in | kgs lbs | psi kg/cm ² | |
| 5,600 | 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-2094 Valve Stems Removal Tool

- Special tip and U type hook to hold valve stems stable when you removal it.
- Coating stand for protect aluminum wheel to prevention of scratches.
- Overall length: 225mm



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, $\psi 22 \times 75$ & $\psi 22 \times 125$, 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-2057A

One Man Operation Valve Spring Compressor Kit

- Application: 12V,16V,20V & 24V ENGINE
- A Longer and Larger Window Gap on the Valve Pusher Providing More Space when replacing the valve collets.
- Size of the valve Pusher: $\phi 22\text{mm}$
- No need to remove the cylinder when using this tool.
- Labor Saving



KA-5259 Universal Valve Spring Remover and Installer Tool Set

- Suitable for assembly and disassembly of valve spring and replacement of valve stem on cars, without removing the cylinder head.
- Valves are closed by pressurized air and can not fall down into the combustion chamber.
- Works great in narrow space conditions.
- Can be applied on European, American and Japanese cars, such as BMW, Volvo, Toyota, VAG, Ford, etc.

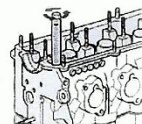
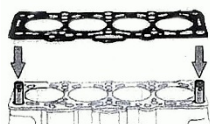
Especially Suitable for:

| Mercedes Benz Engines: | BMW Engine: |
|--|--|
| M102, M103, M104, M111, M112, M113, M271, M272 | N42, N52, N62, M54, M52, M56, E38, M60, V8 |



KA-5465 8pcs Head Gasket Alignment Tool (VAG)

- For VAG engines to align the gasket.
- These pin allow the mechanic to place the gasket on the block accurately.
- Application: Beetle 2.0L (1999-2004)
- OEM No. 3450 (3450-1, 3450-2, 3450-2A, 3450-3)
- Contents:
 - 1pc M6 x 1.0mm pin extraction tool
 - 1pc M6 x 1.0mm pin extraction tool (no handle)
 - 2pcs M10 x 1.5mm long pin
 - 2pcs M9 x 1.25mm long pin
 - 2pcs M10 x 1.5mm short pin



KA-4104

Valve Spring Compressor 4.0, 4.6 with Valve Spring Compressor Spacer

Ford valve spring compressor for 4.0 SOHC and some 4.6 V8's -Ford p/n T95T-6565-A OTC and Rotunda 303-581.
Primarily used on Ford 4.0L SOHC V6's.



**KA-4104H Valve Spring Compressor**

- Remove and install valve springs with the heads on or off the engine.
 - Fits 3/8" and 7/16" rocker studs.
 - Handles 1" - 2" diameter springs.
 - Press down to compress coil spring, then remove valve keepers and release slowly.
-
-
-
-
-

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

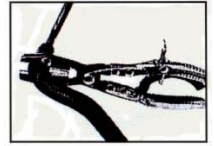
- Release the hydraulic cooling lines that connect to the transmission.
- Applications: BMW E46, E53, E65, E66, E85, R50, R53.





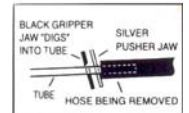
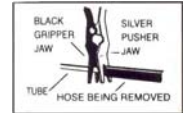
KA-5015K Hose Pinch-Off Pliers —8", 10", 12"

- 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-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-5332 Radiator Cap Wrench

- 3/8" driver.
- Used to remove stubborn radiator coolant reservoir cap.
- 2006 to present BMW vehicle.
- Will not mar the reservoir cap like pliers can.



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 jaw design 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" Exclis 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



Open

close



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 Pliers

- Long handles easy to reaches narrow area

KA-4283 Length: 11" (284mm) - **Straight**

KA-4283A Length: 11" (2650mm) - **90° Bent**



Screw-Type Hose Clamps

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

KA-7769A Ø 27mm, Length: 65mm

KA-7769B Ø 45mm, Length: 85mm



KA-3047 Swivel Jaw Hose Clamp Plier

"+" Slot With Ratchet

- For combine 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 2pcs 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


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

- (1) **KA-7520 FLEXIBLE CABLE HOSE CLAMP REMOVING PLIER**
- (2) **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.
- (3) **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.
- (4) **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.
- (5) **KA-6708 SWIVEL JAW HOSE CLAMP PLIERS**
 - Allows fast and easy clamp removal.
 - Pliers latch in position to securely hold hose clamp when expanded

7pcs Hose Clamp Pliers Kit

KA-5072

KA-5072KA

| | KA-5072 | KA-5072KA |
|---|---------|-----------|
| A. KA-5072-A HOSE CLAMP PLIERS Allows for extra reach, removal and locking of clamps into open position. <ul style="list-style-type: none"> ■ 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. | • | • |
| B. KA-5072-B SWIVEL JAW HOSE CLAMP PLIERS ("+" SLOT) | • | • |
| C. KA-5072-C SWIVEL JAW HOSE CLAMP PLIERS <ul style="list-style-type: none"> ■ 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. | • | • |
| D. KA-5072-D ANGLED FLAT BAND HOSE CLAMP PLIERS <ul style="list-style-type: none"> ■ 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. | • | • |
| E. KA-5072-E FLAT BAND HOSE CLAMP PLIERS <ul style="list-style-type: none"> ■ Removes and installs new style flat band hose clamps. ■ Jaws rotate 360°to grip at any angle. ■ Rubber dipped handle. | • | • |
| F. KA-5072-F CLIC-R COLLAR PLIERS <ul style="list-style-type: none"> ■ For releasing and re-fitting reusable hose clips. ■ For type clic and clic-r. | • | • |
| G. KA-5072-G HOSE REMOVER PLIERS <ul style="list-style-type: none"> ■ Designed to allow easy removal of 5/32" to 1/2" vacuum and fuel hoses. ■ Rubber dipped handle. | • | • |
| H. SCREW DRIVER | | • |
| I. HOSE REMOVER | | • |



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

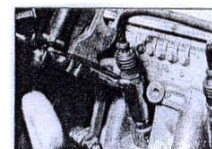
Ø8mm
RENAULT
GASOLINE ENGINES
FORD-MERCURY
DODGE-CHRYSLER

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.

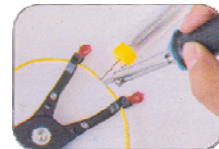
KA-81A Straight nose, Orange handles, Nose angle bent at 120°

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



KA-5284 Relay Pliers

- Pliers for removing electrical relays on most domestic and import vehicles.
- Offset handle and thin tips allow access to relays in confined areas.
- Specially designed tips are angled to fit slots or edge of relay cover.





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



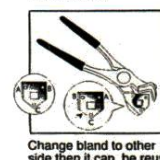
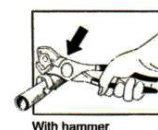
Tubing Cutter

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

- Body material: Die-Cast Zinc Alloy
- Blade material: 420J2

KT-25 For 6mm-25mm O.D. (3/4" I.D.)

KT-38H For 6-35mm O.D. (1" I.D.)
Handle with black PVC Dipping



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.



Angled Pinch-Off Pliers (Ranging from 5", 9", 13")

- Special Angled design make the tool unique and easy to use.
- For Radiator and Heater Hoses.
- Locking Mechanism allow the tool to squeeze tight on Radiator and Heater hoses.
- Cushioned Handles provide comfort and easy control.
- Body: S50C Steel

KA-5015A5 5" (Mini Type)

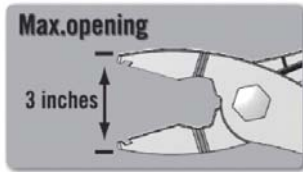
KA-5015A9 9"

KA-5015A13 13"



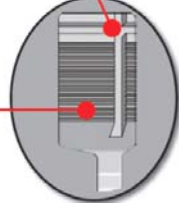
KA-6980 Multi-Direction hose Clamp Plier

- Special design provides two-sided application, making working in limited space easier.
- Plier total length: 205mm
- Hardness: 42- 45 degrees.



Intersected slots
(two-sided application)

Stripe surface
(can hold objects firmly)



• VAG, SEAT fuel line and
tank ventilation line clamps



• Radiator hose clamps



Application:



Flexible Line Clamp Set

- Unique designed jaws prevent internal hose linings from destruction
- Lightweight easy for handle and non-conductive safety.

KA-6336K 3pcs 10", 7-1/2", 6-1/2"
KA-9023 2pcs 6-1/2" + 7 1/2"

KA-6336KB

3pcs Flexible Line Clamp Set – Angled Type

- Smooth, round jaw, edged prevent damage to internal hose reinforcement.
- Quick, simple and one handed use.



KA-2179

Line Clamp Triple Pack

- Size range: 18 ~ 31mm
- Material: Aluminum
- Dimension: 185 x 85 x 35mm
- Weight: 170g
- Quantity: 1pcs



Hose Clamp Plier with Spring Mechanism

Item No.: KA-6336KB / KA-6336KC

- Make Draining fluids from your vehicle easily and saving-times.
- Lever-Action gives "Quick Release".
- Rounded Jaws prevent damages or cut the tubes.
- Angle jaw enables the pliers to reach confined places easily and precisely.
- Angle Line Clamp Pliers are designed to close-off rubber hoses to stop the flow of fluids.
- Made of heat resistant reinforced nylon and fiber for use on Cooling, Brake, Vacuum and Fuel systems.

- **KA-6336KC** is applicable to hoses 26mm in diameter.
- **KA-6336KD** is applicable to hoses 35-40mm in diameter (depending on the thickness of tubes)

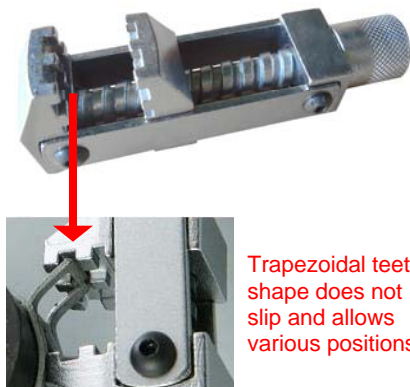
Spring -Lever ! Quick-Release!



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



Trapezoidal teeth shape does not slip and allows various positions

KA-1267A Hose Clip Tool

- Designed to fixing the hose without removing sensors, duct, hose...etc. that near the hose clamps.
- Suits difficult in work with pliers type tool of vehicle type

Features

- The screw type to hold the hose clamps removal and assembly.
- For areas with restricted access
- The end shape is trapezoidal teeth that does not slip and allows various positions. (vertical, horizontal, diagonal...)

Specification:

- Jaw capacity: 0-40mm diameter.
- Can be use with 3/8" Dr. ratchet



KA-1267B Universal Hose Clamp Plier

- Designed with 3 clamps for any type hose clamp.
- Used with 1/4" Dr. bar or 14mm wrench.
- Max capacity: 63mm
- Length: 106mm



Hose Clamp plier

Hose clamp pliers make installing and removing flat-typed hose clamps in hidden and hard to reach areas easier.

- Services most ring-type or flat-band hose clamps
- The clamps are held open with a ratchet locking mechanism
- Special Jaws design to access hose clamps in any position
- Material: Jaw → CR-MO, Handle → Carbon Steel
- Nickel plated finish or Electro deposited coating



The waffle design jaw securely grabs and locks on the wire hose clamp in place.

Flexibility of the pliers enables the user to easily reach, remove and lock clamps into the open position.

Multi-stop ratchet provides amazing control plus no risk of hose clamp ejection and operator injury.

| Item No. | Length | Jaw Adjustment | Weight | Type |
|----------|--------|----------------|--------|--------|
| KA-2170 | 240 mm | 0 ~ 38 mm | 315g | Normal |
| KA-2170A | 240 mm | 22 ~ 55 mm | 330g | Width |



Universal Hose Clamp Plier

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



KA-5122

Clamp max. open: 52mm



KA-5122L

Clamp max. open: 53mm



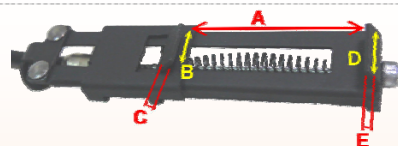
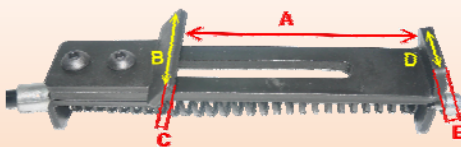
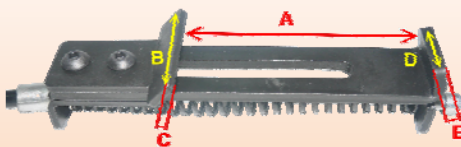
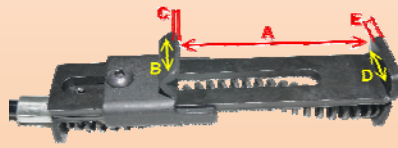
KA-5093A

Clamp max. open: 59mm



KA-5093B for BENZ

Clamp max. open: 69mm

| Item No. | A | B | C | D | E | |
|-----------------|------|--------|-----|--------|-----|---|
| KA-5122 | 53mm | 12mm | 1mm | 13mm | 1mm |  |
| KA-5122L | 54mm | 29mm | 2mm | 17.8mm | 3mm |  |
| KA-5093A | 59mm | 29mm | 2mm | 17.8mm | 3mm |  |
| KA-5093B | 69mm | 16.8mm | 2mm | 17.8mm | 3mm |  |



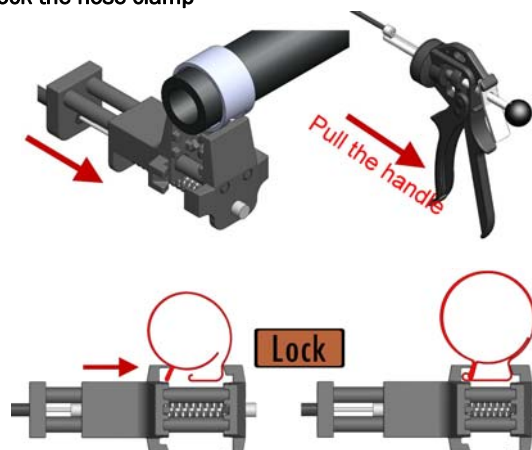
KA-5093C 3 Way Hose Clamp Plier

- Great Design for removing the hose clips & holding the hose clips in an open position.
- Great for removing the plastic and metal self-clamping clips between 18 mm and 65mm.
- Clamping at the end of a bent line precisely and enabling access to clips in hard-to-reach areas.
- Pinchers possess a lock which facilitates work.
- Applicable of hose clamp

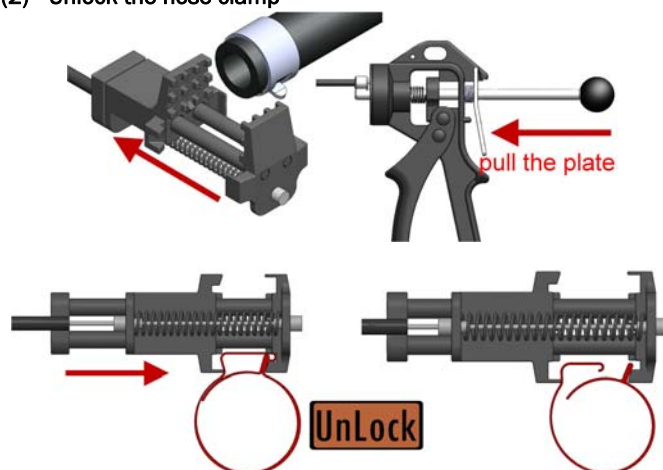


Instruction:

(1) Lock the hose clamp



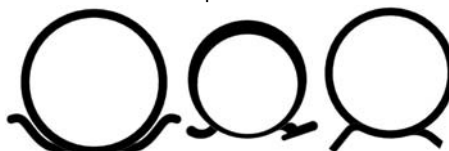
(2) Unlock the hose clamp



KA-1267C 3 Way Hose Clamp Plier

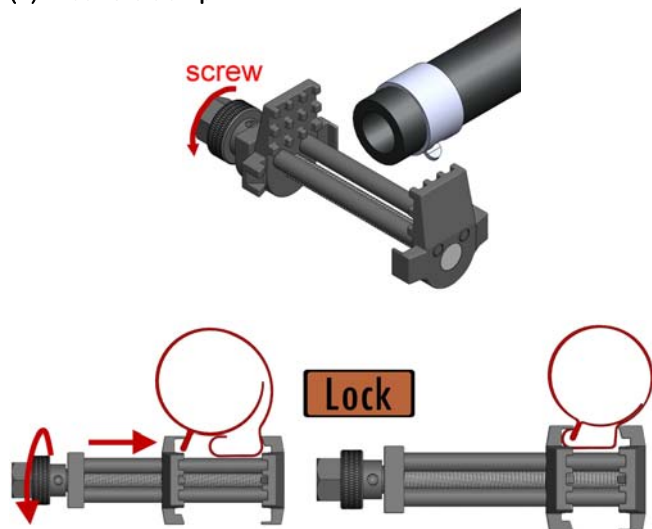


- Allow for removal of hose clips, and for them to be held in an open position.
- Allow for removal of plastic and metal self-clamping clips between 18 mm and 54mm.
- Precision clamping at the end of a bent line allows access to clips in hard-to-reach areas.
- Pinchers possess a lock which facilitates work.
- Applicable of hose clamp

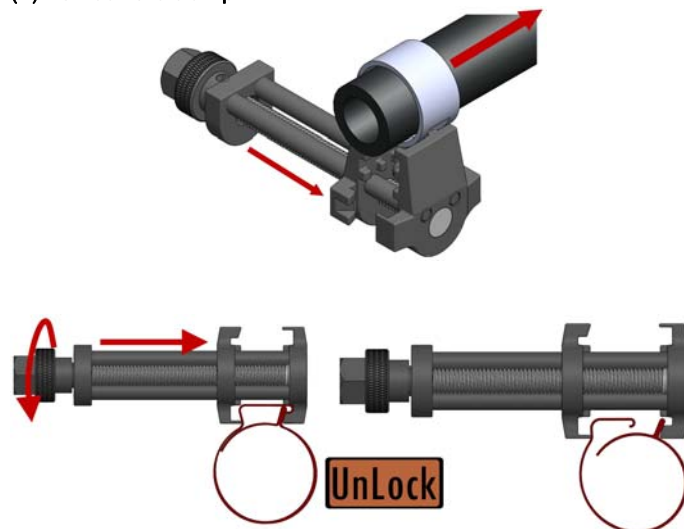


Instruction:

(1) Lock the clamp



(2) Unlock the clamp





KA-5304 Hose Clamp Tool For Toyota & Lexus

For Toyota & Lexus hose clamp installer & remover two screws design, one for release the clamp, the other one for fixing the clamp on max. dimension.



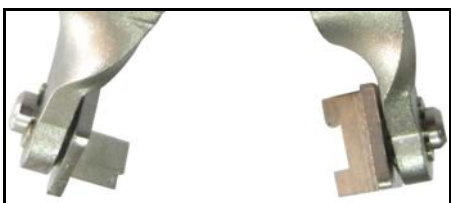
KA-5301 Turbo Boost Hose Clip Pliers for Volkswagen, Audi, Skoda

- For use on turbo boost hose clips fitted to: Volkswagen Passat 2.0 TDI(05) / Touran / Golf V / Audi A3 / Skoda Octavia.
- Essential tool for these specialized clips.
- Locking function.



KA-5302 Fuel Line Pliers (Swivel Jaws)

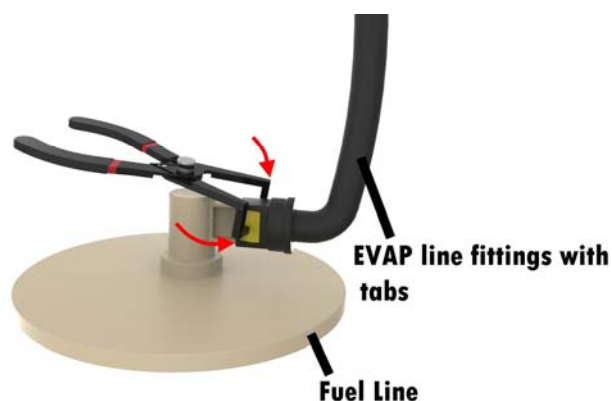
- Movable jaws type.
- For use on three ended hose clips which are fitted to Audi, Seat, Skoda, Volkswagen fuel lines clamps.
- Clamping range 28 ~ 18mm.



KA-5302A

KA-3525A Disconnect Pliers for Fuel & EVAP Line Fitting

- Low profile bended angle tips allow the tool to fit the top of the fuel tank and vehicles well.
- Great for disconnecting the fuel line.
- Designed to disengage the EVAP line fittings with the tabs that must be depressed when removing.



KA-3828 Spring Band Clamp Locking Tool Set - 3 PCS/SET

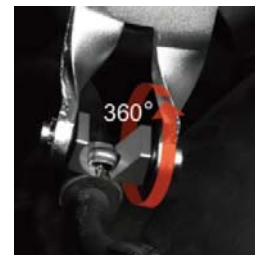
- The low profile metal clip allows technicians plenty of room to work while tool is being used.
- Three Size to fit hose clamps used on most engines.





KA-5312 Hose Clamp Pliers (Swivel Jaws)

- Open and close easily by turning the pliers by 180°
- For clamping multi-use CLIC-type hose clamps.
- Swivel jaws - for use in areas with restricted access.
- Suitable for: Audi, Citroen, Fiat, Mercedes, Opel / Vauxhall, Peugeot, Renault, SMART, VW. etc.



KA-7766A Spring Clip Pliers - Standard-reach model

- For hose clamps on cooling, heating, fuel or screen-washer systems.
- **Standard-reach model** with lock and pivoting jaws.
- Length: 215mm
- Capacity: 15 – 56mm



KA-7766B Spring Clip Plier - Long-reach model

- For hose clamps on cooling, heating, fuel or screen-washer systems.
- **Long-reach model** with lock and pivoting jaws.
- Length: 275mm
- Capacity: 15 – 56mm



KA-7766C Spring Clip Plier - Slip-joint model.

- For hose clamps on cooling, heating, fuel or screen-washer systems.
- **Slip-joint model.**
- Length: 275mm
- Capacity: 12 – 60mm



KA-3743 Safety Clip Pliers

- Used to release the fuel line unions on VW-Audi vehicles such as Audi A3, VW Golf IV fitted with petrol engines.
- For installing retaining clips to secure the chrome strip on the bumper of the Mercedes W124, W140 and W202.



KA-3744 Safety Clip Pliers

- For removing fuel return lines from injector nozzles on diesel engines.
- Ideal for use on Mercedes OM601, OM602, OM603 and VW Audi vehicles, where the injection nozzles are located very deep in the cylinder head.



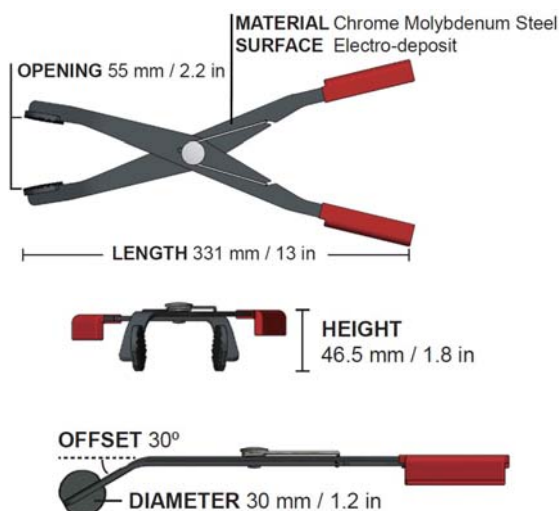


KA-5370 Fuel Pipe Pliers For Quick Coupling

- Pliers for unlocking quick-release connections on fuel lines where the unlocking segments can be reached from the side.
- Advantages:
No damage to quick release connections or clamps.
No damage to fuel lines or hoses.
Easy and quick separation of fuel lines.
Suitable for Opel/Vauxhall, GM, Fiat, etc.



Specifications:



KA-7835 Hose Clamp Pliers

Special pyramid-shaped tooth design efficiently grips hose clamps without slipping. This special shape also enhances the strength in gripping, helping remove melted rubber hoses near the engine.



Large jaws are designed to be in round form. This can help work from different angles, suitable for working in confined spaces.



This jaws are designed to be slightly tapered when closed. This special design can guarantee the jaws are on straight lines when opened at the width (about 20mm) that is suitable to work on most hose clamps.



Long and slim pliers (331mm/13") can reach deep spaces in engine compartment easily.



Instructions:

This special pliers can reach confined spaces easily (Fig 1), and can work from various directions with no limitations (Fig 2, 3 and 4).



KA-7830A Hose Removal Pliers

- Easily disconnects hoses by gripping firmly the tubes/lines.
- Jaw for 3/16", 1/4" and 1/8" tubes and lines.
- Especially suitable for hoses connected to tubes or lines with smooth surface, where exercising pushing force is not possible.
- Pointed jaw tip allows access to confined spaces.
- Special locking design enhances secure gripping.

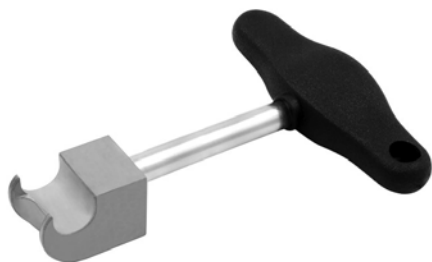
Instructions:

1. Remove hose clamp on the hose to be disconnected. Insert the jaw tip into the place where hose and tube or line is connected.
2. Choose a suitable sized groove on jaw tip and grip the tube or line.
3. Move the jaw lock downward and fasten the nut on the lock to fix the jaws securely (Fig.1).
4. Disconnect the hose by pushing the two parts of the pliers towards each other (Fig. 2).



KA-5427 Hose Clamp Removal Tool

- Universally designed for the loosening / opening of HENN clamps as found on coolant hoses / charge air hoses in passenger cars.
- Suitable for VW-Audi, Seat, Skoda, BMW, Peugeot, Citroen, Dacia, Fiat, Ford, Kia, Lexus, Mazda, Mercedes, Nissan, Opel / Vauxhall, Porsche, Renault, Toyota, Volvo etc.



KA-3783 Clamp Pliers

- Suitable for progressively adjustable metal clamps (without lug holding down device) installed (fitted) on axle boots (rubber boots).
- Special claws for easy application
- For VW, Audi, Seat, Skoda, Opel, Ford...etc



KA-3791 Micro Hose Clamp Tensioner

- Can operate in small engine room and just one clip than keep tension let you take off the hose easily.
- Operation range: 5~55mm.

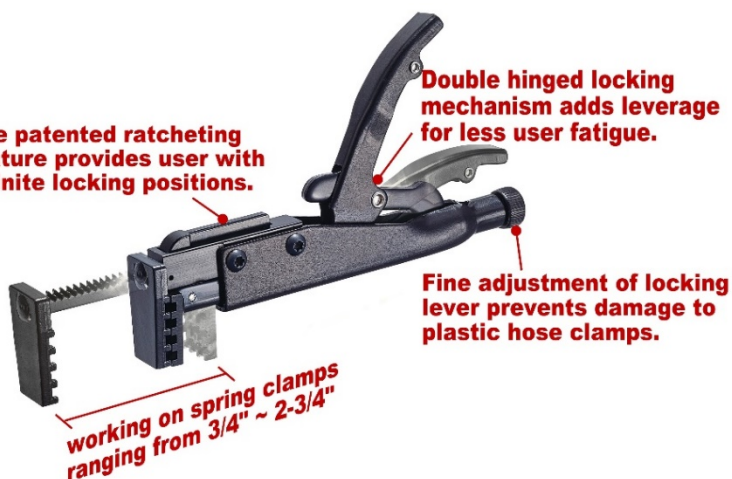


KA-1267D 90° Axle Hose Clamp Pliers

- Material: steel & alloy
- For spring clamp range: 3/4" ~ 2-3/4"
- Length: 185mm
- Weight: 470g
- Patented



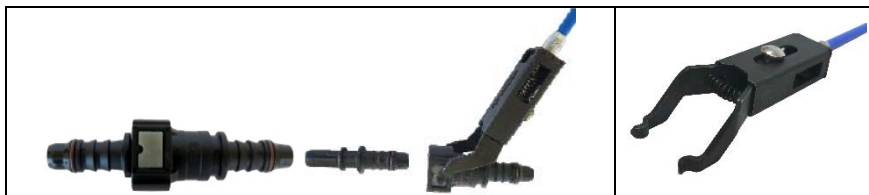
The patented ratcheting feature provides user with infinite locking positions.





KA-4025A Fuel Line Plier With Flexible Cable

- This pliers allows a quick disassemble of 2 button connectors, mainly used for fuel systems, gearbox, brake fluid, urea fluid water, power steering, air system and AC systems.
- Cable Length: 650mm
- Jaw open range: 3 to 32mm
- Changeable cable structure



KA-4122A Changeable Hose Clamp Pliers

Patent design cable changeable structure for easily & quickly changing cable for different hose clamp.

1pc 670mm length cable for standard hose clamp, opening range from 3mm to 52mm.



KA-4122K Changeable Hose Clamp Pliers

- Patent design cable changeable structure for easily & quickly changing cable for different hose clamp.
- 1pc 670mm length cable for standard hose clamp, opening range from 3mm to 52mm.
- 1pc 635mm length cable for clip - R type hose clamp, opening range from 0mm to 24mm.
- 1pc 670mm length patent design dual side clamp for spring type & truck hose clamp, opening range from 0mm to 75mm.



Clip-R Type

Pre-Opened Type

Standard Type

Space-Saver Type



KA-5481 Gerridae Quick Connector Disconnect Tool

- Gerridae-shaped Tool specially design for removing Quick Connector/ Coupler Hose Connector that must be depressed to disengage, found in Fuel Line, EVAP Line and DEF Fittings with Tabs.
- One-Hand Operation.
- Dual Jaws

Long /Large Swivel Jaw :
For hard to reach long & narrow space









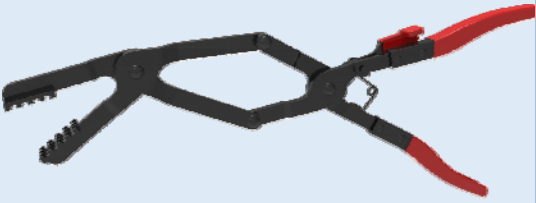

Small Swivel Jaw :
for narrow space



Universal Hose Clamp Plier

- Special jaws designed for most kinds of hose clamp.
- Finger tip "position lock" to keep hose clamp spread open.



| | | |
|--|---|---|
| <p>KA-2357</p>  |  <p>280mm</p> | <p>Capacity: 0 ~ 65mm</p> |
| <p>KA-2357N35</p>  |  <p>265mm 35°</p> | <p>Capacity: 0 ~ 65mm 35° angle</p> |
| <p>KA-2357L - Extended</p>  |  <p>430mm</p> | <p>Capacity: 0 ~ 50mm</p> |
| <p>KA-2357LN35 - Extended</p>  |  <p>420mm 35°</p> | <p>Capacity: 0 ~ 50mm 35° angle</p> |



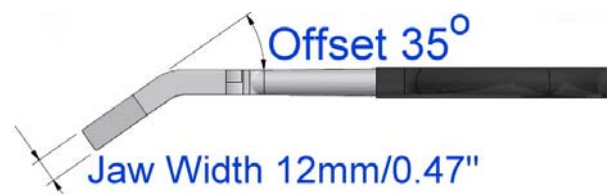
KA-2358 45° Hose Clip Pliers

- Work on spring-type hose clip from 12-47mm diameter.
- For grasping from vertical, horizontal, and other various angles.
- Locking ratchet action holds clip open for easy removal and installation.

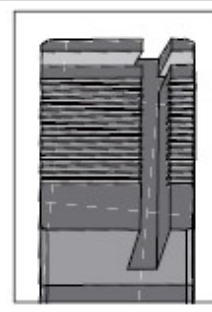
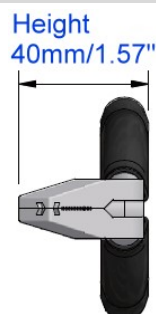
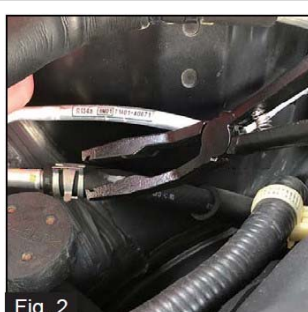


KA-6980F Multi-Direction Offset Pliers - 225mmL

35 Degree Offset design allows pliers reach awkward locations.



- 255mm Long reach pliers to access to limited spaces easily.
- Locate the hose clamp to be removed or adjusted.
- Use the crossing grooves on the pliers head to grip the hose clamp (for removal or adjustment).
- Special crossing grooves enable pliers to work from different directions.





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
Capacity: 53mm~118mm (2-1/8"~4-5/8")



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



KA-2017 **Oil Filter Wrench**
Capacity: 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

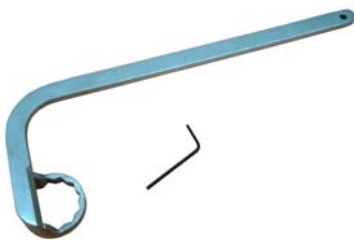
For large oil filter can,

Sizes: 80-120mm

KA-2928B

For extra large oil filter can,

Size: 110-140mm



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)



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-5359 Fuel Tank Lid Remover / Installer

For European Cars

Remove the tank while fixing or replacing the fuel tank.

The tool will help you remove the tank lid easily.

Applicable: BMW (E36/E46/E39)

BENZ (W211/W203), ML430(163163), ML320(163154),

ML350(163157), ML430(163172), ML55 AMG(163174),

ML550(163175), VW european cars.



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)



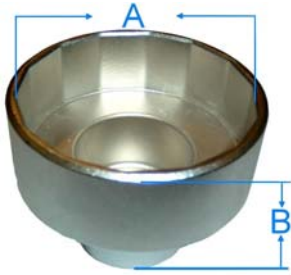
KA-4438N Oil Filter Wrench

1/2" DR. 80-120MM



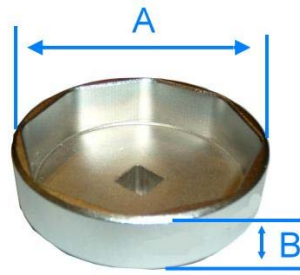
KA-4438NL Oil Filter Wrench

1/2" DR. 95-165MM



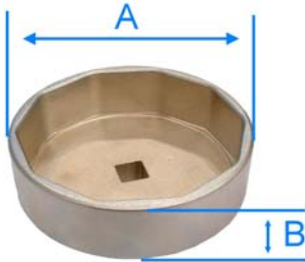
KA-7782
Oil and Diesel Oil filter
Wrench

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



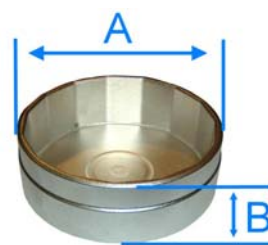
KA-7783
Oil and Diesel Oil filter
Wrench

- 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-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



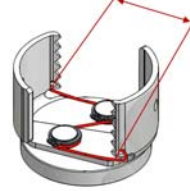
KA-6976 Oil Filter Wrench

Capacity: 63 – 83mm

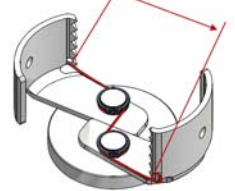


Unique "teeth" design grips the oil filter without sliding.

Min. Application
φ 63mm



Max. Application
φ 83mm



KA-5437 3 Jaw oil filter instant wrench (PATENT)

- Fit any oil filter 60~93mm. Small or Large!
- Construct with spring and magnetic, easy to attach on filter and draw back itself.
- Single way to release the oil filter
- Nickel-Plated Finish & Phosphatizing Finish
- For oil filter size diameter 60~93mm, fit most car spec. in the market.

- Specification:
 - Weight: 227g
 - Capacity: Dia. 60~93mm
 - Material: Steel



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-2082 Oil Filter Wrench- 46mm

The special socket is suitable for the operation of the filter housing cap when replacing the AD blue filter on Mercedes-Benz commercial vehicles with blue TEC engines. Suitable for these vehicles as below: ACTROS, ATEGO, AXOR, ECONIC. Do not use with air or power tools.



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

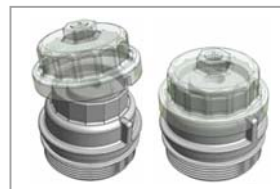
- With 1/2" square drive.
- Heavy duty bonded strap.
- Especially for trucks, agricultural & building machines.
- For oil filters or other round shaped bodies up to 180mm (7")



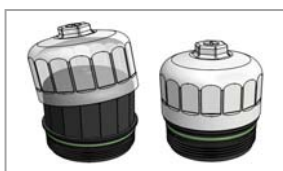

KA-3578 Hyundai Oil Filter Wrench

KA-3579 Oil Filter Wrench

KA-3579A Toyota Oil Filter Wrench

KA-3579B Oil Filter Wrench

KA-3668 Oil Filter Wrench

KA-3669 Oil Filter Wrench

KA-3669A BMW Oil Filter Wrench

KA-6977 BENZ Oil Filter Wrench


| | Size | Material | Application |
|----------|------------------------------|----------------------------|---|
| KA-3578 | 15flutes x 88.8mm x 3/8"dr. | Aluminum /chrome finished | for Hyundai / Kia |
| KA-3579 | 14flutes x 64.5mm x 3/8"dr. | Aluminum | 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) |
| KA-3579A | 14flutes x 64.5mm x 3/8"dr. | Aluminum/chrome finished | Allion, Auris, Corolla axio, Corolla fielder, Corolla rumion, Isis, Ist, Noah, Premio, Prius, Voxy, Wish |
| KA-3579B | 14 flutes x 64.5mm x 3/8"dr. | Aluminum /chrome finished | Toyota: 2007~2008 V6 engines Lexus: 2006~ most vehicles |
| KA-3668 | 14 flutes x 74.2mm x 3/8"dr. | Aluminum / chrome finished | Audi, BMW, Ford, Mazda, Toyota, Volkswagen, Porsche, Mercedes(all models with V6 and V8) |
| KA-3669 | 16flutes x 86.6mm x 3/8" | Aluminum /chrome finished | 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-3669A | 16flutes x 86.6mm x 3/8"dr. | Aluminum / Chrome finished | BMW 335i 3.0L twin turbo, 535i 3.0L twin turbo, 3 series(E90), X6 3.0L twin turbo |
| KA-6977 | 14flutes x 84.4mm x 3/8"dr. | Aluminum / Chrome finished | 2007 Dodge Sprinter, Mercedes-Benz E320, 2007 Jeep Cherokee with 3.0L V6 Diesel Engine. |

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



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-4380-4 | 14P x 68mm | Fits Hastings, Mazda, Ford, Escort, Subaru, Fran PH6607 (those frame 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-4380-33 | 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-4380-39 | 18P x 66mm | Renault | |



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 7pcs 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****16pcs 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, passa Tdi,) Audi A6 Tdi, Renault (Clio. Rapid 1.9D Lguna.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. rev) 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 9 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, Taffic 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 (76mm-14Flats) 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: 116MB 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 30pcs 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. (MKIII. Tdi, passat Tdi,) Audi A6 Tdi, Renault (Clio. Rapid 1.9D Laguna.Safrane. Espace 2.1D). Cifroen, 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)

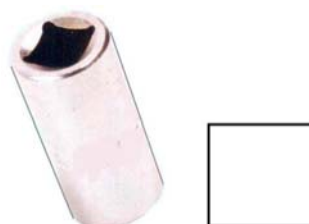


KA-6544B
17pcs Oil Filter Wrench Kit
 (Cast Aluminum Alloy)

| PARTS NO. | Description | KA-6544 | KA-6544A | KA-6544B |
|-----------|--|---------|----------|----------|
| #441 | 64mm 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, DAIHATSU | • | • | • |
| #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, DAI HATSU | • | • | • |
| #458 | 79mm 15F FOR HAND ACCORD, NISSAN, TOYOTA | • | • | • |
| #459 | 86mm 14F FOR MITSUBISHI, MAZDA | • | • | • |
| #460 | 91mm 15F FOR GM, FORD, CHRYSLER, LANCIA, FIAT | • | • | • |
| #461 | 101mm 15F FOR MAZDA, MITSUBISHI TOYOTA, DAIHATSU | • | • | • |
| | 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 12pcs 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 – FIAT 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 15pcs 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 14pcs 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 17pcs 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 18pcs 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-3170A 2 in 1 Fuel Tank Lock Ring Kit

- An Innovative Great Tool with Multi-Application:
- Damage-Free to Remove and Re-Fit the Fuel Gauge Sender Collars.
- Easy to Remove and Install Lock Ring on the Fuel Tank when Servicing the Fuel Pump or Fuel Sending Unit.
- 2 Sets of Interchangeable Legs
- Channel Design body bar enable the Interchangeable Legs to Lock and Fit in Place to Secure the Drive Centered.
- Compact Size to Prevent Hanging over the Work Area and Eliminate the Possibility of Damaging other Parts
- Operation Range: Diameter 90-170mm
- Content: Channel Center Bar & 2 Interchangeable Set of Legs.



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 TLD, 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-2991 Oil Quality Comparator

The accessory provides the ability to examine oil quality visually.



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-7805E 28pcs Oil Drain Plug Key Set

- Suitable for sump plugs, engines, gear box and back axle.
- Chrome Vanadium keys with satin finish.
- Contents:
 - Hex key: 8mm, 9mm, 10mm, 12mm, 13mm, 14mm and 17mm
 - Square(Female): 10mm
 - Square: 7mm, 8mm, 10mm, 11mm, 12mm, 13mm, 14mm, 5/16" and 3/8"
 - Star(Torx): T45
 - M16 Plug Socket
 - Triangular -10mm
 - Sockets (Magnet): 13mm, 14mm, 17mm, 18mm, 19mm and 21mm
 - 3/8" Dr. T-Handle
 - 3/8" Dr. Extension bar

KA-7263K 9pcs Oil Filter Wrench Set

KA-7844K 13pcs Oil Filter Wrench Set


| No. | Item No. | Picture | 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 1st, Noah, Premio, Prius, Voxy, Wish |
| 2 | KA-3579B | | 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-3217AB | | 6 | 27mm | 3/8" | S45C/ Nickel-plating | Mercedes and smart car |
| 8 | KA-3215AB | | 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 | KA-3216AB | | 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 |
| 10 | KA-3787 | | 15 | 90.2mm | 3/8" | Aluminum Chrome | / Land Rover LR4 2014-2016, Range Rover 2014-2016, Range Rover Sport 2015-2016. |
| 11 | KA-6977 | | 14 | 84.4mm | 3/8" | Aluminum Chrome | / 2007 Dodge Sprinter, Mercedes-Benz E320, 2007 Jeep Cherokee with 3.0L V6 Diesel Engine. |
| 12 | KA-3669A | | 16 | 86.6mm | 3/8" | Aluminum Chrome | / BMW 335i 3.0L twin turbo, 535i 3.0L twin turbo, 3 series(E90), X6 3.0L twin turbo |
| 13 | KA-6147-1 | | Hex. | 24mm | 3/8" | Forged | Toyota Buick, Encore 2013-2016 Toyota Chevrolet, Aveo 2009-2011, Cruze 2011-2015, Sonic 2012-2016, Trax 2015-2016 |

Oil Filter Killer



KA-3697



KA-3697A



KA-3697B



KA-3697L



Oil Filter Wrench

- Removes any oil filter quickly. Diamond-sand-coated triple-clamp securely holds oil filter, with gripping force increasing as user turns the wrench. Never any slippage.
 - Available for large (75~138mm dia.) and small (55~95mm dia.) oil filter.
 - High torque: KA-3697 & KA-3697A over 150Nm, KA-3697B & KA-3697L over 250Nm
 - Anti-Slip design with non-slip pad at bottom and diamond-sand-coated triple-clamp.
 - Strong magnet at bottom to enable wrench to hold oil filter for easy tool change.
 - Shot and long triple-clamps available for filter of any configuration and size.
 - KA-3697A with ratchet to install oil filter with ideal tightness.
 - Special good for "PLASTIC" oil filter, no damage to remove oil filter.
- PAT. U.S.A, GERMANY, TAIWAN, U.K.



| Item No. | | KA-3697 | KA-3697A | KA-3697B | KA-3697L |
|--|------|---------------|-------------------------------------|---------------------------|---------------------------|
| Triple-Clamp x 3pcs (diamond-sand-coated) | 36mm | • | • | -- | -- |
| | 56mm | • | • | • | -- |
| | 66mm | -- | -- | -- | • |
| Main Body (with non-slip pad & strong magnet) | | • | • | • | • |
| Turning Tap | | • | • | -- | -- |
| Spanner | | -- | • | -- | -- |
| Application | | Light vehicle | Light vehicle (professional set) | Japanese heavy vehicle | European heavy vehicle |

Operation:

- Step 1: choose suitable triple-clamp and install to main body. (fig. 1)
- Step 2: insert tool and adjust the contact surface of triple-clamp's meet with oil filter. (fig. 2)
- Step 3: Remove the oil filter with spanner or torque wrench.
- Step 4: insert turning tap into hex socket of main body to assemble new oil filter.

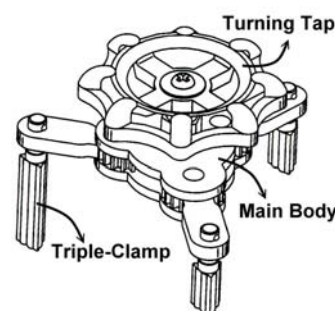
* Use turning tap can assemble oil filter in comfortable tightness.



fig. 1



fig. 2



KA-6978 Oil funnel for Toyota & Lexus

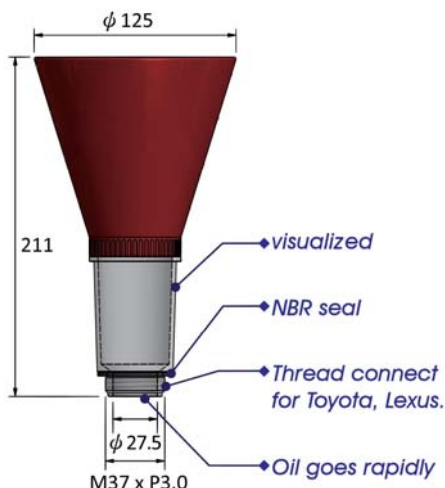
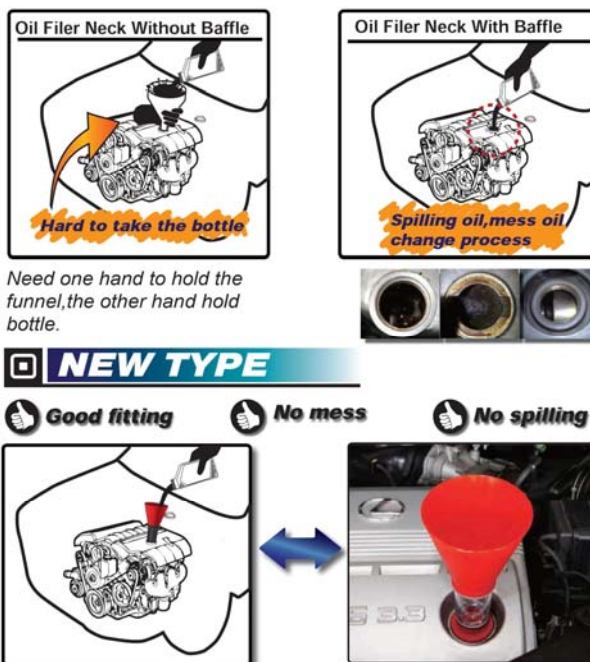
Features:

- Mess proof, excellent handy funnel for providing no more oil spillage onto engine.
- Thread or clip lock styles securely fixed with oil filler threads, no more need the third hand to hold the funnel.
- Efficiently improve oil-changing process.
- Visualized lower chamber design shows clear oil flow situation.
- Attached durable seal with NBR material to ensure good sealing.
- Oil goes down into engine rapidly, great design to minimize spillage even there is any baffle located below the filler neck, e.g. Lexus, Toyota, or Scion.

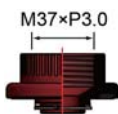
How to work:

- Remove oil filler cap from vehicle, and choose thread or clip funnel, then install it onto oil filler hole well.
- Prepare engine oil for the pleasant new oil refilling process without spillage.

Comparison:



- Clip connect for VAG, Lexus, BMW, M-Benz.
- Connector thread-good fitting with thread funnel & other current M37 x P3.0 funnels on market.



Application:



Thread style



The style of screw the clip connector to the funnel body

5-1. THREAD STYLE

| BRAND | MODEL | YEAR | BRAND | MODEL | YEAR | BRAND | MODEL | YEAR |
|-----------|---------------|-----------------|---------|--------------|-----------|--------|---------------|-----------|
| Chevrolet | Nova | 1985-1988 | Lexus | LS600h | 2008-2012 | Toyota | Tacoma | 1995-2010 |
| Chevrolet | Prizm | 1998-2002 | Lexus | LX570 | 2008-2011 | Toyota | Tercel | 1984-1988 |
| Geo | Prizm | 1990-1997 | Lexus | SC430 | 2008-2010 | Toyota | Tundra | 2004-2011 |
| Lexus | ES250 | 1990-1991 | Pontiac | Vibe | 2003-2010 | Toyota | Venza | 2009-2011 |
| Lexus | GS430, GS300 | 2006 | Toyota | 4Runner | 1993-2011 | Toyota | Avalon | 2005-2009 |
| Lexus | GX470 | 2008-2009 | Toyota | Camry | 1983-2012 | Toyota | Corolla | 2003-2011 |
| Lexus | LS400 | 1990-1991 | Toyota | Celica | 1983-2005 | Toyota | Echo | 2000-2002 |
| Lexus | LX450 | 1996-1997 | Toyota | Cressida | 1978-1992 | Toyota | FJ Cruiser | 2007-2012 |
| Lexus | LX470 | 1998-2002, 2006 | Toyota | Land Cruiser | 1972-2010 | Toyota | Highlander | 2001-2012 |
| Lexus | CT200h | 2011-2012 | Toyota | MR2 Spyder | 2004 | Toyota | Matrix, Yaris | 2010-2011 |
| Lexus | ES350 | 2007-2008, 2012 | Toyota | MR2 | 1989-1995 | Toyota | Prius | 2006 |
| Lexus | GS350, GS450h | 2009-2011 | Toyota | Paseo | 1992-1994 | Toyota | RAV4 | 2005-2011 |
| Lexus | GS460, RX450h | 2010-2012 | Toyota | Pickup | 1977-1993 | Toyota | Sequoia | 2004-2010 |
| Lexus | HS250h | 2010-2011 | Toyota | Solara | 2000-2008 | Toyota | Sienna | 2008-2010 |
| Lexus | IS250 | 2007-2010 | Toyota | Starlet | 1981-1984 | Scion | tC | 2005-2007 |
| Lexus | IS350 | 2006-2012 | Toyota | Supra | 1986-1992 | Scion | xB | 2012 |
| Lexus | LS460, RX350 | 2007-2012 | Toyota | T100 | 1994 | Scion | xD | 2008-2011 |

5-2. THE STYLE OF SCREW THE CLIP CONNECTOR TO THE FUNNEL BODY

| BRAND | MODEL | YEAR | BRAND | MODEL | YEAR | BRAND | MODEL | YEAR |
|--------|--------------|-----------|-------|-------------|-----------|---------------|------------|-----------|
| Lexus | Fox | 2000-2006 | Audi | 325i | 1997-2012 | BMW | M5 | 1995-1999 |
| Lexus | GTI | 2006 | Audi | 325iX | 1997-1999 | BMW | X3 | 1977-1983 |
| Lexus | Golf | 1999-2006 | Audi | 325is | 2001-2005 | Mercedes-Benz | X5 | 2003-2004 |
| Lexus | Jetta | 2006-2008 | Audi | 328i, 328is | 1995-1998 | Mercedes-Benz | Z3 | 1996-2005 |
| Toyota | Karmann Ghia | 2005-2006 | Audi | 330i, 330Ci | 1974-1979 | Mercedes-Benz | Z4 | 1998-2000 |
| Toyota | Passat | 2001-2010 | Audi | 524td | 2007-2010 | Mercedes-Benz | Z8 | 1996-1999 |
| Toyota | Phaeton | 1998-2006 | Audi | 525i | 2008 | Mercedes-Benz | Charger | 1997-1999 |
| Toyota | Quantum | 2007-2008 | Audi | 528e | 2007-2008 | Mercedes-Benz | Omni | 1997-1999 |
| Toyota | R32 | 1997-1998 | Audi | 528i | 2003 | Mercedes-Benz | 190D | 1997-2002 |
| Audi | Rabbit | 1993 | Audi | 530i | 1992-2008 | Mercedes-Benz | 220, 220D | 1996-1997 |
| Audi | Scirocco | 1971-1977 | Audi | 535i | 1995-2003 | Mercedes-Benz | 240D | 1998-1999 |
| Audi | Super Beetle | 1991 | Audi | 540i | 2001-2009 | Plymouth | 250, 250C | 1978-1986 |
| Audi | Thing | 1984 | Audi | 545i | 2004-2012 | Porsche | 280SEL | 1980-1982 |
| Audi | Touareg | 1982-1987 | Audi | 740i, 740Li | 2000-2009 | Porsche | 300D | 2006 |
| Audi | Vanagon | 1978-1983 | Audi | 740i | 1990-1994 | Volkswagen | 300SD | 1973-2010 |
| Audi | 244, 245 | 1988-1990 | BMW | 745i, 745iL | 1971-1976 | Volkswagen | 300SEL | 2009-2012 |
| Audi | 264 | 1993-1995 | BMW | 750Li | 1971 | Volkswagen | C220, S350 | 1996-2002 |
| Audi | 265 | 2006-2012 | BMW | 760Li | 1971 | Volkswagen | C230 | 1985-1993 |
| Audi | 740 | 1996-2009 | BMW | 760i | 1971 | Volkswagen | C280 | 1990-1992 |
| Audi | 760 | 1996-2008 | BMW | 850CSi | 1972-1974 | Volkswagen | C36 AMG | 1974-1978 |
| Audi | 323i | 2008 | BMW | Bavaria | 1984-1996 | Volkswagen | CLK320 | 2007-2008 |
| Audi | 325Ci | 1995-2011 | BMW | M3 | 1991-1997 | Volkswagen | E300 | 1999-2003 |

KA-6978A Oil Funnel for Honda & Nissan

Features:

- Oil spill eliminator, no more unpleasant spills.
- Efficiently improves oil-changing process.
- Transparent lower chamber design clearly shows oil flow process.
- Attached durable seal with NBR material ensures secure sealing.
- Large oil passage allows oil to flow down more rapidly.

Instruction:

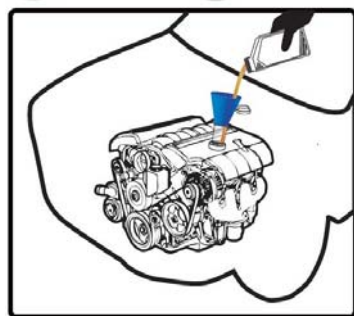
- Remove oil filler cap from vehicle and install it onto oil filler neck securely.
- Prepare engine oil for the pleasant new oil refilling process without spilling.



No mess



No spilling



Please see the page EG-E22-1-2 for Application Model

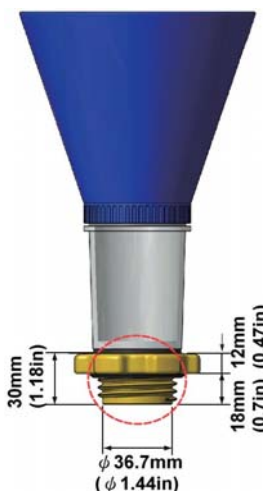
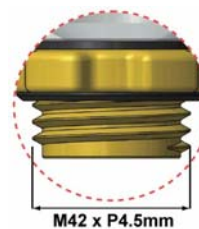


With cap for Subaru (KA-6978-SB):

- Suitable for all SUBARU models with small oil filler neck.

Application:

| BRAND | MODEL | YEAR |
|--------|------------|-----------|
| Subaru | B9 Tribeca | 2006-2007 |
| Subaru | Baja | 2005-2006 |
| Subaru | Forester | 1998-2012 |
| Subaru | Impreza | 1993-2012 |
| Subaru | Justy | 1989-1994 |
| Subaru | Legacy | 1990-2012 |
| Subaru | Outback | 2001-2012 |
| Subaru | SVX | 1994-1997 |
| Subaru | Tribeca | 2008-2012 |



KA-6978ASB
Set with cap for Subaru

With Extended Adapter (KA-6978-AD):

- Suitable for engine oil filler neck located in limited spaces (fig. 1 & 2)
- Connect with blue funnel and insert the adapter into the oil filler neck.



Oil filler neck is right angle forward

KA-6978AAD
Set with extended adaptor



Please see the page EG-E22-1-2 for Application Model

KA-6978AK

Content:
KA-6978A oil funnel
KA-6978-K filter-mesh



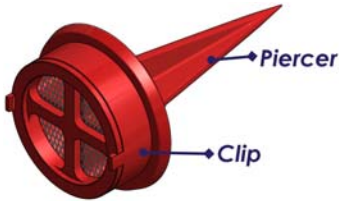
KA-6978ASBK

Content:
KA-6978A oil funnel
KA-6978-K filter-mesh
KA-6978-SB Oil funnel cap



KA-6978AADK

Content:
KA-6978A oil funnel
KA-6978-K filter-mesh
KA-6978-AD 150° adapter

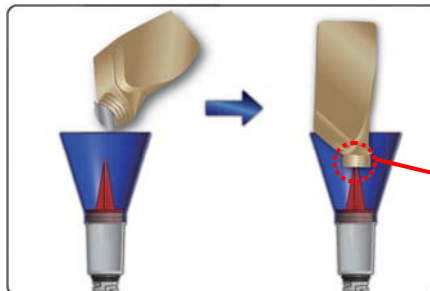
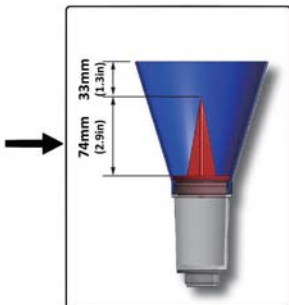


- Piercer cap material: Nylon 66
- Filter material: Stainless Steel
- Filter size: 20 mesh



With filter-mesh (KA-6978-K)

- Oil spill eliminator, no more unpleasant spills.
- Efficiently improves oil-changing process.
- Transparent lower chamber design clearly show oil flow process.
- Hand free design of piercer securely holds bottles.
- Pierces bottle seals and prevents seals from falling into engine.
- Piercing function saves time and prevents engine oil or transmission fluid additives from spilling.
- Special filter mesh efficiently blocks impurities without extending oil-changing time.



- ✓ Holds bottles securely.
- ✓ Keep skin from oil additive.

KA-6978AC Master Oil Funnel

Contents:

1. KA-6978A Oil funnel
2. KA-6978-AD 150° adapter for Honda van/ SUV cars
3. KA-6978-SB Oil funnel cap for all subaru
4. KA-6978-TM 430mm length ATF refilling transmission fluid bar for refilling oil with ease in deep and narrow access, especially required on Honda and Acura vehicles.



Application (KA-6978A / KA-6978AAD / KA-6978ASB / KA-6978AK / KA-6978AADK / KA-6978ASBK / KA-6978AC):

| BRAND | MODEL | YEAR | BRAND | MODEL | YEAR | BRAND | MODEL | YEAR |
|-----------|----------------------------|-----------|------------|----------------|-----------|------------|---------------|-----------|
| Acura | CL | 1997-1999 | Hyundai | Veracruz | 2008-2012 | Dodge | Intrepid | 1993-2004 |
| Acura | Integra | 1992-2001 | Isuzu | I-Mark | 1989 | Dodge | Journey | 2009-2010 |
| Acura | Legend | 1986-1995 | Isuzu | Oasis | 1996-1999 | Dodge | Magnum | 2005-2008 |
| Acura | MDX | 2001 | Jeep | Liberty | 2005-2006 | Dodge | Neon | 1998-2005 |
| Acura | NSX | 1991-2005 | Jeep | Cherokee | 1998-2005 | Dodge | Ram 1500 Van | 1999-2003 |
| Acura | RL | 1996-1999 | Jeep | Commander | 2006-2010 | Dodge | Ram 1500 | 1995-2010 |
| Acura | SLX | 1999 | Jeep | Compass | 2007-2011 | Dodge | Ram 2500 Van | 1999-2003 |
| Acura | TL | 1995-1999 | Jeep | Grand Cherokee | 1994-2012 | Dodge | Ram 2500 | 1994-2010 |
| Acura | Vigor | 1992-1994 | Jeep | Wrangler | 1997-2011 | Dodge | Ram 3500 Van | 1999-2003 |
| Honda | Accord | 1987-2003 | Kia | Amanti | 2007-2009 | Dodge | Ram 3500 | 1999-2010 |
| Honda | CR-V | 1997-2001 | Kia | Borrego | 2009 | Dodge | Shadow | 1994 |
| Honda | CRX | 1988-1991 | Kia | Forte | 2010-2012 | Dodge | Spirit | 1994 |
| Honda | Civic del Sol | 1993-1997 | Kia | Optima | 2006-2010 | Dodge | Stratus | 1995-2006 |
| Honda | Civic | 1987-2002 | Kia | Rio | 2006-2011 | Dodge | Viper | 1994-2010 |
| Honda | Odyssey | 1995-2000 | Kia | Rio5 | 2006-2011 | Eagle | Talon | 1996-1998 |
| Honda | Passport | 1999-2000 | Kia | Rondo | 2007-2010 | Eagle | Vision | 1993-1997 |
| Honda | Prelude | 1983-2001 | Kia | Sedona | 2007-2012 | Mini | Cooper | 2002-2010 |
| Honda | S2000 | 2000-2009 | Kia | Sorento | 2007-2012 | Mitsubishi | Eclipse | 1995-1999 |
| Honda | Wagovan | 1986-1987 | Kia | Spectra | 2004-2009 | Mitsubishi | Lancer | 2009 |
| Chevrolet | Metro | 1998-2001 | Kia | Spectra5 | 2005-2009 | Mitsubishi | Outlander | 2007-2009 |
| Chevrolet | Tracker | 1998-2008 | Kia | Sportage | 2006-2012 | Plymouth | Acclaim | 1994 |
| Ford | Aerostar | 1988-1994 | Land Rover | Freelander | 2002-2005 | Plymouth | Breeze | 1998-2000 |
| Ford | Bronco II | 1986-1990 | Lincoln | Aviator | 2003-2004 | Plymouth | Grand Voyager | 1996-2000 |
| Ford | Bronco | 1985-1996 | Lincoln | Blackwood | 2002 | Plymouth | Neon | 1995-2001 |
| Ford | Contour | 1995-2000 | Lincoln | Continental | 1988-2002 | Plymouth | Prowler | 2001 |
| Ford | Crown Victoria | 1992-2002 | Lincoln | LS | 2000-2005 | Plymouth | Sundance | 1994 |
| Ford | E-150 Econoline Wagon | 2003 | Lincoln | Mark VII | 1991-1998 | Plymouth | Voyager | 1996-2000 |
| Ford | E-150 Econoline | 1996-2002 | Lincoln | Navigator | 1998-2004 | Ram | 1500 | 2011-2012 |
| Ford | E-150 | 2003-2007 | Lincoln | Town Car | 1991-2002 | Ram | 2500 | 2011-2012 |
| Ford | E-250 Econoline Club Wagon | 1985-1991 | Mazda | B2300 | 1994-2003 | Ram | 3500 | 2011-2012 |
| Ford | E-250 Econoline | 1985-2002 | Mazda | B2500 | 1998-2001 | Ram | 3500 | 2012 |
| Ford | E-250 | 2003-2005 | Mazda | B3000 | 1994-2000 | Volkswagen | Routan | 2009-2010 |
| Ford | E-350 Club Wagon | 2003 | Mazda | B4000 | 1995-2000 | Nissan | 200SX | 1980-1988 |
| Ford | E-350 Econoline Club Wagon | 1985-2002 | Mazda | MPV | 2000-2001 | Nissan | 240Z | 1970-1973 |
| Ford | E-350 Econoline | 1985-2002 | Mazda | Navajo | 1991-1993 | Nissan | 260Z | 1974 |
| Ford | E-350 Super Duty | 2004-2008 | Mazda | Tribute | 2002-2003 | Nissan | 280Z | 1975-1978 |
| Ford | E-350 | 2003 | Mercury | Colony Park | 1989-1990 | Nissan | 280ZX | 1979-1983 |
| Ford | E-450 Econoline Super Duty | 2000-2002 | Mercury | Cougar | 1992-1997 | Nissan | 510 | 1970-1981 |
| Ford | E-450 Super Duty | 2003-2005 | Mercury | Grand Marquis | 1989-2002 | Nissan | 521 Pickup | 1970-1972 |
| Ford | E-550 Econoline Super Duty | 2002 | Mercury | Lynx | 1985-1987 | Nissan | 610 | 1973-1974 |
| Ford | E-550 Super Duty | 2003 | Mercury | Marauder | 2003-2004 | Nissan | 620 Pickup | 1972-1974 |
| Ford | EXP | 1986 | Mercury | Monterey | 2004-2007 | Nissan | 620 | 1975-1979 |
| Ford | Econoline Super Duty | 1997-1999 | Mercury | Mountaineer | 1997-2001 | Nissan | 710 | 1974 |
| Ford | Escape | 2002-2003 | Mercury | Mystique | 1995-1998 | Nissan | 720 | 1980-1985 |
| Ford | Escort | 1985-1999 | Mercury | Sable | 1986-2000 | Nissan | 810 | 1977-1981 |
| Ford | Excursion | 2000-2005 | Mercury | Topaz | 1987-1994 | Nissan | Maxima | 1982-2009 |
| Ford | Expedition | 1997-2003 | Mercury | Tracer | 1997-1999 | Nissan | Sentra | 1983-2012 |
| Ford | Explorer | 1997-2001 | Mercury | Villager | 1993-2002 | Nissan | Stanza | 1982-1992 |
| Ford | F Super Duty | 1988-2004 | Saturn | Vue | 2004-2007 | Nissan | Titan | 2006-2009 |
| Ford | F-150 | 1985-2003 | Sterling | 825 | 1987-1988 | Nissan | Versa | 2007-2011 |
| Ford | F-250 Super Duty | 1999-2008 | Sterling | 827 | 1989-1991 | Nissan | Xterra | 2000-2003 |
| Ford | F-250 | 1985-1997 | Suzuki | Aerio | 2002-2004 | Nissan | 240SX | 1991-1998 |
| Ford | F-350 Super Duty | 1999-2008 | Suzuki | Esteem | 1995-2002 | Nissan | 300ZX | 1984-1996 |
| Ford | F-350 | 1985-1997 | Suzuki | Grand Voyager | 1999-2003 | Nissan | 350Z | 2003-2009 |
| Ford | F-450 Super Duty | 1999-2010 | Suzuki | Sidekick | 1992-1998 | Nissan | 370Z | 2009-2012 |
| Ford | F-550 Super Duty | 1999-2010 | Suzuki | Swift | 1990-2001 | Nissan | Altima | 1996-2009 |
| Ford | F53 | 1988-1997 | Suzuki | Vitara | 1999-2003 | Nissan | Armada | 2006-2009 |
| Ford | F59 | 1988-1996 | Suzuki | XL-7 | 2002-2003 | Nissan | Axxess | 1990 |
| Ford | F600 | 1990 | Chrysler | 300 | 2005-2012 | Nissan | Cube | 2010-2012 |
| Ford | F650 | 2006-2007 | Chrysler | 300M | 2001-2004 | Nissan | D21 | 1989-1994 |
| Ford | F700 | 1995-1996 | Chrysler | Aspen | 2009 | Nissan | Frontier | 1998-2012 |
| Ford | Focus | 2004 | Chrysler | Cirrus | 1995-2000 | Nissan | Murano | 2004-2012 |
| Ford | Freestar | 2004-2007 | Chrysler | Concorde | 1994-2004 | Nissan | NX | 1991-1993 |
| Ford | GT | 2005-2006 | Chrysler | Grand Voyager | 2000 | Nissan | Pathfinder | 1991-2009 |
| Ford | LTD Crown Victoria | 1987-1991 | Chrysler | LHS | 1994-2001 | Nissan | Pickup | 1995-1997 |
| Ford | Mustang | 1986-2012 | Chrysler | New Yorker | 1994-1996 | Nissan | Pulsar NX | 1988-1990 |
| Ford | Ranger | 1986-2001 | Chrysler | PT Cruiser | 2001-2010 | Nissan | Quest | 1996-2012 |
| Ford | Taurus | 1989-2000 | Chrysler | Pacifica | 2005-2008 | Nissan | Rogue | 2008-2012 |
| Ford | Tempo | 1988-1994 | Chrysler | Sebring | 1997-2008 | Infiniti | G35 | 2008 |
| Ford | Thunderbird | 1996-1997 | Chrysler | Town & Country | 1999-2010 | Infiniti | G37 | 2008-2012 |
| Ford | Windstar | 1995-2003 | Chrysler | Voyager | 2000-2003 | Infiniti | I30 | 1996-2001 |
| Ford | Eco Boost engines | | Dodge | Avenger | 2008-2010 | Infiniti | I35 | 2002-2004 |
| Geo | Metro | 1989-1994 | Dodge | B1500 | 1995-1998 | Infiniti | J30 | 1993-1997 |
| Geo | Tracker | 1997 | Dodge | B150 | 1994 | Infiniti | M30 | 1990-1992 |
| Hyundai | Accent | 2000-2011 | Dodge | B2500 | 1995-1998 | Infiniti | M35 | 2006-2010 |
| Hyundai | Azera | 2006-2011 | Dodge | B250 | 1994 | Infiniti | M35h | 2012 |
| Hyundai | Elantra | 2001-2012 | Dodge | B3500 | 1995-1998 | Infiniti | M37 | 2011-2012 |
| Hyundai | Entourage | 2007-2008 | Dodge | B350 | 1994 | Infiniti | M45 | 2003-2010 |
| Hyundai | Genesis Coupe | 2010-2012 | Dodge | Caliber | 2007-2012 | Infiniti | M56 | 2011-2012 |
| Hyundai | Genesis | 2009-2011 | Dodge | Caravan | 1996-2007 | Infiniti | QX4 | 1990-2006 |
| Hyundai | Santa Fe | 2007-2012 | Dodge | Challenger | 2008-2010 | Infiniti | QX4 | 1997-2003 |
| Hyundai | Sonata | 2006-2012 | Dodge | Charger | 2006-2012 | Infiniti | QX56 | 2004-2010 |
| Hyundai | Tiburon | 2005-2008 | Dodge | Dakota | 1994-2003 | | | |
| Hyundai | Tucson | 2005-2012 | Dodge | Durango | 1998-2012 | | | |
| Hyundai | Veloster | 2012 | Dodge | Grand Caravan | 1995-2010 | | | |



KA-6978B Oil Funnel

KA-6978BK Oil Funnel With Filter-Mesh

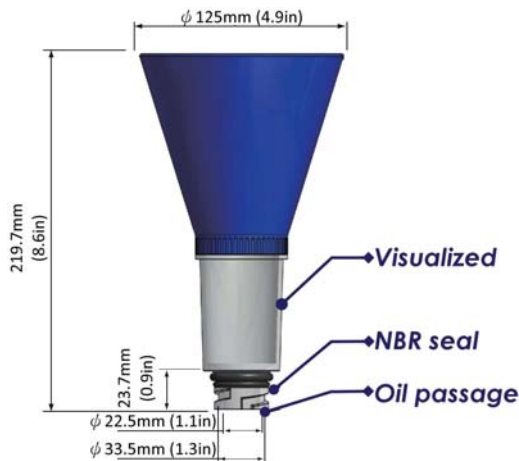
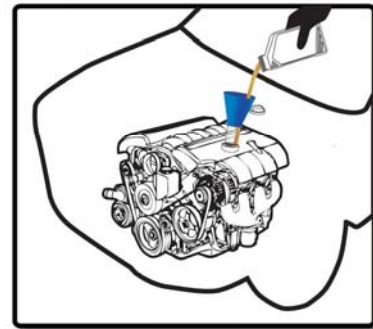
For Ford & Mazda

Features:

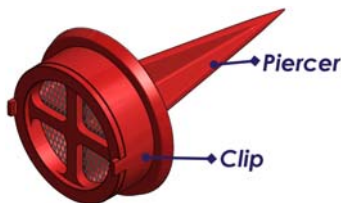
- Oil spill eliminator, no more unpleasant spills.
- Efficiently improves oil-changing process.
- Transparent lower chamber design clearly shows oil flow process.
- Attached durable seal with NBR material ensures secure sealing.
- Large oil passage allows oil to flow down more rapidly.

Instruction:

- Remove oil filler cap from vehicle and install it onto oil filler neck securely.
- Prepare engine oil for the pleasant new oil refilling process without spilling.

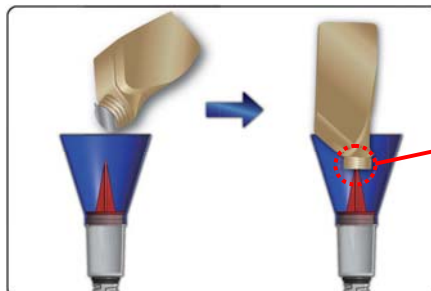
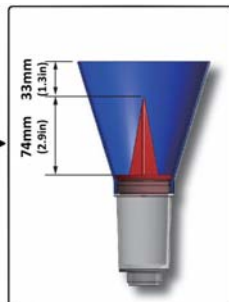


- Piercer cap material: Nylon 66
- Filter material: Stainless Steel
- Filter size: 20 mesh



With filter-mesh (KA-6978-K)

- Oil spill eliminator, no more unpleasant spills.
- Efficiently improves oil-changing process.
- Transparent lower chamber design clearly show oil flow process.
- Hand free design of piercer securely holds bottles.
- Pierces bottle seals and prevents seals from falling into engine.
- Piercing function saves time and prevents engine oil or transmission fluid additives from spilling.
- Special filter mesh efficiently blocks impurities without extending oil-changing time.



- ✓ Holds bottles securely.
- ✓ Keep skin from oil additive.

Applications:

| BRAND | MODEL | YEAR | BRAND | MODEL | YEAR | BRAND | MODEL | YEAR |
|-------|--------------------------|-----------|---------|---------------------|-----------|-------|---------------|-----------|
| Mazda | MX-5 Miata GS | 2008-2009 | Mazda | 3 GT | 2008-2009 | Ford | Escape | 2004-2008 |
| Mazda | MX-5 Miata GT | 2008-2009 | Mazda | 3 GX | 2008-2009 | Ford | Escape Hybrid | 2005-2008 |
| Mazda | MX-5 Miata GX | 2008-2009 | Mazda | 3 Mazdaspeed | 2007-2009 | Ford | Escape XLS | 2007-2008 |
| Mazda | MX-5 Miata Sport | 2006-2009 | Mazda | 3 S | 2005-2009 | Ford | Escape XLT | 2007-2008 |
| Mazda | MX-5 Miata SV | 2007-2009 | Mazda | 3 SP23 | 2005 | Ford | Focus | 2004-2011 |
| Mazda | MX-5 Miata Touring | 2006-2009 | Mazda | 5 | 2006-2009 | Ford | Focus LX | 2004 |
| Mazda | MX-5 Miata Club Spec | 2006 | Mazda | 5 GS | 2008-2009 | Ford | Focus ST | 2007 |
| Mazda | MX-5 Miata Grand Touring | 2006-2009 | Mazda | 5 GT | 2008-2009 | Ford | Focus ZTS | 2004 |
| Mazda | MX-5 Miata | 2006-2010 | Mazda | 5 Sport | 2006-2009 | Ford | Focus ZTW | 2004 |
| Mazda | RX-8 | 2009-2011 | Mazda | 5 Touring | 2006-2009 | Ford | Focus ZX3 | 2004-2006 |
| Mazda | RX-8 Grand Touring | 2009-2010 | Mazda | 5 Grand Touring | 2007-2009 | Ford | Focus ZX4 | 2005-2006 |
| Mazda | RX-8 GS | 2009 | Mazda | 6 | 2004-2010 | Ford | Focus ZX4 ST | 2006 |
| Mazda | RX-8 GT | 2009-2010 | Mazda | 6 GS | 2008-2009 | Ford | Focus ZX5 | 2004-2006 |
| Mazda | RX-8 R3 | 2009-2010 | Mazda | 6 GT | 2008-2009 | Ford | Focus ZXW | 2004-2006 |
| Mazda | RX-8 Sport | 2009-2010 | Mazda | 6 I | 2005-2009 | Ford | Focus SE | 2004-2008 |
| Mazda | RX-8 Touring | 2009 | Mazda | 6 Mazdaspeed | 2006 | Ford | Fusion | 2005-2006 |
| Mazda | Tribute | 2005-2011 | Mazda | B2300 | 2004-2009 | Ford | Fusion S | 2006-2008 |
| Mazda | Tribute GX | 2010 | Mercury | Mariner | 2006-2008 | Ford | Fusion SEL | 2006-2007 |
| Mazda | Tribute Hybrid | 2008-2010 | Mercury | Mariner Convenience | 2007 | Ford | Focus SES | 2007-2008 |
| Mazda | Tribute I | 2005-2011 | Mercury | Mariner Hybrid | 2006-2008 | Ford | Ranger | 2004-2011 |
| Mazda | 3 | 2004-2009 | Mercury | Milan Premier | 2006-2007 | Ford | Ranger STX | 2007 |
| Mazda | 3 I | 2005-2009 | Mercury | Milan | 2006-2009 | Ford | Ranger XL | 2006-2009 |
| Mazda | 3 GS | 2008-2009 | | | | Ford | Ranger XLT | 2006-2009 |

KA-6978C Oil Funnel

KA-6978CK Oil Funnel With Filter-Mesh

For Chrysler

Features:

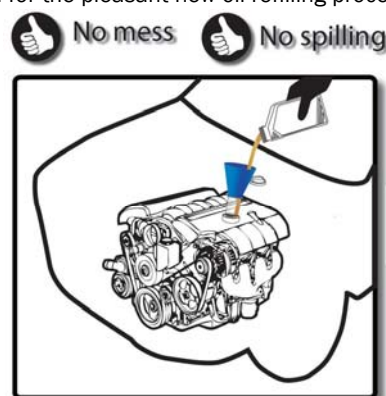
- Oil spill eliminator, no more unpleasant spills.
- Efficiently improves oil-changing process.
- Transparent lower chamber design clearly shows oil flow process.
- Attached durable seal with NBR material ensures secure sealing.
- Large oil passage allows oil to flow down more rapidly.

Applications:

| BRAND | MODEL | YEAR |
|------------|----------------|-----------|
| Chrysler | Aspen | 2007-2008 |
| Chrysler | Pacifica | 2007-2008 |
| Chrysler | Town & Country | 2009-2008 |
| Dodge | Avenger | 2009 |
| Dodge | Charger | 2009-2010 |
| Dodge | Dakota | 2008 |
| Dodge | Durango | 2005-2008 |
| Dodge | Nitro | 2007-2011 |
| Dodge | Ram 1500 | 2005-2008 |
| Dodge | Ram 2500 | 2005-2008 |
| Dodge | Ram 3500 | 2005-2008 |
| Jeep | Commander | 2008-2010 |
| Jeep | Liberty | 2008-2012 |
| Mitsubishi | Raider | 2008-2009 |
| Ram | 1500 | 2012 |

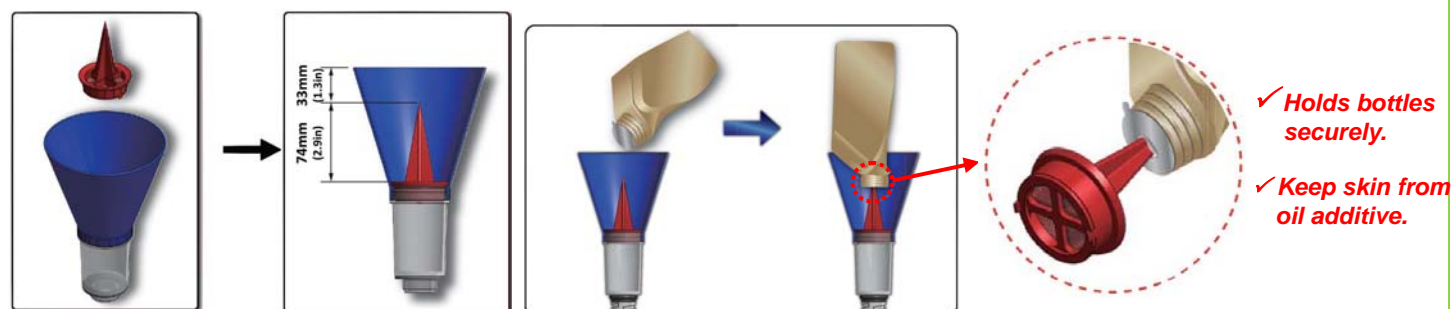
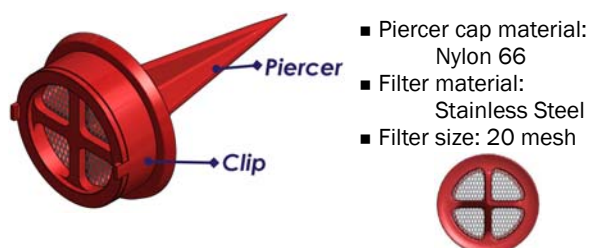
Instruction:

- Remove oil filler cap from vehicle and install it onto oil filler neck securely.
- Prepare engine oil for the pleasant new oil refilling process without spilling.



With filter-mesh (KA-6978-K)

- Oil spill eliminator, no more unpleasant spills.
- Efficiently improves oil-changing process.
- Transparent lower chamber design clearly show oil flow process.
- Hand free design of piercer securely holds bottles.
- Pierces bottle seals and prevents seals from falling into engine.
- Piercing function saves time and prevents engine oil or transmission fluid additives from spilling.
- Special filter mesh efficiently blocks impurities without extending oil-changing time.



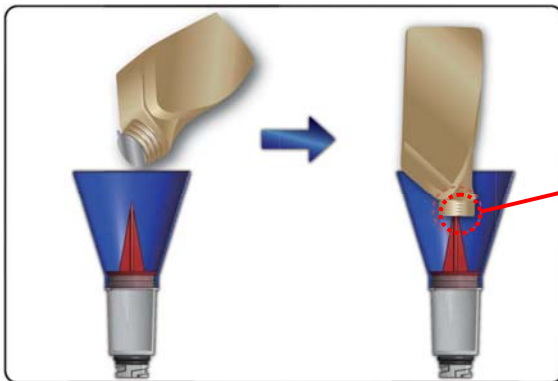
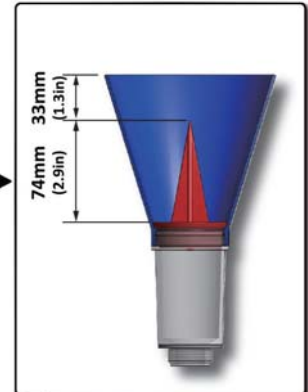
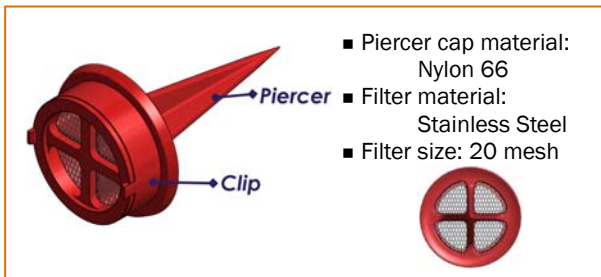
KA-6978K Oil Funnel With Filter-Mesh

Contents:

1. Oil funnel (KA-6978)
2. Filter-Mesh (KA-6978-K)

Feature:

- Oil spill eliminator, no more unpleasant spills.
- Efficiently improves oil-changing process.
- Transparent lower chamber design clearly show oil flow process.
- Hand free design of piercer securely holds bottles.
- Pierces bottle seals and prevents seals from falling into engine.
- Piercing function saves time and prevents engine oil or transmission fluid additives from spilling.
- Special filter mesh efficiently blocks impurities without extending oil-changing time.



✓ Holds bottles securely.

✓ Keep skin from oil additive.

Universal Oil Funnel Set

- Screw-on type oil funnel prevents unsafe oil spills.
- Transparent lower chamber clearly shows oil flow process.
- Large oil passage allows oil to be refilled more rapidly.
- Includes adapters for most common American vehicles.
- Provided with a storage holder and a drain plate.



Instructions:

Use funnel and chambers

1. Choose a suitable chamber.
2. Connect the chamber to funnel.
3. Connect the chamber to oil filler neck on car. (fig.1)



Use funnel, chambers and adapters

1. Choose a suitable adapter.
2. Connect the adapter to a suitable chamber.
3. Connect the adapter to oil filler neck on car (fig.2)



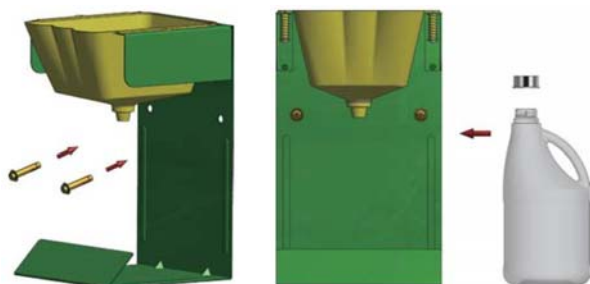
KA-6978US For America Cars
KA-6978EU For Europe Cars

KA-6978G Oil Gathering Set With 2 Bottles

- Complete set with 2 bottles for draining and gathering rest oil from fluid bottles.
- Hands-free work with side and deep funnel.
- Included two 2 liter empty bottles and two pieces anchor bolts.
- Developed oil drain gathering set provides good solution for environment concern.

Operation:

- Step 1: Install the anchor and fix the drain case device on wall. This is only an optional installation, users can keep this device on the floor, too.
- Step 2: Remove the bottle cap and install the empty bottle below the funnel.
- Step 3: Install the bottle onto funnel for drain the rest liquid into provided 2 liter bottle. (fig. 1)
- Step 4: Screw well the bottle cap and keep the gathering oil in suitable storage or further usages. (fig. 1)
- Step 5: good recycling of complete empty oil bottles. (fig. 2)



(fig. 1)

Example 2: ATF fluid

(fig. 2)

Specification:



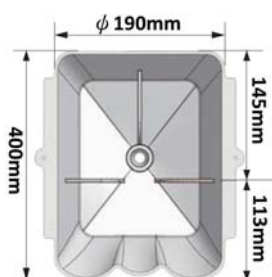
Anchor x 2pieces

| | |
|-----------------|---------|
| Anchor material | Steel |
| Surface finish | Plating |
| Anchor length | 56mm |
| Hex | 12mm |



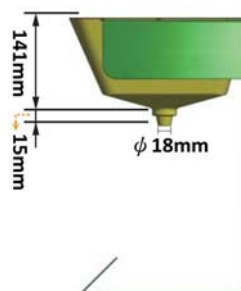
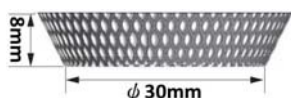
Bottle

| | |
|-----------------|---------|
| Bottle material | PE |
| Color | Neutral |
| Volume | 2 Liter |



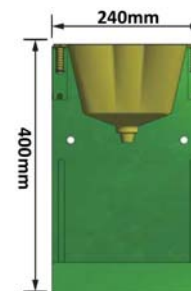
Funnel

| | |
|------------------------|-----------|
| Funnel material | PP |
| Funnel filter material | Stainless |
| Funnel filter size | 80 mesh |



Case

| | |
|-----------------|--------|
| Case material | Steel |
| Surface | Chrome |
| Thickness | 2 mm |
| Funnel material | PP |



KA-8387K

Engine Oil Topping Up Funnel and Adaptor Set

- Topping-up funnel is made of strong plastic with bayonet fitting.
- Capacity approx. 1 liter

The funnel with the matching connector adapter is mounted in place of the scaling cap on the oil filter cap on the valve. To prevent unintended dripping oil on the cylinder head, cylinder block, intake manifold / exhaust manifold, etc...

Contents:













KA-8387-1, KA-8387-2, KA-8387-3, KA-8387-4, KA-8387-5, KA-8387-6, KA-8387-7



KA-8387K-P



- Material: Plastic
- Contents: KA-8387-1P, KA-8387-2P, KA-8387-3P, KA-8387-4P, KA-8387-5P, KA-8387-6P, KA-8387-7P, KA-8387-8P

| Pic. | Item No. / Description | Application | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|---|------------|----------------------|--------------------|--------------------|-----------|-----------|-----------|---------------|---------------|----------------------|-----------|----------------------|--------------------|--------------------|-----------|-----------|---------|-----------|--------|----------|-----------|-----|---------------|---------------|
|  | KA-8387-1 / KA-8387-1P Topping-up funnel | Capacity approx. 1 liter | | | | | | | | | | | | | | | | | | | | | | | | |
|  | KA-8387-2 / KA-8387-2P Angled extension | Aluminum Angled(KA-8387-2) / Plastic Angled (KA-8387-2P) | | | | | | | | | | | | | | | | | | | | | | | | |
|  | KA-8387-3 / KA-8387-3P Adapter with Bayonet Fitting | Audi, BMW, Dodge, Mercedes, Volvo and VW vehicles. | | | | | | | | | | | | | | | | | | | | | | | | |
|  | KA-8387-4 / KA-8387-4P Threaded adapter M42 x 4.5 | Subaru(except Tribeca) | | | | | | | | | | | | | | | | | | | | | | | | |
|  | KA-8387-5 / KA-8387-5P Threaded adapter M37 x 3.0 | Lexus, Toyota, Scion & Pontiac Vibe Models.(except Toyota Prius & Yaris) | | | | | | | | | | | | | | | | | | | | | | | | |
|  | KA-8387-6 / KA-8387-6P Threaded adapter M35 x 4.0 | Mazda | | | | | | | | | | | | | | | | | | | | | | | | |
|  | KA-8387-7 / KA-8387-7P Threaded adapter M32 x 3.5 | Dodge Cummins turbo Diesel Truck & Neon / Ford Turbo-Diesel 6.0,6.4,6.9&7.3 ; Honda Accord, Civic, Element, Fit, NSX&S2000;All Acura Model (expect MDX & RDX); Fit Most Nissan Models & Some Jaguar Models. | | | | | | | | | | | | | | | | | | | | | | | | |
|  | KA-8387-8 / KA-8387-8P Adapter with Bayonet Fitting | Fits all Toyota & Lexus with 3.0L & 3.3L V6 engines. No more mess. Patent-pending. For all Toyota, Lexus & Scion with threaded style oil cap, | | | | | | | | | | | | | | | | | | | | | | | | |
|  | KA-8387-9 Threaded adapter for Porsche | <table><tr><td>Fit Year</td><td>1984-1989</td><td>1984-1994</td><td>1985-1988</td><td>1987-1995</td><td>1983-1989</td><td>1986-1991</td><td>1989-1992</td><td>1985-1991</td><td>1992-1995</td><td>1989-1994</td><td>1989-1994</td></tr><tr><td>Model</td><td>911</td><td>911 turbo</td><td>924 S</td><td>928</td><td>944</td><td>944 S</td><td>944 S2</td><td>944 turbo</td><td>968</td><td>911 Carrera 2</td><td>911 Carrera 4</td></tr></table> | Fit Year | 1984-1989 | 1984-1994 | 1985-1988 | 1987-1995 | 1983-1989 | 1986-1991 | 1989-1992 | 1985-1991 | 1992-1995 | 1989-1994 | 1989-1994 | Model | 911 | 911 turbo | 924 S | 928 | 944 | 944 S | 944 S2 | 944 turbo | 968 | 911 Carrera 2 | 911 Carrera 4 |
| Fit Year | 1984-1989 | 1984-1994 | 1985-1988 | 1987-1995 | 1983-1989 | 1986-1991 | 1989-1992 | 1985-1991 | 1992-1995 | 1989-1994 | 1989-1994 | | | | | | | | | | | | | | | |
| Model | 911 | 911 turbo | 924 S | 928 | 944 | 944 S | 944 S2 | 944 turbo | 968 | 911 Carrera 2 | 911 Carrera 4 | | | | | | | | | | | | | | | |
|  | KA-8387-10 Adapter for Porsche | <table><tr><td>Fit Year</td><td>1973</td><td>1976-1977</td><td>1995-1996</td><td>1997-1998</td><td>1979-1981</td><td>1979</td></tr><tr><td>Model</td><td>911</td><td>911(H6; 3.0L 2999cc)</td><td>911</td><td>911(H6; 3.6L 3603cc)</td><td>928(Bayonet Style)</td><td>930(Bayonet Style)</td></tr></table> | Fit Year | 1973 | 1976-1977 | 1995-1996 | 1997-1998 | 1979-1981 | 1979 | Model | 911 | 911(H6; 3.0L 2999cc) | 911 | 911(H6; 3.6L 3603cc) | 928(Bayonet Style) | 930(Bayonet Style) | | | | | | | | | | |
| Fit Year | 1973 | 1976-1977 | 1995-1996 | 1997-1998 | 1979-1981 | 1979 | | | | | | | | | | | | | | | | | | | | |
| Model | 911 | 911(H6; 3.0L 2999cc) | 911 | 911(H6; 3.6L 3603cc) | 928(Bayonet Style) | 930(Bayonet Style) | | | | | | | | | | | | | | | | | | | | |
|  | KA-8387-11 Adapter for Porsche | <table><tr><td>Fit Year</td><td>2005-2008</td><td>2006-2008</td><td>2006-2008</td><td>2005-2008</td><td>2007-2009</td><td>2005-2008</td><td>2005-2008</td><td>2006-2008</td><td>2006-2008</td></tr><tr><td>Model</td><td>Carrera</td><td>Carrera 4</td><td>Carrera 4S</td><td>Carrera S</td><td>911 turbo</td><td>Boxster</td><td>Boxster S</td><td>Cayman</td><td>Cayman S</td></tr></table> | Fit Year | 2005-2008 | 2006-2008 | 2006-2008 | 2005-2008 | 2007-2009 | 2005-2008 | 2005-2008 | 2006-2008 | 2006-2008 | Model | Carrera | Carrera 4 | Carrera 4S | Carrera S | 911 turbo | Boxster | Boxster S | Cayman | Cayman S | | | | |
| Fit Year | 2005-2008 | 2006-2008 | 2006-2008 | 2005-2008 | 2007-2009 | 2005-2008 | 2005-2008 | 2006-2008 | 2006-2008 | | | | | | | | | | | | | | | | | |
| Model | Carrera | Carrera 4 | Carrera 4S | Carrera S | 911 turbo | Boxster | Boxster S | Cayman | Cayman S | | | | | | | | | | | | | | | | | |
|  | KA-8387-12 Adapter for Ford Original Cap | Fits: Cadillac(CTS), Chevy Cobalt, Ford Explorer, GMC Sierra, Hyundai(Santa Fe, Sonata, Tiberon and Tucson), Jaguar(5.0L V8 Engines), Land Rover(Newer 5.0L V8 Engines) Mazda: CX-9(3.7L) Saab:9-3(2003-Newer) | | | | | | | | | | | | | | | | | | | | | | | | |



KA-8387-3A Euro 1/4 Turn Oil Filler

Topping-up funnel with sealing connection for KA-8387-3 adapters.

Type: BMW 6 and 8 cylinders 1996-Newer; Dodge Sprinter; Mercedes 112 & 113 engines; VW & Audi 1.8T, 1.9L TDI, 2.0T, 2.8L(30v), 3.0L(30v),3.2L, 3.6L, 4.2L(40v) engines; Volvo 2.5T engines.

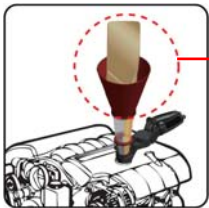
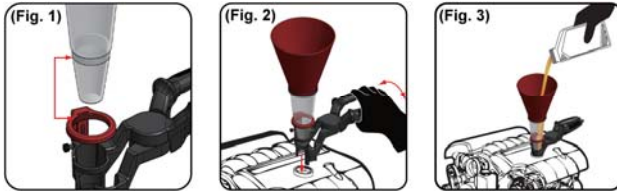


KA-6978DT 2PCS Universal Oil Funnel

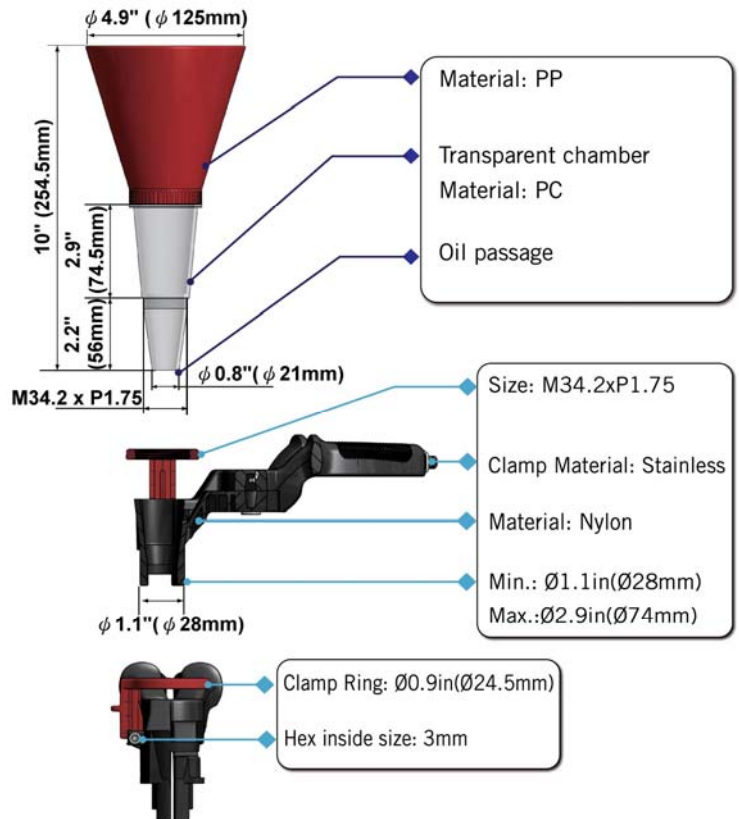
- Universal application.
- The width of the clamp is automatically adjustable 28mm~74mm (1.1" ~ 2.9")
- The funnel has a thread that fits perfectly in the clamp.
- The funnel has a special transparent design in the lower chamber to see the passage of the oil.
- No need to hold the funnel with your hand when refilling the oil.

Instruction:

- Thread funnel into the clamp ring. The clamp has to be open when screwing the funnel. (Fig. 1)
- Close the clamp and put into the oil filler neck, then release the clamp; the clamp will automatically be adjusted to oil filler neck. (Fig. 2)
- Start filling the oil into the engine. (Fig. 3)



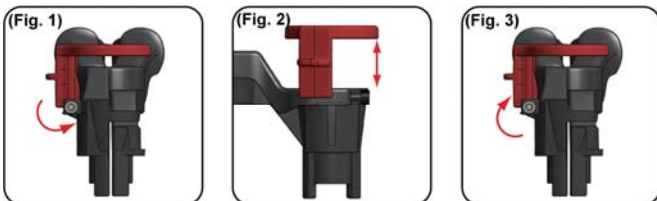
Do not put oil bottle on funnel- DANGEROUS!!



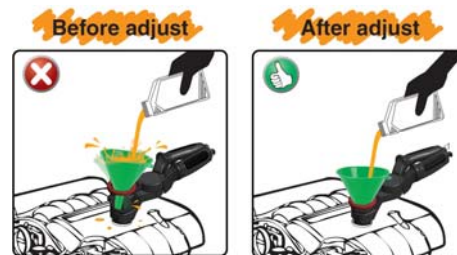
How to adjust the clamp ring

Note: only when use clamp with normal funnel, users need to adjust clamp ring height.

- Release the screw anti-clockwise. (Fig. 1)
- Adjust the clamp ring. (Fig. 2)
- Fix the screw clockwise. (Fig. 3)

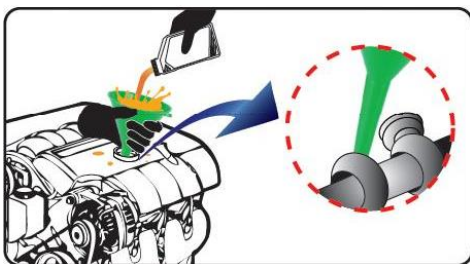


- ✓ Clamp can work with normal funnel from shops.
- ✓ Normal funnel is not includes in this set.



Comparison:

OLD TYPE



- ✗ Need one hand to hold the funnel
- ✗ Barriers make difficult refilling.

NEW TYPE



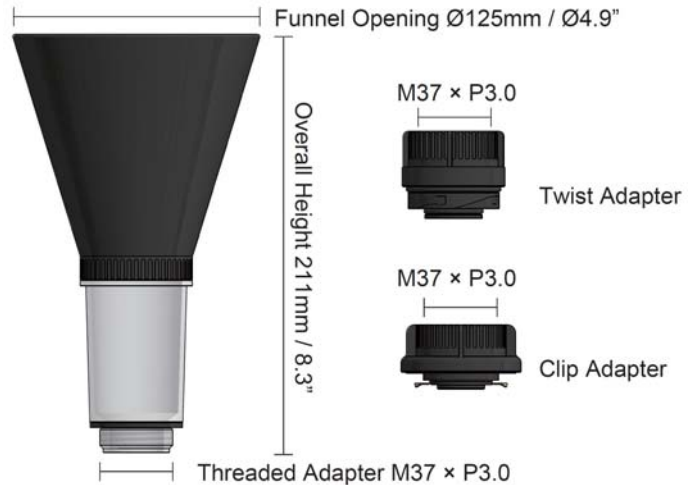
- 👍 No spilling
- 👍 No mess



KA-6978VW Oil Funnel For Volkswagen

- Screw-on type oil funnel prevents unsafe oil spills.
- Transparent lower chamber clearly shows oil flow process.
- Large oil passage allows oil to be refilled more rapidly.
- Includes adapters for most common vehicles for Audi, BMW, Mercedes and Volkswagen.
- **Application:** Audi, BMW, Chrysler, Jeep, Land Rover, Lexus, Mercedes, Opel, Scion, SEAT, Skoda, Toyota, Vauxhall, Volkswagen.

Different engines have different configurations below oil filter neck. Some engines might have parts that create a baffle (as the images shown on right), and this can make it difficult for conventional funnels to stabilize on oil filler neck, or one hand is needed to hold against the funnel when refilling. This funnel is to solve these problems. A seamless connection can be created to prevent unsafe oil spills on engine or floor.



1. Choose a suitable adapter (clip or twist).
2. Connect the adapter to the transparent chamber.
3. Connect the adapter to oil filler neck on car (Fig. 1 & 2).





KA-2154 Mercedes Dodge Jeep Oil Filter Wrench - 84mm

- Size: 84mm x 14 point x 1/2"Dr.
- Designed for removing the oil filter housing on various engines when changing the oil and oil filter.
- Application: 2007 Dodge sprinter, 2007 Mercedes Benz E320, 2007 Jeep Cherokee with 3.0L V6 diesel engine



KA-2156 Benz Oil Filter Wrench - 74mm

Size: 74mm x 14 point

Application: Mercedes M102, M103 etc...

Other application: Audi, VW Golf, and new body Jetta, TDI(diesel) and the following gas vehicles, Passat, Golf and Jetta with 1.8 turbo and 2.0 liter, Rabbit, Dasher, Scirocco and New Beetle.



KA-3715 Oil Filter Wrench For MAN

- Size: 135mm, 18 point, 12/"Dr.
- Application: MAN 18~48 tons truck.
Series F2000, FE and TGA engine(406, 410, 414, 440, 460)



KA-2080 2pcs Fuel Filter Removal Tools

- Use to disassemble/remove fuel filter.
- For Alfa Romeo, Chevrolet, Citroen, Fiat, GM(Vauxhall/Opel), Peugeot, Saab and Suzuki with diesel 1.3, 1.9, 2.0, 2.2, 2.3, 2.8, 3.0 engine

Operation:

1. Remove the fuel filter housing, place white plastic holder in a vice using the flats. (do not tighten up)
2. Filter housing inside the holder, now tighten vice(no more than 30Nm).
3. Fit the filter key to the tip of the housing and undo, remove old fuel filter.(reverse process)



KA-5260 5pcs Oil Filter Removal Tools

For oil filter bodies where access demands an off set drive be used.

Size: 3/8"Dr. x 24mm / 27mm / 32mm / 36mm / 38mm.

Special design for tight confined areas Made in Sheffield.

Application:

- 24mm BMW N65 5/7 series
- 27mm Mercedes-Benz A class, Ford Fiesta 1.4/1.6 TDCI, Renault 1.5/1.9/2.2/2.5dci, BMW Mini, Ford Transit 2006 2.2/2.4/3.2
- 32mm Vauxhall / Opel Astr-G / Corsa-B / Volkswagen Polo 1.2 Transporter T5 1.9 2004, Audi A6 3.2 TSi V6 2004, Rord Transit 2.0/2.4 2000-2006
- 36mm Mercedes Benz 220d/E220d/M604/C250d/E250d/M605/E300d/M606 mb MB Transporter M616/116MB/100 transporter BMW M52 3 series, 5 series M60 6cyl 5/7/8 series M73 12 cyl 7/8 series Vauxhall/Opel Vectra- B di 16v 98 onwards
- 38mm Volkswagen Transporter T5, Lupo 1.2 TDi, Toureg TDi, 38mm 2.0/2.2 dti
- 38mm Vauxhall/Opel Astra, Zafira



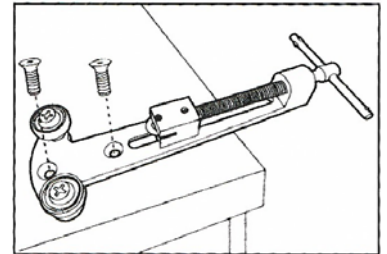
KA-2896 Oil Filter Cutting System

- 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-4462 Oil Filter Cutter Tool

- This tool is designed for cut oil filter before recycle it.
- Two bearing design is save power and more easily when rotary the oil filter.
- The material of blade is SKH9, main body is aluminum alloy steel, more light, more sharp and stronger construction.
- This cutter incorporates a longer plate that allows cutting filters from 60mm to 140mm in diameter.



KA-5278 Fuel Tank Wrench (VAG)

- Designed to remove and install the fuel tank locking ring.
- 120mm internal diameter with 3 slotted teeth to grip ring.
- OEM Ref. T10202 (3087)
- Application (2000~):
 - Audi – A3, A4, A6, A7, A8, Q3, Q5, Q7, R8, TT.
 - VW – Polo, Beetle, Golf, Golf Plus, Golf Cab, Jetta, Eos, Scirocco, Passat, Passat CC, CC, Sharan, Touran, Tiguan, Touareg, Phaeton, Caddy, Transporter including LCV models.
 - Porsche – Cayenne.



KA-4464 6pcs 3/8" Dr. Oil Filter Socket Set

- The complete set covering a wide range of filters including Mann Mahle and Knecht.
- Size: 24, 27, 32, 36, 38, 42mm
- Application: BMW Mini, BMW, Mercedes-Benz A Class, Vauxhall Vectra 2.0, Astra-G, Corsa-B, Zafira, Ford, Volkswagen VR6, Audi.



KA-3286 Fuel Gauge & Pump Sender Collar Wrench

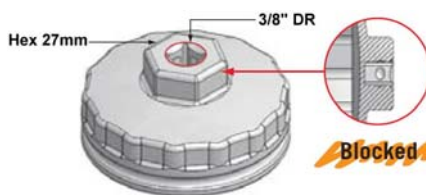
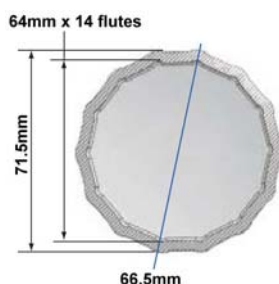
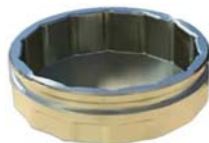
- An innovative tool for the removal and fitting of fuel gauge sender collars.
- Adjustable to suit most collar from 89 to 170mm.
- Lock in place and then turn with a 19mm wrench or socket.
- A damage free method of removing & re-fitting collars.



KA-3730 3pcs Honda Oil Drain Cup Set

- Drain old and hot engine oil without danger.
- Pleasant oil changing works.
- Application: Acura, Buell, Chevrolet, China Car, Daihatsu, Dodge, Eagle, Fiat, Ford, Geo, Honda, Infiniti, Isuzu, Kawasaki, Lancia, Mazda, Mercury, Mitsubishi, Nissan, Opel, Peugeot, Plymouth, Polaris, Pontiac, Proton, Saturn, Scion, Subaru, Suzuki, Toyota, Victory, Volvo, Yamaha, Zastava

Specification:



| Rubber Drain Cup | |
|------------------|---------|
| Material | NBR |
| Opening size | 92mm |
| Drain volume | 170c.c. |

| Oil Filter Removal Bar | |
|------------------------|-----------------------|
| Material | Steel S45C |
| Size | M20 x P1.5 3/4\"/> |

| Oil Filter Wrench With Slot | |
|-----------------------------|-----------------|
| Material | Aluminum |
| Size | 64mm x 14flutes |
| Drive | 3/8\"/> |

Instruction:

Step 1: install the drain cup onto oil filter and install 3/8\"/>



Step 2: Turn the wrench anti-clockwise to release oil filter slowly and drain the old oil.



- ✔ no mess
- ✔ less touch
- ✔ no danger

Step 3: Remove oil filter and full cup of dirty



Step 4: Install the oil filter removal bar in the oil filter threaded hole and 3/8\"/>



When Oil Filter is NOT hang upside down:

Step 1: Remove rubber cup and oil filter wrench



Step 2: Install oil filter wrench onto oil filter and remove it.



Please contact us for more application.



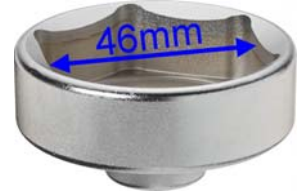
KA-2804K Fuel Tank Sender Spanner Set

- For removing and replacing the plastic retaining ring on the sender unit on fuel tanks.
- Select two or three jaw.
- Size range: 75mm ~ 160mm , 80mm ~ 120mm , 110mm ~ 170mm.
- Drive 24mm



KA-3216-46 Oil Filter Socket

- 3/8" x 46 x 30mmL
- The special designed for the operation of the filter housing cap when replacing the AD blue filter on Mercedes-Benz commercial vehicles with blue TEC engines.
- Suitable for these vehicles as below: ACTROS, ATEGO, AXOR, ECONIC



KA-5303 SCR / Fuel Tank Locking Ring Tool (VAG group / BMW)

VAG group

- This tool is designed to remove and install the SCR Tank locking ring.
- For 6-cylinder 3.0L 4V TDI common rail engine Audi A6 2011>, A7 Sportback 2011>, A8 2010>
- OEM Ref. T40268

BMW

- This tool is designed to remove and install the fuel tank locking ring.
- For BMW F01 / F02 / F25
- OEM Ref. 161190



KA-5316 16pcs 3/8" Oil Drain Plug Key Set

- Suitable for sump plugs, engines, gear box and back axle.
- Hex key 8/10/12/13/14/17mm
- Square: 8/10mm
- Star (Torx): T45
- Sockets: 13/14/17/18/19/21mm



KA-2211 Fuel Tank Lock Ring Wrench

- Great design allows tool to fit fuel tank lock rings on Ford, Chrysler, GM vehicles.
- Easily removes and installs lock ring on the fuel tank when servicing the fuel pump or fuel sending unit
- Application: 2004-newer Ford F-150 trucks. 2004-newer Chrysler / Dodge mini-vans, PT Cruiser, Dakota, Durango. 2004-newer Chevy 1/2-ton and 3/4-ton trucks.
- Used with a 1/2" Dr Ratchet or breaker bar.





KA-3627 Oil Filter Wrench With Handle

- Allows quick and easy removal of sized oil filters.
- Ø76mm / 12Ribs.

Application:

Dacia: Logan, Sandero

Fiat: Ducato, Scudo, Ulysse, Stilo, Multipla, all Doblo JTD models

Mercedes(all with Purflux Filter LS 918): Especially for Mercedes with 6-cylinder petrol engine M102 and M103

Renault: R5, Twingo, Rapid with C-Petrol engines

Clio, Kangoo with E-Petrol engines

R19, R21, Espace I+II+III, Laguna with F-Petrol engines

Megane, Kangoo with K-Petrol engines (filter No. 77 00 873 583)

Trafic with J-Petrol engine (filter No. 77 00 720 978)

Trafic (1.9 diesel), Master (1.9 diesel)

Opel / Vauxhall: Vivaro

Nissan: Primastar

Land Rover: Defender 2.5L Diesel – DD5 (filter No. LPX 100 590)

Peugeot (with Purflux-filter): 307

Honda: Prelude (BA4 2.0 16V engine)

Ford(with 1.8 diesel-engines Motorcraft-filter EFL 344): Fiesta, Escort, Orion, Mondeo, P100



KA-3627A Oil Filter Wrench With Handle

- Allows quick and easy removal of sized oil filters.
- Ø66mm / 6Ribs.

Application:

Fiat: Punto, Idea(1.2)

Renault: Clio(1.2), Express, Kangoo, Rapid, Twingo, Clio with D-Petrol engine(filter No.77 00 869 029)



KA-3627B Oil Filter Wrench With Handle

- Allows quick and easy removal of sized oil filters.
- Ø96mm / 18Ribs.

Application:

Audi: A4 (with TDI-engines)

VW: Touareg (with V 10 TDI engines)

Passat ('97-onwards with TDI engines)

Renault: Master (2.5 and 2.8 D/TD)

Laguna, Safrane, Espace III (2.2 D)

R19, Rapid and Megane (1.9 and 2.1 D/TD)

Opel/Vauxhall: Movano (2.5 and 2.8 D/TD)



KA-3769 Fuel Tank Lid Wrench For Benz

- Size: 1/2" drive with 22 points.
- External diameter 190mm, internal diameter 145mm.
- Application:
Mercedes Benz W164, W251



KA-3819 Diesel Filter Wrench For Hyundai / Kai

- The wrench is designed specifically to service the fuel filter on Hyundai / Kai vehicles with 2.0L or 2.2L CRDi engine.
- 1/2" Dr.

| Hyundai | |
|---------------|-------|
| Santa Fe (TM) | 2018~ |
| Palisade | 2018~ |
| Kia | |
| Sorento (UM) | 2018~ |



KA-5337A Fuel Tank Locking Ring Tool

- This specialized tool is designed to remove and install the fuel tank locking ring of FCA group and Ford.
- Also allows the removal of the locking ring without lateral ribs.
- 1/2"Dr. x 21mm

| | |
|------------|---|
| Alfa Romeo | GT, 147, 156, 159, 166 |
| Fiat | Grande Punto, Idea, Linea, Multipla, Panda, Nuova 500, Nuova Bravo, Panda 4x4, Punto, Sedici, Doblo, Croma, Stilo, Ducato, Doblo Cargo, Idea Van, Grande Punto Van, Multipla Van, Panda Van, Stilo Van, Scudo |
| Lancia | Y, Ypsilon, Musa Thesis |
| Ferrari | 360 Spider, 430 Coupe, 430 Scuderia, 430 Scuderia Spider 16M, 430 Spider, 575 Superamerica, 575M Maranello, 599 GTB Fiorano, 612 Scaglietti, Enzo |
| Maserati | 4200 Coupe, 4200 Gransport, 4200 Spyder, GranTurismo, Quattroporte |

KA-5336 Diesel Filter Wrench For Volvo

Special designed to remove and install fuel filter on Volvo diesel engine.
Suitable for Volvo C30, C70, S40, S60, S80, V50, V60, V70, XC60, XC70, XC90.
OEM Ref. 9997084



KA-5337 Fuel Tank Locking Ring Tool For Volvo

- This specialized tool is designed to remove and install the fuel tank locking ring on Volvo diesel or petrol engine.
- Suitable for C30 / C70 (06~) / S40 (04~) / S60 (11~) / S80 (07~) / S80L / V40 (13~) / V40 Cross Country / V50 / V60 / V70 (08~) / XC60 / XC70 (08~)
- OEM Ref. 9997093
- Used on the following engines:
B4164S3, B4164T, B4164T3, B4164T4,
B4184S11, B4184S8, B4204S3, B4204S4,
B4204T11, B4204T12, B4204T15, B4204T16,
B4204T7, B5204T8, B5204T9, B5244S4,
B5244S5, B5254T10, B5254T11, B5254T12,
B5254T14, B5254T3, B5254T6, B5254T7,
B5254T8, B6324S, B6324S2, B6324S4,
B6324S5, D4162T, D4164T, D4204T,
D4204T2, D4204T5, D5204T, D5204T2,
D5204T3, D5204T4, D5204T5, D5204T6,
D5204T7, D5244T10, D5244T11, D5244T13,
D5244T14, D5244T15, D5244T17, D5244T19,
D5244T4, D5244T5, D5244T8, D5244T9.



KA-5339 Fuel Tank Locking Ring Tool for Volvo

- This specialized tool is designed to remove and install the fuel tank locking ring on all Volvo P2 platform vehicles.
- Used on the following engines:
B5204T4, B5204T5, B5234T3, B5234T7, B5244S, B5244S2,
B5244S6, B5244SG, B5244SG2, B5244T3, B5244T4, B5254T2,
B6284T, B6294S, B6294S2, B6294T, B6304S3, B8444S,
D5244T, D5244T2, D5244T3, D5252T MSA 15.8, B5204T3.
- OEM Ref. 9995720

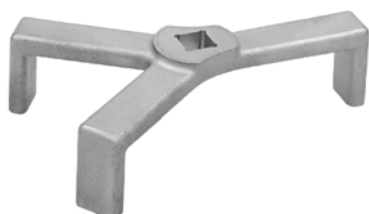


| Volvo P2 platform | |
|-------------------|-------------------------|
| 1998 - 2006 | S80 (P23) |
| 2000 - 2009 | S60 (P24) |
| 2000 - 2008 | V70 (P26E), XC70 (P26L) |
| 2003 - 2014 | XC90 (P28) |

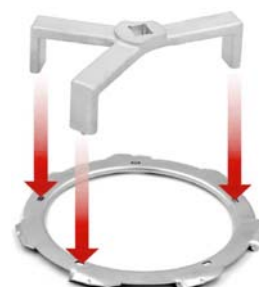
KA-5340

Fuel Tank Locking Ring Tool for Opel, Vauxhall, Saab, Saturn

- This tool is designed to remove and install the fuel tank locking ring.
- OEM Ref. KM-797.
- For Opel, Vauxhall, Saab, Saturn



| Opel / Vauxhall | |
|---|--|
| Astra-G (1998~2012), Astra-H (2004~2012) | |
| Zafira-A (1998~2012), Zafira-B (2005~2012) | |
| Corsa-C (2001~2012), Vectra-C (2002~2012) | |
| Signum (2003~2012), Tigra-B (2004~2012) | |
| Saab | |
| 9-3 (2003~2011) | |
| Engine Code: B207, B284, D223L, Z19DT, Z19DTH, Z19DTR | |



KA-5341 Oil Filter Wrench (2.5L diesel)

- Allows quick and easy removal of the oil filter used on Nissan 2.5L YD25DDTi diesel engine.
- For VW, Audi, Skoda, Seat (2.4 / 2.6 / 2.8 TDI) and Renault Maxity, etc.
- For Oil Filter with Ø 92.8mm
- 3/8" drive
- Suitable for : Nissan / NV350 Caravan (E26)
Nissan / NV350 Urvan
Isuzu / Como
Mitsubishi Fuso / Canter Van



| Nissan NV350 Caravan (E26) |
|--|
| CW4E26/CW8E26 · YD25DDTi · diesel turbo · 4WD included |
| VW2E26/VW6E26 · YD25DDTi · diesel turbo · 4WD included |
| DW4E26 · YD25DDTi · diesel turbo |
| Isuzu Como |
| JCW4E26/JCW8E26 · YD25DDTi · diesel turbo · 4WD included |
| JVW2E26/JVW6E26 · YD25DDTi · diesel turbo · 4WD included |
| JDW4E26 · YD25DDTi · diesel turbo |



Oil Filter Wrench

- For Toyota, Lexus, Scion, Daihatsu, Subaru, Pontiac
- The wrench is designed specifically to service Toyota vehicles with a cartridge type oil filter.
- The tool will not slip or get stuck on the filter housing unlike all the generic tools out there.
- Drive: 3/8" Dr.



KA-7833A 71mm
KA-7833B 80mm



KA-5435 Fuel Filter Cover Mounting Tool for VAG Group

- The fuel filter cover mounting tool is designed to press the fuel filter cover evenly and in a torsion-free manner into the seal seat in the fuel filter housing.
- Application:
■ New deight for both of "UFI" and "MANN" fuel filter housing.
■ VW, Audi, Skoda and Seat diesel vehicles.
■ Also suitable for multicar M27 / M28.



KA-5436 Oil / Fuel Filter Removal Tool For Man, Mahle, Knecht

- 3/8" Dr.
- For VW, Audi, Seat, Volvo and other model oil/fuel filters where space is restricted.
- The strong, welded T-shaped head that engages the filter removal slot found in Mann / Mahle / Knecht:
Mann - W920, W920/7, W930, W930/9, W940, W940/15, W940/20, W940/25, W950, W950/1, W950/5, W962/2, W962/14, W1130/1, WK940/4, WK950/4, WK962/5, WP931, WP962/3...
Mahle / Knecht - OC51, OC83, OC214...





KA-5430 Radiator / Coolant Cap Wrench For BMW

- 3/8" Dr.
- Can be used to loosen stubborn caps on radiators and reservoirs.
- Especially suitable for use in tight spaces.
- Works on BMW vehicles:
E60, E61, E63, E64, E70, E71, E72, E81, E82, E84, E87, E88, E89, E90, E91, E92, E93, F01, F02, F03, F04, F06, F07, F10, F11, F12, F13, F15, F16, F18, F20, F21, F25, F26, F30, F31, F32, F33, F34, F35, F36, F80, F82, F83, F85, F86.



KA-5429

Radiator / Coolant Cap Wrench For Ford, Land Rover, Mazda, Volvo

- 3/8" Dr.
- Can be used to loosen stubborn caps on radiators and reservoirs.
- Especially suitable for use in tight spaces.



Application:

| Ford (1224233, 130114, 3M5HB100AC, 3M5H8100AD) | | | |
|--|-----------|-----------------------|-----------|
| B-Max | 2012-2016 | Transit Custom 250 | 2012-2016 |
| C-Max | 2007-2016 | Transit Custom 270 | 2012-2016 |
| Courier Pick UP | 2001-2011 | Transit Custom 290 | 2012-2016 |
| Ecosport | 2012-2016 | Transit Custom 300 | 2012-2016 |
| Fiesta | 2000-2016 | Transit Custom 310 | 2012-2016 |
| Fiesta Van | 2008-2016 | Transit Custom 330 | 2012-2016 |
| Focus | 2004-2016 | Transit Custom 340 | 2015-2016 |
| Focus C-Max | 2003-2007 | Transit Tourneo | 2006-2014 |
| Focus CC | 2006-2011 | Ranger | 2011-2016 |
| Focus Estate Wagon | 2004-2016 | LAND ROVER (LR000243) | |
| Focus Van | 2004-2011 | Discovery Sport | 2014-2016 |
| Galaxy | 2006-2015 | Freelander | 2006-2014 |
| Galaxy Van | 2006-2015 | LR2 | 2006-2016 |
| Grand C-Max | 2010-2016 | Range Rover Evoque | 2011-2016 |
| Grand Tourneo Connect | 2013-2016 | MAZDA (LF5015205A) | |
| Kuga | 2008-2016 | 2 | 2007-2014 |
| Mondeo | 2007-2016 | 3 | 2003-2016 |
| Mondeo Estate Wagon | 2007-2016 | 3 Sport | 2012-2016 |
| S-Max | 2006-2014 | 5 | 2010-2016 |
| Tourneo Connect | 2013-2016 | Axela | 2003-2009 |
| Tourneo Courier | 2012-2016 | BT50 | 2011-2016 |
| Transit 250 | 2011-2014 | VOLVO (30680002) | |
| Transit 260 | 2006-2014 | C30 | 2006-2013 |
| Transit 280 | 2006-2014 | C70 | 2005-2013 |
| Transit 290 | 2013-2016 | S40 | 2003-2012 |
| Transit 300 | 2006-2014 | S60 | 2010-2016 |
| Transit 310 | 2013-2016 | S80 | 2006-2016 |
| Transit 330 | 2006-2016 | V40 | 2012-2016 |
| Transit 350 | 2006-2016 | V40 Cross Country | 2012-2016 |
| Transit 370 | 2006-2016 | V50 | 2003-2012 |
| Transit 410 | 2013-2016 | V60 | 2010-2016 |
| Transit 430 | 2006-2016 | V60 Cross Country | 2015-2016 |
| Transit 460 | 2006-2016 | V70 | 2007-2016 |
| Transit 470 | 2013-2016 | XC60 | 2008-2016 |
| Transit Connect | 2013-2016 | XC70 | 2007-2016 |
| Transit Courier | 2014-2016 | | |

Adjustable Oil Filter Pliers for Truck

- Specially designed for removing screw-on oil filters quickly and easily.
- Serrated jaws are locked into position and provide maximum grip on oily filters.
- Non-slip soft grip for added comfort and control.



| | | |
|----------|-----|----------------------|
| KA-5426A | 10" | Capacity: 45mm~89mm |
| KA-5426B | 12" | Capacity: 54mm~108mm |
| KA-5426C | 14" | Capacity: 57mm~127mm |
| KA-5426D | 18" | Capacity: 95mm~178mm |

KA-5388 Fuel Tank Lid Tool For Toyota, Lexus

- Special designed to remover and install the fuel tank lock rings for most Toyota and Lexus.
- 24PT x 1/2" Dr.
- Application range:

| | |
|--|--|
| Toyota: Corolla, Land Cruiser, Matrix, Tacoma, Yaris s, Vios. | |
| Fuel pump gauge retainer: 77144-04010, 7714-52040 | |
| Corolla: | 2004~2014 CE, ECO, ECOSW, LE, S, STD, XR, XR; 4Cyl 1.8L, 4Cyl 5.7L |
| Land Cruiser: | 2008~2014; 8Cyl 5.7L |
| Matrix: | 2004~2014 CE, LE, S, STD, XR, XRS; 4Cyl 1.8L, 4Cyl 2.4L |
| Tacoma: | 2005~2014; 4Cyl 2.7L, 6Cyl 4.0L |
| Yaris S, Yaris Base: | 2007~2011; 1.5L L4 |
| Vios: | 2014~ |
| Lexus: RX330, Rx350, RX450H | |
| Fuel pump gauge retainer: 7714-48020 | |
| RX330: | 2004~2006; 6Cyl 3.3L, 6Cyl 3.5L |
| RX350: | 2007~2014; 6Cyl 3.3L, 6Cyl 3.5L |
| RX450H: | 2010~2014; 6Cyl 3.5L |

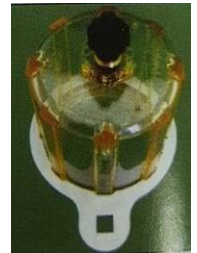
**KA-5393 Truck Oil Filter Wrench for Volvo**

- Designed for removing and installing the oil filter on Volvo truck.

| Outer Ø mm | Point | □ |
|------------|-------|------|
| 107 | 15 | 1/2" |

**KA-5394 Diesel Fuel Filter Wrench For UD and Volvo**

- Specially designed for removing the oil filter.
- Applicable: UD and Volvo full-size truck.
- Engine Type: UD GH5 , GH7
- Operated with 1/2" Dr. wrench.

**KA-5396 Oil Mist Separator Wrench for Hino**

- Hino oil mist separator wrench (8 RIBS, 107mm)
- Using the oil-water separator wrench.
- Looped handle.
- Japanese truck repair tool.
- Specialty tools
- Application range: Hino truck year 2003~2006 or after year 2010.
- Genuine No.: 103251, S23401-11840-A

| Inner Ø mm | Outer Ø mm | H mm | The thickness |
|------------|------------|------|---------------|
| 107 | 116 | 172 | 16 |

**KA-5402 FUSO Oil Mist Separator Wrench**

- Fuso oil mist separator wrench (8RIBS, 109mm).
- Using the oil-water separator wrench.
- Looped handle.
- Japanese truck repair tool
- Specialty tool.
- Application range: FUSO 380 over 17 tons (Engine no 6M70) and bus. Mitsubishi all NEW CANTER eco-4 3.5, 6.7 and 6.9 tons.

| Inner Ø mm | Outer Ø mm | H mm | The thickness |
|------------|------------|------|---------------|
| 109 | 118 | 176 | 16 |





KA-5409 Truck Oil Filter Wrench For ISUZU

- Size: 1/2" Dr. x 1108mm x 6 PT.
- Use for removing and installing oil filter.
- Applicable: ISUZU 4.9T, 6.5T, 8.7T, 9.8T, 11T, 17T
HINO 17T (EURO 4)



Truck Oil Filter Wrench Stainless Steel

- Drain the engine oil into suitable container and clean around the oil filter housing.

| ITEM NO. | Product Specifications | Application |
|----------|------------------------|---------------------|
| KA-5422A | Dr. 1/2" , 70mm-80mm | SCANIA |
| KA-5422B | Dr. 1/2" , 80mm-90mm | TRUCKS |
| KA-5422C | Dr. 1/2" , 90mm-100mm | EUR / JAP TRUCK |
| KA-5422D | Dr. 1/2" , 100mm-110mm | VOLVO / HINO |
| KA-5422E | Dr. 1/2" , 110mm-125mm | FUSO (10.5~17 Tons) |
| KA-5422F | Dr. 1/2" , 125mm-140mm | MAN / SCANIA |



KA-5442 Oil Filter Wrench For Hyundai / Kai

- The wrench is designed specifically to service Hyundai / Kai vehicles with 2.0L or 2.2L diesel R-engine.
- Fit well and eliminate slipping and damage.
- 1/2" SQ Dr. hole to be used with torque wrench or ratchet wrench for extra leverage.



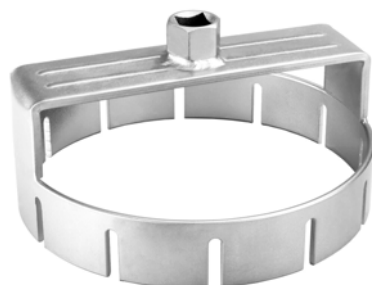
| Hyundai | |
|--------------------|-------|
| Tucson / ix35 | 2009~ |
| Santa Fe / Maxcruz | 2012~ |
| Kai | |
| Sportage (R) | 2011~ |
| Sorento (R) | 2010~ |
| Carnival / Sedona | 2010~ |



KA-5443

Diesel Filter Wrench For Ford Transit

- Special designed to remove and install fuel filter on Ford Transit 2.2L TDCi engine.
- 1/2" SQ Dr. hole to be used with torque wrench or ratchet wrench for extra leverage.
- Application: Ford Transit 2014~
Ford Transit 2006~2014
Ford Transit Custom 2012~
Ford Tourneo custom 2012~



KA-5444 Fuel Tank Locking Ring Tool (Fuel Pump Cap Tool)

- This specialized tool is designed to remove and install the fuel tank locking ring (Fuel Pump Cap) of FCA group.
- For Alfa Romeo / Fiat / Lancia / Ferrari / Maserati
- OEM Ref. 1.870.736.000
- Diameter: 150mm
- 1/2" SQ Dr. to be used to torque wrench or ratchet wrench for extra leverage.



| | |
|------------|---|
| Alfa Romeo | GT, 147, 156, 159, 166 |
| Fiat | Grande Punto, Idea, Linea, Multipla, Panda, Nuova 500, Nuova Bravo, Panda 4x4, Punto, Sedici, Doblo, Croma, Stilo, Ducato, Doblo Cargo, Idea Van, Grande Punto Van, Multipla Van, Panda Van, Stilo Van, Scudo |
| Lancia | Y, Ypsilon, Musa Thesis |
| Ferrari | 360 Spider, 430 Coupe, 430 Scuderia, 430 Scuderia Spider 16M, 430 Spider, 575 Superamerica, 575M Maranello, 599 GTB Fiorano, 612 Scaglietti, Enzo |
| Maserati | 4200 Coupe, 4200 Gransport, 4200 Spyder, Gran Turismo, Quattroporte |


KA-5097 Oil Filter Offset Wrench Set

- T-shaped/24mm/27mm/29mm/30mm/32mm/36mm/38mm.
- Low profile design with offset drive .
- Special design for right confined areas.
- For oil filters where access is limited.


KA-8408 Diesel Filter Wrench For VW, Volvo

- Special designed to remove and install the fuel filter on VW/Volvo engine.
- 1/2" drive.
- Suitable for VW Crafter 5-cyl. Diesel engine from 2006.
Volvo C30, C70, S40, S60, S80, V50, V60, XC60, XC70, XC90.
- OEM Ref. VW T50011 / Volvo 9997084.


KA-4523 Diesel Oil Filter Wrench For FUSO 401

- Use for removing the plastic case when replacing the filter.
- Size: 1/2" Dr. x $\Phi 96.5$ x 12PT

Applicable: FUSO 401/ Daewoo Bus.


KA-5476-25 Low-Profile 3/8" Dr. Cummins Oil Filter Socket - 25MM

- Extra low-profile 21.15mm height required for minimal clearance.
- Chrome-vanadium steel for extra strength.
- 3/8" Dr. x 25mm
- Services Fleetguard and some K&N filters on medium-duty vehicles with Cummins engines, including: Motorhomes, Buses, Light-Duty & Medium-Duty Trucks.

Warning: when installing housing cap, tighten to the specified torque as shown on the housing cap. Usually at 25Nm or 18 ft.lb. (Over-tightening may cause leakage and may damage the housing)


KA-5476-28 Low-Profile 3/8" Dr. Cummins Oil Filter Socket - 28MM

- Extra low-profile 21.15mm height required for minimal clearance.
- Chrome-vanadium steel for extra strength.
- 3/8" Dr. x 28mm
- For 6.7L Dodge Cummins fuel filter canister (2010 & up).

Warning: when installing fuel filter canister, tighten to the specified torque as shown on the canister.

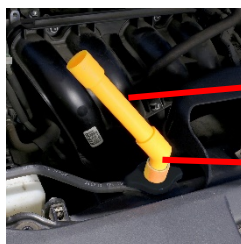

KA-3799 12" Oil Filter Pliers

- Two stage action that automatically adjusts to the size of the filter, then tightens.
- Layered steel construction for added strength.
- Features serrated jaws to maximize grip & non-slip handles for added control.
- Capacity: 60-120mm diameter.



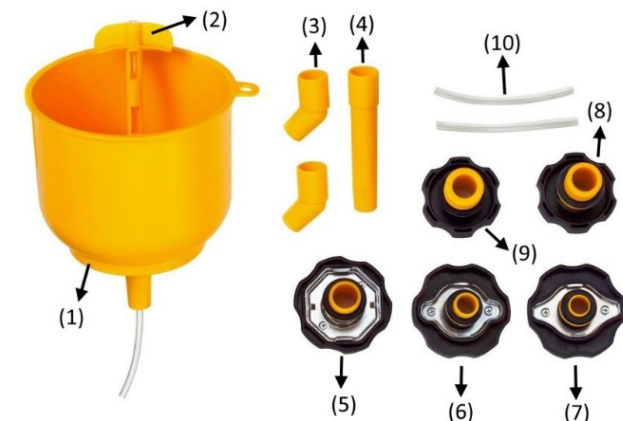
KA-3736 Coolant Filling Kit

- Suitable for most cars and light trucks.
- Eliminates greasy & squeaky belts caused by coolant overflow.
- Well-Controls unattended filling of the cooling system.
- Includes a 45° elbow and a straight extension.



Straight extension gives access to caps located under shrouds or in fender wells.

45° elbow to be used on radiator caps that are placed at an angle.



| No. | Description | No. | Description |
|-----|-------------------------------------|-----|-------------------------------------|
| 1 | Funnel | 6 | Small cap cooling system adapter |
| 2 | Fluid Stopper with vent | 7 | Small cap cooling system adapter |
| 3 | 45° Angled adapter | 8 | Threaded cap cooling system adapter |
| 4 | Straight extension adapter | 9 | Threaded cap cooling system adapter |
| 5 | Standard cap cooling system adapter | 10 | Hose |

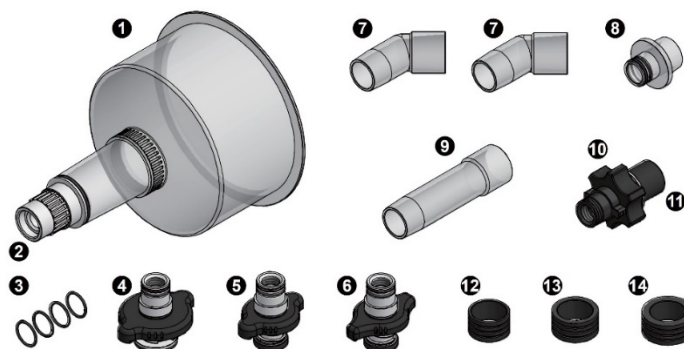
KA-3736T Universal Coolant Filling Kit -Semi-Transparent Reservoir

- Saves time! Eliminates spills and mess!
- Eliminates trapped air pockets which usually cause erratic cooling system and heater performance.
- Controls unattended filling of the cooling system.
- Includes a set of universal expansion joint which is suitable for Ø32~ Ø52 mm.
- Suitable for most car and light trucks.

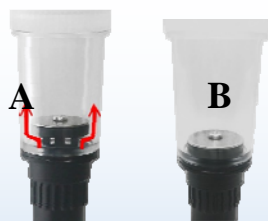


KA-3736A 12pcs Coolant Refilling Funnel Set With Extension Pipes

- For anti-spill coolant refilling and air bleeding.
- Includes 4 extension pipes for confined space or tricky angles.
- Transparent lower chamber displays the amount of air bubbles remaining in the radiator.
- Includes adapters with nylon covers to reduce heat transfer resulted from air bleeding.
- Special design of connector to adapters provides anti-spill feature.
- Funnel capacity: 1,600ml/54.1oz. Large capacity suitable for works on trucks and heavy duty vehicles.



Anti-Spill Feature:



A: When the funnel is connected to a radiator adapter, the one-way valve is pushed outward, allowing coolant to pass freely.

B: When the funnel is disconnected from a radiator adapter, the one-way valve shuts off, preventing coolant from flowing out.

| No. | Description | No. | Description |
|-----|---|-----|----------------------------|
| 1 | Coolant funnel (1.6L / 54.1 Oz) | 8 | Connector pipe |
| 2 | Outlet size Ø 56.8mm | 9 | 124mm long connector |
| 3 | Replacement o-ring Ø20.4 x 2.0mm (4pcs) | 10 | Universal radiator adapter |
| 4 | No. 3 radiator adapter | 11 | Rotate to expand |
| 5 | No. 4 radiator adapter | 12 | Ø35 x 30mm rubber ring |
| 6 | No. 5 radiator adapter | 13 | Ø39.5 x 30mm rubber ring |
| 7 | 135° offset adapter (2pcs) | 14 | Ø44 x 30mm rubber ring |



KA-4464S 3/8" Dr. Oil Filter Socket -34L

Contents : 24 ,27 ,29 ,32 ,36, 38 mm

Application:

- 24mm: Oil filter socket for use on BUICKS with WT-V6 engines, RENDEZVOUS ULTRA, LACROSSE CSX, CADILLAC WT-V6-CTS, STS, SRX and SATURN L3000.
- 27 mm : Oil Filter Socket for use on CADILLAC STS 3.2L V6 & MERCEDES BENZ 1.8L 14 and VW engines.
- 29 mm : Oil Socket for use on DODGE CUMMINS Fuel Filter Housing 14700.
- 32 mm : Oil Socket for use on GM ECOTEC and SAAB and SATURN engines.
- 36 mm : Oil Socket for use on AUDI and VW MODELS and BMW M52, M60, M70, MB, OM604, OM605, OM606 and VOLVO and FORD Trucks engines.
- 38 mm : Oil Filter Socket fits VAUXHALL VECTRA 2.0L Diesel engines.



KA-4523MZK Diesel Filter / Sensor Wrench 2pcs/set - for Mazda

- Designed to service the Diesel Filter/ Sensor on the Mazda SKYACTIV-D2.2 (SH-VPTS & SH-VPTR)
- Application: 2.2L Diesel CX-5, CX-8, Mazda 6 (Atenza), Mazda 3 (Axela)



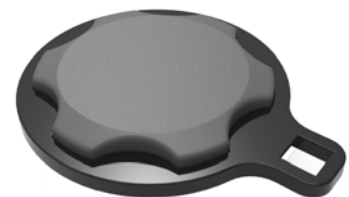
KA-3608V Bayonet Ring Tool for Air Dryer Cartridge (KNORR-BREMSE)

- For Releasing and Tightening the Bayonet Ring on Air Dryer Cartridge
- Application: Volvo FH/FM Truck - EURO 6
Renault K,C & T Range - EURO 6



KA-5430D Oil Filler Cap Wrench for Dodge

- Easily loosen stubborn oil filler caps by providing leverage.
- Use with 3/8 square drive tool. Works great in hard-to-reach areas.
- Application: many Dodge Ram, Dakota and Durango, some Jeep Liberty, Grand Cherokee and Commander with threaded plastic oil filler caps.



Oil Service Wrench

For the oil filter & oil drain plug gearbox, differential oil pan on various French passenger cars.

Material: CR-V

KA-7780PL1

- Size: M10 Female x 8mm Square Male
- Length: 280mm



KA-7780PL2

- Size: M10 Female x 10mm Square Male
- Length: 245mm



KA-7780PL3

- Size: 8mm Square x 8mm Square
- Length: 220mm



KA-7780PL4

- Size: 12 Hex x 10mm Hex
- Length: 215mm



KA-7780PL5

- Size: 10mm Square x 10mm Square



KA-7780PL6

- Size: 12mm Hex x 12mm Hex



KA-7780PL7

- Size: 8mm Square x 8mm Square



KA-7780PL8

- Size: 14mm Hex x 17mm Hex



KA-7780PL9

- Size: 1/2" Sq x 1/2" Sq



KA-3668-30

30 Flute Oil Filter Wrench for Ford - 75mm

- Size: 30 Flute x 75mm x 41.5mm (H)
- 1/2" Drive
- Forged Steel
- Application:
Fits Motorcraft® FL-500S Oil Filter for Ford Edge, Escort, Escape, F-150, Mustang, Ranger, Taurus, Transit-150

How to use:

1. Use a 21 mm hex socket to connect a ratchet wrench and oil filter wrench, and turn counter-clockwise for removal.
2. Apply some engine oil on oil filter canister rim, and use the oil filter wrench for installation. Apply the correct torque as specified in the service manual.



30 Flutes holds the oil filter tightly!!

KA-3668-36

36 Flute Oil Filter Wrench for Ford - 93 mm

- Size: 36 Flute x 93mm x 46mm (H)
- 1/2" Drive
- Forged Steel
- Application:
Fits Motorcraft® FL-820S Oil Filter for Ford Crown Victoria, Excursion, Expedition, Explorer, F-150, Freestyle, Fushion, Thunderbird.

How to use:

3. Use a 21 mm hex socket to connect a ratchet wrench and oil filter wrench, and turn counter-clockwise for removal.
4. Apply some engine oil on oil filter canister rim, and use the oil filter wrench for installation. Apply the correct torque as specified in the service manual.



36 Flutes holds the oil filter tightly!!

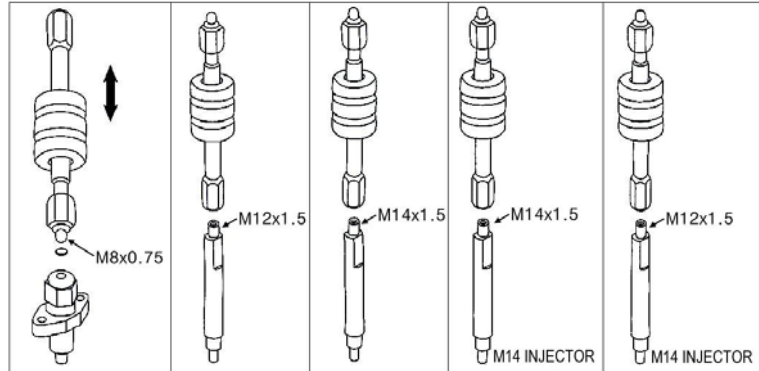




KA-2877N Diesel Injector puller

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-3636H



KA-3636J

Diesel Injector / Injector Seat Cleaner Set

Used to clean injector / injector seat when changing injector.
 Helps to avoid blow-back due to poorly seated injector.
 Suitable for a wide range of vehicles.

| Contents: | KA-3636H | KA-3636J |
|---|----------|----------|
| 15mm*19mm Flat Reamer, for various vehicles | • | • |
| 17mm*17mm Angled Reamer, for Fiat, Iveco, Ford, Mercedes CDI | • | • |
| 17mm*17mm Flat Reamer, for Bosch / Delphi (BMW, Ford, PSA, Renault) | • | • |
| 17mm*19mm Flat Reamer, for Bosch (Mercedes CRD) | • | • |
| 17mm*21mm Angled Reamer, for Fiat, Iveco | • | • |
| 18mm*21mm Flat Reamer, for various vehicles | • | • |
| 20mm*21mm Flat Reamer, for various vehicles | • | • |
| 15.5 mm*225mm Cutter, for Bosch | • | • |
| Pilot Hes 19mm*170mm | • | • |
| T handle 135*160mm 19 socket | • | • |
| 2.5mm Hex Key | • | • |
| Cleaner 19mm, for injector cleaner | • | -- |



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-8377A

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.

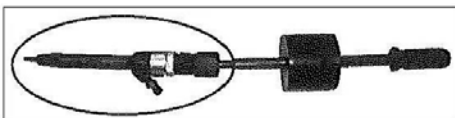
KA-3969 4PCS



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 nut
 - 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



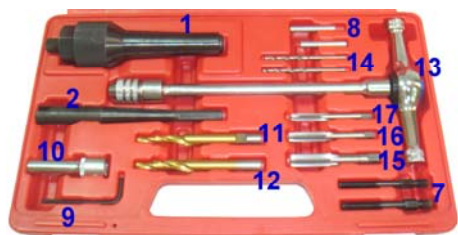
KA-3678

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-2074 KIA/Hyundai Injector Remover Kit

- Remove injector from most of Korean vehicles.
- Applicable vehicle:
Hyundai: STAREX, LAVITA, MATRIX, TRAJET, TERRACAN, SANTA FE(SM), LIBERO, AVANTE XD, GRANDEUR XG GETZ, TUCSON, NF SONATA, 06' ACCENT.
KIA: CARNIVAL, RIO, CARENS, CERATO, OPTIMA, PICANTO, SORENTO, SPORTAGE, GRAND CARNIVAL.

**KA-2074A Universal Injector**

- The kit is mainly for Bosch injectors and covers a long row of car types, suitable for Opel, Ford, Psa group, Fiat, Lancia, Alfa, Kia, Hyundai, Toyota, Mazda, Suzuki, Iveco, Volvo.
- For demounting of firing burnt injectors without demounting the cylinder head.
- Suitable for 1.3, 1.6, 1.9, 2.0 and 2.2 diesel engine.

KA-2089 Injector Removal Tool Model FOSI

For the extraction of extremely seized injectors. With the precisely tailored specifically for this.

Application designed extractor the injectors can be extracted hydraulically and / or mechanically.



| | Engine | Type |
|--------|---|--|
| Fiat | Multijet 1.3/16V – 1.6/16V – 1.9/16V – 2.0/16V – 2.3, 3.0 | 500, Punto, Grande Punto, Panda, Idea, Doblo, Stilo, Qubo, Bravo, Sedici, Croma, Ducato |
| Lancia | Multijet 1.3/16V – 1.6/16v – 1.9/16V – 2.0/16V | Ypsilon, Musa, Delta |
| Alfa | 1.3/16v – 1.6/16V – 1.9/16V – 2.0/16v | MiTo, 147, 159, BRERA |
| Opel | 1.3 CDTI – 1.9 CDTI – 2.0 CDTI | Corsa (C-D), Agila(B), Meriva, Astra(H), Astra GTC, Tigra(B), Combo Tour, Vectra(C), Insignia, Zafira(B) |
| Suzuki | 1.3 DDiS 16V – 1.9 DDiS 16V | Ignis, Splash, Swift, Wagon R+, Sx4, Grand Vitara |
| Ford | 1.3 Duratorq | Ford Ka '09 |
| Iveco | 3,0 I | Daily |
| PSA | 3,0 I | Boxer, Jumper |

KA-2160 Diesel Injector Puller

- Suitable for the removal of stubborn Bosch/Delphi diesel injectors.
- Set includes 6 adaptors for different removal methods.
- Features a flexible joint adaptor allowing the slide hammer to be used in restricted areas.

■ Content:

1. Connecting thread (injector nozzle): M18 x 1.5
2. Slide hammer: 4.8kg
3. Universal joint: M18 x 1.5
4. Pull spindle: M14 x 1.5, M16 x 1.0, M17 x 1.0, M20 x 1.0, M25 x 1.0, M27 x 1.0
5. Special bit insert hex 10mm: Ø7.6 x Ø4.8, Ø6.6
6. Special socket insert 25mm, 27mm, 29mm, 30mm hex.
7. Adaptor:

| size | application | size | application |
|-----------|--------------------|-----------|-------------|
| M14 x 1.5 | BMW M47 BMW211 CDI | M20 x 1.0 | Denso |
| M16 x 1.0 | Toyota 2.2 | M25 x 1.0 | Siemens |
| M17 x 1.0 | MB Bosch | M27 x 1.0 | Siemens |

**KA-2160A 14pcs Injector Extractor W/Slide Hammer**

- For Removing Stuck And The Seized Common-Rail Injectors Without Dismount The Cylinder Head.
- For All Injection Nozzle Cars.

Contents:

Slide hammer: 3.9KGS
 Adaptor: M14 x 1.5 for DELPHI
 Adaptor: M17 x 1 for Bosch
 Adaptor: M20 x 1 for DENSO
 Adaptor: M24 x 1 for SIEMENS
 Adaptor: M27 x 1 for SIEMENS
 Adaptor: M27 x 1.0 for Bosch injector nozzle
 Adaptor: Puller W/M14x 1.5P
 4 pcs Injection nozzle socket 100L-25-27-29-30mm 6PT

**KA-2165 Diesel Injector Nozzle Extractor Set**

Extraction injectors without dismantling the engine.

Extraction Bosch injectors.

For CDI engines 2.1 L and 2.2 L

Applicable Benz for Vito, Sprinter, Viano, C and E class, CLK, CLK.



KA-1053 Multi Voltage Glow Plug Tester

This glow plug tester is designed to test the condition of diesel engine glow plugs status quickly and easily on or off the vehicle be it a 12V or 24V system. Large graphics displays on its LCD screen makes it easy to read and understand the test results.



Content:

- ①. Ground Clip
- ②. Test Probe
- ③. LCD Display
- ④. Power Switch

Feature:

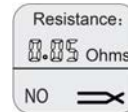
- Voltage supply by 9V battery.
- Tester probe / clip are easy to replace.
- Initialization for different testing probe / clip.
- Auto switch off.
- Rubber coating for tester protection.

Glow Plug Condition:

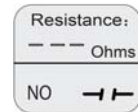
YES = GOOD



NO = SHORT CIRCUIT



NO = OPEN CIRCUIT



The tester will display the resistance of the glow plug, which will help user to identify the condition of the glow plug by comparing the value with the specification of the glow plug.

KA-8383 Glow Plug Tool Set

Removing damage / broken glow plugs from cylinder heads.

Including all required adaptors, centering and cleaning tools to safely remove the glow plug without damaging the engine.

Advantages: Time saving and cost saving
Operating easily.

Suitable for glow plug thread M10 x 1.0mm on VW-Audi V6 TDI engines:

- 2.5L (AFB, AKE, AYM, BAU, BCZ, BDG, BDH, BFC)
- 2.7L (BPP, BSG)
- 3.0L (ASB, BKN, BKS, BMK, BNG, BUN, BUG)

Tap Dimensions:

1/4" x 20UNC thread, M10 x 1.0mm thread M12 x 1.0mm thread
Glow plug applications: M10 x 1.0mm



PA-1940 9pcs 1/4" Dr. Impact Glow Plug Removal Kit

- Ideal for removal, grip the diesel engine glow plugs

Content:

1pc 1/4" Dr. Impact wrench for diesel glow plug removal with a nozzle

Free speed: 10,000 R.P.M

Torque: 1=10Nm, 2=20Nm, 3=3Nm, 4=4Nm

Net Weight: 0.8kgs

Air Inlet: 1/4"

Exhaust system: Rear

Sug. Air pressure: 90 PSI

5pcs 1/4" Dr. Impact Socket: 8, 9, 10, 11, 12mm

2pcs 1/4" Dr. Impact Extension Bar: 50 & 100mm

1pc 1/4" Dr. Impact Universal Joint

Metal: CR-MO, Finish: Manganese phosphate



* To be used with air compressor





KA-8038

Universal Injector Sealing Seat Cleaning & Milling Set

- This is the optimized version of the cleaning and milling tool set. The advantages are clearly obvious.
 - Can be used with HDi engines, diesel direct injection and common rail engines with BOSCH and DELPHI injectors.
 - Shaft cleaning by brushes with machine drive, sealing seat cleaning with cutter 120° Ø21mm; 17mm stepped, miller 0° Ø17mm continuous, miller 0° Ø19mm; 17.0mm; 15.0mm stepped.
 - Universal sealing ring puller for seized sealing rings.
- Material: S45C steel PH black and zinc finish



KA-8382A 27pcs Glow Plug Tool Set

Designed to remove damaged/broken glow plug from cylinder heads. Set includes all required adaptors, centering and cleaning tools to safely remove the glow plug without damaging the engine.

- 1PC – Core drill Ø8.1 for M9 × 1.0 thread
- 1PC – Thread tap M9 × 1.0
- 1PC – Core drill Ø 9.1 for M10 × 1.0 thread
- 1PC – Thread tap M10 × 1.0
- 1PC – Milling cutter for glow plug electrode
- 1PC – Thread tap M8 x 1.0
- 1PC – Core drill Ø 5.5 for NO.12 × 28 UNF thread
- 1PC – Thread tap NO.12×28 UNF
- 1PC – Adapter for power drill
- 1PC – Special drill Ø 2.6
- 2PC – Special drill stand
- 2PC – Tie bolt M8 × 1.0 (180mm long)
- 1PC – Glow plug extractor, M8 x 1 (Bearing)
- 1PC – Puller guide bushing
- 1PC – Puller holder M8x1.0 thread
- 3PC – Glow plug top remover 2.5, 3.5, 4mm
- 1PC – Jaws driver with T-handle
- 1PC – Drill guide bushing Ø17.5 × 38
- 1PC – Drill guide bushing Ø17.5 × 63
- 1PC – Cleaning brush: 5.3mm x 100mm, overall length: 300mm
- 1PC – Cleaning brush: 9mm x 100mm, overall length: 300mm
- 1PC – Cleaning brush: 10mm x 100mm, overall length: 300mm
- 1PC – 1/2" Sq. Drive Adapter (10mm HEX)



KA-8038S

17pcs Universal Diesel Injector Seats Shaft Chamber Cleaning Cleaner Tool Kit

- Efficiently cleaning injector seats, injector shafts, injector holes in cylinder heads, injector ports.
- Efficiently removing the combustion residues on shafts.
- After cleaning, it prevents the leakage of combustion gases by improving the fitting of injector.

Content:

- Wire brushes Ø18, 19, 21, 24 & 26
- Cleaning brush: 7.5mm*100mm overall length: 300mm
- Flexible Bit Holder x 1 pc
- Adaptor with Brush Holder x 1 pc
- Mounting Bar x 1 pc
- Silicone Nylon Brushes 15 & 20
- Sealing Plugs x 6 pcs



KA-8382

Damaged Glow Plug Removal & Cleaning Tool Set

- Removing damaged / broken glow plugs from cylinder heads.
- Suitable for glow plug thread M8 x 1.0mm
- Including all required adaptors, centering and cleaning tools to safely remove the glow plug without damaging the engine.

Contents:

1. Cleaning brush: 0.8mm x 100mm, overall length:300mm
2. Cleaning brush: 0.5mm x100mm, overall length:300mm
3. 1/4" drive stud puller 2.5mm
4. 1/4" drive stud puller 3.5mm
5. 1/4" drive stud puller 4.0mm
6. Thread tap: #12-28
7. Thread tap: M8 x 1.0
8. Drill 4.5mm
9. Drill 2.5mm
10. 3 Jaws driver with T-handle
11. 2pc locking pin ψ4.25*34mm
12. Ø7 x Ø4.5 milling tool
13. 2pc special glow plug pulling tool M8 x 1 / #12-28
14. Glow plug extractor, M8 x 1
15. Adapter for power drill
16. Puller holder M8 x 1.0 thread
17. Puller guide bushing

**KA-5295****21pcs Injector Removal and Dismantling Set**

| Contents: | Application |
|-------------------------------------|--|
| Universal joint: M18x1.5 | |
| Special bit insert hex 10mm x Ø7.6 | 1x special-use Allen SW10 with 7.5 mm bore, 1/2 drive, to remove the fixing ring, for example, Bosch injectors at MB CDI and PSA HDI |
| Special bit insert hex 10mm x Ø 6.6 | For releasing the internal screw of the CR injectors. |
| Pull Spindle: IT M16 x 1.0 | For Denso (Toyota 2.2D) |
| Pull Spindle: IT M17 x 1.0 | For Bosch injectors, e.g., Alfa, BMW, Fiat, MB, PSA, Renault |
| Pull Spindle: IT M20 x 1.0 | For Denso |
| Pull Spindle IT M25 x 1.0 | Siemens injectors, e.g. PSA (DW10) |
| Pull Spindle IT M27 x 1.0 | Siemens injectors, e.g. PSA (DW10) |
| Pull Spindle OT M16 x 1.5 | Pull Adapter for M16 x1.5 thread, such as used in Facom tools |
| Pull Spindle OT M14 x 1.5 | Internal thread for Bosch / Delphi Injectors, e.g. MB (OM 629/642/646), PSA (DV4 / DW12), VW (CBD), BMW (M47) |
| Pull Spindle OT M25 x 0.5 | For Denso |
| Pull Spindle OT M25 x 0.75 | For Denso |
| Pull Spindle OT M27 x 1.0 | For Siemens, e.g. Citroen C5 / Jumpy / Xsara, Fiat Ducato JTD, Peugeot 206/307/406 / Boxer (2.0 / 2.2 / 2.3 HDI) Mercedes-Benz CDI (except A-Class (Sprinter / Vito) |
| Special socket (25mm) | For Siemens Injectors - 2.0 Hdi (DW Series) As found on PSA, Ford, Toyota etc |
| Special socket (27mm) | For Siemens Piezo Injectors – 2.0 Hdi Piezo (DW Series) As found on PSA etc |
| Special socket (29mm) | For Bosch type injectors – Bosch Cdi / Hdi engines |
| Special socket (30mm) | For Bosch type injectors – Bosch Renault / Nissan 1.9dCi |
| Injector gripper(12MM) | For MB CDI-engines, except Sprinter, Vito and A-class |
| Injector gripper(13.5MM) | For Opel Renault F9Q |
| Injector gripper(16MM) | For Fiat Ducato JTD, Citroen C5, Xsara, Jumpy and Jumper HDI and Peugeot 206, 307, 406, Boxer HDI (2.0, 2.2, 2.3l) |
| Injector gripper(26MM) | For Opel Z19DT / Z19DTH / Z19DTL engines, A20DTH (LBS) / A20DTR (LBY) / A20DTJ (LBX) / A20DTC (LCD) and Fiat 1.9 JTD |


KA-5289 Bosch VE Pump Socket Set
KA-5289A Bosch Diesel Injection Pump Socket Kit

The special sockets are required to loosen and remove the triangular headed screws on the injection pump.

For Bosch diesel injection pump VE (Bosch VE)

1. Triangular socket for central closing plug
2. Governing pressure socket
3. Triangular socket for bearing screws governing lever

For Bosch diesel injection pump VP EDC TDI (Bosch TDI)

4. Triangular socket for top cover screw

For Bosch diesel injection pump VP 37 (Bosch CR)

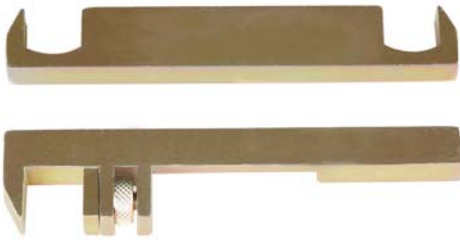
5. Triangular socket for body



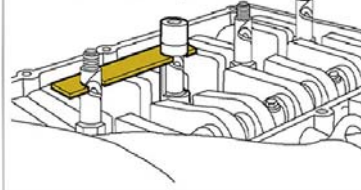
| Contains | 1 | 2 | 3 | 4 | 5 |
|----------|---|---|---|---|---|
| ITEM | | | | | |
| KA-5289 | • | • | • | | |
| KA-5289A | • | • | • | • | • |

KA-5319 Diesel Injector Alignment Tools

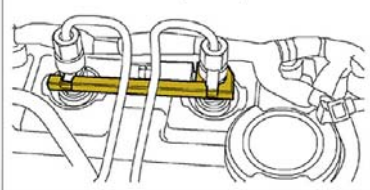
- Tools designed to hold the injectors in place and align them with the fuel lines while the injectors are secure.
- It is essential to have the injectors correctly aligned to avoid the risk of a fractured pipe in service.
- Applications: Ford Duratorq (Puma) diesel engines 2.0/2.2/2.4 litre Di / TDCi / TDDi
Ford: Mondel Mk3 (2000-2007), Transit (2000-2006)
Jaguar: X-Type 400 (2003-2009)



Alignment Bar
OEM Ref 303-678 (21-237)



Adjustable Clamp
OEM Ref 303-711 (21-258)



KA-3752 Universal Special Removal Kit For Glow Plugs Tip

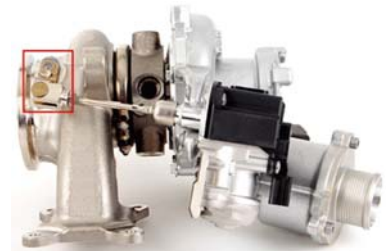
- Special kit for the extraction of the electrode terminal part of the glow plugs (M10, M9, M8) in the event of breakage or seizure inside the seat, otherwise impossible to remove.
- The kit allows simple removal operation, thus avoiding the engine head removal.
- Glow plug guide: M10 x 1 – M10 x 1.25 – M9 x 1 – M8 x 1



KA-3762

Wastegate Setting Gauge (VAG group)

- Used to locking the wastegate.
- Doing adjustment work on the charge pressure electric actuator of the exhaust turbocharger on 4-cyl. 1.8L, 2.0L 4V TFSI direct injection engine (generation III).
- Suitable for various VW and Audi models: Audi A3 2013>, Seat Leon 2013>...
- OEM Ref. T40290



KA-5357 Puller For Clutch Release Shaft

- Intended for the removal of the clutch release shaft.
- This tool is needed when removing the gearbox, for example when replacing clutches or for gearbox repairs.
- For pulling type clutches fitted to: Mercedes, BMW, Fiat Ducato (1994 on)



KA-2054B 4pcs Injector Nozzle Tools

- Universal joint adaptors have a M18 x 1.5 internal thread to allow the use of slide hammers.
- Applications: Bosch and Delphi Common Rail Diesel Injectors.



Diesel Injection Line Wrench

The Diesel Injection line is usually located in hard to reach area. This wrench would make the loosening or tightening easier and faster.

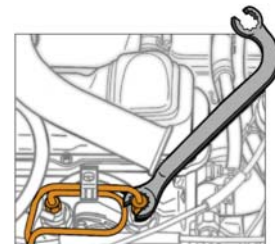
Features:

- For removing and installing the fuel injection line on diesel PSA HDI engines.
- Multiple angles / offsets offer easy access and force points.
- Suitable for most diesel engines
- 3 Sizes available: 14mm, 17mm, 19mm.

KA-7289-14 14mm

KA-7289-17 17mm

KA-7289-19 19mm



KA-5384A



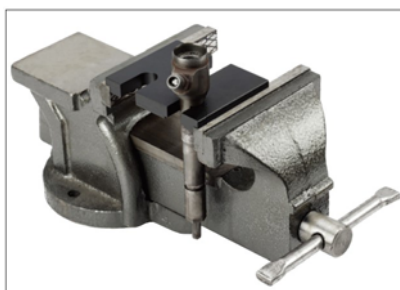
KA-5384B

KA-5384 Injector Holding Fixture

- For holding of injectors when servicing (disassembly and reassembly).
- Suitable for injectors such as Bosch, Delphi, Denso, Siemens and others.
- Can be easily mounted on the bench vise.

KA-5384A : 11mm, 12mm, 13mm, 19mm

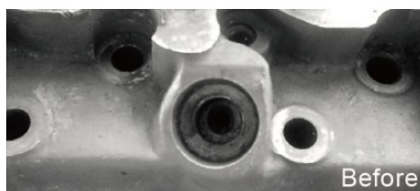
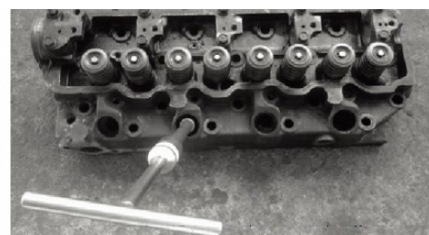
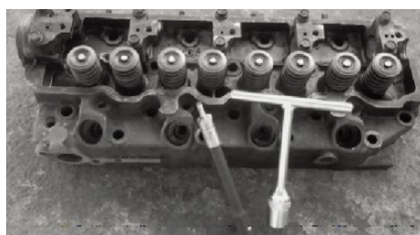
KA-5384B : 14mm, 16mm, 20mm



KA-3636L 19pcs Diesel Injector / Injector Seat Cleaner Set

- Used to clean injector / injector seat when changing injector.
- Helps to avoid blow-back due to poorly seated injector.
- Suitable for a wide range of vehicles.
- Content:

| | |
|-------------------------|-----------------------------|
| 17mm angled reamer | 14 x 14mm flat reamer |
| 17 x 17mm flat reamer | 15.5 x 15.5mm angled reamer |
| 15 x 19mm flat reamer | 15.5 x 15.5mm flat reamer |
| 17 x 19mm flat reamer | 17 x 17.5mm flat reamer |
| 17 x 21mm angled reamer | 17 x 19.5mm flat reamer |
| 18 x 21mm reamer | 17 x 20mm flat reamer |
| 20 x 21mm reamer | 17.5 x 20.5mm angled reamer |
| 15.5mm long reamer | 19mm injector cleaner |
| Pilot post | Hex key |
| T-handle | |



Before



After



KA-7295 Diesel Injector Puller For VW, Audi

Remove the Diesel Injectors from 1996 - Current VW and AUDI Vehicles EASILY!!

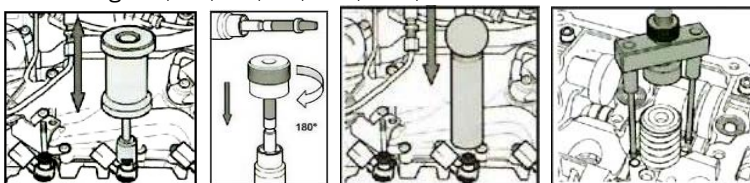
Content:

- 1PC- 1 Pound (lb) Weight Slide Hammer which removes Injector Easily without Causing Damages.
- 1PC- STRAIGHT 14*1.5 Thread Adaptor for Injectors with Linear Fittings.
- 90° Hook Adaptor for PD Injectors.



KA-3694B Injectors Nozzle Extractor Set For VAG

- Suited to the dismantling of injectors.
- Suitable for TDI, FSI, SDI, common rail and pump injector engines.
- Robust engines.
- For the extraction of the firmly burned injectors in the cylinder head.
- Cylinder head does not work against the thrust bearing.
- Avoids tilting of the injectors.
- Including extensive range of adaptors.
- Application rang: TDI, FSI, SDI, VW, Audi, Seat, Skoda.



KA-5453 Truck Injector Extractor

The injector extractor easy to operate on trucks.

Tool can extract that mount injector-pump system and traditional truck injectors also.

■ Application:

Injectors: BOSCH, DELPHI,
VOLVO, SCANIA, MERCEDES,
MAN, RENAULT, IVECO



KA-5423 Truck Injector Nozzle Socket

- The tool removes and installs diesel injected nozzle.
- The bottom four corners.
- Barreled shape.
- Europe truck repair tool.
- Application range: Man(422.403), Benz truck, Scania.

| Inner | Ø mm | Outer | Ø mm | H mm | Teeth | Hex |
|-------|------|-------|------|------|-------|-------|
| | 22.2 | | 28.5 | 75.3 | 4 | 24/32 |

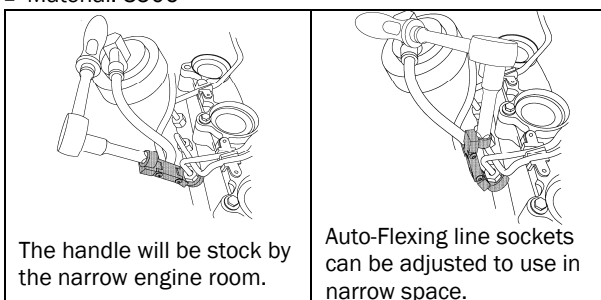


KA-5460 Injector Sleeve Remover For Isuzu / Jackaroo

Used to remove the diesel injector sleeve on Isuzu 4JX1 diesel engine (1998~2004) Jackaroo 3.0L TDI.

KA-3790 Auto-Flexing Line Sockets

- The Auto-flexing fuel line sockets can be reach outward fuel line nut in narrow space!! These sockets have 45° of freedom to reach onto the direct fuel line nut quickly and easily!!
- In addition to be auto-flexing function, the socket can tight the nut without losing torque.
- Size: 11mm, 13mm, 14mm, 15mm, 17mm
- Max. Torque: 30Nm
- Material: S50C



6pcs Square Drive Diesel Injection Wrench Set

- For Mercedes LV, UV and specific diesel motorisations.
- 6 point.
- 3/8" or 1/2" square drive bit.
- Length: 115~122mm



KA-3785A 3/8" Dr. x 12-14-16-17-18-19mm.

KA-3785B 1/2" Dr. x 12-14-16-17-18-19mm.

| Size (mm) | Length (mm) | 1/2" Drive | 3/8" Drive |
|-----------|-------------|-------------|-------------|
| 6 | 115 | KA-3785B-6 | KA-3785A-6 |
| 7 | 115 | KA-3785B-7 | KA-3785A-7 |
| 8 | 115 | KA-3785B-8 | KA-3785A-8 |
| 9 | 115 | KA-3785B-9 | KA-3785A-9 |
| 10 | 115 | KA-3785B-10 | KA-3785A-10 |
| 11 | 115 | KA-3785B-11 | KA-3785A-11 |
| 12 | 115 | KA-3785B-12 | KA-3785A-12 |
| 13 | 118 | KA-3785B-13 | KA-3785A-13 |
| 14 | 118 | KA-3785B-14 | KA-3785A-14 |
| 15 | 118 | KA-3785B-15 | KA-3785A-15 |
| 16 | 120 | KA-3785B-16 | KA-3785A-16 |
| 17 | 120 | KA-3785B-17 | KA-3785A-17 |
| 18 | 120 | KA-3785B-18 | KA-3785A-18 |
| 19 | 120 | KA-3785B-19 | KA-3785A-19 |
| 21 | 124 | KA-3785B-21 | KA-3785A-21 |
| 22 | 124 | KA-3785B-22 | KA-3785A-22 |
| 23 | 124 | KA-3785B-23 | KA-3785A-23 |
| 24 | 124 | KA-3785B-24 | KA-3785A-24 |

KA-3794 Piezo Diesel Injector Puller for Mercedes

- M16 x 1.5
- For removing extreme seized diesel injector without removing the cylinder head.
- Suitable for Mercedes diesel engine OM651.



| Application | |
|-------------|---------------|
| A-class | Type 176 |
| B-class | Type 246 |
| C-class | Type 204, 205 |
| E-class | Type 212 |
| S-class | Type 221, 222 |
| V-class | Type 639, 447 |
| CLA | Type 117 |
| GLA | Type X156 |
| GLK | Type X204 |
| CLS | Type 218 |
| ML | Type 166 |
| SLK / SLC | Type 172 |
| GLC | Type X253 |





KA-5255 Injector Nozzle Installer For BENZ (M278)

Fuel injectors must be installed immediately after calibration of the sealing rings.
Clean base surface for sealing ring on fuel injector.
Application: BENZ M278 engine.
Engines: 133, 152, 157, 270, 274, 276, 278.
Benz OEM no. Ref.: 272 589 00 40 33
Material: stainless steel



KA-5256 Injector Nozzle Remover For BENZ M278

This tool is designed for removing the injector by slide hammer or the T-Bar.
Application: Benz M
THIS TOOL IS DESIGNED FOR REMOVING THE INJECTOR BY SLIDE HAMMER OR THE T BAR.
Application: BENZ M278 engine.
Engines: 133, 152, 157, 270, 274, 276, 278.
Benz OEM no. Ref.: 272 589 00 40 33



KA-4116 Glow Plug Aperture Cleaner

- This tool offers an adjustable cleaning solution for M10 glow plug apertures
- For cleaning M10 glow plug apertures when replacing glow plugs
- Particularly useful when the original glow plugs have been removed
- Size: M10x1.0 and M10x1.25



KA-4137

3/8" Dr. Fuel Injector Line Socket (19 & 22mm)

- Designed to easily torque the fuel injector lines correctly, reducing if not eliminating the possibility of a fuel leak or damaging the line, fuel rail or fittings.
- Easily applies the factory required torque of 30 ft-lb.
- No torque adaptors with complicated calculations required.
- Use on cummins ISB engines 1998 to present.
- 19 & 22mm, 3/8" drive.



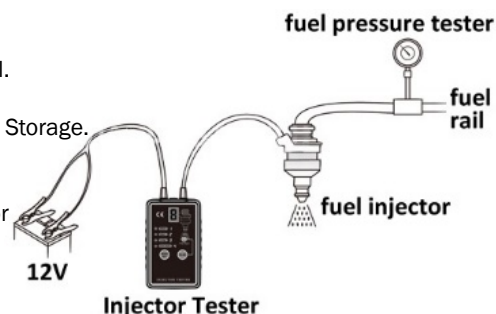
KA-4520 Diesel Injector Seal Puller

- A specialized tool, used to assist the extraction of the copper washers used to seal diesel injectors where they enter the cylinder head.
- Commercial vehicles used.
- These sealing washers sit at the bottom of the injector orifice and are a common failure point. They are so deep into the cylinder head and usually stuck tight with carbon build-up that extraction is usually next to impossible.



KA-1074 Injector Tester

- Replaceable connector for different terminal.
- Power source: 12V vehicle battery.
- Operation environment: 0-40°C ; < 80% RH Storage.
- Environment: -10°C ~50°C ; < 85%RH.
- The tester can help diagnose injector problems, you can use it to test each injector individually to help identify **stuck**, **leaking** or **burnt-out** conditions.



**KA-8100 Direct Injection Seal Installation Tool Kit**

- Fit the Telfon Seal properly without causing damage of the seal.

- A great tool that specially designed to fit, refit and seat the Teflon seal used in new model of BMW vehicles with direct fuel injection.
- To do the seat / fitting properly, the Telfon seals are required to be expanded with extra care during mounting and re-fitting, so you don't damage the delicate Telfon seal.
- Application: BMW N13, N14, N18, N20, N26, N43, N53, N54, N55, N63, N73, S55, S63, B38, B48
- OEM Ref: 130 280 / 130 281 / 130 282 / 130 283 / 130 195 / 130 192 / 130 193 / 130 194 / 130280 / 130281 / 130282 / 130283 / 130195 / 130192 / 130193 / 130194



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 6 channels, 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-1040A Ultrasonic Leak Detector

- Ultrasonic leak detector utilizes ultrasonic sensor to check the air-tightness of pipeline. The operation is easy and accurate. The instrument can identify the gas leakage of various pressure or vacuum system.
- The transmitter will generate 40kHz ultrasonic signal, and it is used in conjunction with the detector to detect the leaking location of the object. For example, the detector will detect signal leaking from the hole of the pipeline and as user moves the detector, the hole can be located correctly. The main application is the tightness test of any kinds, for example, doors, windows, plumbing, container, car windows, refrigerators ... etc.

| Detector: | Transmitter: |
|----------------------------------|--------------------------------|
| Operating Temperature: 0-40°C | Operating Temperature: 0-410°C |
| Operating Humidity: <80% RH | Operating Humidity: < 80% RH |
| Frequency Responding: 40kHz±2kHz | Generating Frequency: 40kHz |
| Power: 9V battery | Power: 9V Battery |



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-1045K Combination 6 – Channel Electronic Stethoscope

KA-1045 Combination 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) Main body × 1 | 6) Magnetic sensor × 2 |
| 2) Earphone × 1 | 7) Sucker sensor × 2 |
| 3) Power line × 1 | 8) Clipping sensor × 2 |
| 4) Sensor extended line × 4 | 9) Bag × 1 |
| 5) Holding sensor × 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.

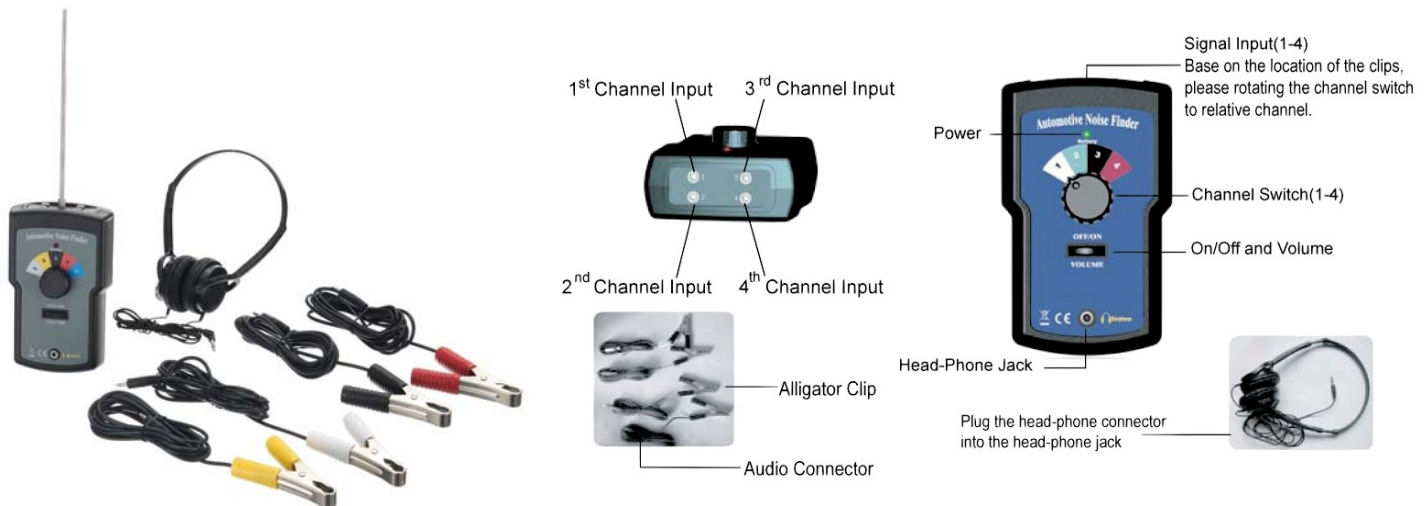
4. Power & Sound Sensitivity Switch

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.



KA-1062 Multi-Channel Automotive Noise Finder

Feature:

- Multi-channel automotive noise finder is a portable equipment to diagnose the defect of the vehicle. When the generator is running, it can detect the impact and vibration due to the defect and failure of bearing, gear, valve, crank, cylinder, gear box, and vehicle body and etc...
- With this equipment, the repairer can clearly locate which part of the machine cause the noise and how serious is it.
- Even though the repairer operates the equipment in a very noisy environment.
- The Operation is simple and easy.

Instruction:

- Plug the head-phone jack, then clip the four different color alligator clips around the defect area of the machine.
- Base on the color and the position of the clips, select the relative channel.
- Switch on the amplifier and tune the volume to hear the sound from the machine.
- Technician can therefore diagnose the machine base on the frequency and the pitch of the sound.



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



Auto repairing



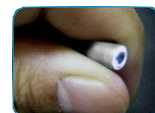
Airplane engine



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



KA-1060 Endoscope

This is a very helpful auxiliary tool for technician to visually check equipment. For example, boilers, heat exchanger, and other mechanical equipment.

This equipment is the extension of eyes; it helps user to visualize the place which cannot be reached by the eyesight. For example, exhaust pipe and downcomer.

Specification:

1. Resolution: 640 x 480
2. Camera diameter: 8mm
3. Operating voltage: 5V
4. Picture transmit rate: 30fps
5. Waterproof: IP67
6. Camera Resolution: 300K pixels
7. Player software is included in the CD, it support snapshot.

