

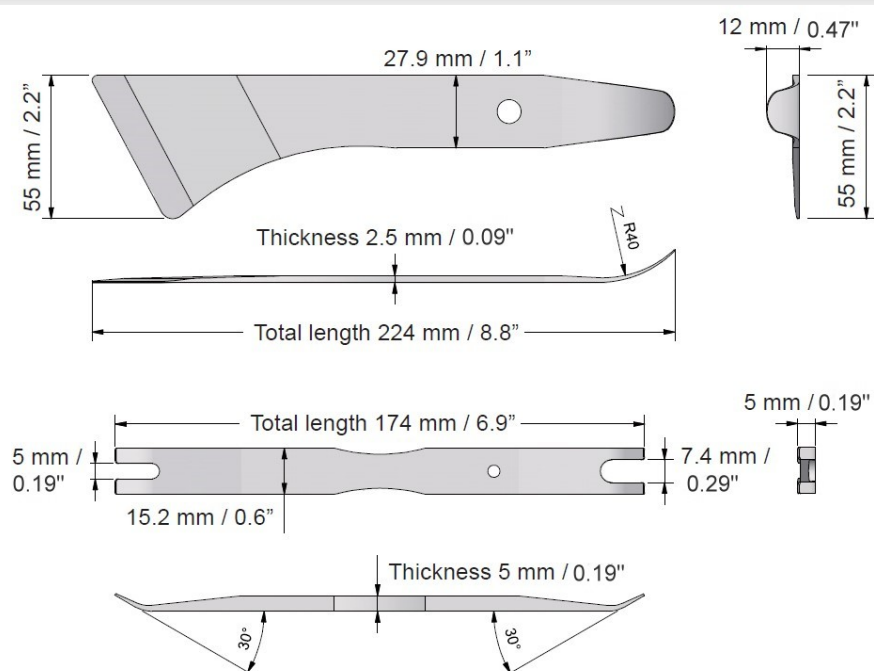
Metal Trim Removal Pry Bar & Clip Lifter Tool Set (No. KA-2223BC)

- Set for removing exterior and interior trim, molding, dashboards, door panels, and clips
- **Two-Sided** tool gives more application and is versatile.
- **Metal-made** is more durable and stronger, superior to plastic panel removal tools



How to Use KA-2223BC Trim Removal Pry Bar & Clip Lifter Tool Set:

- (1) Insert the tool carefully into the fastener or clip gap
- (2) Use leverage to raise or pull apart the object



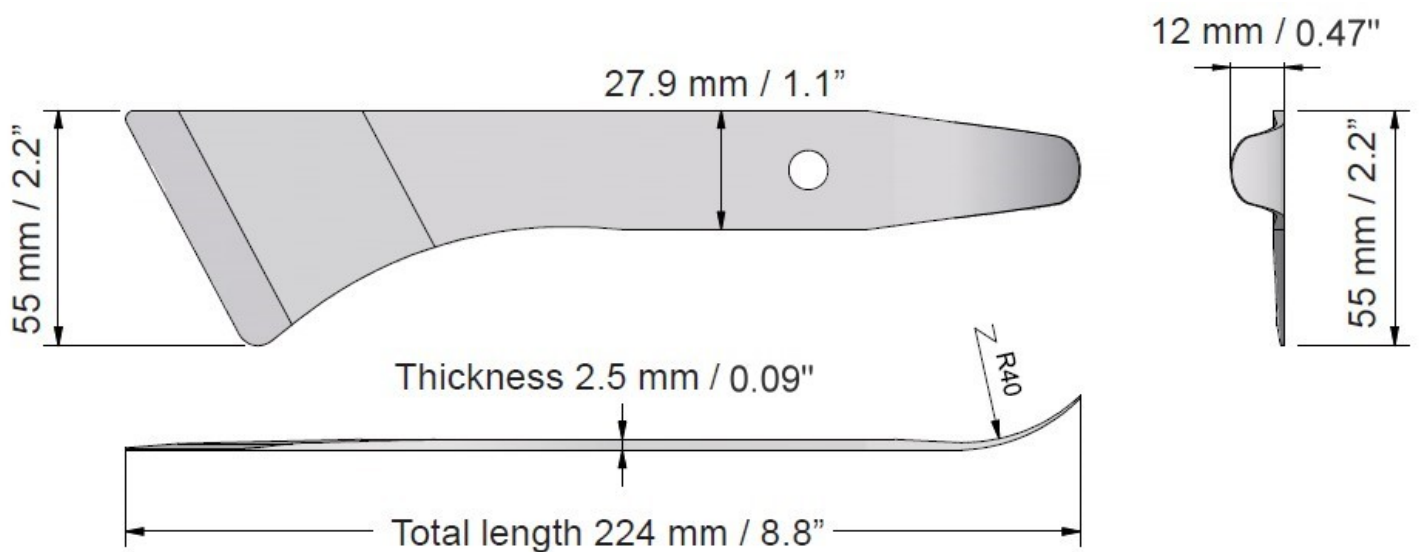
Metal Trim Removal Pry Bar - Double-Sided (No. KA-2223C)

- For removing exterior and interior trim, molding, dashboards, and door panels
- **Two-Sided** tool gives more application and is versatile.
- **Metal-made** is more durable and stronger, superior to plastic panel removal tools



How to Use KA-2223C Trim Removal Pry Bar

- (1) Insert the tool carefully into the fastener or clip gap
- (2) Use leverage to raise or pull apart the object



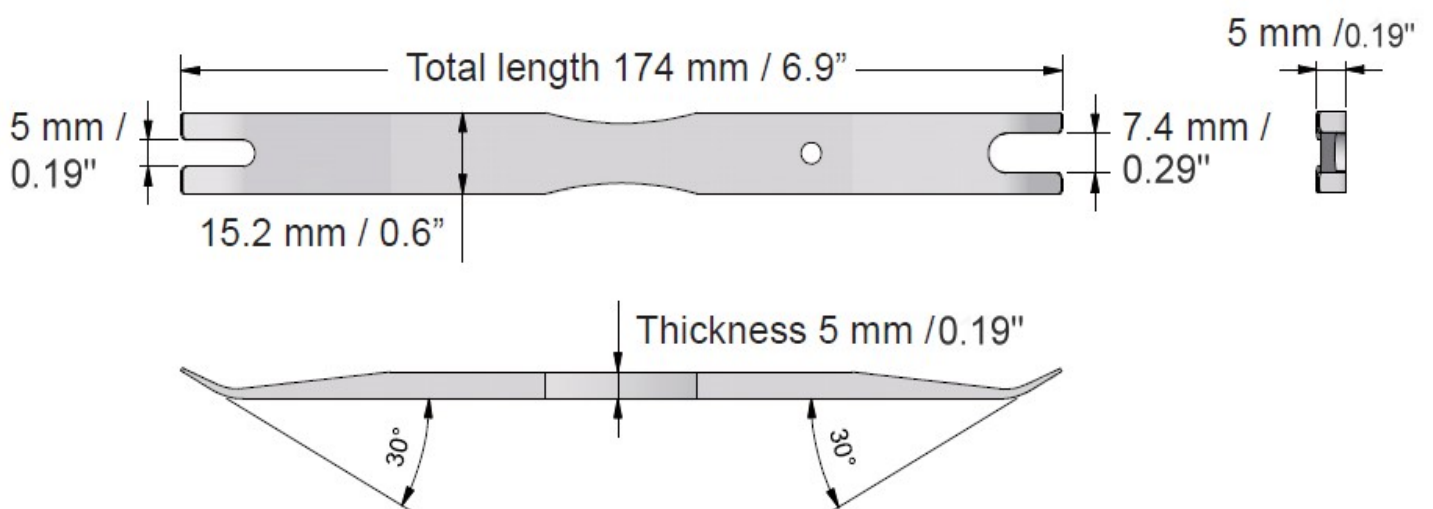
Metal Clip Lifter Tool Set - Double-Sided (No. KA-2223B)

- For removing exterior and interior trim, molding, dashboards, and door panels
- **Two-Sided** tool gives more application and is versatile.
- **Metal-made** is more durable and stronger, superior to plastic panel removal tools



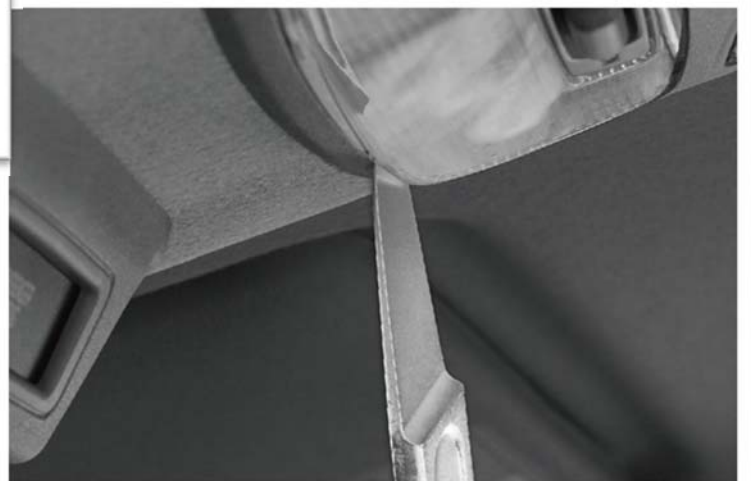
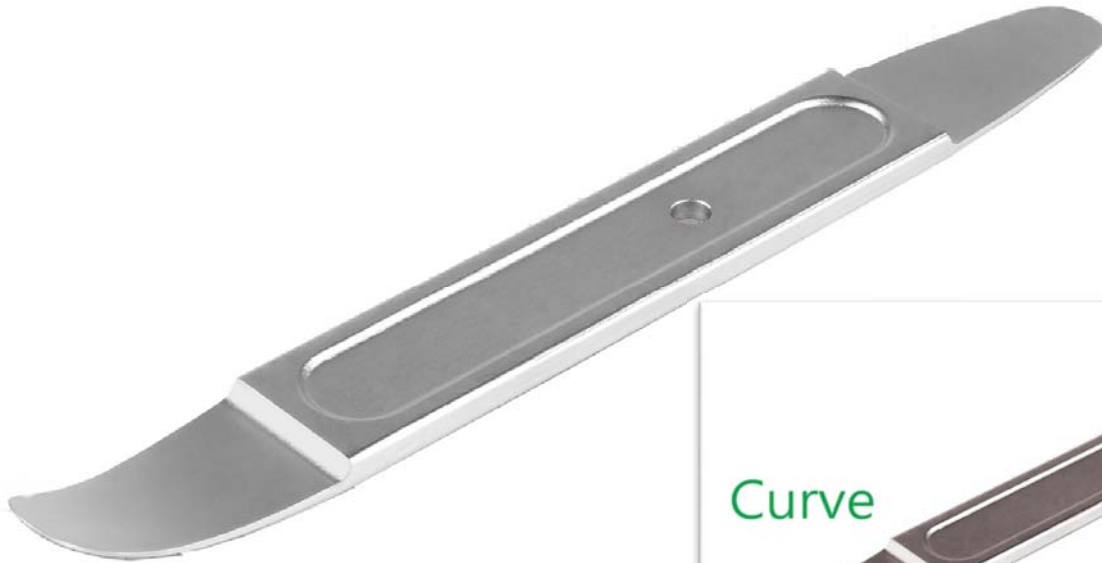
How to Use KA-2223C Trim Removal Pry Bar

- (3) Insert the tool carefully into the fastener or clip gap
- (4) Use leverage to raise or pull apart the object



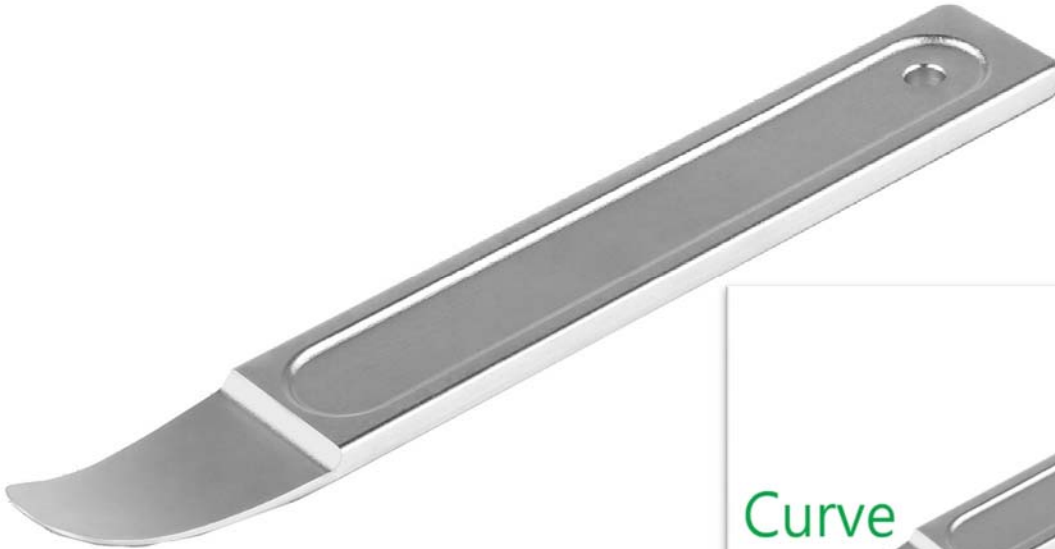
Thin Sheet Metal Skin Pry Tool –Curve & Flat ends (No. KA-9066A)

- Made of U.S. Standard High Quality Steel. Originally developed for the aircraft industry.
- Very THIN strong tip fit **0.045mm/0.0187"** in any narrow gaps (crevice) easily and does not bend easily while using.
- Ergonomic design to avoid fatigue. Let you do the job efficiently and quickly.
- Compact design and easy to carry.
- No rough edge and won't leave marring on your cars.
- **Application:** flawlessly and smoothing in removing exterior & interior trim, fasteners, dashboards, door panels, molding, wheel hubs,etc.



Thin Sheet Metal Skin Pry Tool – Curve End (No. KA-9066B)

- Made of U.S. Standard High Quality Steel. Originally developed for the aircraft industry.
- Very THIN strong tip **0.045mm/0.0187"** fit in any narrow gaps (crevice) easily and does not bend easily while using.
- Ergonomic design to avoid fatigue. Let you do the job efficiently and quickly.
- Compact design and easy to carry.
- No rough edge and won't leave marring on your cars.
- **Application:** flawlessly and smoothing in removing exterior & interior trim, fasteners, dashboards, door panels, molding, wheel hubs,etc.



HIGH-POWER Magnetic Pad – Hold your tools tight!



- High-Power, Rare Earth Magnets Hold The Tools and Parts Securely on any Ferrous Surface.
- Flexible Design is Easy to Lift and Move around in Workplace.
- Premium Carbon-Fiber-Like Outer Material Resists Punctures and Common Shop Fluids
- Hold The Lug Nuts, Hand Tools, other Daily-Use Items under the Hood or on the Lift Post.
- Material: PVC/NdFeB
- Patent-Pending.

| No. KA-2797A Size: 51 x 51mm | No. KA-2797B Size: 114 x 114mm | No. KA-2797C Size: 200 x 280mm |
|---------------------------------|-----------------------------------|-----------------------------------|
| | | |

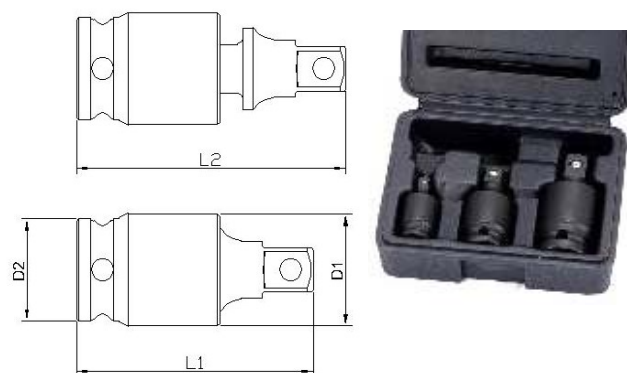
| No. KA-2797D Size: 350 x 50mm | No. KA-2798 Size: 240 x 248mm | |
|----------------------------------|----------------------------------|--|
| | | |

3 PCS Powerful Impact Universal Joint Set (No. KA-5575)

- Two-Stage & Universal let you use the power tools in tight corners and spaces.
- Push the stud in to the socket becomes an adapter, and pull is universal.
- High torque and high life, torque value reaches more than 25%
- Made of Premium CR-MO with heat treatment to withstand high torque power tools.



| Size | D1 | D2 | L1 | L2 |
|-------------|----|----|----|----|
| 1/4"F×1/4"M | 18 | 16 | 39 | 43 |
| 3/8"F×3/8"M | 24 | 22 | 51 | 58 |
| 1/2"F×1/2"M | 30 | 28 | 65 | 72 |



10 PCS Powerful Impact Universal Socket Set (No. KA-5576-3810)

- Two-Stage & Universal let you use the power tools in tight corners and spaces.
- Push the stud in to the socket becomes an adapter, and pull is universal.
- High torque and high life, torque value reaches more than 25%
- Made of Premium CR-MO with heat treatment to withstand high torque power tools.

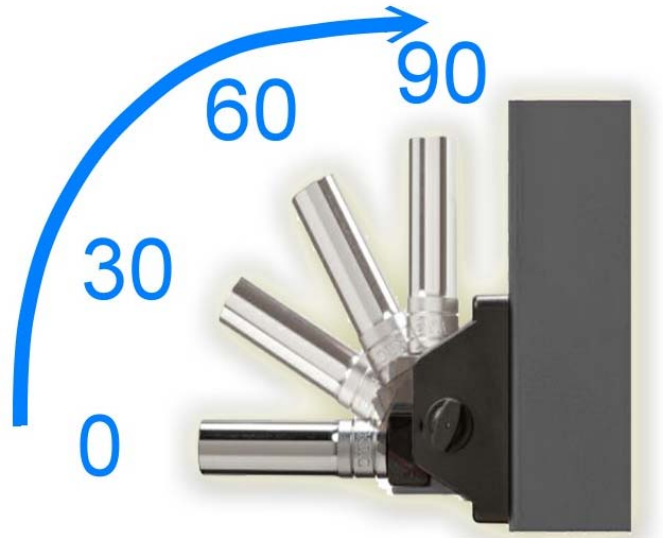


| S | D1 | D2 | L1 | L2 | W |
|------|------|----|----|----|----|
| 10mm | 15.5 | 22 | 48 | 55 | 9 |
| 11mm | 17.5 | 22 | 48 | 55 | 9 |
| 12mm | 19 | 22 | 48 | 55 | 12 |
| 13mm | 20 | 22 | 48 | 55 | 12 |
| 14mm | 21 | 22 | 48 | 55 | 12 |
| 15mm | 22 | 22 | 48 | 55 | 12 |
| 16mm | 23 | 22 | 48 | 55 | 12 |
| 17mm | 25 | 22 | 48 | 55 | 12 |
| 18mm | 26 | 22 | 48 | 55 | 12 |
| 19mm | 27 | 22 | 48 | 55 | 12 |



0° - 30° - 60° - 90° Adjustable Magnetic Socket Holder

- Adjustable Socket holder can be changed into 4 steps: 0°, 30°, 60° & 90° positions.
- Strong magnets let the socket holder stay on the toolbox or any metal surface firmly.
- High quality studs secure the sockets into a locked position, socket would not fall off or come loose.
- Durable Anti-Slip features with heavy-duty ABS.
- Size: 230 (L) X 70(H) mm
- Capacity: 1.2 kgs



For 1/2" Socket
(Item No. KA-2695R12)



For 3/8" Socket
(Item No. KA-2695R38)



For 1/4" Socket
(Item No. KA-2695R14)



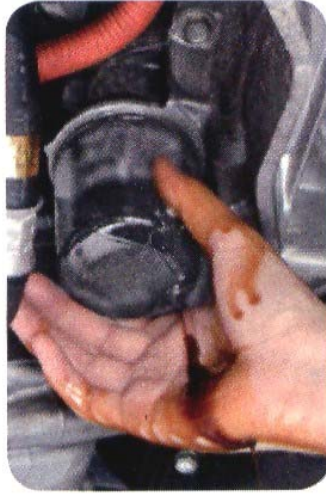
Oil Filter Removal Cup – made of Reinforced Plastic (No.KA-4539)

O



😊 Cleans Hands

X



☹ Greasy Hands

- No More Spill the Messy Sticky Oil
- Special Flute grips the oil filter firmly
- Large capacity to catch dripping oil during operation
- Reinforced Plastic allows Great Oil –Resistant, Durability, Light-Weight

Item No. KA-4539

Capacity: 180 CC, 63-67xH138mm



Item No. KA-4540


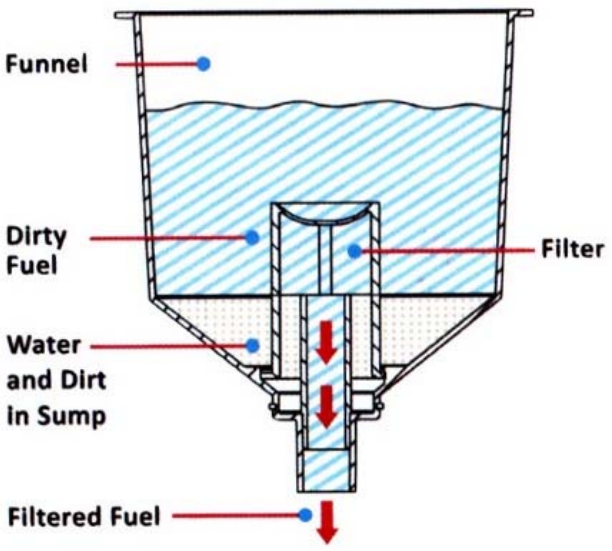
Capacity: 240 CC, 73-76xH138mm



Water/Fuel Separation Funnel 2 Liter (Item no. KA-7856)

Bio Fuel (Ethanol) attracts water, causing microbial growth, corrosive acids, electrolysis and rust.

KA-7856 Water /Fuel Separation Funnel solves your problem!!

| | |
|---|---|
|  <p>See Through</p> <p>420μm Stainless Steel Filter blocks water & debris</p> |  <ul style="list-style-type: none"> ● The sump area collects deflected water and debris. They can be properly disposed later. ● Water and debris will not pass 420μm stainless filter. The stainless filter only filter fuel flow through to engine. ● Applicable for: Gasoline, Diesel, Heating Oil, Kerosene 2 Cycles Mixed Gas. |
|---|---|

Fuel Tank Funnel for Cap-less Filler system.

| | | | |
|--|--|--|---|
|  | <p>Item No. KA-7854</p> <ul style="list-style-type: none"> ● For Petrol ● Fuel Funnels for cap-less filler systems of Ford vehicles ● Securely fits in filler neck, opening two valve security systems. ● O.D: 24.5mm  |  | <p>Item No. KA-7855</p> <ul style="list-style-type: none"> ● For Diesel ● Fuel Funnels for cap-less filler systems of Ford Vehicles. ● Securely fits in filler neck, opening two valve security systems. ● O.D: 24.5mm  |
|--|--|--|---|

Maser Link Pliers (No. KA-4536ML)



Uniquely Special designed pliers for installing and removing the master links.

One side has groove and a bit longer than the other, so it latches on the mater links easily and securely.



Elbow Connector Open-End Socket Set (No. KA-5486)



- Tighten and Loosen the elbow connector (L type piping joint).
- Suitable for using in narrow space.
- Application:
 1. On the air suspension of compact cars or truck over 4 tons.
 2. On the air brake.
 3. With the construction machinery.

Size: 12mm, 14mm, 17mm, 19mm, 22mm



Elbow Connector Open-End Socket Set (No. KA-5486LK)



- Tighten and Loosen the elbow connector (L type piping joint).
- Suitable for using in narrow space.
- Application:
 4. On the air suspension of compact cars or truck over 4 tons.
 5. On the air brake.
 6. With the construction machines.

Size: 12mm, 14mm, 17mm, 19mm, 22mm (for Construction machinery)
27mm (for ISUZU Truck)



Dashboard Protector Kit -4 PCS/Set (No. KA-6995K)

KA-6995



KA-6996



KA-6995C



KA-6996C



Protect the dashboard while doing maintenance!

Size:

KA-6995: 266*207cm

KA-6996: 454*307cm

KA-6995C: 266*207cm (15 ° Curve)

KA-6996C: 454*307cm (15 ° Curve)



Trim Fastener And Molding Removal Kit (No. KA-6994)



Remove the Trim Fastener and Molding.

Material: Nylon / Size: 400*35*13.5cm



5-IN-1 Caulk Finishing Tool (No. KA-6993)



- Smooth the bead of sealant such as silicon & acrylic
- Idea for floor, kitchen, bathroom and window sealing jobs.
- Can be used repeatedly and easy to clean.
- Compact design with 5 shapes of spatulas.
- Size: 135*20*21mm



Universal Pedal Depressor – Extendable (No. KA-5367N)



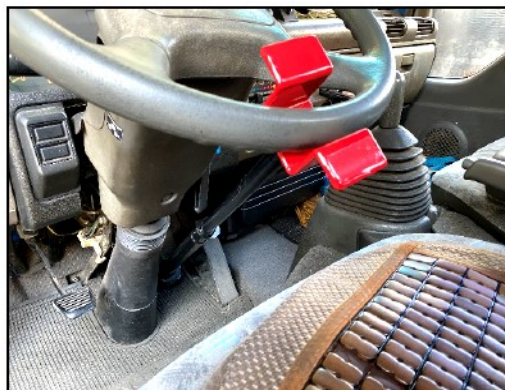
- Depresses and holds all kinds of car and truck's brake and clutch pedal.
- Extendable design adjusts the tool in any preferred position and length!
- Coated U-shaped steel plate clamp on the steering wheel or the seat firmly.
- Length: 20-1/2" extend to 33-1/2"(max)



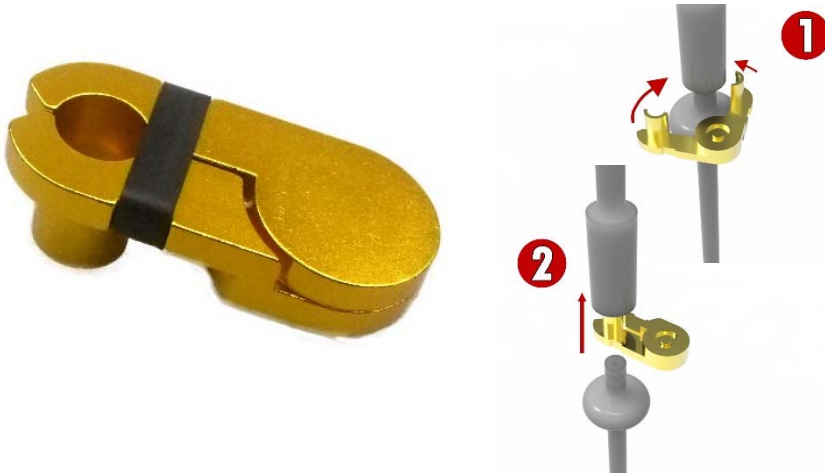
* Use on Car *



* Use on Truck *



Fuel Jose Puller for Toyota Nissan (No. KA-6678E)



- Remove the injector of high side adaptor of TOYOTA, NISSAN.
- Special specification to meet type of adaptor, easy to use!!

Timing Tool Set (TFSI) for VW, AUDI (No. KA-8372D)



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

Timing Tool Set (V6, 3.2FSI) for VW, AUDI (No. KA-8372E)



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

High Pressure Pump Sprocket Remover for Hyundai/Kia (No. KA-8102)



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



KA-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-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 | | |
|---|--|--|--|
| | | | |
| | | | |



KA-5266 Wheel Stud Alignment Guide Tool

- Assists when mounting wheels, especially late
- Models with long lug bolts
- Applicable: all Mercedes models with lug bolts

Content:

| | | |
|------------|--|--------|
| M12 x 1.25 | wheel stud alignment guide tool | x 2pcs |
| M12 x 1.50 | wheel stud alignment guide tool | x 2pcs |
| M12 x 1.75 | wheel stud alignment guide tool | x 2pcs |
| M14 x 1.25 | wheel stud alignment guide tool | x 2pcs |
| M14 x 1.50 | wheel stud alignment guide tool | x 2pcs |
| M16 x 1.50 | wheel stud alignment guide tool | x 2pcs |
| M12 x 1.50 | wheel stud alignment guide tool (Female) | x 2pcs |



KA-5470



KA-5470B



KA-5470C

Universal Locking Wheel Nut Removal Kit

- Very effective and a must-have workshop tool.
- Kit includes sleeve/wrapping which protects the wheel against any damage.
- Simple to use! A master kit removing practically any locking wheel nuts.

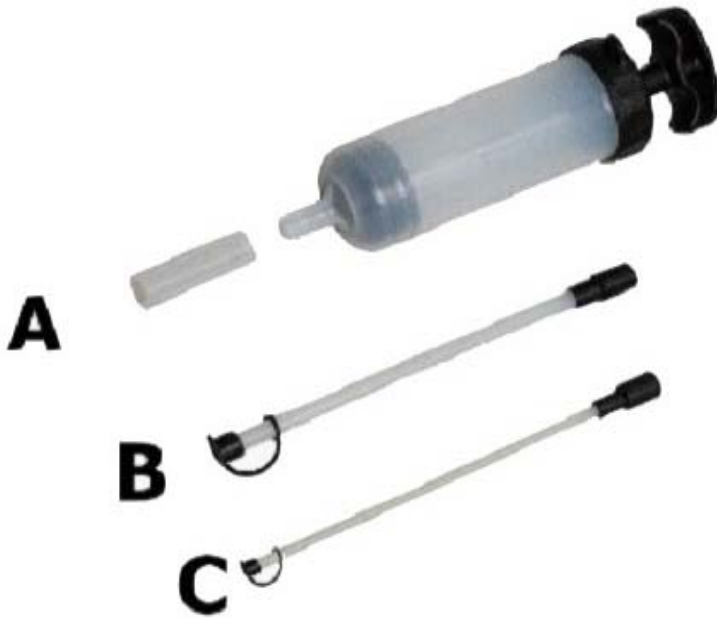
KA-5470 → Silver finishing of impact driver

KA-5470B → Black finishing of impact driver

KA-5470C → Black finishing of impact driver, including new model of locking wheel nut remover for Ford, Jaguar & Range Rover.

| | Blade A | Blade B | Blade C (* Disposable) | Locking Wheel Nut Remover | | |
|----------|---|---------|--|---------------------------|--------------------|-------------------------|
| | | | | | | |
| | <ul style="list-style-type: none"> ■ Fit Most Common Locking Wheel Nuts. ■ Can not use on hardened nuts or studs. | | <ul style="list-style-type: none"> ■ Designed to remove hardened nuts or two size of lock nuts. | Special for Ford | Special for Jaguar | Special for Range Rover |
| KA-5470 | Included | | Included | x | x | x |
| KA-5470B | Included | | Included | x | x | x |
| KA-5470C | Included | | Included | Included | Included | Included |

KA-6850M Bendable Fluid Refill & Extractor – Manual Type



A: Silicone Tube: 12 x 18 x 50mm
 B: Nylon Tube: 7.6 x 9.8x 200mm
 C: Nylon Tube: 4 x 6x 200mm

- Idea for smooth liquid transfer.
- High-quality hydraulic oil seals can keep air tight and prevent liquid leakage.
- The patented ergonomic design makes operation more easily.
- Provide 3 kinds of bendable tubes, suitable for extracting & replacing transmission fluid, power steering fluid, gear oil, brake fluid & antifreeze.
- The transparent body makes it possible to clearly see the flow of liquid during operation.
- A transparent tube cap is included to avoid leakage of residual fluid after operation.
- Net weight: 200g



KA-7850K16

For almost all car brands!

Manual Brake Fluid Bleeder with Adapter & Fluid Receiver Kit



- Change your brake fluid is a simple and easy operation if you have the right tool.
- One men in same step clear operate, non-spark, quick & safety.
- Manual operation suitable for most vehicle brake system.
- 3000cc tank with pressure gauge, the air pressure can be read and control on the tank easily.
- 11 brake fluid connector (No. KA-7850-AD11), Hanging Hook (No. KA-7850-HOOK)
- Built-in a pressure release valve on the filler cap.
- A standard European adapter with a 90° fitting for narrow space.
- Suitable for different vehicle types
- Include 2 meter special industrial hose with control valve & connector.
- Provided with a 1000cc fluid receiver (No. KA-7850-BT)
- Patent in Taiwan, China, Applications in EU and USA
- 3 Couplers: Tru-Flate, Orion & Milton, OD 8mm (No.KA-7850K11-COUPLER)

Control Valve Holder

*Cap w/Pressure Release Valve *

Pressure Gague

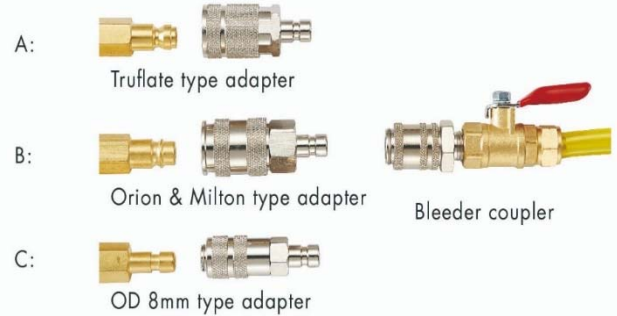
Fluid Outlet



Applications of 11 PCS Brake Bleeder Oil Cap Set in KA-7850K16



How to connect other adapter?



* The special type adapter accepts to order production

| Part No. | Application | Net weight | Part No. | Application | Net weight |
|---------------|--|------------|--------------------|---|------------|
| KA-7850-AD-A1 | Mitsubishi, Subaru, Volvo S40 and V40 | 266g | KA-7850-AD-T1 | Buick, Cadillac, Chevrolet, Ford, Mazda, Oldsmobile, Pontiac, Saturn, Tesla | 180g |
| KA-7850-AD-A2 | Chrysler, Dodge, Dodge Truck, Ford, Ford Turck, Hyundai, Infinity, Jaguar, Jeep, Kia, Alfa romeo, Aston martin, Audi, Bentley, Bugatti, BMW, Chevrolet, Ferrari, Flat, Ford, Jaguar, Kia, Lamborghini, Land rover, Mazda, Mercedes-benz, Mini, Porsche, Renault, Suzuki, Toyota, Volvo, Volkswagen | 138g | KA-7850-AD-TL | TOYOTA , LEXUS | 318g |
| KA-7850-AD-A3 | | 128g | KA-7850-AD-UN | Acura, Chevrolet, Geo, GMC, Honda,Hyundai, Infinity, Isuzu, Jeep, Kia, Range rover, Mitsubishi, Nissan, Peugeot, Subaru, Toyota, Volkswagen | 218g |
| KA-7850-AD-A4 | Chrysler ,Dodge ,Dodge Truck ,Jeep, Plymouth | 132g | KA-7850-AD-M3 | Tesla Model M3 | 156g |
| KA-7850-AD-A5 | Nissan ,Altima 2002-2006 ,Cube 2008-Up,Juke 2011-Up,Kicks 2018-Up,Leaf 2011-Up,Maxima 2004-2008,Micra 2010-2013,Note 2012-Up,Nv200 2013-Up,Tiida 2006-Up,Versa 2007-Up,Versa Note 2014-Up,Livina | 125g | KA-7850-AD-T S/X | Tesla Model S Tesla Model X | 176g |
| KA-7850-AD-H1 | Honda | 280g | KA-7850K16-COUPLER | A:Truflate type B:Orion & Milton type C: Od 8mm TYPE | |



A2:
Mazda
Subaru
Suzuki

A5:
Nissan

TL:
Toyota
Lexus

H1:
Honda

* Packed in Plain box

KA-7850-AD4 Brake Bleeder Oil Cap

Content:

KA-7850-AD-A2
KA-7850-AD-A5
KA-7850-AD-TL
KA-7850-AD-TL

KA-7850K17

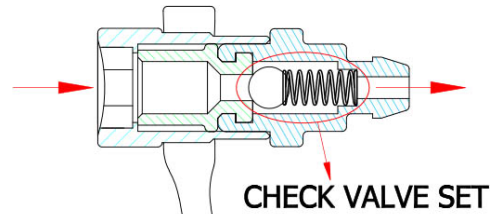
For almost all car brands!

Manual Brake Fluid Bleeder with Adapter & Fluid Receiver Kit & Bendable Fluid Refill



- Change your brake fluid is a simple and easy operation if you have the right tool.
- One men in same step clear operate, non-spark, quick & safety.
- Manual operation suitable for most vehicle brake system.
- 3000cc tank with pressure gauge, the air pressure can be read and control on the tank easily.
- Provided with a
- Built-in a pressure release valve on the filler cap.
- A standard European adapter with a 90° fitting for narrow space.
- Suitable for different vehicle types
- Include 2 meter special industrial hose with control valve & connector.
- Patent in Taiwan, China, Applications in EU and USA
- Content: Brake Bleeder (KA-7850), 11 brake fluid connector (No. KA-7850-AD11)w/3 Couplers: Tru-Flate, Orion & Milton, OD 8mm (No.KA-7850K11-COUPLER), Hanging Hook (No. KA-7850-HOOK), 1000cc fluid receiver (No. KA-7850-BT)

KA-8000K-5C Interchangeable Brake Bleeder Wrench w/Check Valve Set



- Ideal for bleeding brake system and hydraulic clutch system without removing the wheels.
- Brake bleeder socket with check valve prevents air backflow into brake system.
- The ratchet wrench with multi-size socket to make loosening and tightening easily.
- Use on any vehicle, SUV, light truck and motorcycle brake caliper.
- Socket size: 7, 8, 9, 10, 11mm (optional size: 12mm and 3/8")
- Provide 1-meter silicone tube is easy to receive the discharged waste oil into the oil pot.
- Patented: USA, Germany, UK, Taiwan, Japan, China





KA-7129A

Ratchet & Drill Powered Flaring Tool Kit

Flaring Tool Kit Traditional Type

Size: 6.8.10.12.14.16.19 Mm +
1/4".5/16".3/8".1/2".5/8".3/4"

With Cutter & Reamer

With Carrying Case



KA-7129B

Flaring Tool Kit with 1/2" * 6mm Hex Wrench Bit

Aluminum Flaring Body And Bar

Size: 6.8.10.12.14.16.19mm +
1/4".5/16".3/8".1/2".5/8".3/4"

With Cutter & Reamer

With Carrying Case



KA-7129C

Flaring Tool Kit With Air Wrench Bit

Steel Flaring Body And Bar

6 Size 1/4".5/16".3/8".1/2".5/8".3/4" O.D.
Tubing

With Cutter & Reamer

With Carrying Case



KA-7129D

Flaring Tool Kit 45° Eccentric Cone Type

Steel Flaring Body And Bar

6 Size 1/4".5/16".3/8".1/2".5/8".3/4" O.D.
Tubing

With Cutter & Reamer

With Carrying Case



KA-7129E

Ratchet Type Flaring Tool Kit

Steel Flaring Body And Bar
 Size: 6.8.10.12.14.16.19 Mm +
 1/4".5/16".3/8".1/2".5/8".3/4"
 With Cutter & Deburring Tool
 With Carrying Case



KA-7129E

Flaring Tool Kit Traditional Type

Flaring Tool Kit Traditional Type
 Size: 6.8.10.12.14.16.19 Mm +
 1/4".5/16".3/8".1/2".5/8".3/4"
 With Cutter & Reamer
 With Carrying Case



KA-7135KN

Multi-Function Tube Bender Set

Multi-Function Tube Bender Set
 Tube Bender + Reverse Direction
 Bending + Aluminum Forms
 Aluminum Forms
 1/4.5/16.3/8.1/2.5/8.3/4.7/8"
 Aluminum Reverse Direction Bending
 With Cutter And Reamer
 With Carrying Case



KA-7111KN

SLIDING DIE-BLOCK 45° FLARING TOOL

FLARING TOOL KIT - 45° SINGLE LAP
SIZE: 3/16".1/4".5/16".3/8".1/2".5/8"
O.D. TUBING

KA-7111KM

SLIDING DIE-BLOCK 45° FLARING TOOL

FLARING TOOL KIT - 45° SINGLE LAP
SIZE: 6.8.10.12.16MM. O.D. TUBING



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-5483

SLIDE HAMMER WITH CLAW HOOK

For use with 3/8" chain.

5 Kg slide hammer



KA-8076K 3pcs Open-End Wrench Set

(1) Open-end 12PT socket for the operation of screwed connections on injection lines.

(2) Application: for MAN commercial vehicles with D20 engines Common Rail injection systems.

(3) 1/2" DR. 14, 17 ,19mm

(4)12PT*6PT*78mmL





KA-3231F

Wheel Stud Service Kit

This kit provides total solutions for wheel studs.

- ✧ Flip socket with impact extension bar can easily loosen and tighten wheel nuts / wheel studs.
- ✧ Stud cleaning tool and hub cleaning tool that drive by impact wrench
- ✧ can remove dirt and rust on wheel studs and hub easily.
- ✧ Wheel stud installer pulls new wheel stud into position within seconds.
- ✧ Bearing designed prevents potential damage of wheel studs or wheel nuts.

Content:

- ✧ Flip socket size: 17-19mm, 3/4" -13/16" , 19-21mm
- ✧ 1/2" Dr. x 3" Impact extension bar.
- ✧ Stud cleaning brush size: 12mm
- ✧ Hub cleaning pad size: Ø15mm
- ✧ Wheel stud installer: Fits wheel studs up to 14mm(9/16")



KA-3231FL

Wheel Stud Service Kit

- ✧ This kit provides total solutions for wheel studs.
- ✧ Flip socket with impact extension bar can easily loosen and tighten wheel nuts wheel studs.
- ✧ Stud cleaning tool and hub cleaning tool that drive by impact wrench can remove dirt and rust on wheel studs and hub easily.
- ✧ Wheel stud installer pull s new wheel stud into position within seconds. Bearing designed prevents potential damage of wheel studs or wheel nuts.

Content:

- ✧ Flip socket size : 21-22mm, 21mm-7/8 \" , 7/8\"-15/16\"
- ✧ 1/2\" Dr. x 3\" Impact extension bar.
- ✧ Stud cleaning brush size : 14 mm
- ✧ Hub cleaning pad size: 23 mm
- ✧ Wheel stud installer: Fits wheel stud s up to 22mm (7/8\")



KA-3231L

Drive Axle / Axle Nut Service Kit

- ✧ This kit provides total solutions for drive axle and staked axle nut.
- ✧ Deep impact axle nut socket made by CR-MO steel, 1/2" Dr., 12 points.
- ✧ Stud cleaning tool and hub cleaning tool that drive by impact wrench can remove dirt and rust on drive axle and hub easily.
- ✧ Special designed Staked Axle Nut Punch provides easy and fast way to both un-stake and stake axle nuts.

Content:

- ✧ Deep axle nut socket size: 30, 32, 34, 36, 39mm
- ✧ Staked axle nut punch (KA-3231-P)
- ✧ Stud cleaning brush size: 22mm
- ✧ Hub cleaning pad size: Ø23mm (2pcs)



KA-3231-P Staked Axle Nut Punch

Special designed Staked Axle Nut Punch provides easy and fast way to both release and stake axle nuts. Suitable for crush type axle nuts found on many vehicles.

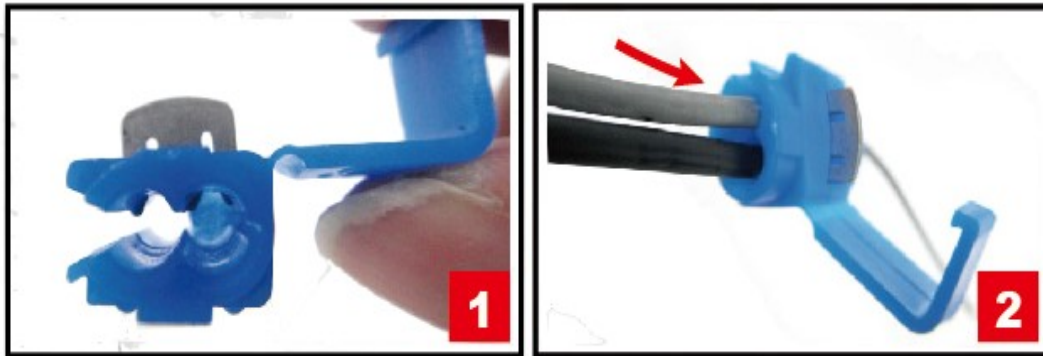
Using the punch simply with a hammer to fully disengage the staked axle nut and reducing the damage to the threads.

This punch can also re-stake the new axle nut to lock it in place.

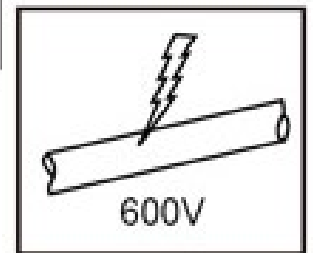
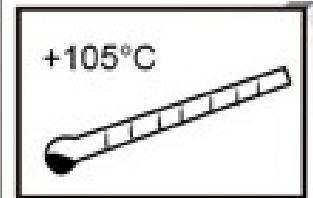


Quick Splice Connector

- **No** Strippers or crimpers required!!
- **Easy** Wire Splicing of Wire
- **Fast, Simple, Strong** Splicing of Electrical Wires

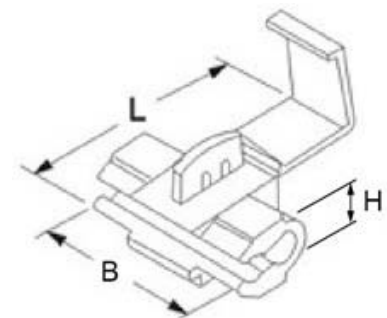



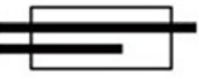

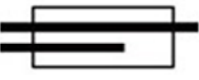

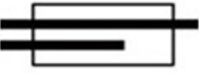

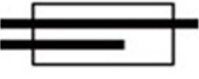
How to use: (1) Lift the flap (2) insert the wires
(3) Close the flap, Blade strip the wires
(4) Secure the flap with pliers.



Application

- (1) Automotive and Transportation Sector
- (2) Commercial and Domestic Appliances.
- (3) Electrical and Electronic Equipment
- (4) Industrial Control System



| Item No | Color | | Wire Range AWG/mm ² | Drawing | Dimension (mm) | | |
|----------|--------|---|---|---|--------------------|--------------------|--------------------|
| | | | | | B | H | L |
| KA-9075R | RED |  | AWG 22-18 0.5 - 1.0/mm ² |  | 0.787" (20.0mm) | 0.315" (8.0mm) | 1.055" (26.8mm) |
| KA-9075B | BLUE |  | AWG 18-14 1.0 - 2.50/mm ² |  | 0.787" (20.0mm) | 0.315" (8.0mm) | 1.055" (26.8mm) |
| KA-9075W | WHITE |  | AWG 18-14 1.0 - 2.50/mm ² |  | 0.787" (20.0mm) | 0.315" (8.0mm) | 1.055" (26.8mm) |
| KA-9075Y | YELLOW |  | AWG 12-10 4 - 6/mm ² |  | 0.787" (20.0mm) | 0.433" (11.0mm) | 1.378" (35.0mm) |

Quick Splice Connector – Combination Pack

- **Easy** Wire Splicing of Wire
- **No** Strippers or crimpers required!!
- **Fast, Simple, Strong** Splicing of Electrical Wires

Item No.: KA-9076RB
Red (25pcs) + Blue (25pcs)

Item No.: KA-9076B
Blue (50pcs)



Quick Splice-Red

AWG 22-18
0.5~1.0 mm²



Quick Splice-Blue

AWG 18-14
1.0~2.5 mm²

Multi-Pack Tube



Packed in PVC tube

| Item No | Color | Quantity (PCS) |
|-----------|------------|----------------|
| KA-9076RB | RED + BLUE | 25+25 |
| KA-9076R | RED | 50 |
| KA-9076B | BLUE | 50 |
| KA-9076Y | YELLOW | 17 |



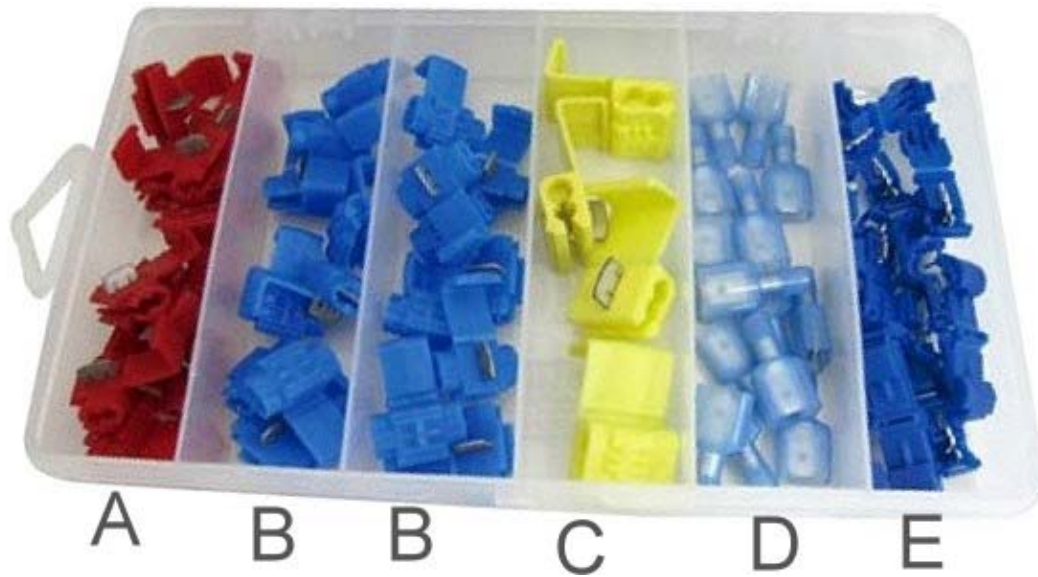
KA-9076K32

Packed in PP Box

| Item No | Color | Quantity (PCS) |
|------------|------------|----------------|
| KA-9076K32 | RED + BLUE | 16+16 |

No.KA-9076K60 60PCE Insulated Terminal Set

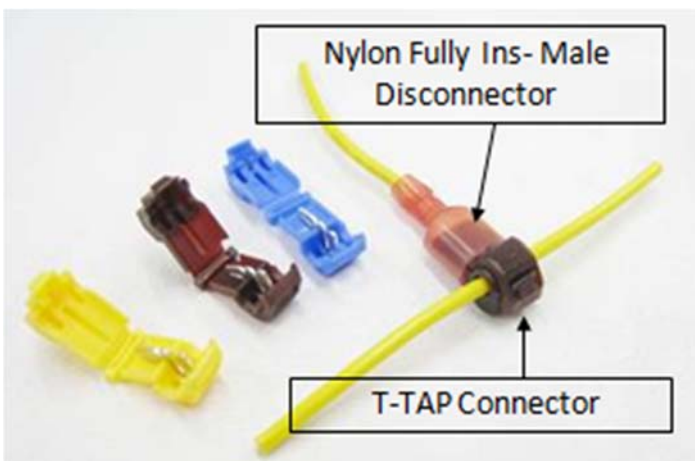
- Splice the wire, connect the wire in T shape.



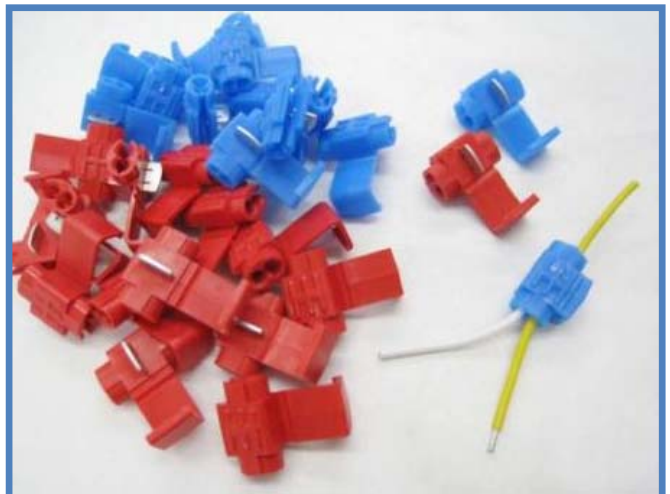
| No. | A | B | C | D | E |
|-------------|------------------------|------------------------|------------------------|-------------------------------------|------------------------|
| Description | Stripping Quick Splice | Stripping Quick Splice | Stripping Quick Splice | Nylon Fully Ins - Male Disconnector | T-TAP Connector |
| SIZE | AWG22-18 | AWG18-14 | AWG12-10 | AWG16~14 | AWG18~14 |
| | 0.5~1.0mm ² | 1.0~2.5mm ² | 4.0~6.0mm ² | 1.5-2.5mm ² | 1.0-2.5mm ² |
| Color | Red | Blue | Yellow | Blue | Blue |
| QTY | 10 | 18 | 4 | 14 | 14 |

(D) Nylon Fully Ins – Male Disconnector

Use Stripper & Crimper to prepare the Wire for splicing



(ABC) Stripping Quick Splice



(E) T-TAP Connector

Insert the wire into the T-TAP Connector.

No need to use stripper/crimper, the metal blade cut open the wrapping of the wire.

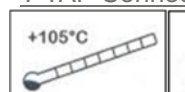
Stripping Quick Splice



Nylon Ins Disconnector

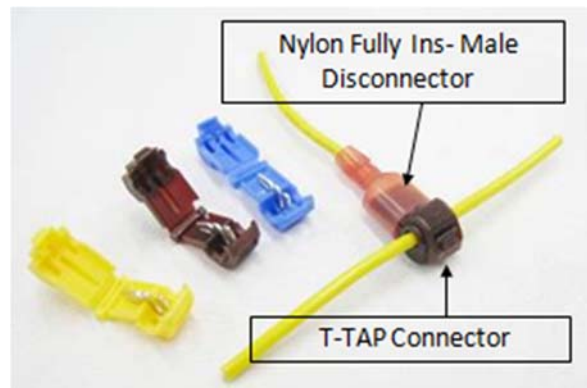


T-TAP Connector

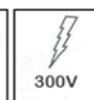
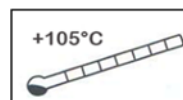


36PCE T-TAP Disconnecter Kit (Item No.KA-9076T36)

- * Quick Installation without stripping wire job.
- * Easy Crimping with regular tool
- * Safety Insulator Tap



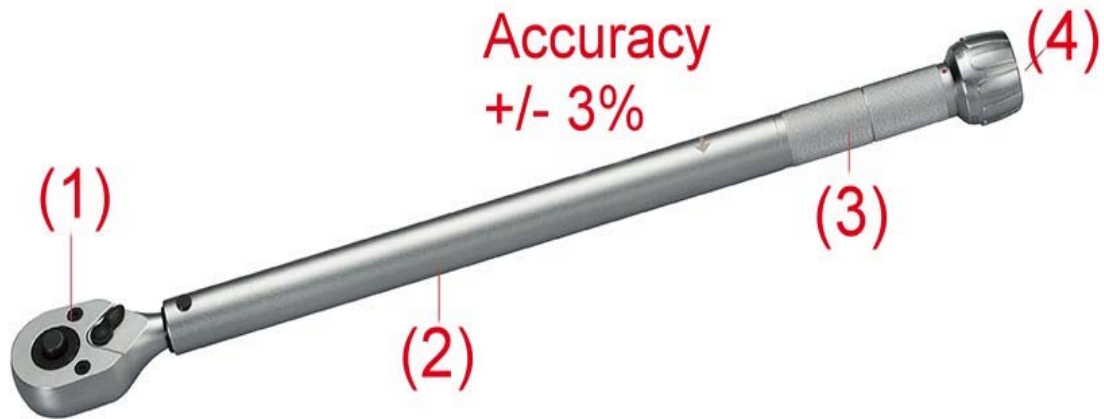
| Description | AWG | mm ² | Color | QTY |
|------------------------|-------|-----------------|--------|-----|
| T-TAP Connector | 22-18 | 0.5-1.0 | Red | 6 |
| | 18-14 | 1.0-2.5 | Blue | 6 |
| | 12 | 4 | Yellow | 6 |
| Nylon Fully Ins - Male | 22-16 | 0.5-1.5 | Red | 6 |
| | 16~14 | 1.5-2.5 | Blue | 6 |
| | 12~10 | 4-6 | Yellow | 14 |



How to Use & Where to Use:



Multi-Range Preset Torque Wrench – Industrial Standard



★ Quality meets DIN ISO 6789 & ASME B107.300-2010.

Features

1. Industrial application with durability.
2. CW/CCW directions.
3. Quick release button design.
4. Torque value can be preset from 85, 103, 108 to 138Nm; we offer 2, 3 or 4 stage options!
5. The knurled metal handle brings the non-slip profit.
6. Easy torque setting with external scale and knob.
7. Lock function is designed to get rid of the possible misuse.
8. Tolerance of torque $\pm 3\%$.



Specification

1. Ratchet head: A highly robust ratchet mechanism for CW and CCW directions application. Quick released design for changing socket quickly. Repair kit for inner spare parts of ratchet head is available.
2. Reliable mechanism: The robust and resistant fully chromed steel tube is ideal of industrial use. An audible and palpable signal indicates automatically when the desire torque value is achieved.
3. Metal Handle: The fine knurled metal handle to against oil, dust and slip issue for even long time use.
4. Adjustment Knob: There are 2 to 4 stage options in preset value from 85,103,108 to 138Nm.
 -> New Type is 5 stage from 80,100,120,140 to 160.
 -> Turn the knob to indicated preset value, then turn switch CW direction to lock.

New

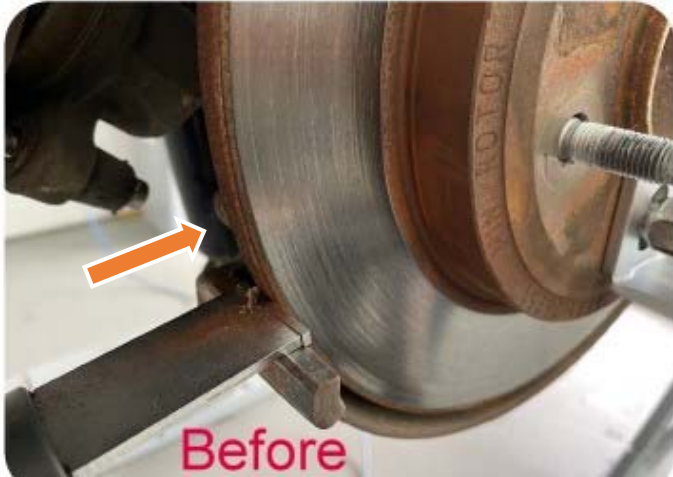
| Item No. | Square Drive | Teeth | Nm | Weight (g) | Length (mm) |
|------------|--------------|-------|--------------------|------------|-------------|
| KA-4536-1D | 1/2" | 32T | 103/108 | 1240 | 462 |
| KA-4536-2D | 1/2" | 32T | 85/103/108 | 1240 | 462 |
| KA-4536-3D | 1/2" | 32T | 85/103/108/138 | 1240 | 462 |
| | | | | | |
| KA-4536-4E | 1/2" | 32T | 80/100/120/140/160 | 1240 | 462 |

Rust Removal Tool Set for Brake Disc and Hub (No. KA-4531KL)

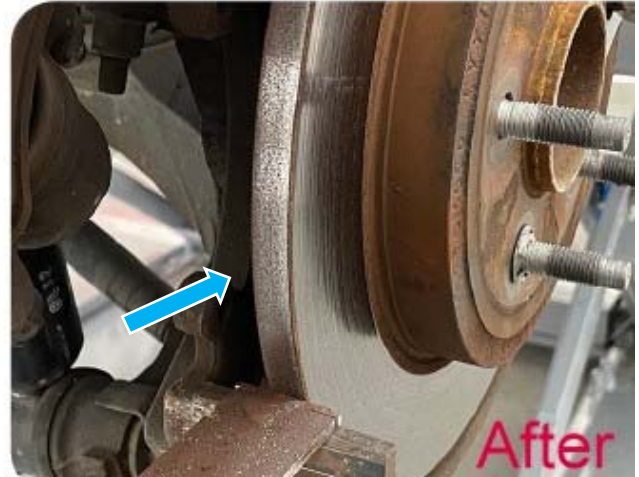
Why you **can't overlook** the rust?

Don't overlook the rust on the brake disc and hub. If the rust is left unattended for too long, rust corrode the discs and eventually cause "pitting". At this stage, corrosion has spread and affect the structural integrity of the brake disc and cause **potential hazard** to driver and car.

Before: Rust is all around



After: Shine Shine Shine



- Remove the rust, corrosion, and lip buildup around the edge of brake discs and hubs
- Simply fix the handle on the brake disc with the original wheel bolt, hold the scraper on the disc edge, and rotate the handle to remove the rust and corrosion
- The scraper removes the old silicone on oil pans, carbon buildup on exhaust manifolds and more.
- Finely ground carbide double edges scrape residues off without leaving a damage on the surface
- Premium **tungsten carbide** tip remains sharp for an extended period of time

Content: KA-4531KL-HANDLE & KA-4531 (Scraper)



* See More Features and How-To-Use on next page *

*** Features * of Rust Removal Tool Set for Brake Disc and Hub (KA-4531KL)**

1. Quickly remove the rust, corrosion, and lip buildup around the edge of brake discs & hubs



2. Fix the handle on the brake disc with a wheel nut or bolt



3. Place the scraper on the brake disc edge. Turn the handle smoothly and rust on the edge will be scraped off quickly



4. Change the location and direction of the scraper to clean other parts of brake disc



Packed in Blow Case with Sponge



KA-4531KL-HANDLE



KA-4531

32mm/1-1/4"
Wide Blade for
Efficient Clean



Free Turn
Handle

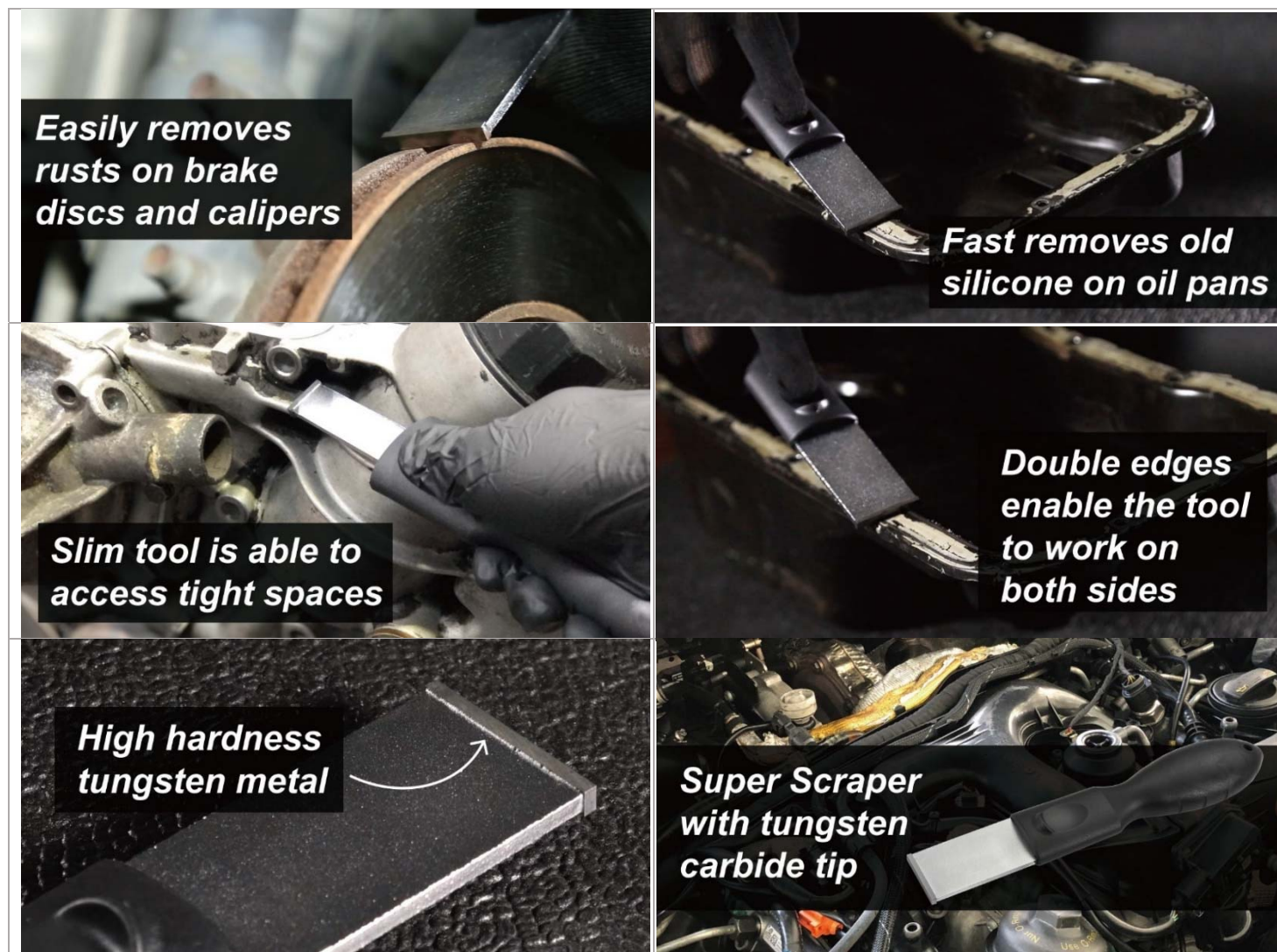
Tungsten HRC 91+/-1
Double edge blade scrape residues off without
leaving damage on the surface.

* Super Scraper *

Tungsten Carbide Tip removes rust, silicone...etc

| No.KA-4531S 17mm Blade Width | No.KA-4531 32mm Blade Width |
|--|---|
| <p>Length: 210mm / 8.26"</p> <p>17 mm (3.2")</p> <p>Tungsten Carbide Tip</p> <p>4.3 mm (0.17")</p> <p>3.2mm (1/8")</p> | <p>32 mm / 1-1/4"</p> <p>Wide blade to clean up more efficiently</p> <p>210 mm / 8.26"</p> <p>Tungsten (HRC 91 ± 1)</p> <p>Double-edged blade scrape residues off without leaving a damage on the surface</p> |

Also available: KA-4531K Super Scraper Set 17mm & 32mm (2pcs/set)



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

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



Application:

PSA , DS , Opel/Vauxhall, Citroën, Peugeot

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

KA-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-2242 *High Leverage* 7-in-1 Combination Pliers

*** PATENTED ***

Stripping/Crimping/Shearing/Reaming/Wire Cutting/Gripping/Bolt Extracting



Stripping



Cut Clean Edge



Cut Hard Wire



Gripping

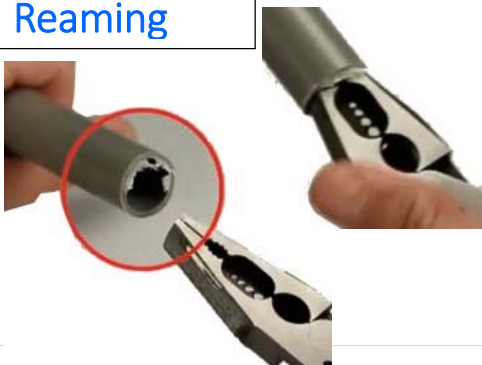


Crimping

Extract Screw



Reaming



KA-2241 *All Purpose* 6-in-1 Combination Pliers

- * Drop Forged & Heat-treated
- * Hardened, Tempered for exceptional Strength & Durability

*6 in 1 Functions:

- Gripping and Looping
- Screw Extractor
- Stripping: 10-18 AWG Solid 12-20AWG Stranded
- Wire Cutting
- Screw Shearing : 6-32 & 8-32 screw
- Crimping



KA-3668-30 **30 Flute** 75mm Oil Filter Wrench for Ford



- 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

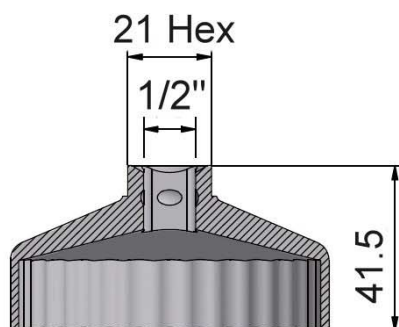
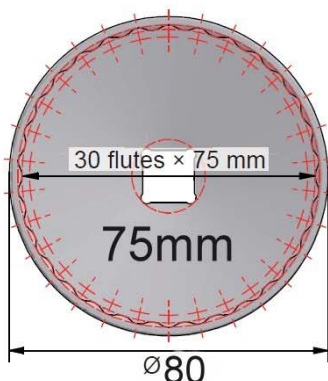
* Please visit our website for application detail.



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!!



| | |
|----------------|-------------------|
| Dimension | 30 flutes x 75 mm |
| Height | 41.5 mm |
| Square Drive | 1/2" DR |
| Material | Steel |
| Surface Finish | S45C |
| Torque | 25 ± 5 Nm |

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.

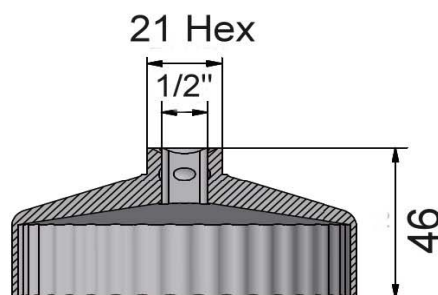
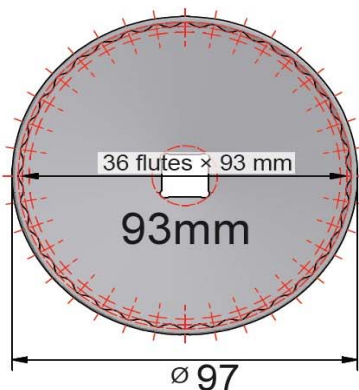
* Please visit our website for application detail.



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.

36 Flutes holds the oil filter tightly!!

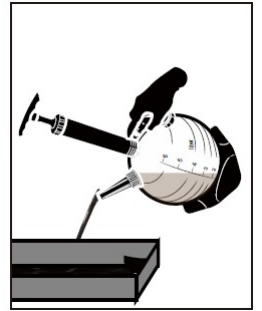
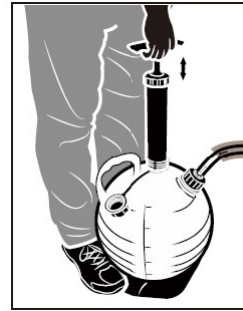
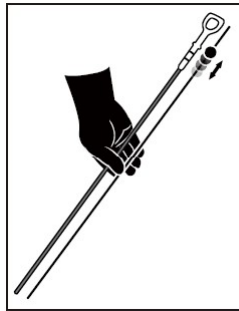


| Dimension | 36 flutes × 93 mm |
|----------------|-------------------|
| Height | 46 mm |
| Square Drive | 1/2" DR |
| Material | Steel |
| Surface Finish | S45C |
| Torque | 25 ± 5 Nm |

KA-6000B Fluid Extractor Set for Engine Oil Service – Step on type



- Manual type vacuum creator for extracting engine oil (and ATF, coolant...etc) during Engine Oil Service
- Capacity: 6 Liters / 1.5 Gallon
- Content:
 - (1) 1 PC Transparent Hose for mechanics to check extracted engine oil quality
 - (2) 1 PC Thin (OD Φ 5.6mm) Hose for Inserting into Dipstick.
 - (2) Conical Adapter for Pouring Dirty Fluid with **No Spills**.
 - (3) Flat tank Base for Feet to Step on to Prevent Wobbling.
- Exclusive Sales in Japan



Hand pump can be securely threaded on tank with a comfortable hand grip.

Transparent hose to help visual inspection on drained fluid.

Ball for marking the length after comparing with dipstick length.

Suction probe Φ 5.6 mm / 7-32" for fitting most dipstick tubes.



Conical pour spout helps discharge fluids from tank with no unsafe spills.

Suitable for draining engine oil, ATF, coolant, and other non corrosive fluids.

6 liter / 1.5 gallon tank capacity suitable for most oils and fluids on a vehicle.

Specially designed tank base for feet to step on to stabilize the tank while pumping.



Unique base that you can step on to stabilize and secure the tank in place!!!

KA-6000BRL Air-Powered Fluid Extractor Set w/Anti-Dripping Design



- Designed for Extracting Engine Oil, Brake Fluid, Coolant & ATF
- 6 Liter / 1.5 Gallon Tank capacity suitable for most fluids in the car.
- High Quality Translucent Tube for Inserting into Dipstick Tube.
- Provided with a Brake Bleeder Valve Adapter for fast brake fluid extraction.
- Special Anti-Dripping device to prevent unsafe oil dripping on the working floor.

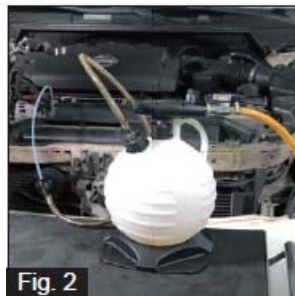


Engine Oil Extraction –

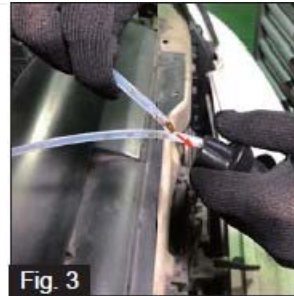
Warm up the engine to working temperature (may range from 60-90°C/ 140- to 194°F).



Remove the oil dipstick & compare the length to the translucent tube



Insert the translucent tube into the dipstick tube with the same length to the dipstick. Connect the tank to air compressor



Turn on the air valve and engine oil will be extracted accordingly. Turn off the air valve, and remove the translucent tube from the engine when engine oil is fully extracted. Insert the tip of the translucent tube to the anti-dripping device to prevent residual oil in the tube dripping on the working floor.

BRAKE FLUID EXTRACTION



Insert a suitable-sized box wrench onto the brake bleeder valve on wheel cylinder. Connect the brake bleeder valve adapter to the brake bleeder valve



Connect the tank to air compressor. Turn on the air valve & brake fluid will be extracted. Turn off the air valve when extracted brake fluid color turns lighter, which indicates that the brake fluid is no longer the old brake fluid.



Unique base that you can step on to stabilize and secure the tank in place!!!

KA-6000BR Air-Powered Brake Fluid Extractor Set - Step on type



- Designed for **Extracting Brake Fluid** with a brake bleeder valve adapter for fast brake fluid extraction.
- 6 Liter / 1.5 Gallon Tank capacity suitable for holding used brake fluid.
- Conical pour spout for spill-free waste oil discharge.



Fig. 1

Insert a suitable-sized box wrench onto the brake bleeder valve on wheel cylinder.
Connect the brake bleeder valve adapter to the brake bleeder valve (Fig. 1).



Fig. 2

Connect the tank to air compressor (Fig. 2).
Turn on the air valve and brake fluid will be extracted accordingly.
Turn off the air valve when extracted brake fluid becomes lighter in color, which indicates that the brake fluid is no longer the old brake fluid.

Air Powered Vacuum creator extracts fluids in minutes

Conical pour spout prevents spill when discharging the fluid from tank

Brake fluid suction hose with a high quality brake bleeder valve Adapter

6 Liter /1.5 Gallon Tank for most oil & fluid in the vehicle

Unique base that you can step on to stabilize and secure the tank in place!!!



KA-6000BRA Air-Powered Oil Extractor Set - Step on type



Designed for Extracting Engine Oil, Brake Fluid, Coolant & ATF

- 6 Liter / 1.5 Gallon Tank capacity suitable for most fluids in the car.
- High Quality Translucent Tube for Inserting into Dipstick Tube.
- Special Anti-Dripping device to prevent unsafe oil dripping on the working floor
- Conical pour spout for spill-free waste oil discharge.



Extracting Engine Oil

Warm up the engine to working temperature (may range from 60° to 90°C / 140° to 194°F).



Remove the oil dipstick and compare the length to the translucent tube.



Insert the translucent tube into the dipstick tube with the same length to the dipstick. Connect the tank to air compressor. Turn on the air valve and engine oil will be extracted accordingly.



Turn off the air valve, and remove the translucent tube from the engine when engine oil is fully extracted. Insert the tip of the translucent tube to the anti-dripping device to prevent residual oil in the tube dripping on the working floor.



| Item No. | Power | Application |
|------------|-----------|---------------------------|
| KA-6000B | Manual | Engine Oil |
| KA-6000BR | Air Power | Brake Fluid |
| | | Engine Oil, Brake Fluid , |
| KA-6000BRL | Air Power | Coolant, ATF |
| | | Engine Oil, Brake Fluid , |
| KA-6000BRA | Air Power | Coolant, ATF |

KA-5437 3 Jaw Oil Filter Instant Wrench

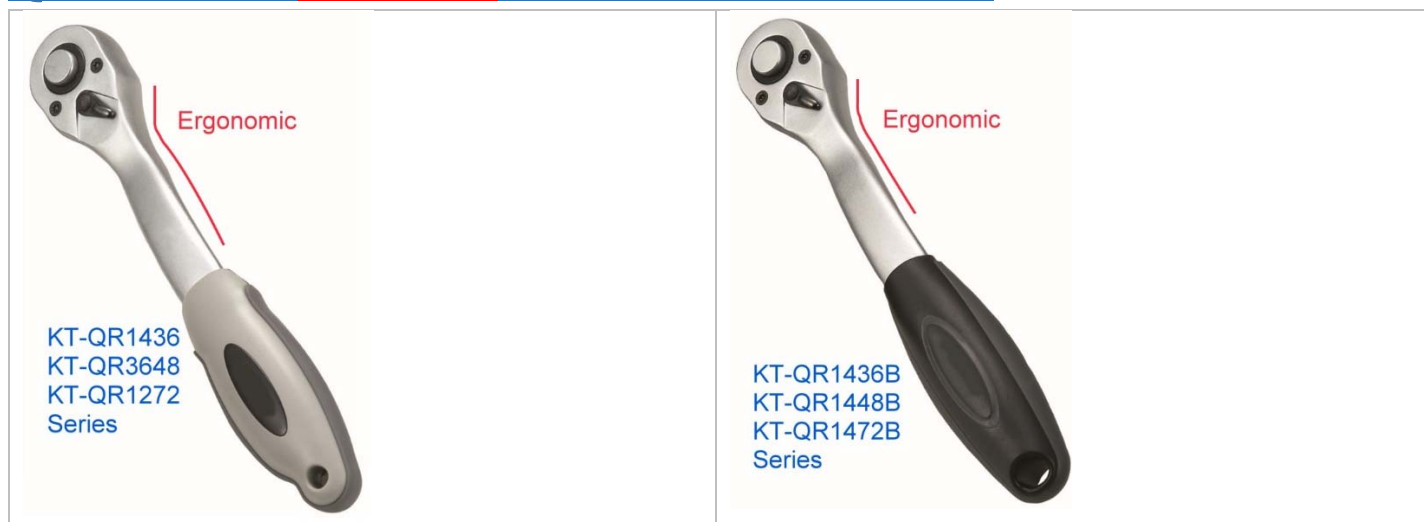





- The Filter Wrench does **not** Fall off **Even Holding Upside Down!!**
- Patented design, made with spring and magnetic, easy to attach on filter and draw back to grip the oil filter automatically.
- Single way to release the oil filter
- 3/8" Square Drive
- Capacity: For oil filter size diameter 60~93mm, fit most car in the market.
- Nickel-Plated & Phosphatizing Finish

*** PATENTED ***



Quick Release *Reversible* Curved Ratchet Handle



| 36T | 48T | 72T | Size | L (mm) |  (mm) |  (mm) |  | ANSI (N.M) | DIN (N.M) |
|------------|------------|------------|----------|--------|--|---|---|------------|-----------|
| KT-QR1436 | KT-QR1448 | KT-QR1472 | 1/4" Dr. | 145 | 25 | 26.5 | 130 | 51 | 62 |
| KT-QR3836 | KT-QR3848 | KT-QR3872 | 3/8" Dr. | 200 | 33 | 32 | 288 | 204 | 202 |
| KT-QR1236 | KT-QR1248 | KT-QR1272 | 1/2" Dr. | 255 | 40 | 40 | 570 | 509 | 512 |
| KT-QR1436B | KT-QR1448B | KT-QR1472B | 1/4" Dr. | 145 | 25 | 27.8 | 134 | 51 | 62 |
| KT-QR3836B | KT-QR3848B | KT-QR3872B | 3/8" Dr. | 205 | 33 | 31.5 | 296 | 204 | 202 |
| KT-QR1236B | KT-QR1248B | KT-QR1272B | 1/2" Dr. | 255 | 40 | 40 | 584 | 509 | 512 |

*** Anti-Oil Grip ***
Ratchet Handle

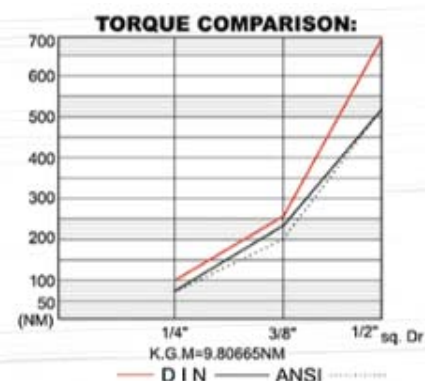


Oil-Resistant, Anti-Corrosion, Durable

| Item NO. | Size | L (mm) |  (mm) |  (mm) |  (mm) | ANSI (N.M) | DIN (N.M) |
|----------|----------|-----------|---|---|---|---------------|--------------|
| KT-14AOG | 1/4" Dr. | 157 | 13 | 26 | 146 | 51 | 62 |
| KT-38AOG | 3/8" Dr. | 201 | 17.6 | 32.5 | 298 | 204 | 202 |
| KT-12AOG | 1/2" Dr. | 258 | 20.6 | 40 | 544 | 509 | 512 |

Packing (T4)

| SIZE | Inner box | CTN | NW (kg) | GW (kg) | CUFT |
|---------|-----------|-----|---------|---------|-------|
| 1/4"Dr. | 12 | 96 | 14.6 | 15.6 | 0.53' |
| 3/8"Dr. | 12 | 48 | 14.7 | 15.7 | 0.62' |
| 1/2"Dr. | 6 | 24 | 13.3 | 14.3 | 0.85' |



Ergonomic



*** Anti-Oil Grip ***
Ratchet Handle

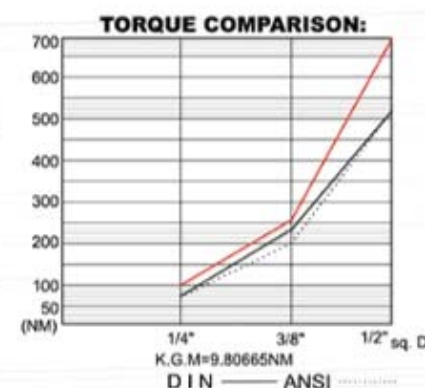


Oil-Resistant, Anti-Corrosion, Durable

| Item NO. | Size | L (mm) |  (mm) |  (mm) |  (mm) | ANSI (N.M) | DIN (N.M) |
|-----------------------|----------|-----------|---|---|---|---------------|--------------|
| KT-14AOG _L | 1/4" Dr. | 160 | 13 | 26 | 142 | 51 | 62 |
| KT-38AOG _L | 3/8" Dr. | 201 | 17.6 | 32.5 | 312 | 204 | 202 |
| KT-12AOG _L | 1/2" Dr. | 256 | 20.6 | 40 | 548 | 509 | 512 |

Packing (T4)

| SIZE | Inner box | CTN | NW (kg) | GW (kg) | CUFT |
|---------|-----------|------|---------|---------|-------|
| 1/4"Dr. | 96 | 14.2 | 15.2 | 0.53' | 0.53' |
| 3/8"Dr. | 48 | 15.4 | 16.4 | 0.62' | 0.59' |
| 1/2"Dr. | 24 | 13.4 | 14.4 | 0.85' | 0.5' |



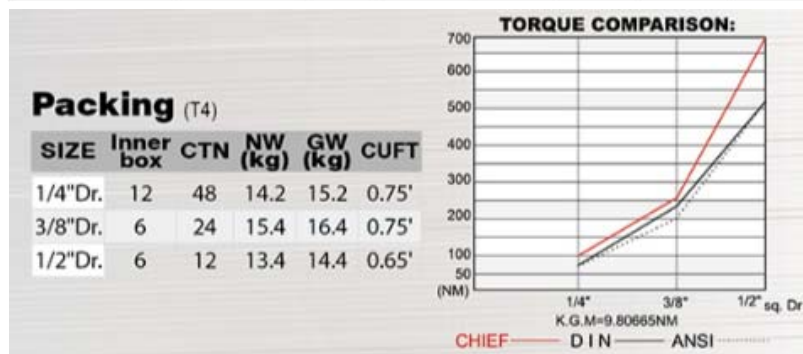
Giraffe Ratchet Handle

*Flex Head Extra Long



Extra Long, Flex Head, Locking.

| Item NO. | Size | L (mm) |  (mm) |  (mm) |  | ANSI (N.M) | DIN (N.M) |
|------------|----------|-----------|---|---|---|---------------|--------------|
| KT-1412XLF | 1/4" Dr. | 285 | 25 | 27 | 260 | 51 | 62 |
| KT-3818XLF | 3/8" Dr. | 450 | 33 | 32 | 704 | 204 | 202 |
| KT-1224XLF | 1/2" Dr. | 610 | 42 | 42 | 1348 | 509 | 512 |






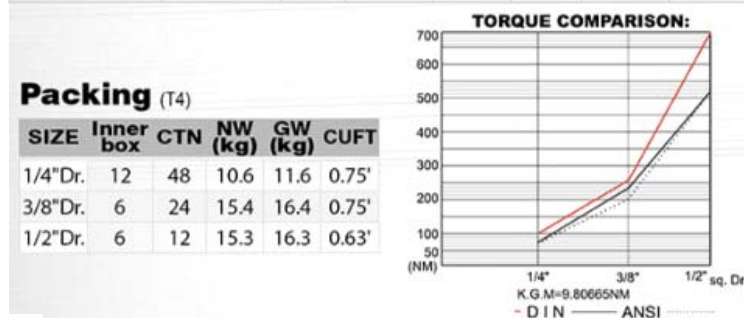
Cobra Ratchet Handle

* Extra Long Neck



Extra Long, Locking



| Item NO. | Size | L (mm) |  (mm) |  (mm) |  | ANSI (N.M) | DIN (N.M) |
|------------|----------|-----------|--|--|--|---------------|--------------|
| KT-1412CXL | 1/4" Dr. | 285 | 25 | 27 | 270 | 51 | 62 |
| KT-3818CXL | 3/8" Dr. | 450 | 33 | 32 | 428 | 204 | 202 |
| KT-1224CXL | 1/2" Dr. | 610 | 42 | 42 | 593 | 509 | 512 |



72T Leopard Ratchet Handle

* Thin Profile *



| Item NO. | Size DR. | L (mm) |  (mm) |  (mm) |  | ANSI (N.M) | DIN (N.M) |
|------------|----------|-----------|---|---|---|---------------|--------------|
| KT-1472TLR | 1/4" | 138 | 18 | 25 | 86 | 51 | 62 |
| KT-1472TLA | 1/4" | 138 | 18 | 25 | 86 | 51 | 62 |
| KT-3872TLR | 3/8" | 192 | 26 | 31 | 204 | 204 | 202 |
| KT-3872TLA | 3/8" | 192 | 26 | 31 | 204 | 204 | 202 |
| KT-1272TLR | 1/2" | 260 | 34 | 39 | 442 | 509 | 512 |
| KT-1272TLA | 1/2" | 260 | 34 | 39 | 442 | 509 | 512 |

KT-1472TLR/ KT-3872TLR/ KT1272TLR

KT-1472TLA/ KT-3872TLA/ KT1272TLA




108T Ratchet Handle - Ergonomic Design

KT-14108RH/ KT-38108RH/
KT-12108RH

KT-14108RH2/ KT-
38108RH2/ KT-12108RH2




KT-14108RHA/ KT-38108RHA/
KT-12108RHA



| Item NO. | Size | L (mm) |  (mm) |  (mm) |  | ANSI (N.M) | DIN (N.M) |
|-------------|----------|--------|--|---|---|------------|-----------|
| KT-14108RH | 1/4" Dr. | 133 | 18 | 22 | 78 | 51 | 62 |
| KT-14108RH2 | 1/4" Dr. | 133 | 18 | 22 | 78 | 51 | 62 |
| KT-14108RHA | 1/4" Dr. | 133 | 18 | 26 | 215 | 51 | 62 |
| KT-38108RH | 3/8" Dr. | 192 | 26 | 28 | 206 | 204 | 202 |
| KT-38108RH2 | 3/8" Dr. | 192 | 26 | 28 | 220 | 204 | 202 |
| KT-38108RHA | 3/8" Dr. | 192 | 26 | 32 | 513 | 204 | 202 |
| KT-12108RH | 1/2" Dr. | 260 | 34 | 36 | 472 | 509 | 512 |
| KT-12108RH2 | 1/2" Dr. | 260 | 34 | 36 | 478 | 509 | 512 |
| KT-12108RHA | 1/2" Dr. | 260 | 34 | 40 | 1061 | 509 | 512 |




Flexible & Extendable Ratchet Handle

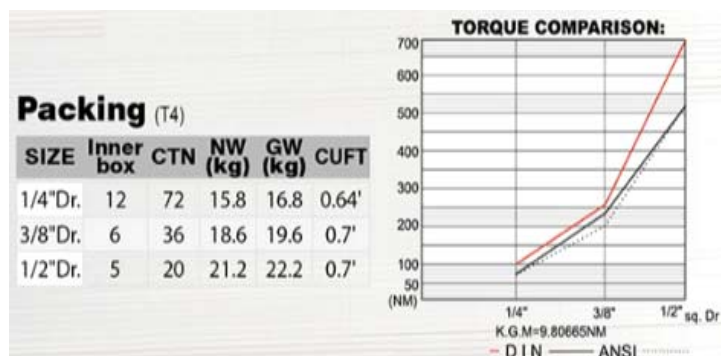


| Item NO. | Size | L (mm) |  (mm) |  (mm) |  | ANSI (N.M) | DIN (N.M) |
|----------|----------|---------|--|--|---|------------|-----------|
| KT-14FR | 1/4" Dr. | 175-225 | 25 | 26 | 212 | 51 | 62 |
| KT-38FR | 3/8" Dr. | 250-350 | 33 | 32 | 508 | 204 | 202 |
| KT-12FR | 1/2" Dr. | 350-490 | 40 | 40 | 1050 | 509 | 512 |

Locking & Flexible & Extendable Ratchet Handle



| Item NO. | Size | L (mm) |  (mm) |  (mm) |  | ANSI (N.M) | DIN (N.M) |
|----------|----------|---------|--|--|---|---------------|--------------|
| KT-14LFR | 1/4" Dr. | 175-225 | 25 | 26 | 215 | 51 | 62 |
| KT-38LFR | 3/8" Dr. | 250-350 | 33 | 32 | 513 | 204 | 202 |
| KT-12LFR | 1/2" Dr. | 350-490 | 40 | 40 | 1061 | 509 | 512 |



KA-5482 V-Ribbed Belt Tensioner Tool Set

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



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

KA-8096 Camshaft Timing Tool Kit for Jaguar, Land Rover Evoque 2.0T Engine



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

KA-8098 Timing Tool Kit for Mercedes-Benz



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

KA-8099 Timing Tool Kit for Mercedes-Benz M152, M157, M276, M278



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



KA-6801N Pulsating Cooling System Flush Tool

Kingtool® Pulsating Cooling System Flush Tool is not like conventional tool. Just connect to water and pressurized air, the “Pulse-Effect” water stream strikes to clean and scrubs deep into the crack, crevices and the corner to remove any stubborn trapped debris.

Kingtool® Pulsating Cooling System Flush Tool can be used for flushing Cooling System, Engine blocks and Heater cores.

- * Don't need solvent or chemical.
- * Proven to be more efficient than conventional flusher.
- * Flushing while maintaining system integrity to assure warranty coverage & parts.

The corrosion and clog in the cooling system are the worst pain points.

The coolant not only degrades over the time, but the foreign materials / abrasive particles can also contaminate the coolant. That would result in everyone's worse pain points: corrosion and clog in cooling system.

The corrosion accumulates to form a harmful deposit/residue /debris in cooling system, engine blocks, radiator, water pump, heater, hoses...etc., and hence inevitably causes many problems, such as clog, coolant leaks, intake manifold failure, damage in the radiator, water pumps, heater cores, hoses, cylinder heads, engine blocks, thermostats...etc.

The only way is to **tackle** the problems is to use the **Right tool** to “Flush” the cooling system out “adequately”. Inadequate flushing does not thoroughly clean the cooling system, and still leaves trapped debris and other deposits that continuously harming the cooling system.

Flush your customer's car with Kingtool® Pulsating Cooling System Flush Tool to earn good reputation from customers.

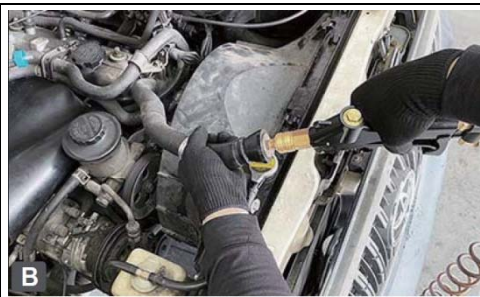
Gear 1



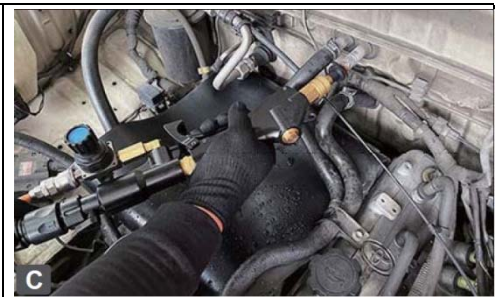
Gear 2



Radiator



Engine Block



Heater Core

"Super Light-weighted" & Higher-Torque

1" Air Impact Wrench - Industrial type

Reduce 36% Weight

25% Higher Torque

We heard your voice! **Demanded** by our European customers, after years of hard works, the "Super Light-weighted" & Higher-Torque 1" Air Impact Wrench is born!! Only 10.9 Kg (24 lbs) !!

The ordinary 1" High Torque Impact wrench is over 17 kgs that is heavy, so it is not easy to maneuver. Besides this, prolonged use might causes shoulder' pain and other injury.

◆ Very Light – prevent fatigue after long use

Patented design reducing the weight by **36%** (about 6.2 kg), only 10.90 kg comparing to ordinary 17kgs ones.

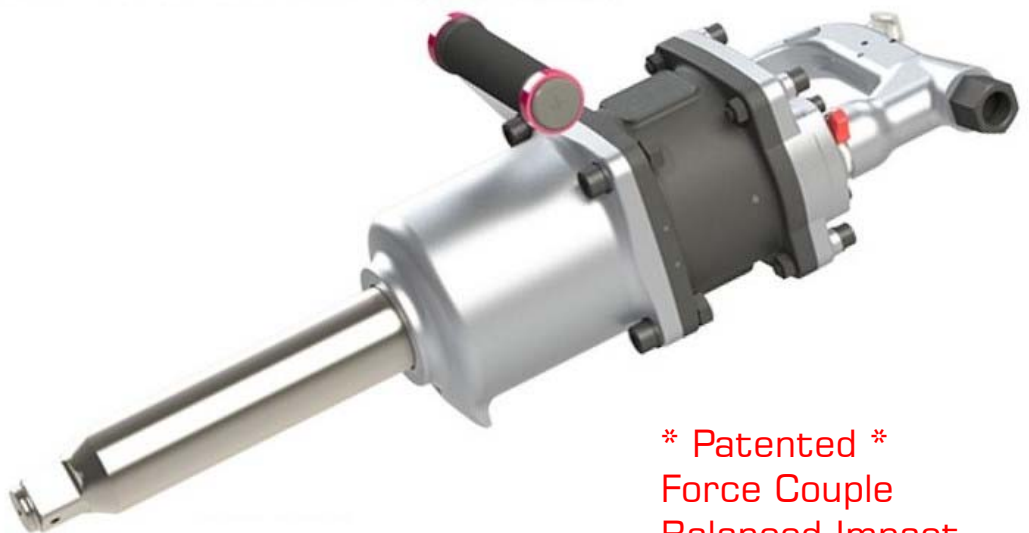
◆ Higher Torque – enhance work efficiency, great for fastening.

Patented Impact structure, the torque is **25%** higher than traditional wrench. Enhance work efficiency and suitable for wider fastening range.

Feature

- * Light Weight
- * Higher Torque
- * Good Balance
- * Ergonomic Design

Only
10.90kg
(24 lbs)



* Patented *
Force Couple
Balanced Impact

1" Long Anvil Super Impact Wrench

| NO. | Free Speed RPM | Max Torque | Fastening Capacity | Switch Type | Air Inlet | Inlet Angle | Total Length | Working Torque |
|-------------|----------------|------------|--------------------|-------------|-----------|-------------|--------------|----------------|
| PA-126HD-A1 | 3000 | 4750 Nm | 50mm | Internal | 1/2" | 7 ° | 580mm | 2000-4370 Nm |
| PA-126HD-A2 | 3000 | 4750 Nm | 50mm | External | 1/2" | 30 ° | 580mm | 2000-4370 Nm |
| PA-126HD-A3 | 3000 | 4750 Nm | 50mm | Internal | 1/2" | 30 ° | 580mm | 2000-4370 Nm |

Air Inlet Angle:

7°: The air hose is closer to user, and safer. Suitable for outdoor operations such as machine assemblies, annual repairs, any repair/engineering jobs.

30°: The air hose is away from user and less likely to tangle the user, so it is more convenient. Suitable for factory operations such as fastening, assemble...etc.

"Super Light-weighted" & Higher-Torque

1" Air Impact Wrench – Industrial Type

*** Patented ***
Force Couple
Balanced Impact

Feature

- * Light Weight
- * Higher Torque
- * Good Balance
- * Ergonomic Design

Only
9.90 kg (21.8 lbs)



1-" Short Anvil Super Impact Wrench

| NO. | Free Speed RPM | Max Torque | Fastening Capacity | Switch Type | Air Inlet | Inlet Angle | Total Length | Working Torque |
|-------------|----------------|------------|--------------------|-------------|-----------|-------------|--------------|----------------|
| PA-126HD-C1 | 3000 | 4750 Nm | 50mm | Internal | 1/2" | 7 ° | 410mm | 2000-4500 Nm |
| PA-126HD-C2 | 3000 | 4750 Nm | 50mm | External | 1/2" | 30 ° | 410mm | 2000-4500 Nm |
| PA-126HD-C3 | 3000 | 4750 Nm | 50mm | Internal | 1/2" | 30 ° | 410mm | 2000-4500 Nm |

"Super Light-weighted" & Higher-Torque

1-½" Air Impact Wrench – Industrial Type

*** Patented ***
Force Couple
Balanced Impact

Feature

- * Light Weight
- * Higher Torque
- * Good Balance
- * Ergonomic Design

Only
10.50 kg (23.1 lbs)



1-1/2" Short Anvil Super Impact Wrench

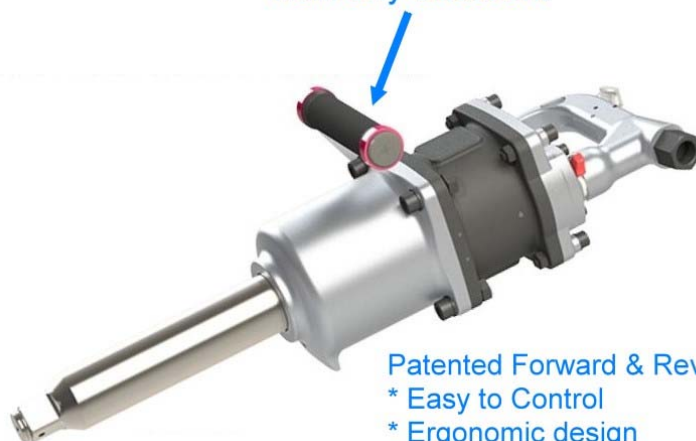
| NO. | Free Speed RPM | Max Torque | Fastening Capacity | Switch Type | Air Inlet | Inlet Angle | Total Length | Working Torque |
|-------------|----------------|------------|--------------------|-------------|-----------|-------------|--------------|----------------|
| PA-126HD-B1 | 3000 | 5000 Nm | 55mm | Internal | 1/2" | 7 ° | 415mm | 2000-4500 Nm |
| PA-126HD-B2 | 3000 | 5000 Nm | 55mm | External | 1/2" | 30 ° | 415mm | 2000-4500 Nm |
| PA-126HD-B3 | 3000 | 5000 Nm | 55mm | Internal | 1/2" | 30 ° | 415mm | 2000-4500 Nm |

Comparison between PA-126HD series & Traditional 1" Air Impact Wrench

| | PA-126HD Series | Traditional | Advantage of PA-126HD series |
|------------------|--------------------------------------|-------------------------------|--|
| Weight | ★ 10.9 kg (24 lbs) | 17.1 kg (37.7 lbs) | *PA-126HD-A1 is 6.2 kgs (36%) lighter than the traditional type. * Prevent fatigue after long term use. |
| Torque | ★ 475 Kg-m (3500 ft-lbs) | 380 Kg-m (2774 ft-lbs) | *The Torque is 26% more, about 95 kg-m /726 ft-lbs more than traditional ones. * It widen the fasten range and more efficient |
| Impact Structure | ★ 4-Pin Balanced Impact Structure | Traditional Pinless Hammer | Good Balance, Higher Torque & Light-Weighted, Longer Life |
| Cylinder | ★ Patented one-piece structure | Traditional 2-piece structure | Light Weight, Higher Torque, Simple Structure preventing repair |

| Model | Size | Free Speed RPM | Fastening Capacity mm/inch | Max Torque kg-m/ft-lbs | Hammer Mechanism | Air Inlet | Air Pressure kg/cm ² /PSI | Total Length mm/inch | Working Torque kg-m/ft-lbs | Net Weight kg/ft |
|-----------------|------|----------------|----------------------------|------------------------|----------------------------------|-----------|--------------------------------------|----------------------|----------------------------|------------------|
| PA-126HD Series | 1" | 3000 | 50 (2") | 475 / 3500 | Patented 4-pins Impact Structure | 1/2" | 8-10 (114-142) | 580 (22.8") | 200-437 (1500-3200) | 10.9 (24.5) |
| Traditional | 1" | 3000 | 50 (2") | 380 / 2774 | Pinless Hammer | 1/2" | 8-10 (114-142) | 620 (24.4") | 200-350 (1500-2600) | 17.1 (37.7) |

Open-Type Handle, let you use the tool from any direction.



Patented Forward & Reverse Structure.
* Easy to Control
* Ergonomic design

Sensor Socket Remover / Installer

No.KA-3239C 3/8" Dr. & Hex 17mm No.KA-3239D 3/8" Dr. & Hex 22mm

Fitting a *new* oxygen sensor is *easy*, but the *Old* one is usually ***Stuck and Stubborn to remove!***

This is why you need KA-3239C & KA-3239D to step in to help!!

Attach KA-3239C & KA-3239D with your air Hammer to make the removal so easy.



Feature:

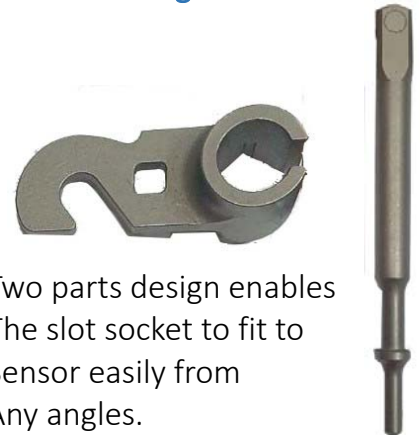
- The slot gets past the wiring that might tangle your way.
- The long 200mm rod let you reach the tucked-away/hiding sensors.
The air hammer vibration force makes the loosening of the stubborn sensors an easy job!!
- Note:** If the access is very confined, it is suggested to remove the exhaust section and transfer them to work on the bench. With appropriate force, the stubborn sensor would come loose.
- Special two parts tool designed to loosen stuck 17mm or 22mm Lambda Sensor with "Air Hammer".
- Tighten/Install the sensors: 3/8" Dr. slot that allows to use with a torque wrench. *Don't use Air hammer to tighten/install the sensor *
- Extract the sensors: Use the 3/8" dr. air hammer to make the job easy.
- Shank: 0.401"(10.18mm-0.15mm)
- All parts made integrally.

Use with Air to Remove Stubborn Sensor



The vibration of Air Hammer helps loosening the stuck and stubborn sensors.
(Air hammer is not included)

Two Parts Design: Rod + Slot Socket



Two parts design enables
The slot socket to fit to
Sensor easily from
Any angles.



No.KA-3760SPL

Pneumatic Bolt Breaker – Attachment to Air Hammer



Feature:

1. Attach shank of this tool to a hammer. Attach the socket at the square drive end.
2. The air hammer vibration force removes the stubborn stuck fasteners, Torx bolt and nuts easily.
3. Shank: 0.401"(10.18mm-0.15mm).
4. Length: 127mm (5")
5. 1/2" SQ Dr. to use with Impact Sockets.

How to use?

Attach impact socket and air hammer





Sizes: 18mm, 19mm, 21mm, 22mm, 24mm

* Material: CRV

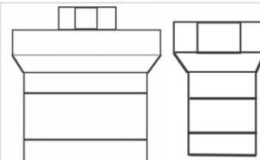
KA-5096 Strut Nut Socket Set (5 pcs/set)

- * 1/2"Dr. sockets with cut-away slot, that can be used with 90 Degree Hex key to hold the strut, while tighten the strut to the correct torque with a torque wrench (Hex key & Torque wrench not included)
- * Application: most popular sizes for European vehicles



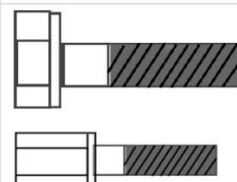
KA-5454L Dimple Die Set – 9 Sizes/set

- Make a dimple effect on sheet metal to make the panel stronger.
- Enhance the strength of sheet metal & reduce weight.
- Design to dimple the 4.8mm steel.
- Dimple the steel with hydraulic press with press nut (
- Dimple the 3mm steel with bolt only (included)
- KA-5454L includes 9 popular sizes dies.



Dimple Die
 φ 12.7 mm (1/2")
 φ 19.1 mm (3/4")
 φ 25.4 mm (1")
 φ 31.8 mm (1-1/4")

Dimple Die
 φ 38.1 mm (1-1/2")
 φ 44.5 mm (1-3/4")
 φ 50.8 mm (2")
 φ 57.2 mm (2-1/2")
 φ 76.2 mm (3")



Dimple Bolt



KA-6991 Air Impact Screw Remover

- Use with Air Hammer and attach a 5/16" Hex Impact Bits to loosen the corroded, rusted, dirty, painted, undercoated and overly-tightened screws quickly and easily.
- Holding the handle to turn the screw easily.
- For cars, trucks, boats, motorcycles and farming equipment.



KA-5430C 21mm Double Offset Caster Wrench

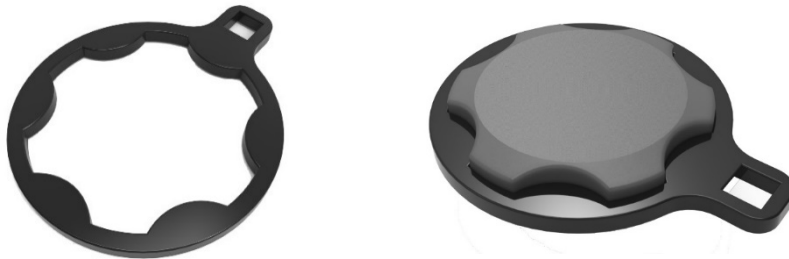
- The 14-1/2" 21mm wrench can be used from the bottom side of the vehicle, instead of working through the wheel. Convenient and big saving on the working time!
- Surrounds the entire perimeter of each cam and gives a non-slip work area while moving the hard-to-reach and rusty cams.



- For 1999 and newer GM pickups and vehicles with coil spring front suspensions.
- Adjusts the upper control arm cams on Chevy & GMC vehicles.

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



For removing the threaded plastic oil filler caps

KA-3820 A/C Compressor Pulley Holding Tool

- * A/C pump (compressor) holding tool for changing the A/C pump or pulley
- * Applications Ford: Kuga (from 2012), S-Max (from 2015), Transit Courier (from 2013), C-Max (from 2010), B-Max (from 2012), Ecosport (from 2012), Edge (from 2015), Fiesta (from 2008), Focus (from 2010), Galaxy (from 2015)



For changing the A/C pump or pulley

KA-2215 1/2 Dr. Gear Nut Wrench for Dodge

- * KA-5430G is specially designed to remove or assemble the main shaft nut.
- * Application: It fits for 1994-2004 Dodge NV4500HD.
- * Material: good quality steel.



Fits for NV4500HD transference used in Cummins & V10 powered Dodge RAM models which have a large diameter main shaft nut.

Steel Line Stopper Kit

Banjo, 5/16", 3/8", 1/2"



KA-5186S Steel Line Stopper Kit

- Spring loaded design to install quickly!
- Perfect for any automotive fluid line repairs : Brake, Transmission cooler line, A/C, Fuel...etc
- Split the brake line without brake fluid leaking and splashing. Eliminate the brake fluid mess for work space.
- Plug the steel lines once disconnected. Smooth rounded edge does not cause damage to internal hose.
- Fit plug lines: Banjo, 5/16", 3/8", 1/2".
- Packed in blow case.



Brake Line Clamp Tool



KA-6990 Brake Line Clamp Tool

- The brake line clamp tool allow you to bend the new tube in accordance with old tube!! Make sure the angle same with old tubes.
- Do not need check every move in bending work.
- Save time and have the tube angle accuracy.
- Capacity: < 5mm



Hydraulic Ram & Slide Hammer Puller



KA-3663K Hydraulic Ram & Slide Hammer Puller Set (10 holes 148.5mm)

Patented safety design hydraulic ram

Capacity: 12 Ton

T Type Hex Head: S45C Ø37.7mm x L168 X 1-1/2"
16T manually or with a torque wrench.

Specification:

- 10 Holes Plate:
- Size: 148.5 mm dia., 90mm height
- Depth for bearing 55, 64, 75 mm
- Suitable for 3, 4, 5, bolt
- Range : 96 ~ 123 mm
- Slide Hammer: 2.8 kgs (6 lb)



Hydraulic Ram & Slide Hammer Puller



KA-3663KC Hydraulic Ram & Slide Hammer Puller Set (8 holes 148mm)

- Diameter of disc:148mm & 8 hole
- Application: Renault/ Peugeot/ Citroen/ VW/Audi/Seat/ Skoda/ Opel/ Volvo/ Fiat etc.
- Hydraulic power:12 tons
- Hammer weight : 4.3kgs

Wheel Arch Clamp



KA-3256W Wheel Arch Clamp

- Quick and easy to set up in a second.
- Hassle free installation and removal.
- Versatile tool on many kinds of applications.
- Wing nut make any adjustment easily.



Edging Pliers

- Excellent tool auto body works, designed to roll sheet metal edges such as fenders.
- Applicable for steel, copper, aluminium, zinc and lead sheets up to 1 mm thickness.
- Edging Pliers deliver a clean finish.
- Featuring ductile-iron construction.

KA-6979EPS Straight Type



KA-6979EP4 45 Degree



KA-3256W 90 Degree

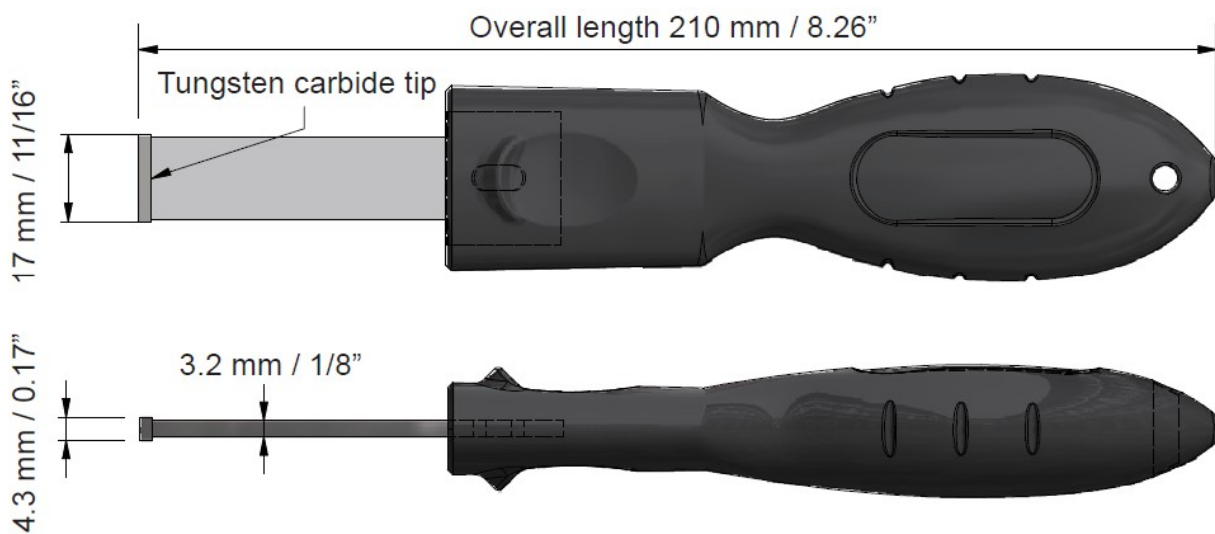


KA-4531S Super Scraper (17mm / 11/16" Width)

- To scrape off old silicone on oil pans, carbon buildup on exhaust manifolds, or rusts on brake calipers.
- Finely ground carbide double edges scrape residues off without leaving a damage on the surface.
- Premium tungsten carbide tip remains sharp for an extended period of time.
- Slim tool suitable to work in limited spaces.



| Mohs scale of hardness | |
|------------------------|---------------------------|
| 10 | Diamond |
| 7.5 | Tungsten , emerald |
| 4.5 | Steel |
| 2.5 | Gold, aluminum |

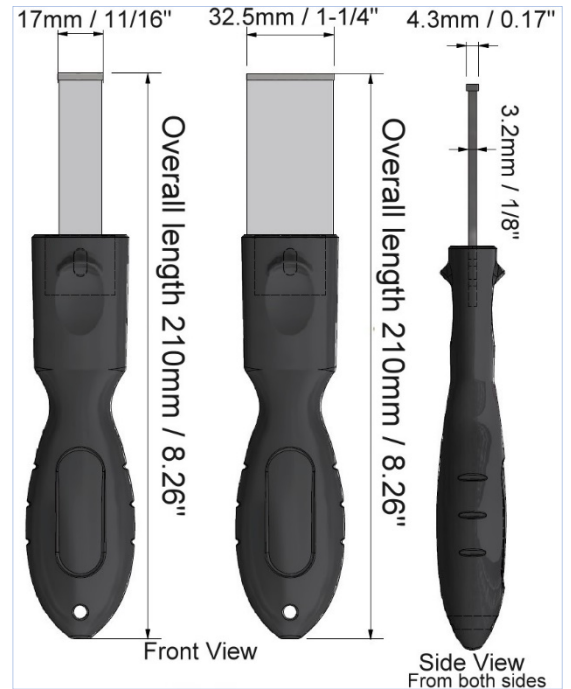


Scrape off old silicone on oil pans, carbon buildup on exhaust manifolds, or rusts on brake calipers.



KA-4531K Super Scraper Set (17mm / 11/16" & 32.5mm / 1-1/4" Width)

- To scrape off old silicone on oil pans, carbon buildup on exhaust manifolds, or rusts on brake calipers
- Finely ground carbide double edges scrape residues off without leaving a damage on the surface
- Premium tungsten carbide tip remains sharp for an extended period of time
- Slimmer tool suitable to work in limited spaces
- Ergonomic handle design offers comfortable grip

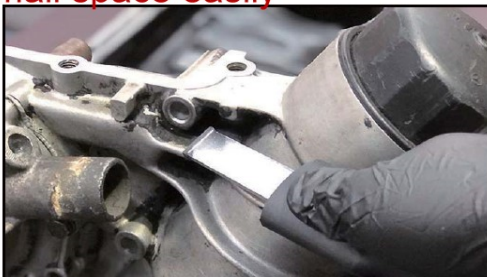


Highly Efficient in scraping off old silicone on oil pan.



| Mohs scale of hardness | |
|------------------------|---------------------------|
| 10 | Diamond |
| 7.5 | Tungsten , emerald |
| 4.5 | Steel |
| 2.5 | Gold, aluminum |

Remove the carbon buildup without using chemical cleaner
Slimmer tool gives access to small space easily



Remove the rusts on brake discs and calipers



KA-7368S 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



| Technical Data | |
|----------------|------------|
| Length | 610mm |
| Width | 50mm |
| Thickness | 6mm |
| Material | S50C steel |
| Tolerance | < 0.03mm |

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).

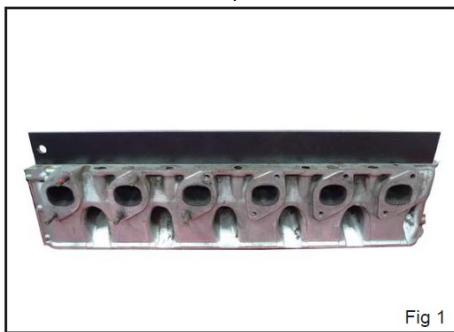


Fig 1

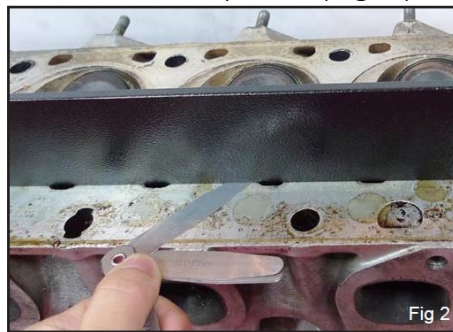
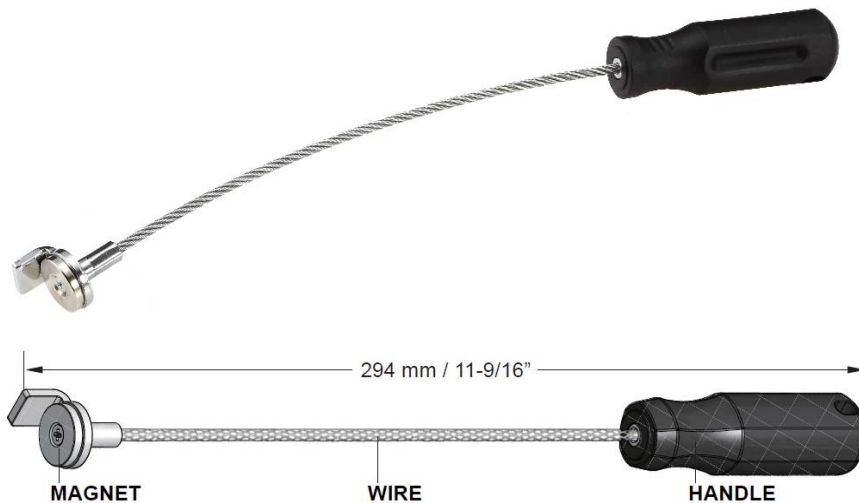


Fig 2

KA-6986 Magnetic Drain Plug Tool (294mm)



1. Removes drain plugs on hot engine and transmission pans with no direct physical contact
2. Strong magnet sticks to plugs firmly
3. Universal application
4. Also useful when picking up screws or nuts if fallen in engine compartment

1. Use a regular wrench and socket for an initial loosening on the drain plug (Fig. 1).
2. Attach the magnet drain plug tool to the drain plug (Fig. 2)
3. Turn the tool along with the drain plug counter-clockwise, and then the old oil will be drain subsequently (Fig. 3 and 4).

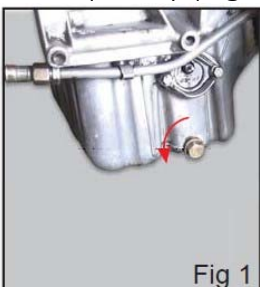


Fig 1

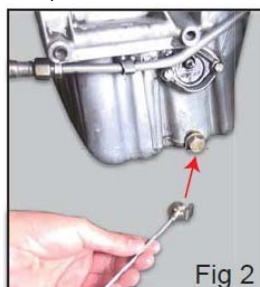


Fig 2



Fig 3

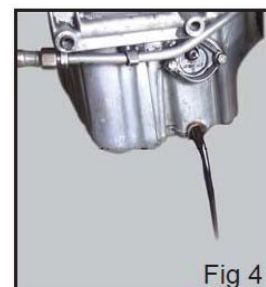


Fig 4

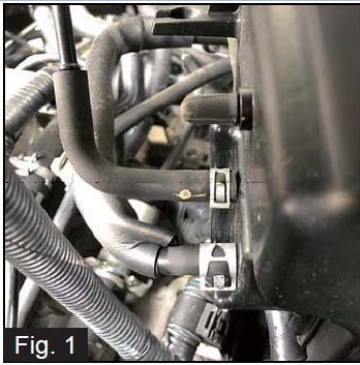
KA-6980F Multi-Direction *Offset* Pliers 225mmL



35 Degree Offset design allows pliers reach awkward locations.



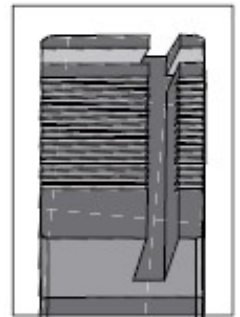
- 255mm Long reach pliers to access to limited spaces easily



- 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).



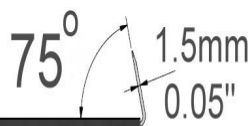
- Special crossing grooves enable pliers to work from different directions.



KA-5458R Light Cover Remover

- Removes light covers without creating damage on the cover
- Head with a special angle helps remove light covers easily
- Rubber covered body prevents scratches on body paints
- Large handle provides comfortable grip

Material: CR-Mo Steel
Hardness: HRC 43-47
Finish: Electro-deposit



Operation:

1. Slide the head part of the tool into the gap on the light cover (as Fig. 1).
2. Slightly pry the light cover.
3. Repeat the previous two steps on several locations on the light cover.

KA-3824LK Double Duty Flip Socket Set (6 pcs) Twist Socket + Hex Socket



| | Left Side (Twist) | Length | Right Side (Hex) |
|---------|-------------------|--------|------------------|
| 17 mm | | 66.5mm | |
| 19 mm | | 66.5mm | |
| 20.6 mm | | 66.5mm | |
| 21 mm | | 66.5mm | |
| 22.2 mm | | 66.5mm | |
| Adapter | | | |

| | |
|-------------------|---------------------|
| Material | SCM440 |
| Surface Treatment | Magnesium Phosphate |
| Hardness | HRC 46-49 |

- Standard hex on one end, and 6-point twist on the other end for removing damaged lug nuts
- Size: 17mm, 19mm, 13/16", 21mm, 7/8" (22mm)
- 1/2" square drive adapter to connect in the middle of the socket
- Do not use the twist side to install new nuts. **Twist side for removal only.**
- KA-3824LK is **not** for using with Air/Impact Wrench Operation.



Fig 1



Fig 2

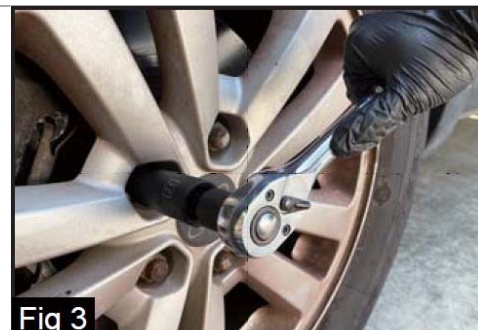


Fig 3

Choose a suitable-sized twist socket from the set (Fig 1).

Fit the twist side to the nut to be removed, and connect the 1/2" extension drive to the middle of the socket (Fig 2).



Connect a ratchet wrench to the square drive, and turn anti-clockwise for removal (Fig 3).

KA-2715P9 Screw Nut Extractor (9 PCS)



- Drill a hole and use this set to remove worn or rusty inner hex bolt.
- Tool with square drive to work with a ratchet wrench for additional torque.
- Size: 2mm, 3mm, 4mm, 5mm, 6mm, 7mm, 8mm, 10mm, 12mm
- Product NOT designed for Air/Impact wrench operation



| | | | | | |
|--|------------------|-------------|----------|-------------------|-------------------|
|  | Square Drive (D) | 3/8" Dr. | 1/2" Dr. | Surface Treatment | Magnese Phosphate |
|  | Size (mm) (S) | 2,3,4,5,6,7 | 8,10,12 | Material | 8660 Steel |
| | Length (mm) (L) | 45 | 62.5 | Hardness | HRC 49-52 |

Operation

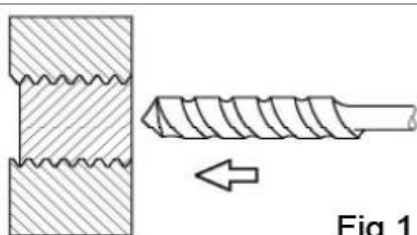


Fig 1

Choose a suitable sized bolt extractor, and drill a hole 0.5mm bigger than the bolt extractor (Fig. 1).

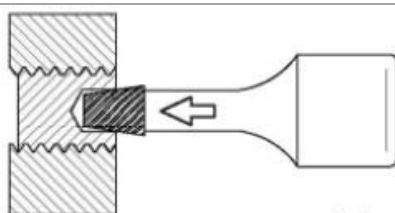


Fig 2

Remove the drill. Insert the bolt extractor (Fig. 2).

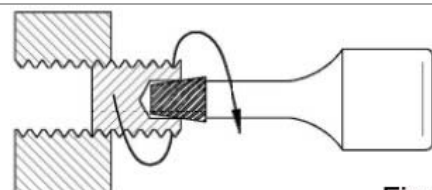


Fig 3

Turn the extractor anti-clockwise to remove the screw/bolt (Fig. 3).

KA-6981L Stud Remover and Installer Set



- Removing and installing studs or broken bolts without damaging the threads
- Special steel ball design facilitates & **provides** energy-saving way of installing new studs
- Includes the most common stud sizes in standard sizes (11 pcs, SAE)

| SIZE | 5/16"x 18 5/16" x24 | 7/16" x 14 | 3/8" x 16 3/8" x 24 |
|-------------------|------------------------|------------|------------------------|
| Surface Treatment | Magnese Phosphate | | |
| Material | AISI 6150 Alloy Steel | | |
| Hardness | HRC 49-52 | | |

● Removal

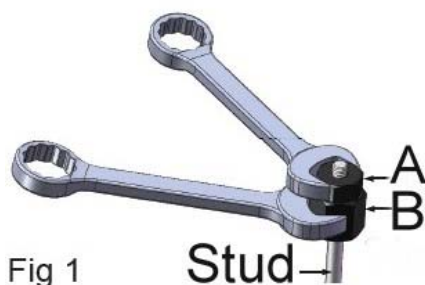


Fig 1

● Removal

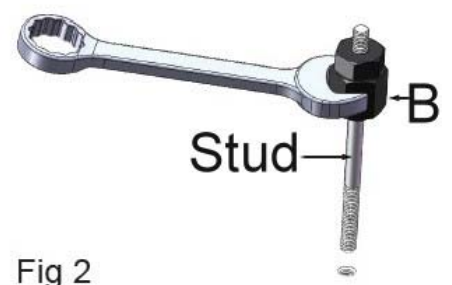


Fig 2

1. Screw a suitable-sized remover onto the stud until the upper nut reaches the stud tip.
2. Use two wrenches to tighten part A and B together (Fig. 1).

3. Keep the wrench on part B and turn anti-clockwise until stud is removed (Fig. 2).

● Installation



Fig 3

● Installation



Fig 4

1. Screw a new stud into a suitable-sized installer until the stud reaches the steel ball (Fig. 3).

2. Screw the stud into the stud hole.
3. When the stud is screwed firmly into the hole. Unscrew the installer by loosening the internal hex nut with an Allen wrench (Fig. 4)

KA-2393N 1/2" Dr. Twist Socket Set (21 pcs)

For Removal only.

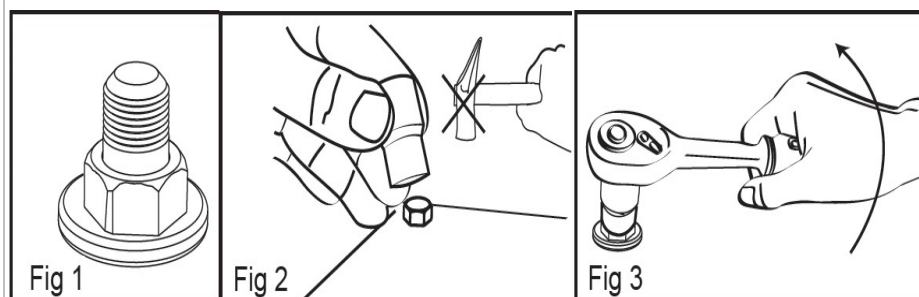
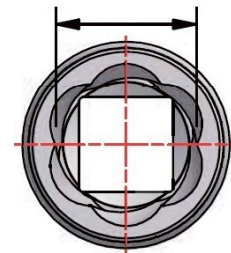


- Twist sockets for removing worn or rusty nuts
- Includes a punch bar to punch stuck bolts/nuts out of socket
- For removal only.
- Do not use twist sockets to install new nuts
- Product NOT designed for air/impact wrench operation

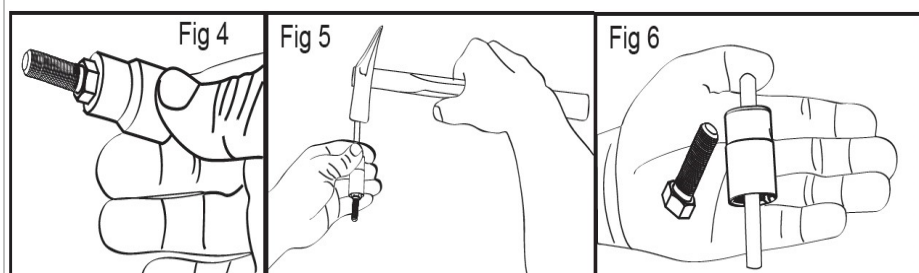


| | |
|----------|-----------|
| Material | SNCM 439 |
| Surface | Manganese |
| Treatmen | Phosphate |
| Hardness | HRC 50-53 |

| | | |
|--|------------------|--|
| | Square Drive (D) | 1/2"Dr. |
| | Size(mm) (S) | 6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,24,27mm |
| | Length (mm) (L) | 38 |



1. Choose a suitable-sized twist socket and fit to the nut to be removed (Fig. 1 and 2).
2. Connect a ratchet wrench or spanner to the socket and turn counter-clockwise (Fig. 3).



3. After removal, the nut may be stuck in the socket. Use a punch bar provided and a hammer to punch the stuck nut out of the twist socket (Fig. 4, 5 and 6).


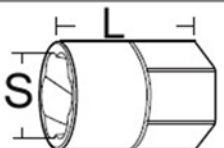
KA-2393R 1/2" Dr. Twist Socket Set (7 pcs)

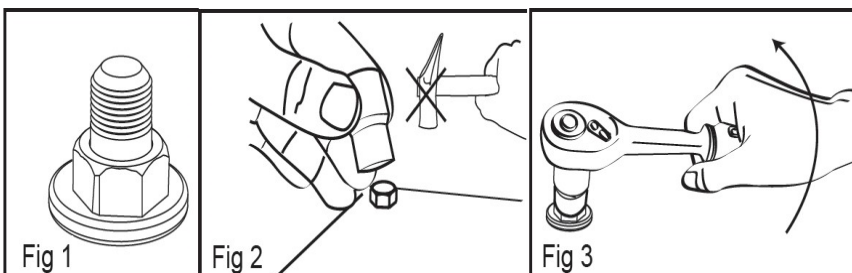
Use manually or with an air/impact wrench



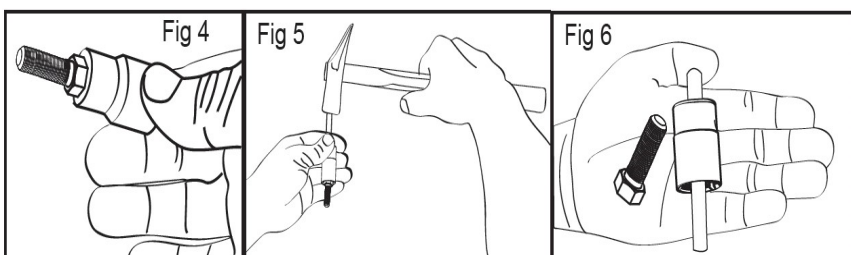
- Twist sockets for removing worn or rusty nuts
- Includes a punch bar to punch stuck bolts/nuts out of socket
- For removal only. Do not use twist sockets to install new nuts
- Product can be worked with an air/impact wrench



| | | | | | | | | | |
|---|------------------|----------|----|----|----|----|----|-------------------|-----------|
|  | Square Drive (D) | 1/2" Dr. | | | | | | Surface Treatment | Phosphate |
|  | Length (mm) (L) | 40 | 44 | 44 | 44 | 44 | 44 | Material | SCM 440 |
| | Size(mm) (S) | 28 | 30 | 32 | 33 | 34 | 36 | Hardness | HRC 45-49 |



1. Choose a suitable-sized twist socket and fit to the nut to be removed (Fig. 1 and 2).
2. Connect a ratchet wrench or spanner to the socket and turn counter-clockwise (Fig. 3).



3. After removal, the nut may be stuck in the socket. Use a punch bar provided and a hammer to punch the stuck nut out of the twist socket (Fig. 4, 5 and 6).

KA-6801N Cooling System **Pulse** Flushing Tool Set (with water !!)

Flush the Radiator, Upper/Lower hoses, Heater Core.

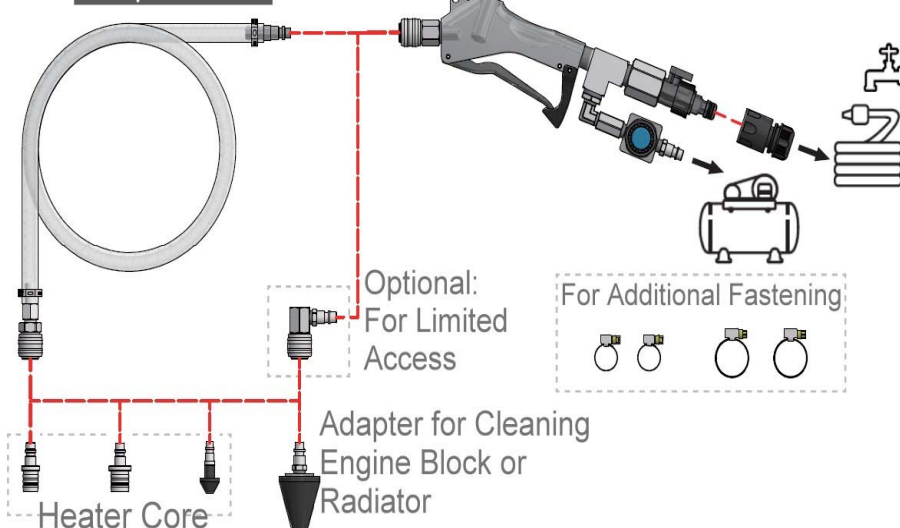


- Powerful flush cleans impurities in cooling system with pulsating effect.
- Connects to air compressor and garden hose for flushing the cooling system.
- Special back pressure one-way valve to avoid excessive pressure accumulated in water hose.
- Regulator Equipped to adjust the water pressure.
- Adapters included for radiator, upper/lower hoses, and heater core:
 - (1) A conical adapter for fitting radiator filler necks.
 - (2) 5/8" & 3/4" heater hose barbs and small conical adapter for flushing heater side.

Flush Tool Detail



Preparation



1. Connect a garden hose (not included) to the garden hose connector.
2. Connect the tool to air compressor.
3. Depending on the cleaning area, select the appropriate adapters.

Cleaning the radiator -

Connect the flush tool to the big conical adapter, and connect the adapter to radiator filler neck.

Cleaning engine block -

Connect the flush tool to flush hose and the big conical adapter via upper hose or lower hose.

Cleaning heater core -

Connect the flush tool to flush hose and one of the heater core adapters, secured the connection by the hose clamps provided.

4. Prepare a bucket (not included) to collect the liquid flushed out of the system at the water outlet.

OPERATION

1. Turn on the water faucet, and adjust the pressure regulator to the pressure desired.
2. Press the trigger to the first gear to create the flushing water flow with a pulsating effect. Press the trigger to the second gear to create the flushing water flow without a pulsating effect.
3. Collect the liquid flushed out, and check the impurities or debris within, and do the proper maintenance, for example changing a water pump, if necessary.

KA-7230F

"No more Anxious for Electric Vehicle, KA-7230F get you covered"

Cooling System Leakage Tester and Vacuum-Type Coolant Refilling Kit

- for Electric & Regular Non-EV Vehicles.



- Set for testing leaks in automotive cooling system and refill new coolant by creating a vacuum in cooling system
- Includes 21 adapters (No. 3-23) for major car makes on the market
- Special 90° connector for fitting on recovery tanks located deep in the engine compartment
- Adapters and pump are made of light weight nylon 66
- Connectors (blue and black) are for testing pressure caps



Anxious No More about the surge of EV cars. EV cars will no longer have internal combustion engines, but the brake and cooling systems remain much the same as non-EV cars. KA-7230F is applicable on EV market!!



KA-4123-12/24/36/48

* Clean the Filter and Regular with Air ~~~~

Tube-Type Cleaner with Air

Air In, Dust Out ~~

48"

36"

24"

12"



- Tube type cleaner with compressed air to clean hard-to-access areas, such as filters and radiator.
- 90° angle and 5-port air outlet to increase accessibility and maximize air pressure and volume.
- Ergonomic handle design enables users to control the air direction easily and work with the tool comfortably.

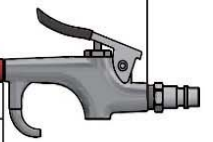
| | |
|----------------------|--------------------|
| Tube Material | Aluminum |
| Working Pressure | 90 psi / 6.2 bar |
| Max. pressure | 170 psi / 11.7 bar |
| Avg. Air Consumption | 5 CFM / 140 LPM |
| Inlet threads | 1/4" |

Diameter Ø
0.47" / 12 mm

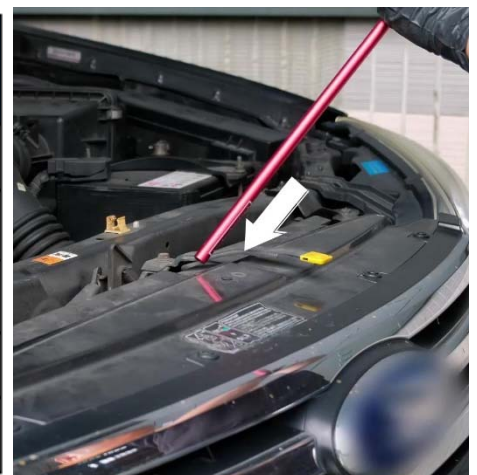
5-port air outlet
↑↑↑↑↑

Overall length*

Tube length**



| Item No. | KA-4123-12 | KA-4123-24 | KA-4123-36 | KA-4123-48 |
|----------------|---------------|------------|------------|------------|
| Tube Length | 12" | 24" | 36" | 48" |
| Tube Length | 304mm | 609.6mm | 914.4mm | 1219.2mm |
| Overall Length | 15" | 27" | 39" | 51.1" |
| Overall Length | 383mm | 688mm | 993mm | 1298mm |
| Tolerance | ±0.08" / ±2mm | | | |



KA-6872K /KA-6872 Brake Pressure Bleeder Set

KA-6872K with a 1-liter/quart old brake fluid bottle

KA-6872



Brake Pressure Bleeder Set

- One-person operation on brake bleeding by pressurizing the brake system from master cylinder
- Efficient in pushing out debris from brake system
- 3-liter / 3.17-quart tank with a safety pressure relief valve
- Includes a standard European adapter with a swivel 90° fitting to tackle limited space
- One-way valve is fitted in the hose end connector to prevent unsafe brake fluid spills after disconnecting the hose from master cylinder

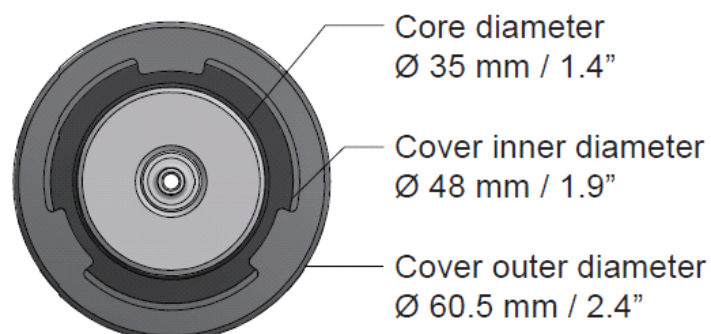
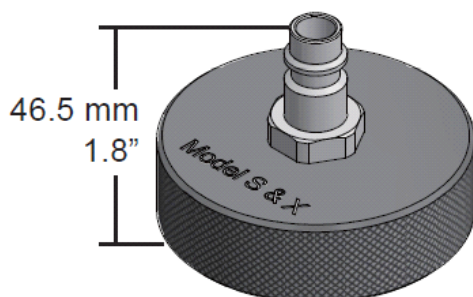
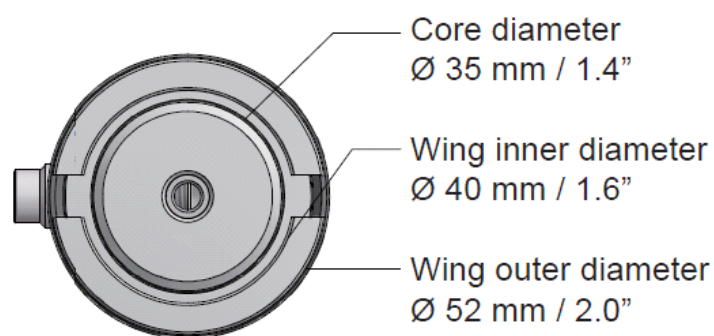
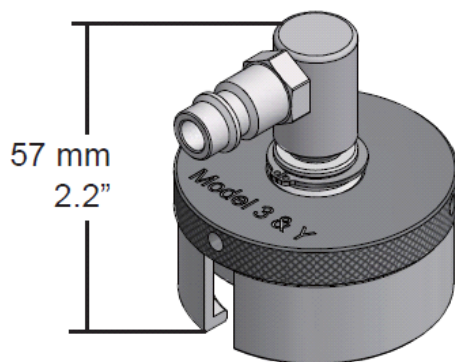


KA-6873T Brake Bleeder Adaptor Set for TESLA

- Kit specially designed for performing power brake bleeding on Tesla vehicles
- Adapters for Tesla Model S and X, Tesla Model 3 and Y
- Metallic adapter holds pressure up to 2.5 bar / 36 psi
- Compatible with most brake pressure bleeder machines or tank pumps



| Model | Year | Adapter |
|---------|-----------|-------------|
| Model S | 2012-2021 | Model S & X |
| Model 3 | 2017-2021 | Model 3 & Y |
| Model X | 2015-2021 | Model S & X |
| Model Y | 2020-2021 | Model 3 & Y |



Instruction for KA-6873T Brake Bleeder Adaptor Set for **TESLA**

1. Disconnect the 12-volt power before bleeding the brake system.
 2. Remove the master cylinder reservoir cap.
 3. Find a suitable adapter to connect on the reservoir
 4. The pressure bleeding tool or machine to the adapter.
 5. Follow the instructions as specified by the pressure bleeding tool and Tesla service manual.
- *It is recommended to perform a leak test to ensure if the adapter is tightly and securely connected on the reservoir



Fig. 1



Fig. 2 Locate the master cylinder reservoir



Fig. 3 Remove the reservoir cap



Fig. 4 Insert the adapter into the filler neck



Fig. 5 Close the adapter arms



Fig. 6 Turn the top cover to fasten



Fig. 7 Ensure the adapter is well installed

KA-6873 Brake Bleeder Adapter Set

- Designed for applications on master cylinder reservoirs from 2001 to 2021
- Covers at least 90% of all the common vehicles on the market
- Adapters with a standard European air plug type, suitable for most pressure bleeding tools or machines on the market
- Most adapters have a swivel 90° fitting to tackle limited space problems



| No. | Application |
|-----|---|
| 1 | Toyota, Lexus (all models) |
| 2 | Chevrolet, GMC, Ford, Hyundai, Kia, Mazda, Mitsubishi |
| 3 | Honda, Acura (all models) |
| 4 | European standard, Ford, and Nissan |
| 5 | Mazda, Suzuki |
| 6 | Nissan (Cube, Juke, Leaf, Micra, Versa) |

KA-6873N Brake Bleeder Adapter Set

- Designed for applications on master cylinder reservoirs from 2001 to 2021
- Covers at least 92% of all the common vehicles on the market
- Adapters with a standard European air plug type, suitable for most pressure bleeding tools or machines on the market
- Most adapters have a swivel 90° fitting to tackle limited space problems



| No. | Application |
|-----|---|
| 1 | Toyota, Lexus (all models) |
| 2 | Chevrolet, GMC, Ford, Hyundai, Kia, Mazda, Mitsubishi |
| 3 | Honda, Acura (all models) |
| 4 | European standard, Ford, and Nissan |
| 5 | Mazda, Suzuki |
| 6 | Nissan (Cube, Juke, Leaf, Micra, Versa) |
| 7 | Chrysler, Dodge, Jeep, Ram, Mitsubishi (Raider) |



KA-6873EU

Brake Filling Adapter Set

- Adapter kit for fitting brake master cylinder caps to introduce brake fluid connected from brake service machines
- Includes 3 specific adapters and 1 universal adapter with a fastening chain
- E20 adapter with a 90° extension hose and free rotation feature provides unrestricted access to limited spaces

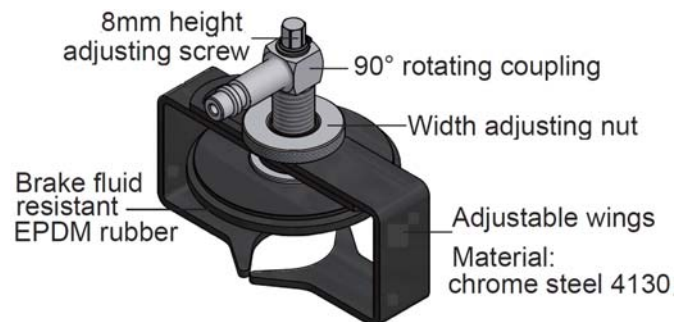


| No. | Size | Application |
|-----|------------|---|
| 1 | Ø78.1mm | Universal fitments with a chain |
| 2 | Ø33mm | Chrysler, Ford, Hyundai, Mazda |
| 3 | Ø79.5xP3.0 | Mitsubishi, Subaru, Suzuki, Volvo S40&V40 |
| 4 | Ø46.5xP3.5 | European Vehicles, Ford, Nissan |

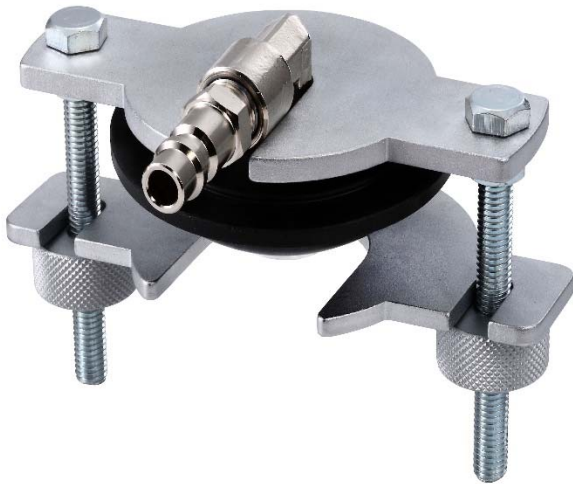
KA-7847

Universal Brake Refilling Adapter

- Brake refilling adapter with a 90° rotating coupling fits almost all vehicles on the market
- Fits master cylinder fill neck between Ø26-79 mm (1.0"-3.1")
- Maximum pressure up to 3.5 bar (50 psi)

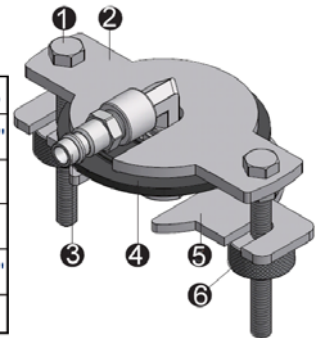


KA-6873UN Universal Brake Refilling Adapter –Fastener Type



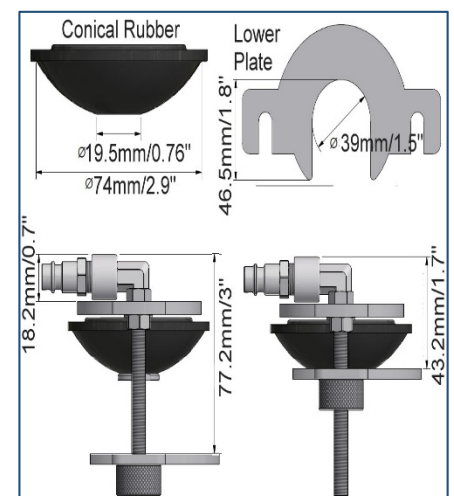
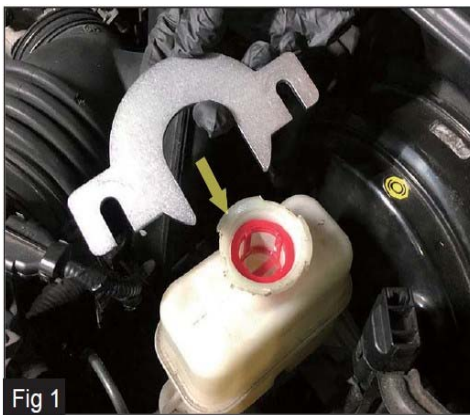
- Brake pressure bleeding adapter with a 90° rotating coupling fits almost all vehicles on the market
- Fits master cylinder fill neck smaller than $\varnothing 39\text{ mm} / 1.5''$
- Regular working pressure 1-2 bar / 14.5 - 29 psi

| | | |
|---|-----------------|----------------------|
| 1 | Bolts(2pcs) | Hex 16mm,M8x1.25 |
| 2 | Upper Plate | Thickness: 5mm/0.2" |
| 3 | Fluid Connector | 90° Angle |
| 4 | Conical Rubber | Material: EPDM |
| 5 | Lower Plate | Thickness: 4mm/0.16" |
| 6 | Nuts (2pcs) | OD |



Instruction

1. Place the lower plate on the master cylinder reservoir's filler neck (Fig.1)
2. Place the conical rubber on the master cylinder reservoir's opening (Fig 2)
3. Insert the upper plate and the bolts on the reservoir (Fig 3)
4. Fastens the nuts on the bolts until both nuts reach the lower plate.
5. Make sure the adapter is securely connected on the master cylinder reservoir (Fig 4)
6. Performing a low-pressure leak test is recommended before refilling brake fluid with high pressure.





KA-6873TE Threaded brake bleeder Adapter for European Vehicles

- Standard M46.5 x P3.5 for nearly all European vehicles, some Ford and Nissan
- Fitted with a standard European type air plug, straight
- Regular working pressure 1-2 bar / 14.5-29 psi

| Application | | |
|-------------|---------------|---------|
| Alfa Romeo | Fiat | Peugeot |
| Audi | Land Rover | Renault |
| BMW | Mercedes-Benz | Volvo |
| Citroen | Opel | VW |



KA-6872-BTL

1 Litre Reservoir Bottle

- 1 liter / 1 quart brake fluid catch bottle with a sturdy hook that makes brake bleeding simple and fast
- Brake bleeder valve adapter holds brake bleeder valves strongly and tightly
- Threaded cap makes waste fluid discharge easy
- Includes a 60 cm / 2 ft long soft hose



KA-6872-BTLV

1 Litre Reservoir Bottle With One-Way Valve

- Brake fluid catch bottle with a flexible chain and a bleeder valve adapter
- One-way valve on the soft hose to allow one-person brake bleeding operation without risking air to be redrawn back into the brake system.

KA-9066 Brake Fluid Exchange Machine



Feature:

- Machine helps brake fluid exchange efficient and easy
- Powered electrically - no air compressor required
- Light weight (10 Kg), easy to carry around.
- Transparent front 2-liter tank makes brake fluid visible, LED lights included.
- Dimension: 32x31.5x44cm



Fig. 1

PREPARATION * **Powered Electrically, ubiquitous and reliable**

- 1 Connect funnel to fill port located on top of the machine.
- 2 Pour adequate amount of new brake fluid into the funnel.
- 3 Connect fill line connector to purge nipple (Fig. 1).
- 4 Connect power line to a power socket.
- 5 Press power button and activation button.
- 6 Turn on the fluid control valve and start purging air from the machine
- 7 Adjust the pressure regular from time to time to purge air from the machine thoroughly.
- 8 Purge air for about 1 to 2 minutes, or until no air bubbles visible in the tank.



Fig. 2

LOW-PRESSURE LEAK TEST

- 1 Connect the adapter provided to master cylinder reservoir.
- 2 Connect the fill line connector to the adapter.
- 3 Turn on the power button and activation button.
- 4 Increase pressure to 0.5 bar or 7 psi, and run for 1 minute, and check if there are leaks around the adapter on master cylinder reservoir (Fig. 2).
- 5 Increase pressure to 1 bar or 14 psi, and run for another minute, and check leaks again.
- 6 Adjust the adapter if leaks are found and clean the leaked fluid immediately.



Fig. 3

PRESSURE BLEEDING * **Bleeding no bubbles**

- 1 When low-pressure leak test is performed and no leaks are found, turn the pressure regular clockwise to increase pressure to working pressure as suggested on the automotive manufacturer's manual (Fig. 3).
- 2 Follow the correct sequence for wheel cylinder bleeding, as specified by the automotive manufacturer's manual, and unfasten the bleeder valves one after another. Bleeding until no air bubbles visible on the soft tube of the waste fluid catch bottle (Fig 4), or the color of the bled brake fluid changes, suggesting new brake fluid is being pushed out.
- 3 When brake bleeding is done on four wheels, fasten the brake bleeder valves.
- 4 Turn off the pressure regulator, and turn off the machine.
- 5 Close the fluid control valve at the end of the fill line.
- 6 Check brake fluid level in the master cylinder reservoir and adjust to the correct level. Close the original cap.



Fig. 4

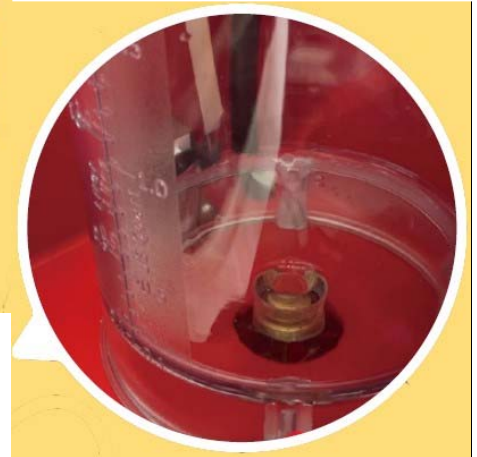
KA-9066N Brake Fluid Exchange Machine

Unique transparent brake fluid resistant 2-liter tank does not become cloudy

● *Special Pulsating effect cleans debris in the brake system*

Forced drain function enables the machine to service different brake fluid types







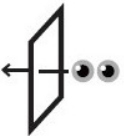



Auto shut-off function at low fluid level (200ml)

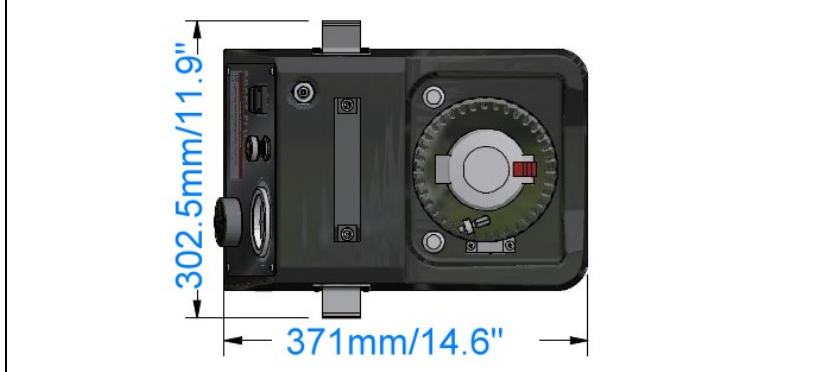
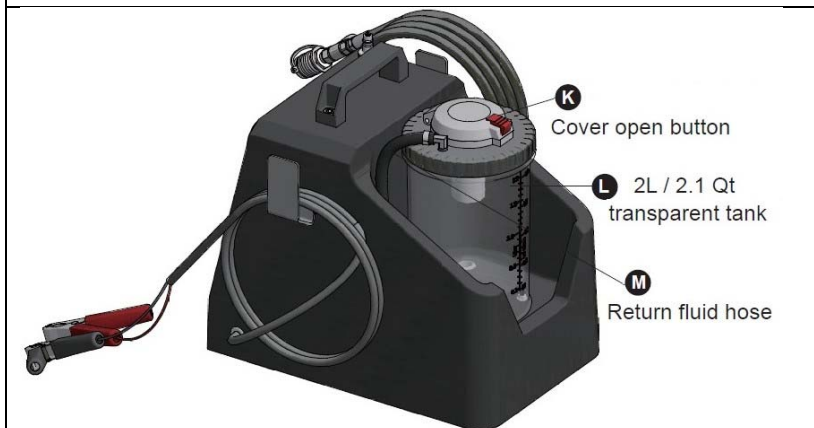


Just 7 KG!



KA-9066N Brake Fluid Exchange Machine

| | |
|--|--|
|  | Pulsating effect helps clean the debris from the brake system. |
|  | Designed with a forced drain function so the machine can be used with different types of brake fluids. |
|  | Buzzer beeps when brake fluid runs low |
|  | Automatic shut-off design when brake fluid level goes below 200ml by a built-in electric level indicator. The machine will be reactivated automatically when brake fluid is refilled |
|  | Gauge reading from 0-7 bar/0-100 psi. Recommended maximum working pressure is 3.5 bar/50.7psi. |
|  | Self- purge function is included to prevent air bubble from being introduced into the brake system. |
|  | Unique 100% transparent and brake fluid resistant 2 liter tank allows users to see the remaining brake fluid volume. |
|  | All hoses and lines are made of brake fluid resistant materials- no "sweat" and no "leaks" |
|  | Uses car battery as the power source, increasing working flexibility. |
|  | Total weight of the machine 7kg/15.4 lbs (without 2 liter brake fluid). Easy to carry around. |



KA-6872K /KA-6872 Brake Pressure Bleeder Set

KA-6872K with a 1-liter/quart old brake fluid bottle

KA-6872



Brake Pressure Bleeder Set

- One-person operation on brake bleeding by pressurizing the brake system from master cylinder
- Efficient in pushing out debris from brake system
- 3-liter / 3.17-quart tank with a safety pressure relief valve
- Includes a standard European adapter with a swivel 90° fitting to tackle limited space
- One-way valve is fitted in the hose end connector to prevent unsafe brake fluid spills after disconnecting the hose from master cylinder

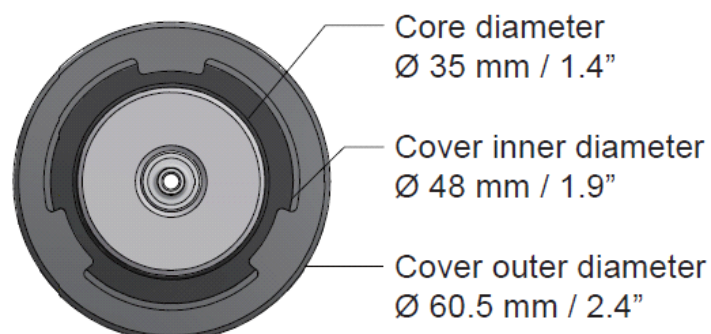
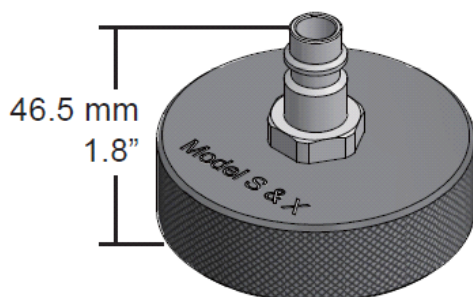
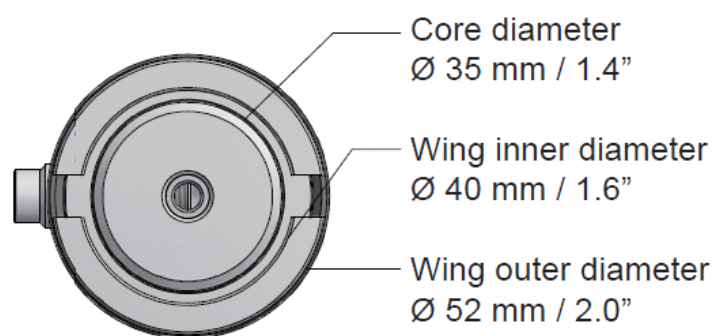
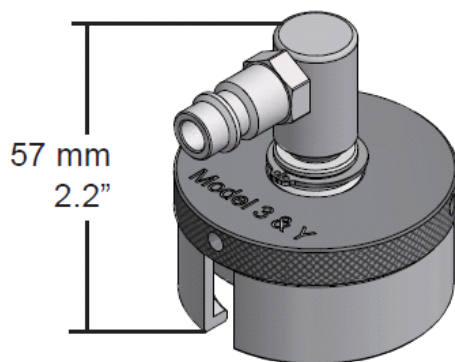


KA-6873T Brake Bleeder Adaptor Set for TESLA

- Kit specially designed for performing power brake bleeding on Tesla vehicles
- Adapters for Tesla Model S and X, Tesla Model 3 and Y
- Metallic adapter holds pressure up to 2.5 bar / 36 psi
- Compatible with most brake pressure bleeder machines or tank pumps



| Model | Year | Adapter |
|---------|-----------|-------------|
| Model S | 2012-2021 | Model S & X |
| Model 3 | 2017-2021 | Model 3 & Y |
| Model X | 2015-2021 | Model S & X |
| Model Y | 2020-2021 | Model 3 & Y |



Instruction for KA-6873T Brake Bleeder Adaptor Set for **TESLA**

6. Disconnect the 12-volt power before bleeding the brake system.
 7. Remove the master cylinder reservoir cap.
 8. Find a suitable adapter to connect on the reservoir
 9. The pressure bleeding tool or machine to the adapter.
 10. Follow the instructions as specified by the pressure bleeding tool and Tesla service manual.
- *It is recommended to perform a leak test to ensure if the adapter is tightly and securely connected on the reservoir



Fig. 1



Fig. 2 Locate the master cylinder reservoir



Fig. 3 Remove the reservoir cap



Fig. 4 Insert the adapter into the filler neck



Fig. 5 Close the adapter arms



Fig. 6 Turn the top cover to fasten



Fig. 7 Ensure the adapter is well installed

KA-6873 Brake Bleeder Adapter Set

- Designed for applications on master cylinder reservoirs from 2001 to 2021
- Covers at least 90% of all the common vehicles on the market
- Adapters with a standard European air plug type, suitable for most pressure bleeding tools or machines on the market
- Most adapters have a swivel 90° fitting to tackle limited space problems



| No. | Application |
|-----|---|
| 1 | Toyota, Lexus (all models) |
| 2 | Chevrolet, GMC, Ford, Hyundai, Kia, Mazda, Mitsubishi |
| 3 | Honda, Acura (all models) |
| 4 | European standard, Ford, and Nissan |
| 5 | Mazda, Suzuki |
| 6 | Nissan (Cube, Juke, Leaf, Micra, Versa) |

KA-6873N Brake Bleeder Adapter Set

- Designed for applications on master cylinder reservoirs from 2001 to 2021
- Covers at least 92% of all the common vehicles on the market
- Adapters with a standard European air plug type, suitable for most pressure bleeding tools or machines on the market
- Most adapters have a swivel 90° fitting to tackle limited space problems



| No. | Application |
|-----|---|
| 1 | Toyota, Lexus (all models) |
| 2 | Chevrolet, GMC, Ford, Hyundai, Kia, Mazda, Mitsubishi |
| 3 | Honda, Acura (all models) |
| 4 | European standard, Ford, and Nissan |
| 5 | Mazda, Suzuki |
| 6 | Nissan (Cube, Juke, Leaf, Micra, Versa) |
| 7 | Chrysler, Dodge, Jeep, Ram, Mitsubishi (Raider) |



KA-6873EU

Brake Filling Adapter Set

- Adapter kit for fitting brake master cylinder caps to introduce brake fluid connected from brake service machines
- Includes 3 specific adapters and 1 universal adapter with a fastening chain
- E20 adapter with a 90° extension hose and free rotation feature provides unrestricted access to limited spaces

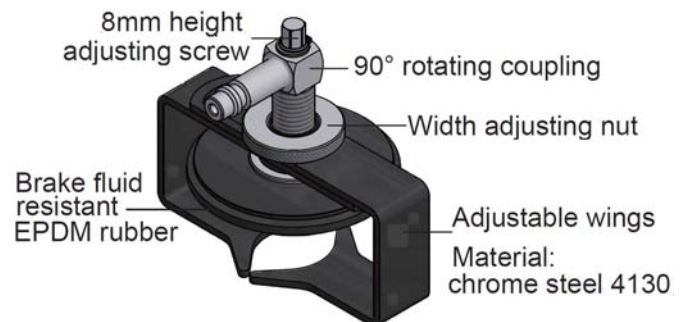


| No. | Size | Application |
|-----|------------|---|
| 1 | Ø78.1mm | Universal fitments with a chain |
| 2 | Ø33mm | Chrysler, Ford, Hyundai, Mazda |
| 3 | Ø79.5xP3.0 | Mitsubishi, Subaru, Suzuki, Volvo S40&V40 |
| 4 | Ø46.5xP3.5 | European Vehicles, Ford, Nissan |

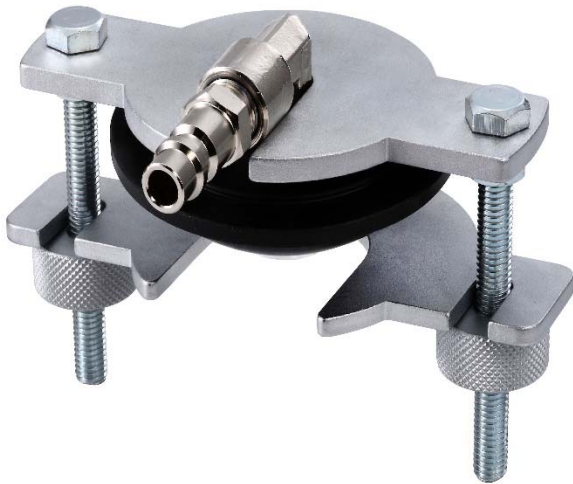
KA-7847

Universal Brake Refilling Adapter

- Brake refilling adapter with a 90° rotating coupling fits almost all vehicles on the market
- Fits master cylinder fill neck between Ø26-79 mm (1.0"-3.1")
- Maximum pressure up to 3.5 bar (50 psi)

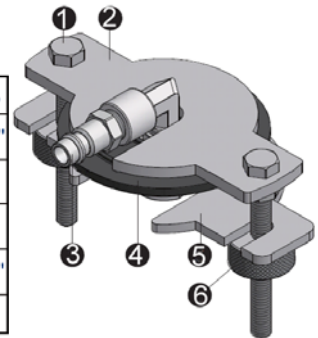


KA-6873UN Universal Brake Refilling Adapter –Fastener Type



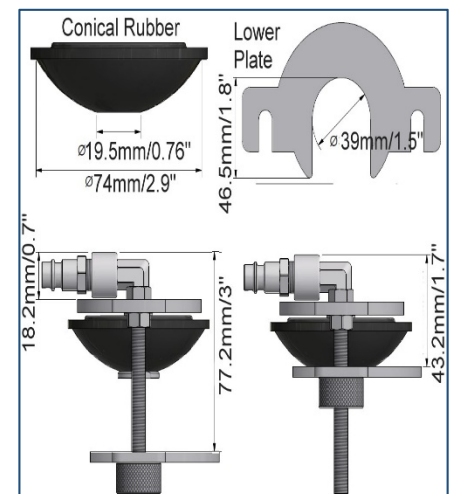
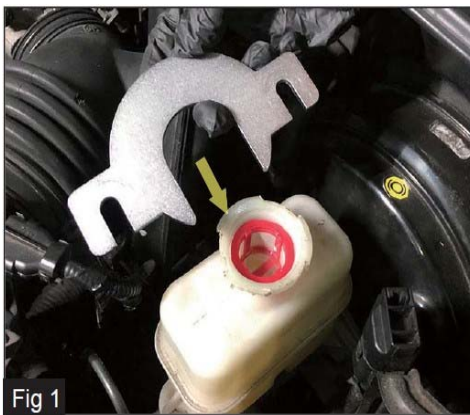
- Brake pressure bleeding adapter with a 90° rotating coupling fits almost all vehicles on the market
- Fits master cylinder fill neck smaller than $\varnothing 39\text{ mm} / 1.5''$
- Regular working pressure 1-2 bar / 14.5 - 29 psi

| | | |
|---|-----------------|----------------------|
| 1 | Bolts(2pcs) | Hex 16mm,M8x1.25 |
| 2 | Upper Plate | Thickness: 5mm/0.2" |
| 3 | Fluid Connector | 90° Angle |
| 4 | Conical Rubber | Material: EPDM |
| 5 | Lower Plate | Thickness: 4mm/0.16" |
| 6 | Nuts (2pcs) | OD |



Instruction

- Place the lower plate on the master cylinder reservoir's filler neck (Fig.1)
- Place the conical rubber on the master cylinder reservoir's opening (Fig 2)
- Insert the upper plate and the bolts on the reservoir (Fig 3)
- Fastens the nuts on the bolts until both nuts reach the lower plate.
- Make sure the adapter is securely connected on the master cylinder reservoir (Fig 4)
- Performing a low-pressure leak test is recommended before refilling brake fluid with high pressure.





KA-6873TE Threaded brake bleeder Adapter for European Vehicles

- Standard M46.5 x P3.5 for nearly all European vehicles, some Ford and Nissan
- Fitted with a standard European type air plug, straight
- Regular working pressure 1-2 bar / 14.5-29 psi

| Application | | |
|-------------|---------------|---------|
| Alfa Romeo | Fiat | Peugeot |
| Audi | Land Rover | Renault |
| BMW | Mercedes-Benz | Volvo |
| Citroen | Opel | VW |



KA-6872-BTL

1 Litre Reservoir Bottle

- 1 liter / 1 quart brake fluid catch bottle with a sturdy hook that makes brake bleeding simple and fast
- Brake bleeder valve adapter holds brake bleeder valves strongly and tightly
- Threaded cap makes waste fluid discharge easy
- Includes a 60 cm / 2 ft long soft hose



KA-6872-BTLV

1 Litre Reservoir Bottle With One-Way Valve

- Brake fluid catch bottle with a flexible chain and a bleeder valve adapter
- One-way valve on the soft hose to allow one-person brake bleeding operation without risking air to be redrawn back into the brake system.

KA-9066 Brake Fluid Exchange Machine



Feature:

- Machine helps brake fluid exchange efficient and easy
- Powered electrically - no air compressor required
- Light weight (10 Kg), easy to carry around.
- Transparent front 2-liter tank makes brake fluid visible, LED lights included.
- Dimension: 32x31.5x44cm



Fig. 1

PREPARATION * **Powered Electrically, ubiquitous and reliable**

- 1 Connect funnel to fill port located on top of the machine.
- 2 Pour adequate amount of new brake fluid into the funnel.
- 3 Connect fill line connector to purge nipple (Fig. 1).
- 4 Connect power line to a power socket.
- 5 Press power button and activation button.
- 6 Turn on the fluid control valve and start purging air from the machine
- 7 Adjust the pressure regular from time to time to purge air from the machine thoroughly.
- 8 Purge air for about 1 to 2 minutes, or until no air bubbles visible in the tank.



Fig. 2

LOW-PRESSURE LEAK TEST

- 1 Connect the adapter provided to master cylinder reservoir.
- 2 Connect the fill line connector to the adapter.
- 3 Turn on the power button and activation button.
- 4 Increase pressure to 0.5 bar or 7 psi, and run for 1 minute, and check if there are leaks around the adapter on master cylinder reservoir (Fig. 2).
- 5 Increase pressure to 1 bar or 14 psi, and run for another minute, and check leaks again.
- 6 Adjust the adapter if leaks are found and clean the leaked fluid immediately.



Fig. 3

PRESSURE BLEEDING * **Bleeding no bubbles**

- 1 When low-pressure leak test is performed and no leaks are found, turn the pressure regular clockwise to increase pressure to working pressure as suggested on the automotive manufacturer's manual (Fig. 3).
- 2 Follow the correct sequence for wheel cylinder bleeding, as specified by the automotive manufacturer's manual, and unfasten the bleeder valves one after another. Bleeding until no air bubbles visible on the soft tube of the waste fluid catch bottle (Fig 4), or the color of the bled brake fluid changes, suggesting new brake fluid is being pushed out.
- 3 When brake bleeding is done on four wheels, fasten the brake bleeder valves.
- 4 Turn off the pressure regulator, and turn off the machine.
- 5 Close the fluid control valve at the end of the fill line.
- 6 Check brake fluid level in the master cylinder reservoir and adjust to the correct level. Close the original cap.



Fig. 4

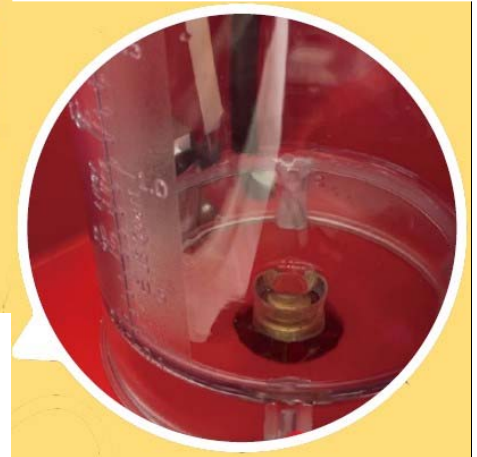
KA-9066N Brake Fluid Exchange Machine

Unique transparent brake fluid resistant 2-liter tank does not become cloudy

● *Special Pulsating effect cleans debris in the brake system*

Forced drain function enables the machine to service different brake fluid types







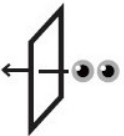



Auto shut-off function at low fluid level (200ml)

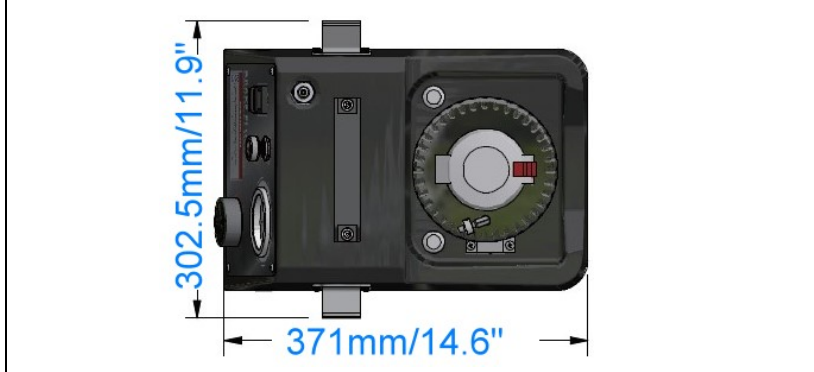
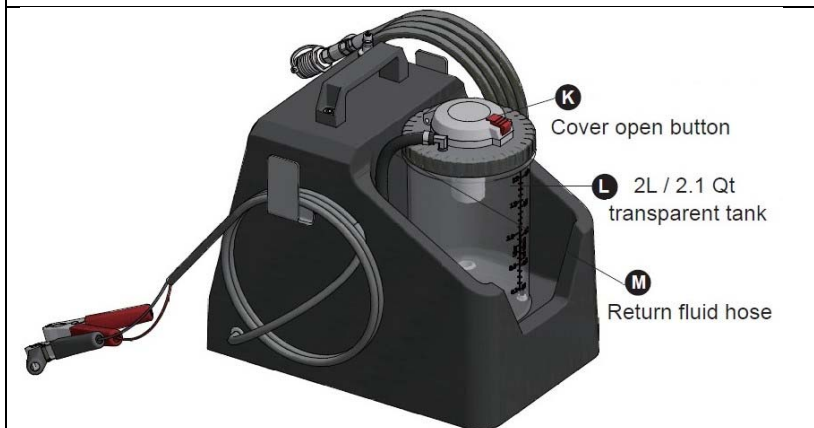


Just 7 KG!



KA-9066N Brake Fluid Exchange Machine

| | |
|--|--|
|  | Pulsating effect helps clean the debris from the brake system. |
|  | Designed with a forced drain function so the machine can be used with different types of brake fluids. |
|  | Buzzer beeps when brake fluid runs low |
|  | Automatic shut-off design when brake fluid level goes below 200ml by a built-in electric level indicator. The machine will be reactivated automatically when brake fluid is refilled |
|  | Gauge reading from 0-7 bar/0-100 psi. Recommended maximum working pressure is 3.5 bar/50.7psi. |
|  | Self- purge function is included to prevent air bubble from being introduced into the brake system. |
|  | Unique 100% transparent and brake fluid resistant 2 liter tank allows users to see the remaining brake fluid volume. |
|  | All hoses and lines are made of brake fluid resistant materials- no "sweat" and no "leaks" |
|  | Uses car battery as the power source, increasing working flexibility. |
|  | Total weight of the machine 7kg/15.4 lbs (without 2 liter brake fluid). Easy to carry around. |



KA-3756U Asian Terminal Tool Kit

- Remove the Electrical Connector Terminals Easily.
- Large Knurled Polished Chrome Handles & Stainless Steel Tips.
- Application: Most Asian & Domestic Vehicles
Acura, Honda, Toyota, Lexus, Nissan, Infinity & Mistubishi..etc.



Single Face Blade

1.0mm (W) x 1.0mm (T) tip

Single Face Blade

1.8mm (W) x 1.0mm (T) tip

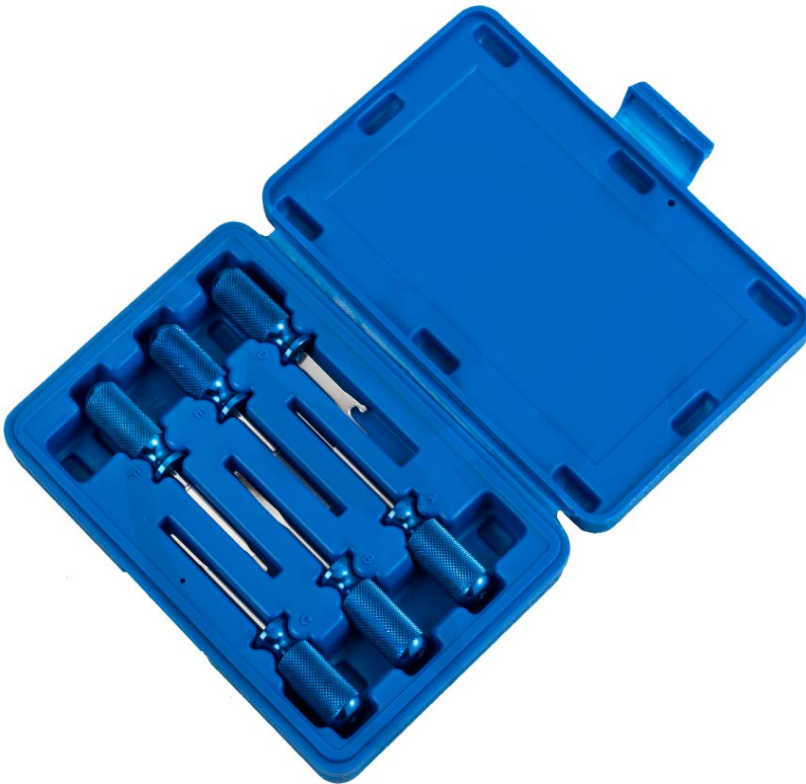
Ladder Blade Tool

1.5mm (W) x 0.3mm (T) tip

Knife blade tool

2.0mm (W) x 0.8mm (T) tip

KA-3756L 6PCS Import Terminal Tool Kit



Multi-Application in a Kit !!

Release tabs on modern terminal blocks

Transmission harness tools

Chrysler, Hyundai and Mitsubishi.

Under bonnet tool for working on coolant sensors ...etc: Chrysler, Mitsubishi, Kia and Hyundai.

Sheathing cutting tool to cut wire harnesses providing easy access

ABS ECU 55pin tool: GM, Jeep, Jaguar, Volkswagen, Volvo, BMW, Hyundai, Mercedes-Benz, KIA.

ABS ECU 35pin tool: Audi, BMW, Chrysler, Ford, GM, Infiniti, Suzuki, Jaguar, Mazda, Mercedes-Benz, Mitsubishi, Nissan, Porsche, Saab, Subaru, Volkswagen, Volvo.

KA-7851 Extra Long Twin Joint Long Nose Pliers

- Full polished carbon steel (S45C) *Approx. Length: 340mm *
- 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

- Full polished carbon steel (S45C) *Approx. Length: 310mm *
- 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

- Full polished carbon steel (S45C) *Approx. Length: 335mm *
- 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** Extra Long Twin Joint Spark Plug Connector Pliers 12.7mm

- Full polished carbon steel (S45C) * 12.7mm Diameter/Approx. Length: 340mm
- 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-7851PL Extra Long Twin Joint Spark Plug Connector Pliers 19 mm

- Full polished carbon steel (S45C) * 19 mm Diameter/Approx. Length: 340mm
- 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-7851PS Extra Long Twin Joint Spark Plug Connector Pliers 7.9 mm

- Full polished carbon steel (S45C) * 7.9 mm Diameter/Approx. Length: 340mm
- 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-7852 Diesel Fuel Line Disconnect Pliers

- The special pliers with 'V' shaped jaws releases the fuel line connection from the fuel filter fitted to diesel engines on most European vehicles.
- Spring loaded action enables the connection to be held securely when the fuel line is being disconnected.



Material: S45C Steel
Handle: SPHC Steel

9.00.028 10PCS 3/8" DR. 1000V INSULATED SPANNER & SOCKET SET

For Live Line to 1000V

- 1 PC- 3/8" Dr. Insulated Torque Wrench (5-25nm)
- 1 PC- 3/8" Dr. Insulated Reversible Ratchet
- 1 PC- 3/8" Dr. X 100mm Insulated Extension
- 3 PC- 3/8" Dr. Insulated Sockets: 8, 10, 12mm
- 3 PC- Insulated Open End Spanners: 8, 10, 12mm
- 1 PC- Blow Mold Case



9.00.029 17PCS 3/8" DR. 1000V INSULATED SOCKET & BIT SET

For Live Line to 1000V

* VDE Approval *



| | |
|--|------|
| 3/8" Dr. Insulated Reversible Ratchet | 1 PC |
| 3/8" Dr. X 100mm Insulated Extension | 1 PC |
| 3/8" Dr. Insulated Sockets: 8, 10, 12mm | 3 PC |
| Insulated Open End Spanners: 8, 10, 12mm | 3 PC |
| Blow Mold Case | 1 PC |

9.00.030 36PCS 3/8" DR. 1000V INSULATED TOOL SET

For Live Line to 1000V

* VDE Approval *



| | |
|--|-------|
| Insulated Cable Knife | 1 PC |
| Insulated Open End Spanners 7, 8, 10, 12, 14, 17mm | 6 PC |
| Insulated Screwdrivers: PH1*100mm, PH2*100mm, SL1.0*5.5*125mm, SL0.8*4.0*100mm | 4 PC |
| 3/8" Dr. Insulated Reversible Ratchet | 1 PC |
| 3/8" Dr. X 100mm Insulated Extension | 1 PC |
| 3/8" Dr. Insulated T-Handle | 1 PC |
| 3/8" Dr. Insulated Sockets : 7, 8, 10, 12, 14, 15, 17, 19, 22 mm | 9 PC |
| 3/8" Dr. Insulated Hex Bit Sockets: 4, 5, 6, 7, 8 mm | 4 PC |
| 3/8" Dr. Insulated Star Bit Sockets: T20, T25, T27, T30, T40, T45, T50, T55 | 8 PCS |
| Blow Mold Case | 1 PC |

9.00.031 15PCS VDE TOOL KIT FOR HYBRID/ELECTRIC VEHICLE



| | |
|---|------|
| 3/8" DR. SOCKETS 8, 10, 11, 12, 13, 14mm | 6 PC |
| 3/8" T HANDLE | 1 PC |
| 3/8" RATCHET | 1 PC |
| 1000V RUBBER INSULATING GLOVES, SIZE: 10 | 1 PC |
| LEATHER PROTECTOR GLOVES, SIZE: 10 | 1 PC |
| VOTAGE TESTER 6-1000V DC (24-1000V AC) | 1 PC |
| BOX END WRENCHES: 10 & 12mm | 2 PC |
| VDE SCREWDRIVERS: SLOTTED 5.5, PH2 | 2 PC |

9.00.032 13 PC VDE TOOL KIT FOR HYBRID/ELECTRIC VEHICLE

*** VDE Approval ***



| | |
|--|------|
| Insulated Screwdrivers: Slotted 5.5, Ph2 | 2 PC |
| Votage Tester 6-1000V DC (24- 1000V AC) | 1 PC |
| 3/8" Dr. Insulated Ratchet | 1 PC |
| 3/8" Dr. Insulated T-Handle | 1 PC |
| 3/8" Dr. Insulated Sockets: 8, 10, 11, 12, 13, 14mm | 6 PC |
| Insulated Box End Spanners: 10 & 12mm | 2 PC |

9.00.033 9 PC VDE TOOL KIT FOR PSA HYBRID/ELECTRIC VEHICLE

*** VDE Approval * For use on Peugeot Ion & Citroen C-Zero**



| | |
|--|------|
| 200mm Insulated Long Nose Pliers | 1 PC |
| 3/8" Dr. Insulated Ratchet | 1 PC |
| 3/8" Dr. X 100mm Insulated Extension | 1 PC |
| 3/8" Dr. Insulated Sockets: 10, 11, 12, 13, 14mm | 5 PC |
| 10mm Insulated Open End Spanner | 1 PC |

9.00.034 9 PC VDE TOOL KIT FOR PSA HYBRID/ELECTRIC VEHICLE

*** VDE Approval * For use on Peugeot Ion & Citroen C-Zero**



| | |
|--|------|
| 180mm Insulated Long Nose Pliers | 1 PC |
| 3/8" Dr. Insulated Ratchet | 1 PC |
| 3/8" Dr. X 100mm Insulated Extension | 1 PC |
| 3/8" Dr. Insulated Sockets: 10, 11, 12, 13, 14mm | 5 PC |
| 10mm Insulated Open End Spanner | 1 PC |

9.00.035 12 PC 1000V INSULATED TOOL SET

For Live Line to 1000V

* VDE Approval *



| | |
|--|------|
| 7" Insulated Combination Pliers | 1 PC |
| Insulated Screwdrivers: PH2*100mm,SL1.2*6.5*150 | 2 PC |
| 3/8" Dr. Insulated Reversible Ratchet | 1 PC |
| 3/8" Dr. X 100mm Insulated Extension | 1 PC |
| 3/8" Dr. Insulated Sockets 10, 12, 14mm | 3 PC |
| Insulated Open End Spanners 10, 12, 14mm | 3 PC |
| Blow Mold Case | 1 PC |

9.00.036 19 PCS 1000V INSULATED OPEN END SPANNER SET

For Live Line to 1000V

* VDE Approval *



| | |
|---|-------|
| Insulated Open End Spanners: 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24mm | 18 PC |
| Blow Mold Case | 1 PC |

9.00.037 8 PCS 1000V INSULATED OPEN END SPANNER SET

For Live Line to 1000V

* VDE Approval *



| | |
|--|------|
| Insulated Open End Spanners 8, 10, 12, 13, 14, 17, 19mm | 7 PC |
| Clear Cover Plastic Case | 1 PC |

9.00.037-1 8 PCS 1000V INSULATED OPEN END SPANNER SET

For Live Line to 1000V

* VDE Approval *



| | |
|--|------|
| Insulated Open End Spanners 8, 10, 12, 13, 14, 17, 19mm | 7 PC |
| Blow Mold Case | 1 PC |

9.00.038 10 PCS 1000V INSULATED SOCKET SET



For Live Line to 1000V
*** VDE Approval ***

| | |
|---|------|
| 3/8" Dr. Insulated Sockets 8.10.12.13.14.17.19mm | 7 PC |
| 3/8" Dr. Insulated Reversible Ratchet | 1 PC |
| 3/8" Dr. X 100mm Insulated Extension | 1 PC |
| 1- Blow Mold Case | 1 PC |

9.00.039 28 PCS 1000V INSULATED TOOL SET

For Live Line to 1000V

*** VDE Approval ***



| | |
|---|-------|
| Insulated Pliers: 8" Combination Pliers, 6" Diagonal Pliers | 2 pcs |
| Insulated Open End Spanners: 7, 8, 10, 12, 13, 14, 17, 19mm | 8 pcs |
| Insulated Screwdrivers: PH1 x 100mm, PH2 x 100mm, SL1.0 x 5.5 x 125mm, SL0.8 x 4.0 x 100mm | 4 pcs |
| Insulated Cable Knife | 1 pc |
| 3/8" Dr. Insulated Reversible Ratchet | 1 pc |
| 3/8" Dr. x 100mm Insulated Extension | 1 pc |
| 3/8" Dr. Insulated T-Handle | 1 pc |
| 3/8" Dr. Insulated Sockets: 7, 8, 10, 12, 13, 14, 17, 19, 22mm | 9 pcs |
| Blow Mold Case | 1 pc |

9.00.040 21 PCS 1000V 3/8" DR INSULATED SOCKET SET



For Live Line to 1000V
*** VDE Approval ***

| | |
|---|------|
| 3/8" Dr. Insulated Reversible Ratchet | 1 PC |
| 3/8" Dr. Insulated Extensions: 100mm L, 250mm L | 2 PC |
| 3/8" Dr. Insulated T-Handle | 1 PC |
| 3/8" Dr. Insulated Sockets : 7, 8, 10, 11, 12, 13, 14, 15, 17, 19, 22mm | 11PC |
| 3/8" Dr. Insulated Hex Bit Sockets: 4, 5, 6, 7, 8 mm | 5 PC |
| Blow Mold Case | 1 PC |

9.00.042 36 PCS 1000V INSULATED TOOL SET

For Live Line to 1000V

*** VDE Approval ***



| | |
|---|-------|
| Insulated Pliers: 8" Combination Pliers, 8" Long Nose Pliers, 8" H/D Diagonal Pliers | 3 PC |
| Insulated Open End Spanners 7, 8, 10, 12, 13, 14, 17, 19mm | 8 PC |
| Insulated Screwdrivers PH1*100mm, PH2*100mm, SL1.0*5.5*125mm, SL0.8*4.0*100mm, SL0.5*3.0*75mm | 5 PC |
| 2- Insulated Cable Knives | 2PC |
| 1/2" Dr. Insulated Reversible Ratchet | 1 PC |
| 1/2" Dr. X 125mm Insulated Extension | 1 PC |
| 1/2" Dr. Insulated T-Handle | 1 PC |
| 1/2" Dr. Insulated Sockets: 10, 11, 12, 13, 14, 16, 17, 18, 19, 22, 24, 27, 30, 32mm | 14 PC |
| Blow Mold Case | 1 PC |