



### KA-3008 Disc Brake Caliper Bolt Tools

These sockets are designed for easy removal of Ford and GM caliper TORX bolts. Features TORX bit set into bolt head recess to help maintain alignment. Reduce slippage and increase torque yield. Made of heat treated alloy steel.

KA-0801 Ford, T-40, 3/8" Dr

Fits Tempo, Taurus, Sable, late model T-BIRDS and Cougar.

KA-0802 Ford, T-45, 3/8" Dr

Fits T-bird, Cougar, LTD. Crown Victoria.

Mustang. Granada thru 1988.

KA-0803 Ford, T-50, 3/8" Dr

Fits T-bird. Cougar, LTD. Crown Victoria.

Mustang. Granada thru 1988.



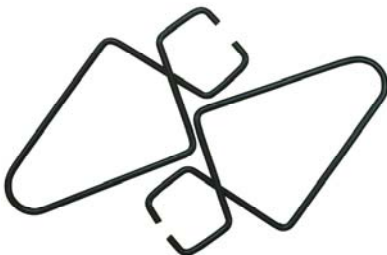
### KA-2352 Clearance-Adjusting Tool

To easily move the clearance adjusting brake ratchet



### KA-3011 Disc Brake Piston Tool

Designed to rotate the parking-brake-activated piston back into the caliper cylinder when replacing worn pads on vehicles equipped with 4-wheel disc brakes. Tool will function on most domestic and import vehicles.



### KA-3042 Brake Piston Clamps

Use to prevent pistons popping out wheel cylinders while changing brake shoe. Suits most car and truck drum brakes. Self-adjusts to apply pressure and immobilize piston.

RANGE: 1-1/8" to 3-1/4" (29 to 83mm)

E.D. COATING

COLOR: BLACK



### KA-3010 Brake cylinder Retainer Remover

For GM X and J body cars.

Expands and holds this special retainer so the brake cylinder may be removed. Insert the tool tips into the retainer ring and expand by turning the knob.



### KA-3006 Brake Shoe Retaining Spring Tool

Brake Shoe Retaining Spring Compressors

Removes brake shoe retaining spring washers 5/8" to 11/16" (16-17mm) diameter. Use on late model compact cars and light trucks. Place tapered end over brake spring retaining washer. Push tool in and rotate 1/4" turn to release pressure and remove spring. Reverse to install.



### KA-3006A Brake Spring Washer Tool

Remove and install brake spring washers 5/8" to 7/8" in diameter. Fits both large and small brake spring washers.



### KA-3006B Brake Spring Tool

For a wide variety of drum brake springs. Wide window allows clear view of button.

- Bright plated metal
- Double end
- Fluted red handle



### KA-3006C Brake Spring Tool

- Designed for import car brake return springs.
- Removes and installs import brakes that don't use an anchor pin.
- Engage brake spring in tool head, turn handle to lock on spring, and expand spring to install or remove.



### KA-3006D Brake Retainer Spring Tools

Special head configuration easily engages and removes smaller diameter retaining spring found on the brake assemblies on newer, smaller vehicles.



### KA-3006E Bendix Brake Spring Remover/Installer

Special head configuration easily removes brake retaining springs on drum brake assemblies found on many full-size cars and light trucks.

**KA-3006F Brake Spring Installer Tools**

The angled shank and special notch in the tool's tip simplifies the task of installing brake springs on 1979 to current GM vehicles.

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**KA-3007 Brake Spring Washer Tool**

Fits both large and small washers. Troublesome brake shoe retaining spring washers can now be easily removed and then reinstalled. Wide "window" allows better visibility to align the nail and washer slot.

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**KA-3037 Brake Spring Compressor**

Zinc plated to resist corrosion. Tough, easy grip with aluminum handle. Removes & installs backing plate spring, cups & pins.

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**KA-5001-1 Drum Brake Spring Tool**

Tool removes and installs return spring on Bendix drum brakes. To use, place wide end over spring anchor and twist to remove. Hook narrow end through spring and over the post, then lift to install.

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**KA-3025 Drum Brake Spring Tool**

Tool removes and installs return spring on Bendix drum brakes. To use, place wide end over spring anchor and twist to remove. Hook narrow end through spring and over the post, then lift to install.

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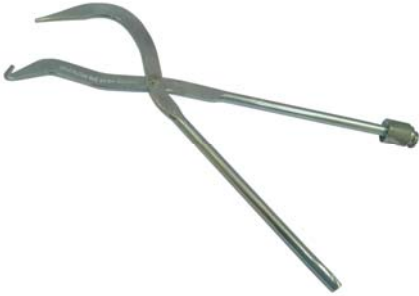
**KA-3875 15" Professional Brake Spring Tool**

- Design to removing & setting brake spring (380mm)
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**KA-3023 12" Brake Spring Pliers**

Removes and installs brake springs on majority of cars and trucks. Forged from alloy steel and heat-treated for long wear. Designed with narrow points for inline pull on the springs. Bright lustre plated for rust protection. Equipped with special bendix socket on one end.

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**KA-3024 13" Brake Spring Pliers**

Tool easily removes and installs shoe return springs on most drum brakes. Socket end removes spring from anchor stud and notched end installs spring on anchor. Tool is chrome plated to resist rust and provides easy cleanup.

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**KA-7026 Drum Brake Spring Plier**

- One end hooks on the spring, the floating cap with hooks grips
- On the lining fastened to the brake shoe.
- Use for two brake return spring system
- Can use for most of the commercial and industrial vehicles.

**KA-6704 Drum Brake Spring Pliers**

- Designed to remove the brake return spring.
- One end grips on the brake pinning, the other hooks on the spring.

**KA-6727 Brake Spring Plier & Claw**

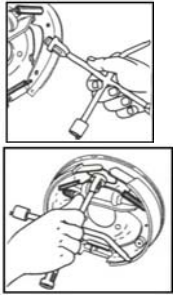
Design for removing & replacing brake spring of drum type brake.

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**KA-2121 Cross Type Brake Tool W/Magnetic**

- Remove & installs return spring on bendix drum brake.
- Double-ended tool removes and install small and large car drum brake spring tool fit size 5/8" to 11/16" & 11/16" to 7/8" diameter.



**KA-3028 Brake Adjustment Tool**

Speeds starwheel adjusting. Insert tool through slot in backing plate. Different angle at each end adapts makes and models.



**KA-3028A Drum Brake Adjusting Tool**

- Blade width 17/32" x 3/8"
- 7" (177.8mm) long



**KA-3028B Brake Adjusting Tool**

Star-nut turning tool for Chevrolet trucks with overload springs. Different angles at each end of tool clearance. Blades are 17/32" wide. Tool is 5-1/4" long.



**KA-3028C Brake Adjusting Tool**

One end has a wind tang set at a 29° angle for rear brakes; the other end is set at a 45° angle for front brakes. 8-1/4" long



**KA-3028D Brake Adjusting Tool**

Fix Bendix brakes with star adjusting nut and other self-adjusting brakes (except Chevy). 7/32" wide blade, 1/32" tip thickness. 8-3/16" long.



**KA-2412 Brake Adjustment Tool Set**

1. Brake adjustment tool 8-1/4" long, blade width 5/8" x 11/16"
2. Brake adjustment tool 8-3/16" long, blade width 1/2"
3. Clearance-adjusting tool

To easily move the clearance-adjusting brake ratchet. First, take off a dust-proof cover of the clearance-adjusting hole disposed in the back of the drum brake system secondly, insert the clearance-adjusting tool into the clearance-adjusting hole and move the clearance-adjusting brake ratchet until a proper brake clearance is achieved.



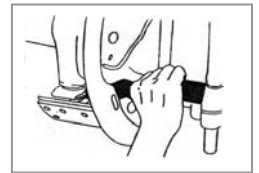
**KA-4444 Brake Shoe Adjust Tool**

- Can use for most of the car
- Easy working to adjustment even strong spring



**KA-7526 Lucas Rear Brake Adjusting Tool**

- Easily adjust the brakes on vehicles having the Lucas hydraulic brake system.
- Tool's offset design and extra handle length make the job much less time consuming than with conventional tools.
- Works on buses and mid-range trucks including FORD F700, F800 and F900 series.



**KA-5070 8pc Brake Tool Set**

- Contains the most popular brake tools used for servicing drum brakes on many import and domestic vehicles.
- Includes three different style brake spoons for adjusting drum brakes, five different brake spring tools for servicing drum brake shoes.
- Contains:
  - KA-5070-1 BRAKE SPRING PLIERS
  - KA-5070-2 BRAKE SPRING REMOVAL TOOL (FITS 5/8" DIA. SPRING)
  - KA-5070-3 BRAKE SPRING REMOVAL TOOL (FITS MANY IMPORT VEHICLES)
  - KA-5070-4 BRAKE RETURN SPRING REMOVAL TOOL
  - KA-5070-5 BRAKE SPRING REMOVAL TOOL (FITS 3/4" AND 13/16" DIA. SPRINGS)
  - KA-2352 MINI BRAKE ADJUSTING SPOON
  - KA-2412-1 BRAKE ADJUSTING SPOON.
  - KA-2412-2 BRAKE ADJUSTING SPOON



**KA-6322 Brake Tool Kit**

- Brake shoe spring tool for Lockheed and total contact brakes
- Bendix brake shoe spring tool
- Shoe retaining spring tool for bendix brakes
- High offset brake wrench 3/8" and 7/16"
- Brake adjusting tool





**KA-4446K 10pc Professional Brake Tool Set**

- Contains the most popular brake tools used for servicing drum brakes on many import and domestic vehicles.
- Includes three different style brake spoons for adjusting drum brakes, five different brake spring tools for servicing drum brake shoes.
- The brake shoe spreader pliers allows user to replace the brake wheel cylinder easily without removing return spring, brake shoe and other parts without damaging the brake disc or brake shoe..
- Contains:
  - A. Brake shoe spreader pliers
  - B. Brake spring pliers
  - C. Brake spring removal tool (fits 5/8" dia. Spring)
  - D. Brake return spring removal tool
  - E. Brake spring removal tool (fits many import vehicles)
  - F. Brake spring removal tool (fits 3/4" and 13/16" dia. Springs)
  - G. Mini brake adjusting spoon
  - H. Brake adjusting spoon
  - I. Brake adjusting spoon
  - J. Brake piston clamps



**KA-4312K 9pcs Disc Brake Service Tool Kit**

General purpose brake service tool kit consists of the following brake service tools:

- Brake Spring Pliers
- Brake Shoe Retaining Spring Tool
- Drum Brake Adjusting Tool
- Disc Brake Piston Cube
- Disc Brake Pad Spreader
- Brake Cylinder Retainer Remover
- 3PC. Disc Caliper Bolt Socket Set



**KA-4313K 9pcs Disc Brake Service Tool Kit**

- Brake Spring Pliers
- Brake Shoe Retaining Spring Tool
- Universal Twin Disc Brake Pad Spreader
- Brake Adjustment Tool
- Brake Cylinder Retainer Remover
- Disc Brake Piston "Cube"
- 3PC. Disc Caliper Bolt Socket Set



**KA-7597K 15pcs Disc Brake Service Tool Kit**

- Brake Spring Pliers
- GM-Ford Disc Brake Piston Tool
- Heavy-Duty Brake Pad Separator
- Heavy-Duty Truck Brake Spring Tool
- Brake Spring Tool
- Disc Brake Piston Tool
- Brake Adjusting Tool
- Caliper Sockets:
  - Hex Socket: 1/4", 3/8", 7mm, 8mm, 10mm
  - Torx Socket: T40, T45, T50



**KA-7559K-2 17PC Brake Service Tool Set**

- Drum Brake adjusting tool
- Brake spring pliers
- Universal brake piston tool
- GM-Ford disc brake piston tool
- Disc brake spreader
- Heavy-duty truck brake spring tool
- Clearance-Adjusting tool
- Bit Socket:
  - Hex socket: 7mm, 8mm, 10mm, 1/4", 3/8"
  - Torx socket: T40, T45, T50, T60



**KA-1324K 10pcs Brake Tool Set**

- Drum Brake Adjusting Tool
- Brake Spring Pliers
- Universal Brake Spring Tool
- Disk Brake Pad Spreader
- Lock Ring Pliers
- Brake Spring Pliers
- Brake Socket Set



**KA-7592 Disc Brake Pad Spreader**

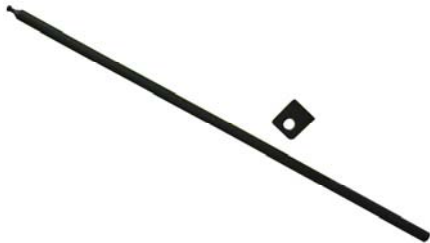
Spreader fits between two new pads being install-led, then expands to retract the piston. Leaves hands free to start caliper over rotor. Slides off easily. Ford all standard and four-piston caliper disc brakes.



**KA-7513 Brake Pad Key**

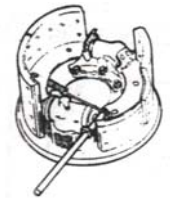
8mm hexagon wrench with handle. Works on front disc brakes, fitted to the following vehicles:

- All BMW models (except 5 series).
- GM Vauxhall Opel.
- Ford transverse engines CVH (gearbox) on: Escort, Fiesta, Orion.
- VW brake seat fixing on: most models from 1980 on.



**KA-7527 Lucas Girling Brake Spring Tool**

- For 1984 thru current Ford 600, 700 and 800 series trucks with Lucas girling hydraulic brake systems.
- Knurled handle for better grip.
- Tool design allows adequate leverage for safe and easy removal or installation of brake shoe return springs.



**KA-7595 Universal Emergency Brake Tool**

Compresses spring on emergency brake cable to replace brake shoe arm.

- Fit vehicles using cable/spring emergency brake assembly.
- Eliminates pinched fingers.
- Frees one hand for replacing brake shoe lever.



**KA-6665 Emergency Brake Tool**

Compresses spring for easy replacement of brake shoe arm to cable. Eliminates pinched fingers, frees one hand for replacing brake shoe lever the "squeeze-lock" action of the tool makes removal easy.



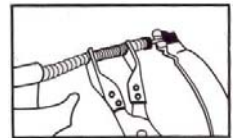
**KA-4442 Handbrake Cable Spring Pliers**

- For compression of the retaining spring on the handbrake cable.
- This tool allows quick and problem free removal and installation of the handbrake cable.
- Application: VW, AUDI, BMW, CITROEN, NISSAN, PEUGEOT, RENAULT, ROVER, SEAT, ETC.



**KA-6705 Parking Brake Spring Compressor**

- Designed to remove and install lever cable attached to brakeshoe on cars and trucks



**KA-7187 Brake Spring Tool**

- For the removal and replacement of the handbrake retaining spring on Mercedes-vehicles.
- Applicable for conical and cylindrical retaining springs.
- Length: 145mm



**KA-7514K Universal Drum Brake Tool Kit**

Contains 6 most popular tools:

**A: KA-6665 Assemble & Disassemble Pliers** Germany pat. No.: 201 15 064.6

**B: KA-7026 Brake Spring Pliers** Germany pat. No.: 201 16 251.2

**C: KA-7514 Clearance-Adjusting Tool** To easily move the clearance-adjusting brake ratchet.

**D: KA-3037 Brake Spring Compressor** To assemble and disassemble the retaining spring, spring retainer from a drum brake shoe.

**E: KA-3042 Brake Piston Clamps (2 pcs)** To prevent pistons popping out of wheel cylinders while changing drum brake shoe.

**F: KA-3035 Fluid Hose Clamp** To tightly clamp the brake oil hoses, gasoline hoses and vacuum hoses.



**KA-5071 Car & Truck Brake Riveter**

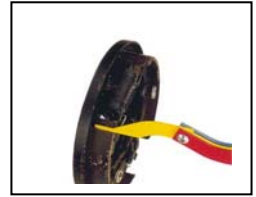
- Use in vice to rivet brake shoe linings on cars, trucks, tractors etc.
- Contains:
  - 2 x Roll punches 8mm & 11mm Dia
  - 1 x Star punch.
  - 2 x Interchangeable anvils with hex key.



**KA-5111A 8pc Manual Brake Gauge Set**



- The brake gauge tool was designed to give customers an accurate measurement of how much brake lining is left without guess work.
- Most state agencies require that the customer be notified of how much brake lining is left in order to suggest that the lining should be replaced.
- The technician must reference to the oem manufacturer specifications to determine if the lining is worn below minimum specifications.
- Size including:



RED:		YELLOW:		GREEN:	
2mm	0.0787"	4mm	0.1575"	8mm	0.3150"
3mm	0.1181"	5mm	0.1969"	10mm	0.3937"
		6mm	0.2362"	12mm	0.4724"

**KA-5522 A.B.S. Brake Servicing Tool**



- Specially designed for winding back the brake pistons used on A.B.S. braking systems.
- It is essential when replacing brake pads in A.B.S. brake systems.
- Applications:  
Ford Granada (all models-post 1985)  
Ford Sierra (all models fitted with A.B.S. brakes)  
Rover 800 series (all models)
- The drive head is marked at 90° intervals enabling the user to check the position of the piston without removing the tool, ensuring the accurate fitting of the pads.

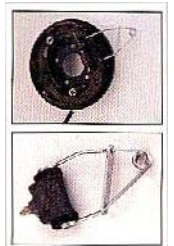
**Applications:**

Ford Granada (all models-post 1985)  
Ford Sierra (all models fitted with A.B.S. brakes)  
Rover 800 series (all models)

**KA-7184 4pc Locking Drum Brake Pistons**



- Set of four pliers for locking drum brake pistons.
- Both ends hold pistons in cylinders, making it easier to replace jaws.
- When take off the drum brake can prevent the piston oil return to avoid the piston damage.



**KA-4372 Miscellaneous**



Brake and Accelerator Pedal Jack. Trigger-con-trolled unit slides handle to any position on 28-1/2" shaft. Thump lock releases pressure easily. Use as a pedal depressor.

**KA-4382 Brake Clevis Pin Press**



Servicing truck and trailer brake components that are rusted and corroded due to their exposure to the elements can be a challenge. Removing air brake push rod clevis pins is one of those jobs that can eat up time. The clevis pin C-frame press is the answer. This handy screw-operated tool makes short work of the task, applying the force just where it's needed. The pin is easily popped out of the most rusted push rod assemblies.

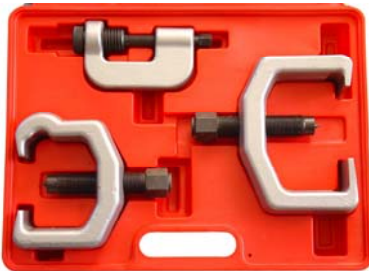


KA-3090A

KA-3090B

**KA-3090A KA-3090B  
Manual & Automatic Slack Adjuster Puller**

Designed to service all S-cam air brake slack adjusters on the market. Puller KA-3090A fit all manual types, and the KA-3090B works on Rock-well, Haldex, Gunitex, and Bendix automatic adjusters. These tools eliminate costly S-cam damage caused by "heat and beat" method. Replacement is accomplished in a fraction of the usual time, these pullers have a rugged forcing screw and cast steel body.



**KA-3090 Air Brake Service Kit**

This kit includes the tools needed to remove the air brake push rod clevis pins, and both manual and automatic slack adjusters found on class 7 & 8 tractor and trailer brake systems.



**KA-4437 A/R Brake Slack Adjuster**

- Designed to make slack adjustment on air brakes used on Timken, Fruehauf, Kay-Burner and Trailermobile axles.
- The VIM slack adjusting tool permits rapid and easy checking of brake pot push rod movement. Adjustment of brakes can be made with this one tool by using proper socket attached to 3/8" sq. drive provide.



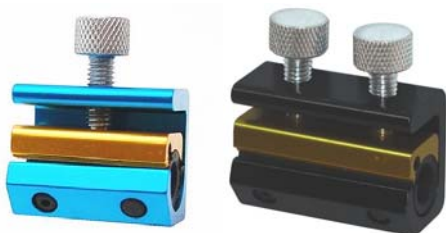
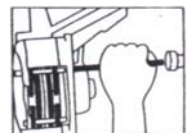
**KA-4311 Brake Anchor pin and Bushing Service Set**

This rugged forged "C" frame press easily removes the often rusted truck brake anchor pins and bushings. Mechanical screw power does the job quickly with little effort. With this press you can handle truck brake pins up to 1-1/4" (32mm) diameter.



**KA-4289 Brake Caliper Pin Punch (GM Vauxhall/Opel)**

- Designed to safely remove the brake pad retaining pins fitted in GM (Vauxhall/Opel) vehicles.
- The punch has a specially shaped end for positive location within the dowel type retaining pin.

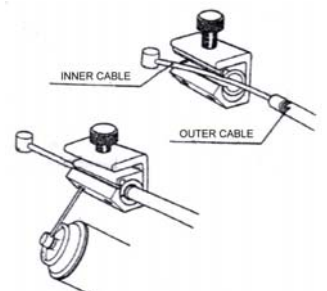


KA-3896

KA-3896A

**KA-3869 KA-3869A  
Brake and Clutch Cable Injector**

(for a motor vehicle)  
This tool is purpose designed to fix the brake and clutch cable when injecting the lubrication oil.

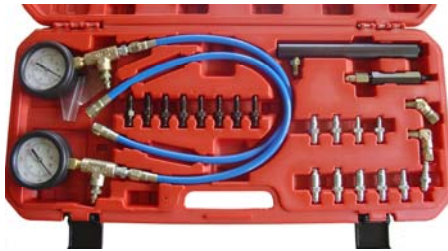


**KA-7421A ABS Brake Pressure Tester Kit**

■ For ABS system (anti-lock brake system), Non-ABS systems

■ Contents:

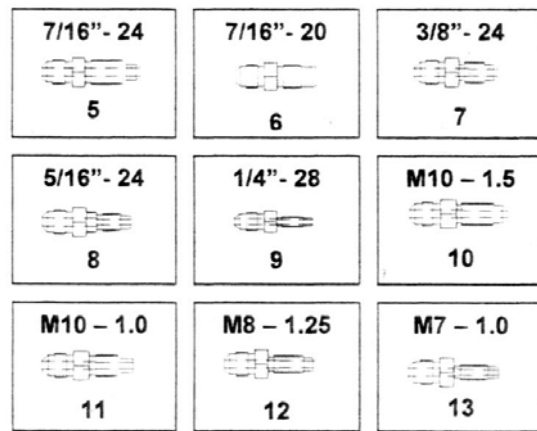
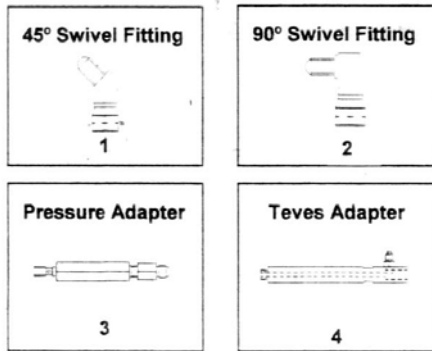
- |                              |                              |
|------------------------------|------------------------------|
| 2 - 3000 PSI Gauge Assembly  | 2 - 3/8-24 Straight Fitting  |
| 1 - Pressure Adapter         | 2 - 5/16-24 Straight Fitting |
| 1 - Teves Adapter            | 2 - M10-1.5 Straight Fitting |
| 1 - 45° Swivel Fitting       | 2 - M8-1.25 Straight Fitting |
| 1 - 90° Swivel Fitting       | 2 - M10-1.0 Bleeder Adapter  |
| 2 - 7/16-24 Straight Fitting | 2 - 7/16-20 Straight Fitting |
| 2 - 1/4-28 Straight Fitting  | 2 - M7-1.0 Straight Fitting  |



- Caution: Wear approved safety glasses when using the Brake Pressure Test Kits. Do not discount hose under pressure. Pressurized fluid may cause injury.
- The brake pressure test kit tests abs or conventional brake systems for most makes and models.
- Always read instructions carefully prior to use.
- This kit comes complete with steel gauges, plastic lens; brass/steel fittings; high pressure hose.

**BLEEDER SCREW REFERENCE CHART**

**ADAPTER CHART**



**KA-4292 Brake Shoe Spreader Pliers**



- Times saving tool significantly reduces the time it takes to remove and install brake wheel cylinders and/or rubber boot
- Allows user to replace the brake wheel cylinder easily without removing return spring, brake shoe and other parts without damaging the brake disc or brake shoe
- Special design allows for removal of brake cylinder smoothly and quickly
- Easily spread and return the brake shoe and lining
- Pliers expanding range is from 60mm to 135mm
- Width of the pliers can be adjusted
- Precision clamp on end of flexible cable allows for extended reach
- Pliers can be locked, freeing up your hands and making your job easier and faster
- Rubber dipped handle for comfort
- Pliers designed for use with most passenger vehicles
- US PATENT #6,370,985 B1

**INSTRUCTIONS FOR USE**

**STEP1 :** Remove tire to expose brake assembly.

**STEP2 :** Insert clamp at the end of flexible wire of pliers onto the brake lining near area where brake lining holds brake cylinder.

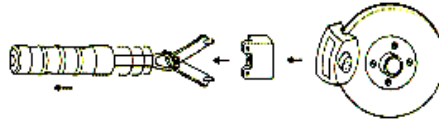
**STEP3 :** Once pliers have been properly positioned onto brake lining squeeze handle to spread brake lining to allow access to the brake wheel cylinder. At this point boot and cylinder can be checked and/or repaired. Once repair is complete release tension on pliers slowly to return brake lining to its original position.



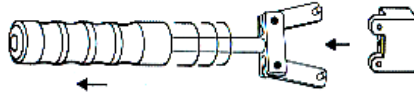




**KA-3058 Disc Brake Pad Puller**



**KA-3059 Disc Brake Pad Puller**



**KA-4279 Brake Cylinder Hone**

Flexible shaft with adjustable honing tension  
Capacity: 3/4" ~ 2-1/2" (19 ~ 63.5mm)

**KA-4279-1 Replacement Hone Stone For KA-4279**

3pcs/set 220grit



**KA-4280 Brake Cylinder Hone**

Flexible shaft with adjustable honing tension  
Capacity: 1-1/4" ~ 3-1/2" (31.75 ~ 88.9mm)

**KA-4280-1 Replacement Hone Stone for KA-4280**

3pcs/set 220grit



**KA-4281 Brake Cylinder Hone**

Flexible shaft with adjustable honing tension  
Capacity: 2" ~ 7" (50.8 ~ 177.8mm)

**KA-4281-1 Replacement Hone Stone for KA-4281**

3pcs/set 75x9x6mm 220grit



**KA-3044 Brake and Accelerator Pedal Jack**

Trigger-controlled unit slides handle to any position on 28-1/2" shaft. Thumb lock releases pressure easily. Use as pedal depressor.





**KA-3032 Brake Shoe Adjustment Gauge**

Measures clearance between brake drums and shoes with diameters from 6-1/2" to 14-1/4" (165mm to 362mm). Works on most small cars with drum brakes prior to assembly. Inside calipers measure drum diameter. Outside calipers transfer measurement to brake shoes. Calibrated in inches and millimeters.



**KA-3033 Disc Brake Lining Wear Gauge**

Measures brake lining remaining on pads in fraction 1/16" to 5/8". Check without removing caliper. Meets disk brake inspection requirements.



**KA-4037 Air Release Valve For Brake Slave Cylinder**

- Releases air bubbles inside slave cylinder after replacement to ensure safe, efficient braking.
- Enables one-man operation to minimize repair time labor.
- Applicable: the general sedans can use this product.



**KA-2923 Brake Caliper Pressure Release Tool- Pneumatic**



**KA-3630K High-Quality Brake Tool Set**

16 parts, in plastic case with soft foam insert. For brake maintenance / repair



**Contents:**

Brake Line Flare Nut Wrenches :	For screwed connections of brake lines at the front and rear axle.
Brake Spring Pliers :	For installing and removing the brake shoe recuperating spring on riveted brake linings.
Brake Spring Pliers :	For glued and riveted brake linings.
Screwdrivers with Impact :	For brake disc fixing screws.
Screwdriver Sockets :	for brake calliper screws
Screwdriver Sockets :	for brake calliper screws
Assembly tool :	For installing and removing fixing springs of the handle brake shoes on passenger cars with disc brakes.
Screwdriver Socket with Universal Joint:	For calliper screws.
Special Tool for Brakes:	For installing and removing spring plates and the holding device of brake linings on drum brakes.
Brake Calliper Brush :	For the removal of brake dust and dirt from the brake calliper.
Brass Brake Calliper Brush :	For cleaning aluminium brake callipers.
Assembly Tool:	For installing and removing the draw spring of hand brake shoes.
Brake Cable Spring Pliers:	For installing and removing hand brake cables of the drum brake.
Brake Calliper File:	For the removal of brake dust, rust and dirt from the brake calliper.
With integrated flat scraper for removing crude residues.	

**KA-3661 Open Brake Disk Tool**



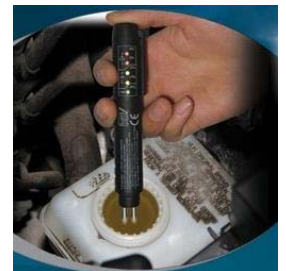
**KA-1033 (round type)**

**Brake Fluid Tester**

**KA-1033 (Round Type)**

**KA-1033A (Flat Type)**

The tester can be used as a digital brake fluid tester suitable for determining brake fluid quality. Developed for professional use in automotive repair shops and in servicing. Quality it tested and indicated on five LEDs in terms of "per cent of water in the brake fluid".



**Ready for Brake Fluid Test**

- Unscrew the brake fluid reservoir, and pull off the cap of the brake fluid tester.
- Dip the test probes into the brake fluid up to the plastic rim of the device.
- Battery(incl): one 1.5V, type AAA

**To Check Fluid Quality**

Press the button for power on, green LED will light up.

Insert the tester into reservoir for one second then the test result will be correctly indicated by LEDs.

The tester will automatically power off after 12 seconds of inactivity.

**Product Labelling Indication**

Green: Battery OK, i.e: no water contained in the brake fluid.

Yellow: Less than 1% of water content in brake fluid.

Yellow/Yellow: Approx 2% of water content in brake fluid.

Yellow/Yellow/Red: Approx 3% of water content in brake fluid. The brake fluid should be changed.

Yellow/Yellow/Red/Red: At least 4% of water content in brake fluid. The brake fluid must be changed urgently!



**KA-1033A (flat type)**

**KA-3666 Brake Caliper Guidance Thread Repair Set – For VAG**

- For repairing the guide pin threads in the wheel bearing housing.
  - With disassembly of guide pins while changing the brake pads the internal threads are frequently destroyed.
  - The defective threads are repaired professionally and quickly with a heavy duty rustproof high-grade steel threaded bush.
  - Contents:
    - Replacement bushes with copper ring M9 x 1.25 (packing unit 10pcs)
    - special core drill
    - Special tap M9 x 1.25
    - Hex key 7mm
- 

**KA-3666A Brake Caliper Guidance Thread Repair Set – For Ford, VAG, OPEL**

- For repairing the guide pin threads in the wheel bearing housing.
  - With disassembly of guide pins while changing the brake pads the internal threads are frequently destroyed.
  - The defective threads are repaired professionally and quickly with a heavy duty rustproof high-grade steel threaded bush.
  - Contents:
    - Replacement bushes with copper ring M9 x 1.25 (packing unit 10pcs)
    - special core drill
    - Special tap M9 x 1.25
    - Hex key 7mm
- 
- 
- 
- 
-



### KA-3001 "ONE-MAN" Brake Bleeder

- Simple to use, One Man Bleeder.
- Everything needed to quickly bleed brakes with no mess. Plastic bottle collects discharged fluid. Complete instruction.



### KA-3002 One Man Brake Bleeder Kit

Deluxe kit will service calipers. Wheel cylinders and master cylinders. Includes fluid collection bottle with extra - strong magnet (for convenient attachment to car). Set of hoses and special fillings.



### KA-6790 One-Man Brake Bleeder Hose Kit

One way check place built into fuse allows use to control flow of fluid.



### KA-1325 Automatic Brake & Clutch Bleeder

- Fast, easy effective bleeding of brakes and clutch using air from type.
- Innovative design incorporates valve for control of air pressure, extra-long air hose for use with larger vehicles and magnetic reservoir base to prevent accident accidental spillage.
- Suitable for use with ABS systems.
- Supplied with range of common adaptors.



### KA-2438 Non-Power Brake Oil Receiver

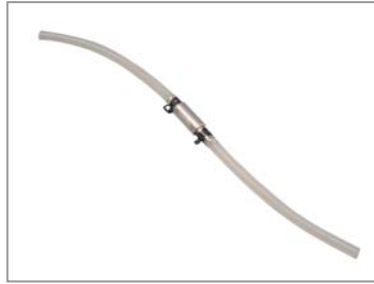
- Silicone tube that resist the strong acid and strong alkaline solution.
- No need to connect to any air compressor to change oil, all you need to do is connect it to the brake oil container opening. And step the brake pad (while ignited) to change the brake oil.
- Capacity: 1000 cc



### KA-7248 Bleeder Bottle (1L)



**KA-2439**  
Hydraulic Brake Bleeder



**KA-2439-1**  
Hydraulic Brake Bleeder



**KA-6791 One-Man Brake Bleeder Hose**

One way check place built into fuse allows use to control flow of fluid.



**KA-3003 One Man Brake Bleeder Hose**

One-way check valve built into hose allows user to control flow of brake fluid from wheel cylinders while pressing brakes. Features universal spring clamp and clear hose to view bubbles.



**KA-2918 2.0T Canister Drain Tool (One Man Brake Bleeding Tool)**

Specially designed for providing one man brake bleeding operation. Just fit bleeder to loosen bleeder screw, and pump brake pedal until all air bubbles are removed from the hose.

- Material: Silica gel hose with brass head
- Size: 2.0T
- Length: 500mmL
- Suitable for: VW, Audi, Skoda, Seat.



**KA-7251A**

**Flexible-Spout Funnel**



Model	KA-7251A	KA-7251B	KA-7251C	KA-7251D
Material	PP	PP	PP	PP
Dimension	140x140x235mm	140x140x235mm	140x140x235mm	140x140x235mm
Weight	75g	75g	75g	75g
Suitable		BENZ.AUDI	NISSAN.HONDA.SUZUKI	TOYOTA





**KA-101-WH Emergency Fuel Transfer Kit**

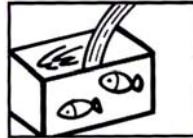
- Extracting various kinds of fluids, oil-resistant, heat-resistant, alkaline-resistant, acid-resistant.
- Compact and Durable.

1. To close the check valve: keep squeezing pump vertically at initial extraction.
2. The extraction would be executed when press the squeezing pump by hand.

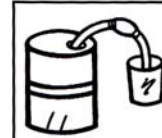
**Application:**



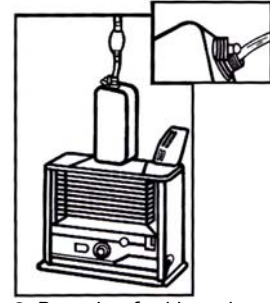
- Extracting transferring fuel from car to car or motorcycle to motorcycle



- Extracting water from fish tank



- Extracting fluid from the tank



- Pumping fuel into the heater



**KA-101A-WH**



**KA-101C-WH**

**Fluid Siphon Pump**

- For use on Vauxhall 2.0 di & 2.2 di diesel engines
- After the replacement of the new diesel fuel filter, this tool is used to introduce the fuel into the fuel pump

**WASTE OIL STORAGE**

- Handy
- Fast
- Environment-friendly
- It passes all kinds of cars and motorcycles.
- Full can could be evacuated to a old oil reception.

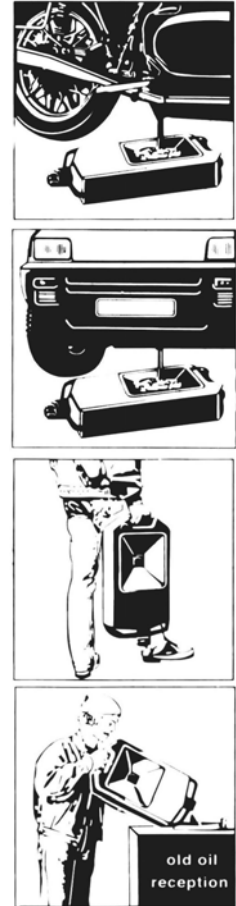
**Instruction:**

- Loose the two wing screws before the oil-changing.
  - Oil-changing can with a hollow slipped under the oil outlet screws.
- You can also lock the oil-changing can for transport and storage.



Item No.	Weight	Capacity	Size
PA-OP40Y	570G	4L	427 x 292 x 100mm
PA-OP60Y	700G	6L	427 x 292 x 126mm
PA-OP80Y	850G	8L	568 x 320 x 112mm
PA-OP100Y	850G	10L	567 x 321 x 126mm
PA-OP170Y	1000G	17L	671 x 380 x 138mm

*Make the oil-changing much easier!*



**PA-OP450Y 44L Waste Oil Storage**

- Weight: 3360g
- Capacity: 44L
- Size: 885 x 495 x 188mm



**PA-UP100Y 10L Waste Oil Storage – Pot Type**

- Weight: 850g
- Capacity: 10L
- Size: 620 x 292 x 173mm

**Oil Drain Tray**

--- PE --- TEMPERATURE RESISTANCE



**KA-7197**

- Capacity: **24L**
- Size: 82x54x19cm



**KA-7197C**

- Capacity: **6.6L**
- Size: 43.5x39.5x11cm



Item No.	Capacity	Size
KA-7197A	8L	49 x 38.5 x 12.5cm
KA-7197B	16L	55 x 44 x 15cm



Item No.	Capacity	Size
KA-7197AN	8L	50 x 40 x 13cm
KA-7197BN	16L	58 x 47 x 16cm
KA-7197DN	3.5L	41 x 33 x 10cm

**\*\*For motorcycle**



**KA-6690 Vacuum Testing Brake Bleeding Kit**

*A COMPLETE KIT FOR VACUUM TESTING AND ONE-MAN BRAKE BLEEDING*

**Useful Information:**

1. The kingtool vacuum pump
2. The automotive vacuum system
3. Diagnosing mechanical engine conditions.
4. The fuel system
5. Ignition system service
6. Engine tune-ups
7. Computerized engine control systems.
8. Emission control system components.
9. Automatic transmissions
10. Brake systems
11. Body and accessories
12. Motorcycle and marine vehicle.
13. Ship honing fluids.



\*\*\*\*\* TOTAL 25 FUNCTION \*\*\*\*\*

VACUUM READING: 0 ~ 760mmHg(0 ~ 30 INCH Hg)

**KA-4422K Vacuum/Pressure Pump**

■ **Mechanical engine condition**

1. Vacuum gauge
2. Cylinder leakage
3. Valve stem oil seals
4. Heavy duty diesel piston pin retainer leakage
5. Turbocharger waste gates motorcycle and marine
6. Sealing & Defective gaskets

■ **Testing**

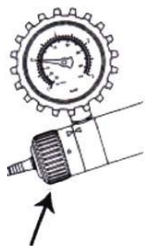
Vacuum pump provides many tests including but not limited to the following.

- |   |  |
|---|--|
| <ol style="list-style-type: none"> <li><u>1. Automatic transmission</u><br/>* vacuum modulators</li> <li><u>2. Body and accessories</u><br/>* vacuum reservoirs<br/>* air conditioning and heating<br/>* heater cores</li> <li><u>3. Brake systems</u><br/>* antilock brake system<br/>* conventional brake system<br/>* power brake system</li> <li><u>4. Computerized engine control systems</u><br/>* FORD EED-III and MCU system<br/>* CHRYSLER electronic fuel control system<br/>* American motors engine controls</li> </ol> | <ol style="list-style-type: none"> <li><u>5. Emission control system</u><br/>* heated-inlet air system<br/>* EGR (Exhaust gas recirculation) system</li> <li><u>6. Engine tune-up</u><br/>* carburetor adjustments and service<br/>* carburetor chokes<br/>* propane carburetor service</li> <li><u>7. Fuel system problems</u><br/>* fuel tank<br/>* fuel lines<br/>* fuel pumps<br/>* fuel pressure regulator</li> <li><u>8. Ignition system services</u><br/>* system functions<br/>* ignition timing<br/>* power brake system</li> </ol> |
|---|--|

- Vacuum reading from 0 to -1 bar / 0 to 760 mmHG with 0.05 gauge increments
- Pressure reading from 0 to 4 bar / 0 to 60 PSI with 0.05 gauge increments



CHANGES FROM VACUUM TO PRESSURE INSTANTLY





### KA-4425K Vacuum Pump / Brake Bleeding Kit

*A COMPLETE KIT FOR VACUUM TESTING AND ONE-MAN BRAKE BLEEDING*

**Testing:**

1. Diagnosing mechanical engine conditions
2. The fuel system
3. Ignition system service
4. Engine tune-ups
5. Computerized engine control systems
6. Emission control system components
7. Automatic transmissions
8. Brake systems
9. Body and accessories
10. Motorcycle and marine vehicle
11. Ship honing fluids

\*\*\*\*\* TOTAL 25 FUNCTION \*\*\*\*\*



**KA-3000KC**



**KA-7193KA**

**2000cc Pneumatic Engine Valve & Parts Carbon Clean Kit**

- Simple and easy to operate suitable extracting & filling fluid
- Washing engine carbon with special parts. (universal for all model)
- Filling fluid control valve with Nylon & PU hose



**Specifications:**

- AIR INLET.....1/4"
- AVG AIR CON..... 2CFM
- WORKING PRESSURE..... .40 -170 PSI
- TEMPERATURE RANGE .....-3°F - 140°F
- MAX CAPACITY..... 2000c.c

**KA-7195 Engine Carbon Washing Kit (1.0LT)**

1. Warm up the engine, then shut off and disassemble the spark plugs from engine.
2. Insert the cleaning reagent into the canister and ensure without any leakage, fasten the knob of regulation and set the slide valve to "ON" position
3. Ensure the pressure gauge of regulator indicate 0 psi, and lock on the vacuum knob(#07)
4. Insert the lead hose to the spark plug holes and raise the pressure gently. The cleaning reagent will flow in the combustion chamber. While all combustion chamber filled by the cleaning reagent, remove the lead hose. The pressure gauge of regulator indicate around 20 psi
5. Set the slide valve to "OFF" position and stay 15-20 minutes. The carbon in the combustion chamber will react with the cleaning reagent.
6. Release the vacuum knob 2 turns, and reinsert the lead hose into the spark plug hole, then set the slide valve to "ON" position
7. Raise the air pressure to 90 psi. The carbon an cleaning reagent will suct out. The cleaning procedure completed.
8. Reinstall the spark plugs on the engine, and start the engine
9. This is the best procedure for clean the carbon in the combustion chamber



STEP:1



STEP:2



STEP:3



STEP:4



MODEL: HONDA  
OPERATIONAL EXAMPLE

**KA-2437 Fuel Injection Cleaner & Tester Kit**

- Cleaning intake valve
- Cleaning combustion chamber
- Cleaning vacuum system
- Test vacuum system pressure



**Petrol Engine Testing & Cleaning Kit**

KA-6780



KA-6780K



KA-6692K



KA-6692KN



**\* For All Petrol Engine Cars**

- Clean the following parts: Intake Valve, Combustion Chamber, Vacuum Hose
- Test the following parts: Engine System Pressure, Petrol Pump Pressure, Vacuum System Pressure

**\* Fuel Injector**

The opening of the fuel injector is as thin as the human hair. The accumulation deposits at the tip would affect and upset the air/fuel mixture.

- The Problem Symptoms:
  - Stumble during acceleration. Power Loss.
  - Emissions of Hydrocarbons and Carbon Monoxide Increases.

**\* Intake Valve**

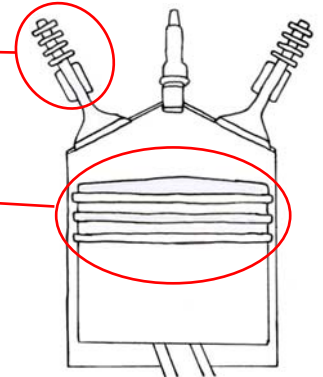
While the engine is warming up, the intake valve absorbs fuel and leaves out the air/fuel mixture.

- The Problem Symptoms:
  - Poor Driveability. Power Loss.
  - Emissions of Hydrocarbons and Carbon Monoxide Increases.

**\* Combustion Chamber**

As the deposits keep accumulating, the compression temperature increases, and lead to auto-ignition of the air/fuel mixture.

- The Problem Symptoms:
  - Poor Acceleration, Run-On, Knocking, Pinging, Octane is increasingly required.
  - Emissions of Nitrogen Oxide increases.



**NEW TYPE**

**OLD TYPE**



The removable pin can avoid the cleaner from flowing during installation.



Regular Valve

**☆ SPECIAL FEATURE ☆**

KA-6692KN

A new upgrade design for cleaning the carbon deposit for fuel injector.

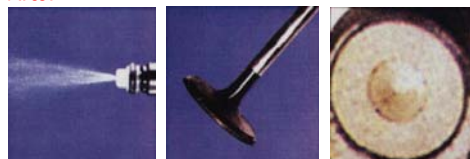
KA-6692KN is made with Pressure Adjusting Device which also adjusts the flow rate, so only adequate amount of cleaner flow through, to avoid ignition difficulties caused by too little or too much of cleaner.

**Re-Discover The Power of Your Car Engine**

**Before**



**After**





**KA-7199 Vacuum Brake Fluid Bleeder 1L (Air powered)**

**Introduce:**

- Uses standard workshop air supply.
- Removes fluid via bleed nipples to allow bleeding or entire fluid replacement.

**Specification:**

- Capacity: 1 liter
- Material: PE
- Power air vacuum



**KA-7199A 1L Vacuum Brake Fluid Bleeder Set**

- Vacuum brake bleeder complete with 2 new fluid supply bottle
  1. **KA-7199** : 1 liter capacity, air vacuum powed, 1200g
  2. **KA-6545D**: brake fluid supply bottle- adjustable nozzle
  3. **KA-6545DA**: brake fluid supply bottle- fix nozzle
- 1 liter capacity
- Uses standard workshop air supply
- Removes fluid via bleed nipples to allow bleeding or entire fluid replacement



**KA-7199B 1L Vacuum Brake Fluid Bleeder Set**

- Vacuum brake bleeder complete with new fluid supply bottle
  1. 1 liter capacity, air vacuum powder, 820g
  2. 1 liter New fluid bottle adaptor set for different master cylinder designs
- 1 liter capacity
- Uses standard workshop air supply
- Unique rubber joint for fluid extraction (avoids leaks)
- Removes fluid via bleed nipples to allow bleeding or entire fluid replacement



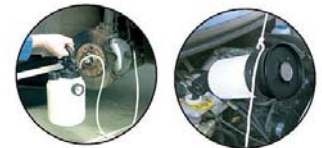
**KA-6545J 4L Vacuum Brake Fluid Bleeder (Air powered)**

- Vacuum brake bleeder.
- 4 liter capacity.
- Uses standard workshop air supply.
- Removes fluid via bleed nipples to allow bleeding or entire fluid replacement.

**Include:**

**KA-6545D Brake Fluid Supply Bottle 1L (Adjustable Nozzle)**

<b>Model</b>	KA-6545J
<b>Material</b>	PE
<b>Capacity</b>	4L
<b>Power</b>	Air Vacuum
<b>Weight</b>	1420g



brake bleeding operation.



**KA-6545H Manual Pressure Brake Bleeder (Manual powered)**

**Feature**

- Easy one-person operation.
- Simple hand-pump operation to create pressure.
- Portable.
- Supplied with European cap adaptor.
- 3.5 liter capacity.

<b>Model</b>	KA-6545H
<b>Material</b>	PE
<b>Capacity</b>	3.5L
<b>Weight</b>	1140 gs
<b>Dimension</b>	170x190x420 m/m





**KA-7193K  
2000cc Pneumatic Oil & Liquid Dispenser**

- 2000cc 2 in 1 extract & pump dispenser
- With 1M Nylon hose extracting oil tank
- 1.2M PU hose with super flexible rubber nozzle
- Fixing valve & safety cup for automatic cut-off extract
- Suitable for narrow & difficult space filling
- Simple and easy to operate suitable extracting & filling any liquid

**Specifications:**

- AIR INLET.....1/4"
- AVG AIR CON..... 2CFM
- WORKING PRESSURE..... .40 - 170 PSI
- TEMPERATURE RANGE .....-3°F - 140°F
- MAX CAPACITY..... 6000c.c.



**KA-7196 Pneumatic Oil & Liquid Dispenser**

- 6000cc 2 in 1 extract & pump dispenser
- With 1M Nylon hose extracting oil tank
- 1.2M PU hose with super flexible rubber nozzle
- Fixing valve & safety cup for automatic cut-off extract
- Suitable for narrow & difficult space filling
- Simple and easy to operate suitable extracting & filling any liquid

**Specifications:**

- AIR INLET.....1/4"
- AVG AIR CON..... 2CFM
- WORKING PRESSURE..... .40 - 170 PSI
- TEMPERATURE RANGE .....-3°F - 140°F
- MAX CAPACITY..... 6000c.c.



**KA-7196A Pneumatic Oil & Liquid Dispenser**

- 6000cc pump dispenser
- Suitable for narrow & difficult space filling
- Simple and easy to operate filling any liquid

**Specifications:**

- AIR INLET.....1/4"
- AVG AIR CON..... 2CFM
- WORKING PRESSURE..... .40 - 170 PSI
- TEMPERATURE RANGE .....-3°F - 140°F
- MAX CAPACITY..... 6000c.c.



**KA-7196P Pneumatic Oil & Liquid Dispenser**

- Provide with the safety valve, pre-setting 43psi (3kg/cm2) the exceed pressure will be relief automatically
- Provide with the pressure gauge, can be read & control the air pressure in the tank more easily.

**Specifications:**

- AIR INLET.....1/4"
- AVG AIR CON..... 2CFM
- TEMPERATURE RANGE .....-3°F - 140°F
- MAX CAPACITY..... 6000c.c.

**EXTRACT EXAMPLE**

FOR : 5 GALLON OIL TANK

FOR : 50 GALLON OIL TANK



FOR : SPECIAL OIL



**FILLING EXAMPLE**

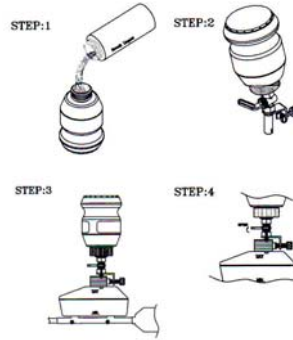
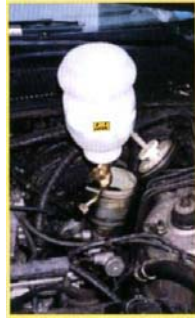
FOR : PISTON OIL

FOR : GEAR OIL

FOR : MACHINE OIL



**KA-7192 Brake Oil Bleeder (1.0LT)**



**KA-7193 Pneumatic Brake Oil Extractor (2.0LT)**

- Change your brake oil is a simple and easy operation you have the right tools.
- One man in same step clear operation quick and safety.

**Specifications:**

- AIR INLET.....1/4"
- AVG AIR CON..... 2CFM
- WORKING PRESSURE..... .40 -170 PSI
- TEMPERATURE RANGE .....-3°F - 140°F
- MAX CAPACITY..... 2000c.c.



**KA-7194K Pneumatic Brake Oil Extractor & Bleeder Kit**

- Midget size N.W. then less 1 kg easy carry & operation.
- Pneumatic extractor non-spark.
- One man in same step operate
- 1 meter silicon hose with universal rubber adaptor, can fit most vehicle brake oil bleeder fitting
- Fixing valve & safety cup for automatic cut-off extractor

**Specifications:**

- AIR INLET.....1/4"
- AVG AIR CON..... 2CFM
- WORKING PRESSURE..... .40 -170 PSI
- TEMPERATURE RANGE .....-3°F - 140°F
- MAX CAPACITY..... 2000c.c.



**KA-2440 Basic Brake Bleeder**

- Economical- fast and easy, reduces labor costs.
- Versatile- handles most standard and ABS brake systems.
- Clean- collects old brake fluid without spillage.
- Quiet- integrated silencer for a quieter. Working environment.
- Silicon suction assembly with universal rubber fitting

**Specifications:**

- AIR INLET.....1/4"
- AVG AIR CON..... 2CFM
- WORKING PRESSURE..... .40 -170 PSI
- TEMPERATURE RANGE .....-3°F - 140°F
- MAX CAPACITY..... 2000c.c.



**KA-2440KA Basic Brake Bleeder Kit**

- Midget size N.W. then less 1kg easy carry & operation.
- Pneumatic extractor non-spark.
- One man in same step operate.
- 1 meter silicon hose with universal rubber adaptor, can bleeder fitting
- Fixing valve & safety cup for automatic cut-off extractor

**Specifications:**

- AIR INLET.....1/4"
- AVG AIR CON..... 2CFM
- WORKING PRESSURE..... .40 -170 PSI
- TEMPERATURE RANGE .....-3°F - 140°F
- MAX CAPACITY..... 2000c.c.







**KA-2440KN Pneumatic Brake Fluid Extractor & Refilled Kit**

<b>WORKING PRESSURE</b>	<b>(PSI)</b>	70 ~ 170
	<b>(BAR)</b>	(4.9 ~ 11.9)
<b>CAPACITY</b>		KA-2440N EXTRACTING TANK: 2.0L KA-7192N REFILLED BOTTLE: 1.0L
<b>AIR INLET</b>		1/4"



**KA-2440N Brake Bleeder**

- Change your brake oil is a simple and easy operation if you have the right tools!
- One man in same step clear operation quick and safety!

**Specifications:**

- AIR INLET.....1/4"
- AVG AIR CON..... 4.5CFM
- WORKING PRESSURE..... 70 -170 PSI
- TEMPERATURE RANGE .....-3°F - 140°F
- MAX CAPACITY..... 2000c.c.



**KA-7192N Brake Bleeder (Refilled Bottle)**

- Automatic refilling of the master cylinder reservoir while bleeding.
- Capacity: 1.0L



**KA-6000 Powerful Oil Exchanger**

- Capacity: 6 Liter
- Multi-Functional (D.I.Y.)
- Easy, Economical, Clean safe



**KA-6000A Pneumatic Oil Exchanger & Bleeder Kit**

- Fast – No mess – Fluid removal
  - Environmentally friendly
  - Air operated “no moving parts” fluid extraction unit
  - Suitable for automotive, industrial, motorcycle, marine & heavy plant equipment applications.
  - Oil extraction: Engine, Power Steering, Gear Box, Automatic transmission, Differential, Marine, Industrial machinery
  - Fluid Extraction: Brake, Coolant, Hydraulic, Cutting, Lubricating
  - “Vacuum Hold” feature allows use even when disconnected from air supply.
  - Extraction is achieved using deep vacuum technology
  - Automatic fluid shut off valve to prevent over filling
  - On-off flow tap
  - Quick connect fittings
  - Quick release air supply locking trigger
  - Carry handle & easy pour spout for fluid disposal.
  - Container & fittings constructed from chemical resistant materials.
- Note: NOT for use with Highly Flammable fluids.



**KA-7198 Pneumatic Fluid Dispenser 10L**

**Introduce:**

- Adopt durable polyethylene material.
- Compact design with air power operated.
- Maintenance free.
- Easy dispensing job.
- Safety valve design.
- Oil Gun
- optional accessory

**Specification:**

- Weight: 3.44 kgs
- Capacity: 10L
- Power Source Pneumatic Dimension: 550x310x180m



**KA-7196-L Pneumatic Oil Extractor (8.5L)**

- Capacity 8.5L for extracting some kind new car engine oil.
- Pneumatic extractor non-spark.
- One man in same step operate
- 1 meter silicon hose with universal rubber adaptor, can fit most type brake fitting
- Fixing valve & safety cup for automatic cut- extractor



**KA-7037H Manual Fluid Extractor (9 Liters)**

- A large 9.0 Liter (2.35 gallon) capacity.
- Manual fluid extractor, can be used to extract many kinds of non-explosive liquids.
- Completely using hand pump when you without shop air.
- New safety design, when the tank is full of liquid, the mechanism will be shut off automatically.
- One man, fast, clean and easy operating.
- None electric spark, safety for workshop.



**KA-7037PM Manual & Pneumatic Fluid Extractor (9 Liters)**

- A large 9.0 Liter (2.35 gallon) capacity Manual & Pneumatic fluid extractor, can be used to extract many kinds of non-explosive liquids.
- Completely automatic using normal shop air, or using hand pump when you without shop air.
- New safety design, when the tank is full of liquid, air inlet mechanism will be shut off automatically.
- One man, fast, clean and easy operating.
- None electric spark, safety for workshop.
- Max air Consumption: 5.0 CFM

**Specifications:**

- AIR INLET.....1/4"
- WORKING PRESSURE.....70 -170 PSI  
.....4.9 - 11.9 BAR
- TEMPERATURE RANGE .....-3°F - 140°F
- MAX CAPACITY..... 9000c.c.



**KA-6781  
Pneumatic Oil Extractor (5.5L)**

- Simple and easy to operate suitable for engine oil gear oil transmission and brake fluid water
- Extract with 3min. For 5 liter engine oil
- Non-spark power oil extractor
- One man, clear operation, quick and safety.

**Specifications:**

- AIR INLET.....1/4"
- AVG AIR CON..... 2CFM
- WORKING PRESSURE..... 40 - 170 PSI
- TEMPERATURE RANGE .....-3°F - 140°F
- MAX CAPACITY..... 5500c.c.



**Can be used to extract a wide range of fluid types:**

- engine oil
- transmission fluid
- gear oil
- coolant
- power steering fluid
- and more...



**Can be used to extract a wide range of fluid types**



**Can be used to extract a wide range of fluid types:**

- brake oil
- transmission oil
- and more



**KA-6781N  
Pneumatic Fluid Extractor (5.5L)**

- A versatile, portable, air operated Fluid Extractor for extracting fluids from crankcases, transmission cases, cooling systems and power steering reservoirs.
- This ideal tool designed to be used with many kinds of non-explosive liquids.
- Completely automatic using normal shop air.
- New safety design, when the tank is full of liquid, air inlet mechanism will be shut off automatically.
- One man, fast, clean and easy operating.
- Fully automatic using normal shop air.
- None electric spark, safety for workshop.
- Max air Consumption: 5.0 CFM

**Specifications:**

- AIR INLET.....1/4"
- WORKING PRESSURE.....70 - 170 PSI  
.....4.9 - 11.9 BAR
- MAX CAPACITY..... 5500c.c.



**KA-6781P  
Pneumatic Fluid Extractor (9L)**

- A large 9.0 Liter (2.35 gallon) capacity Pneumatic fluid extractor, can be used to extract many kinds of non-explosive liquids.
- Completely automatic using normal shop air.
- New safety design, when the tank is full of liquid, air inlet mechanism will be shut off automatically.
- One man, fast, clean and easy operating.
- None electric spark, safety for workshop.

**Specifications:**

- AIR INLET.....1/4"
- WORKING PRESSURE.....70 - 170 PSI  
.....4.9 - 11.9 BAR
- MAX CAPACITY..... 9000c.c.









**KA-6782 2L Pneumatic Brake Fluid Changer**

The oil extractor unit is ideally suited for:  
 Extracting or changing engine oils or lubricants in motor vehicles, motor bikes, marine engines, stationary engines, large and small industrial machinery, as well as non lubricants such as water from fish tanks etc.

- Capacity: 2Litres.
- Working Pressure: 90PSI
- Air inlet: 1/4"

 <p><b>STEP 1:</b>                  Remove the cap from the brake fluid reservoir.                  Suck out all old fluid with the pneumatic brake fluid changer.</p>	 <p><b>STEP 2:</b>                  Place the refill pot which contains new brake fluid into the reservoir. New fluid will automatically flow in to keep the level constant.</p>
 <p><b>STEP 3:</b>                  Push the red end of the clear plastic tube onto the bleeder screw.                  Connect the unit with the air compressor it will automatically extract the fluid.</p>	 <p><b>STEP 4:</b>                  When the color of the fluid is clear, tighten the bleeder screw to stop the extraction.                  (To prevent air from entering the brake system at the bleeder screw). the tube can now be removed from the bleeder screw.</p>

- Repeat the above procedure at every wheel.
- The function of the refill pot is to automatically add new fluid into the reservoir as the pneumatic brake fluid changer sucks out the old fluid from the bleeder screw.

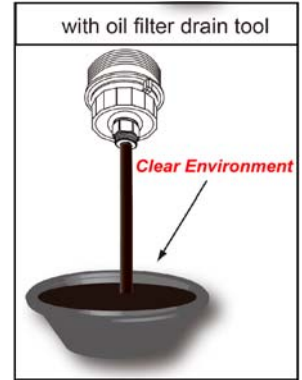
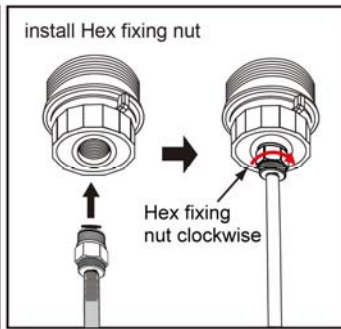
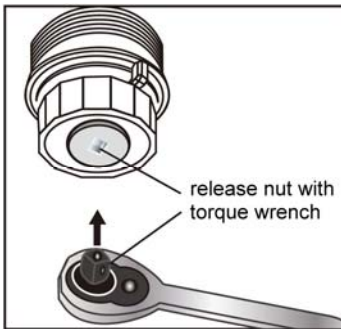
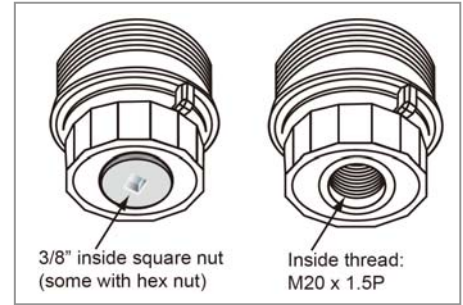
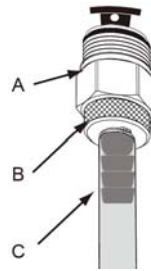


**KA-7261 Oil Filter Drain Tool**

- Provide a professional and clean work since remove type oil filter wrench
- Available for many Toyota & Lexus(2006~)4cy, 6cyl and 8cyl vehicles



**Features:**  
 A: Hex fixing nut: M20 x 1.5P  
 B: Drain Nut  
 C: Drain Hose: 600mm

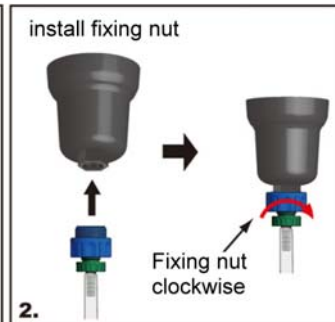
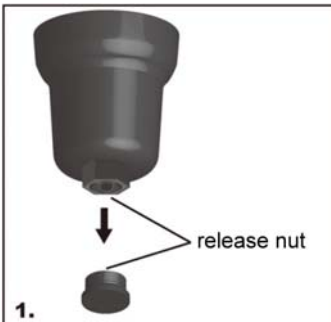
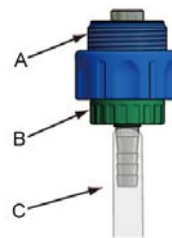


**KA-7261A Oil Filter Drain Tool**

- Provide a professional and clean work since change oil filter
- Available for many VW 2.0 vehicles.  
 Golf V 2.0T 2.5, Golf V (all) 2.0T, Jetta V (all) 2.0T, Passat B6 (all) 2.0T



**Feature:**  
 A. Fixing nut: M32 x 2.0P  
 B. Drain nut  
 C. Drain hose: 900mm







**KA-6576 Oil Release Hose for Cartridge Type Oil Filter**

- Suitable for VW/Audi TFSI and GTI system
- No spillage of oil while removing the filter housing
- Works with KA-2895 Aluminum Cup Wrench Set



**KA-6576A**

**1 Liter Swivel Oil Release Bottle For Cartridge Type Oil Filter**

- Suitable for VW/Audi TFSI and GTI system.
- Release waste oil remaining in oil filter housing before changing the cartridge.
- No spillage of oil while removing the filter housing.
- Swivel adaptor design at the connecting side to the oil filter.
- The waste oil will be storage in the 1L bottle.
- Works with KA-2895 Aluminum Cup Wrench Set
- Dimension: 495 x 122 x 122 m/m
- Weight: 0.273kgs



**KA-6577**

**1 Liter Swivel Oil Release Bottle For Cartridge Type Oil Filter**

- Suitable for VW/Audi TFSI and GTI system.
- Release waste oil remaining in oil filter housing before changing the cartridge.
- No spillage of oil while removing the filter housing.
- Swivel adaptor design at the connecting side to the oil filter.
- The waste oil will be storage in the 1L bottle.
- Works with KA-2895 Aluminum Cup Wrench Set
- Dimension: 330 x 115 x 115 m/m
- Weight: 0.322kgs





**KA-3060**  
**Disc Brake Piston Spreader**  
 Capacity: 0 ~ 65mm(0~2-1/2")



**KA-3060A**  
**H/D Disc Brake Piston Spreader**  
 Capacity: 0~70mm(0~2-3/4")



**KA-5135**  
**Disc Brake Piston Spreader**  
 Capacity: 0~70mm(0~2-3/4")



**KA-4042** **Disc Brake Separator - Wide Type**  
 Open size: 14 ~ 86mm  
 Blade Size: W x D 88 x 57mm



**KA-6676**  
**H/D Disc Brake Spreader**  
 Capacity: 0~87mm(0~3- 1/2")



**KA-6847**  
**Disc Brake Spreader**  
 Capacity:0~48mm(0~1-7/8")



**KA-2042 Rear Brake Caliper Reset Tool**

- Excellent profile for easy insertion into the thin brake caliper such as Cabrio Corrado, Golf Jetta, Beetle and Passat
- Lever fixture provides handy rotation, Additional Hex-end of the pivot for 12mm socket (not included) provides solution for ragged situation
- Triangular shaped pin allows perfect engagement to the wind-back piston of the caliper
- Pivot thread pitch is the same as the wind-back piston of the caliper
- Centering press plate attached



**KA-4418 Universal Brake Caliper Tool**

- Capacity: 0~92mm(0~3 5/8")
- The tool is designed to provide a applicable way for the most 1,2,3,4,6,8 pistons brake caliper service work that includes Mercedes-Benz S-Class, BMW 7-series, Porsche, Racing Cars...etc
- It is easy to use and maintenance free

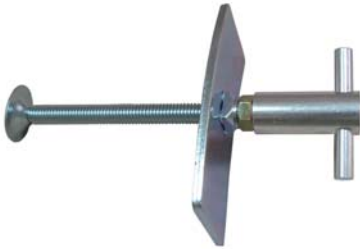
**Removing and installing disc brake pads**

1. Raise the car and support on jack stands. Remove the wheels.
2. Remove brake pads retaining springs and brake pads.
3. Use the tool to push piston into caliper housing.
4. Depress brake pedal firmly several times to seat brake pads. Check brake fluid level and add as necessary. The remainder of installation is the reverse of removal.



**KA-3005 Disc Brake Pad Spreader**

- Quick compresses brake pistons for easy pad replacement.
- Suits front disc brake applications on most vehicles.
- Pushes the caliper piston back on disc brakes that do not have the parking brake mechanism as part of the disc brake caliper.



**KA-3005A Disc Brake Pad Spreader**

- For installing pads on most domestic and import cars and light trucks.
- Makes changing pads an easy job.
- Tool compresses disc brake piston for easy pad installation.



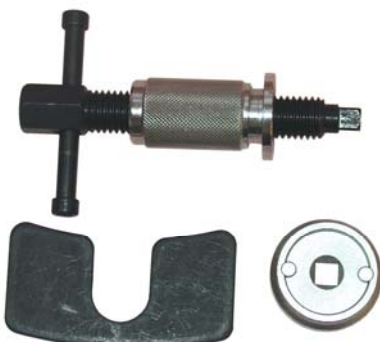
**KA-2119 Universal Disc Pad Spreader**

- Works on most single piston calipers
- Works on the following dual piston applications: ford f250, f350, f450 trucks, gm lumina, cutlass, regal, and grand prix
- Works on & off the vehicle
- Heavy-duty (3/16") pushing plate designed to be long-lasting
- When installing threaded rod. End caps must face direction of raised side of plate



**KA-6939 Caliper Pressure Tool (FOR M.BENZ)**

Universal tool for pressing caliper pistons back into caliper housings. Due to the construction of this tool which incorporates high-precision hardened cylinder and piston, together with a built-in axial bearing, the highest precision allows easy function to press-back the pistons into the caliper.



**KA-3041 Disc Park Brake Caliper Tool**

Use for: FORD, AUDI, SAAB, VW

- New designed tool body & all disc.
- All h/d magnetic socket adapter
- A comprehensive kit for both push-back & wind-back disc brake piston service applications on 'collete' type brake assemblies.
- Essential for brake pad replacement & caliper servicing
- Enables necessary pressure to be applied to return piston into housing & provide clearance for new pads to be fitted.
- Kit comprises, main body/screw assembly.



**Instruction:**

1. Remove the old brake pads.
2. Select the proper adapter and install it onto the 3/8" hex on the center screw.
3. Place tool in the caliper. Turn the holding collar counter-clockwise until the holding plate pushes against the caliper and the adapter pins seat against the pistons. Do not over-tighten the center screw causing the piston to be hard to turn.



**KA-6425 Brake Caliper Piston Tool**

- A comprehensive kit for both push-back & wind-back disc brake piston service applications on 'COLLETE' type brake assemblies.
- Essential for brake pad replacement & caliper servicing
- Enables necessary pressure to be applied to return piston into housing & provide clearance for new pads to be fitted.

Kit comprises, main body/screw assembly, special locating plate & 5 adapters covering wind-back type FORD, ROVER, HONDA, MERCEDES, TOYOTA, VW-AUDI, NISSAN, BMW, MAZDA, MITSUBISHI, PEUGEOT, SUBARU.

**KA-6714K Disc Brake Caliper Tool**



DISC SIZE	REPAIR PART	APPLICATIONS
1-1/2"	11-1	(Narrow Pins) MOST HONDA, MAZDA, DODGE CONQUEST, MITSUBISHI, SUBARU & 1-1/2" GENGARAL MOTORS.
1-1/2"	11-2	(Wide Pins)MOST FORDS, TOYOTAS, FIERO & SUBARU
1-5/8"	11-3	MOST NISSAN, SUBARU,DATSUN & FORD
1-7/8"	11-4	GENERAL MOTORS 1-7/8" PISTONS
2-1/8"	11-5	GENERAL MOTORS 2-1/8" PISTONS
2-1/2"	11-6	GENERAL MOTORS 2-1/2" PISTONS

**INSTRUCTION:**

1. Remove the old brake pads.
  2. Select the proper adapter and install it onto the 3/8" square on the center screw.
  3. Place tool in the caliper. Turn the holding collar counter-clockwise until the holding plate pushes against the caliper and the adapter pins seat against the pistons. Do not over-tighten the center screw causing the piston to be hard to turn.
  4. Use a 1/2" ratchet to turn the center screw until the piston bottoms in its bore.
- NOTE: Consult your shop manual for pistons turning direction.

**KA-4276 11pc Brake Piston Wind Back Kit**

11pc comprehensive brake caliper wind back kit designed for brake pad replacement and caliper servicing. Suits most popular vehicles including: audi, ford, gm, honda, mazda, mitsubishi, nissan, saab, subaru & toyota. Ideal set for brake specialists, independent motor workshops, panel shops and franchise dealerships.



- (1) Forcing screw body
- (2) Forcing plate
- (3) Stepped adaptor push-back: BMW, GM COMMODORE, NISSAN, MITSUBISHI, HONDA, VW, TOYOTA, JAGUAR, MERCEDES.
- (4) Drive adaptor wind-back: FORD FALCON XB, XC, XD, FAIRLANE ZJ, LTD FC GM HOLDEN HJ HX, HZ
- (5) Driver adaptor wind-back: FORD FALCON EA, EB, FAIRLANE NA, NB, LTD DA
- (6) Driver adaptor wind-back: FORD FALCON XE, XF, FAIRLANE ZK, LTD FD
- (7) Driver adaptor wind-back: MITSUBISHI MAGNA TM, TN NISSAN PULSAR
- (8) Driver adaptor wind-back: NISSAN PINTARA, SKYLINE
- (9) Driver adaptor wind-back: MITSUBISHI STARION, SCORPION, GALANT, LANCER, FORD TELSTAR, LASER, MAZDA 323, 626
- (10) Driver adaptor wind-back: ALFA,, FIAT, FORD, HONDA, MAZDA, SAAB
- (11) Driver adaptor wind-back: AUDI, FORD, NISSAN, PEUGEOT, ROVER, TOYOTA, VW



**KA-7189 Universal Disc Brake Wind Back Tool Kit**

- Precision made adapter plates with thrust bolt assembly and reaction plate.
- Works on brake caliper to push back pistons and provide clearance for new brake pade installation.





**KA-3948 Brake Piston Readjusting Set**

- To readjust, push or turn the brake pistons on floating caliper systems with or without locking device for hand brakes.
- Thrust bearing avoids damaging of the dust boot.
- With additional outside hexagon s 13 mm for flexible application of operating tools, e.g. reversible ratchets.
- Universal application - suitable for all common vehicle types.

	d (mm)	Pins d1 (mm)	
KA-3948-1			Basic device
KA-3948-2	30	5	Adapter with 4 pins HONDA/SAAB
KA-3948-3	30	6	Adapter VW-AUDI, inside hexagon 12mm
KA-3948-4	32	6	Adapter with 2 points FORD Focus, SMART for four OPEL Zafira, Astra, Astra G, Corsa GSI
KA-3948-5	35	5	Adapter with 2 pins AUDI 80 B4
KA-3948-6	55	5	Adapter with 2 pins VW-AUDI



**KA-4001K Disc Park Brake Caliper Tool Kits**

- Four wheel disc brake adapter tool. Fits 1-1/2" pistons. Usable two ways: one side fits GM, Honda, Mitsubishi, Mazda, Dodge Conquest and Subaru; other side fits Ford, Pontiac Fiero, Subaru and Toyota
- Fits 1-11/16" pistons on Subaru, Nissan, Datsun, and Ford thunderbird
- Fits GM 1-7/8" pistons
- Fit GM 2-1/8" pistons
- Fit GM 2-1/2" pistons



**KA-7310K 13pcs Disc Brake Pad & Caliper Service Tool Kit**

- Magnetic socket adapter
- Includes 10 adapters for brake assemblies
- For rotating pistons back into the caliper to provide clearance for the new pads
- Prevents damage to the piston and boot
- Kit comes complete in blow molded storage case
- Designed for use with MERCEDES, BMW, VOLKSWAGEN, GM, AUD FORD, HONDA, SUBARU, NAZDA, NISSAN, MITSUBISHI, TOYOTA, land rover and 4-wheel drive vehicles



**KA-6969 10pcs VW Brake Caliper Wind Back Adaptor Set**

- 1pc- Right handle helix bolt
- 1pc- Pad
- 1pc- No. 3 brake adapter
- 1pc- No. 6 brake adapter
- 1pc- No. J brake adapter
- 1pc- No. L brake adapter
- 1pc- No. N brake adapter
- 1pc- No. P brake adapter
- 1pc- No. S brake adapter
- 1pc- No. W 3 pin brake adapter



**KA-6970 3pcs VW Brake Adapter**

- 1pc- Right handle helix bolt
- 1pc- Pad
- 1pc- No. W 3 pin brake adapter





**KA-2807 5pcs Universal Caliper Wind Back Kit**

- 1 : LEFT HAND HELIX BOLT
- K : Citroen
- K1 : Citroen
- K2 : Citroen
- K3 : Citroen/Renault



**KA-4271 15pcs Universal Caliper Wind Back Kit**

- 1:RIGHT HAND HELIX BOLT
- 2: Citroen/XM, Xantia. (F/R)
- 3 : Audi (F). FIAT/Alfa Romeo (F). Ford/Fiesta (F). ISUZU (F). HONDA/Concesto (F). Jaguar/XJ6,XJ40 (F/R). BMW/318is, 320i, 325TD, 518i, 525i &1x, 740i, 850ci, M5. (F). Mercedes Benz/190,200, 300, 420, 560 series (F). Mitsubishi/Concesto (F). NISSAN/Mlerra, Stanza, Sunny (F). Rover/Austin, Metro, 200 & 400 series, Maestra, Montego (F). TOYOTA/Camry (F). Volvo (F). VW/Passat, Golf GTI (F).
- 4 : FORD Australia/NZ Telstar, Laser(R). MAZDA (R). SAAB 9000 (R). FIAT/Alfa Romeo 1642.0 (R). HONDA/Prelude, CRS 16i, GM/Saturn (R). GM/Grand Prix, Lumina.
- 5 : 3/8" dr. Adapter used with extention bar and ratchet when need to apply more strength to the piston.
- 6 : NISSAN, PRIMERA, VW/GolfIV.
- 7 : Audi /80, 90, V8+100, Coupe E(R). Rover/800 ABS. SUBARU L+Z(R). FORD/Sierra ABS, Granada, Scorpio ABS 85(R). NISSAN/Bluebird 1.8 Turbo, Silvia Turbo, Primera 2.0i LS/GS/GSX(R). PEUGEOT/405 1.9 Gi, Gri, Sri, Gtxi, MI 16, 605 2.0 Sri(R). TOYOTA/Celica, Corolla GT MR2(R). VW/Golf Gti, Jeta Synchro, Jetta Gti 16v, Passat CL, GL, GT and GT 16v, Corrado 16V scirroca GTX 16V(R).
- 8 : GM most 1-7/8" diameter pistons.
- 9 : GM most 2-1/8" diameter pistons. (CADI Seville/Eldorad 80-85).
- 0 : GM most 2-1/2" diameter pistons. (Seville/Eldored 79).
- A : Renault/R21, Laguna (Rear Disk).
- M : Ford Motors Mini Cooper.
- N : SAAB. Honda.
- F : Opel (Rear disk)



**KA-4272 18pc Disc Brake Caliper Tool Kit**

Repair Part	Applications	Disc Size Φ (mm)
1	General Motors	63.5
2	Alfa Romeo, Audi, Austin, BMW, Ford, Honda, Jagur, Mercedes-Benz, Mitsubishi, Nissan, Rover, Toyota, VW	55
3	General Motors	54
4	Citroen	54
5	Citroen XM, Xantia u.a.	50.8
6	General Motors	47.5
7	Nissan Primera, VW Golf IV	42
8	Audi 80,90,V8+100, Ford Sierra ABS+Scorpio ab 85, Honda Prelude, Nissan Siliva 1.8 turbo, Rover 8000, Saab 9000, Subaru L+Z, VW Golf+Passat	42
9	Nissan Maxima	42
10	Adapter mit 3/8" Innenvierkant	36
11	Alfa Romeo 164 2.0, Ford, Mazda, Saab 9000, Subaru	32
12	Renault	32(30)
13	Ford	32
14	Opel Astra	32
15	Saab, Honda	32
A		
B	A +A-1 & B+B-1 BODY, A-2 PAD	

**KA-2808A 21pcs Universal Caliper Wind Back Kit**



- 1-1: RIGHT HAND HELIX BOLT
- 1-2: LEFT HAND HELIX BOLT
- 2: Citroen/XM, Xantia. (F/R)
- 3: Audi (F). FIAT/Alfa Romeo (F). Ford/Fiesta (F). ISUZU(F). HONDA/Concesto(F). Jaguar/XJ6,XJ40(F/R).BMW/318is,320i,325TD,518i,525i & 1x,740i,850ci,M5.(F). Mercedes Benz/190, 200, 300, 420, 560 series (F). Mitsubishi/Colt (F). NISSAN/Miera, Stanza, Sunny(F).Rover/Austin, Metro,200 & 400 series, Maestra, Montego(F).TOYOTA/Camry(F). Volvo (F). VW/ Passat, Golf GTI (F).
- 4: FORD Australia/NZ Telstar, Laser(R). MAZDA(R). SAAB 9000 R). FIAT/Alfa Romeo 1642.0(R).HONDA/Prelude, CRS 16i, GM/Saturn(R).GM/Grand Prix,Lumina.
- 5: 3/8" dr. Adapter used with extention bar and ratchet when need to apply more strength to the piston.
- 6: NISSAN, PRIMERA, VW/Golf IV.
- 7: Audi/80,90,V8+100, Coupe E(R). Rover/800 ABS. SUBARU L+Z(R). FORD/Sierra ABS, Granada, Scorpio ABS 85(R). NISSAN/Bluebird 1.8 Turbo, Silvia Turbo, Primera 2.0i LS/GS/GSX(R). PEUGEOT/405 1.9Gi, Gri, Sri, Gtxi, MI 16,605 2.0 Sri(R). TOYOTA/Celica, Corolla GT,MR2(R).VW/Golf Gti, Jeta Synchron, Jetta Gti 16v, Passat CL, GL ,GT and GT 16v, Corrado 16V scirocca GTX 16V(R).
- 8: GM most 1-7/8" diameter pistons.
- 9: GM most 2-1/8" diameter pistons. (CADI Seville/Eldorad 80-85).
- 0: GM most 2-1/2" diameter pistons. (Seville/Eldored 79).
- A: Renault/R21, Laguna (Rear Disk).
- M: Ford Motors Mini Cooper.
- N: SAAB. Honda.
- F: Opel (Rear disk)
- E:NISSAN Maximas.
- K: Citroen
- K1: Citroen
- K2: Citroen



**KA-2714**  
**Air Power Brake Caliper Wind Back Tool**

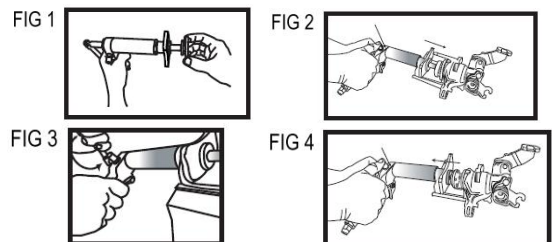


**KA-2714K**  
**Air Power Brake Caliper Wind Back Tool Kit**  
**(With 15pc Brake Pads)**



**KA-2714K1**  
**Air Power Brake Caliper Wind Back Tool Kit**  
**(With 17pc Brake Pads)**

- 1: Air Adjusting Lever
- 2: Citroen/XM, Xantia. (F/R)
- 3: Audi (F). FIAT/Alfa Romeo (F). Ford/Fiesta (F). ISUZU(F). HONDA/Concesto(F). Jaguar/XJ6. XJ40(F/R). BMW/318is. 320i, 325TD, 518i, 525i & 1x, 740i, 850ci, M5.(F). Mercese Benz/190, 200, 300, 420, 560 series (F). Mitsubishi/Colt (F). NISSAN/Miera. Stanza, Sunny(F). Rover/Austin. Metro, 200 & 400 series, Maestra, Montego(F). TOYOTA/Camry(F). Volvo (F). VW/Passat, Golf GTI (F).
- 4: FORD Australia/NZ Telstar, Laser (R). MAZDA(R). SAAB 9000 (R). FIAT/Alfa Romeo 1642.0 (R). HONDA/Prelude, CRS 16i, GM/Saturn (R).
- 5: 3/8" dr. Adapter used with extention bar and ratchet when need to apply more strength to the piston.
- 6: NISSAN, PRIMERA, VW/Golf IV
- 7: Audi/80, 90, V8+100, Coupe E(R). Rover/800 ABS. SUBARU L+Z(R). FORD/Sierra ABS, Granada, Scorpio ABS 85(R). NISSAN/Bluebird 1.8 Turbo, Silvia Turbo, Primera 2.0i LS/GS/GSX(R). PEUGEOT/405 1.9Gi, Gri, Sri, Gtxi, MI 16,605 2.0 Sri(R). TOYOTA/Celica, Corolla GT, MR2(R). VW/Golf Gti, Jeta Synchron, Jetta Gti 16v, Passat CL, GL, GT and GT 16v, Corrado 16V scirocca GTX 16V(R).
- 8: GM most 1-7/8" diameter pistons.
- 9: GM most 2-1/8" diameter pistons.
- 0: GM most 2-1/2" diameter pistons.
- A: Renault/R21, Laguna (Rear Disk).
- M: Ford Modeo
- N: SAAB, Honda
- F: Open (Rear disk)
- K: Citroen
- E: NISSAN Maximas.



**PATENTED: 1. TAIWAN 2. CHINA 3. U.S.A. 4. GERMANY**

**KA-6966 40pcs Universal Caliper Wind Back Kit**



- 2- Citroen BX(83), 16V(88-), Honda Prelude 2.0i, 23
- 3- Audi A3 (A4, A6, A8 push-back pistons), BMW-most models(push-back pistons), Citroen XM, XM Turbo CT20, Xantia 1.8i-1.90 & TD-2 QI-2Q 16S (93-94), Activa, Citroen C5 rear calipers push i back pistons, Ford(USA) Mercury, Monarch, Thunderbird, Honda-most models (push-back pistons), Jaguar i most models (push-back pistons), Mitsubishi most models (push-back pistons), Nissan-most models(push-back pistons), Peugeot 406, 806, Rover-most models (push-back pistons), Toyota-most models(push-back pistons), Volkswagon-most modles(push-back pistons), Volvo-most models.
- 4- Alfa Romeo 164 2.0 1, Fiat Uno Turbo ie-Barchetta, Ford Escort 2000RS 16V, Rover 220 C Turbo (95), Saab 99L, 900 Turbo(74-81) 900 (81-87),
- 6- Jaguar S Type
- 7- Jaguar S series (99-), Opel Astra G, Corsa C, Zafira (with Lucas TRW rear caliper s;02-)
- 8- GM Motots
- 9- GM Motors
- 0- GM Motors Disc-Citroem ZX 2.QI 16V, Citroen most models(push-back pistons), Citroen XM, XM Turbo CT 2.0,Xantia 1.8i-1.90 & TD-2 QI-2 16S(93-94), Activa Citroen BX(83), BX 16V (88-), Citroen C3, Citroen C5 (front caliper-left hand wheel), Citroen C5 (front caliper-right hand wheel), Citroen C5 rear calipers push-back pistons.
- 11- Jaguar S Type
- 12- BMW Mini
- A- Nissan Primera 2.0, Opel Astra C Zafira (with Bosch rear calipers), Vauxhall Astra G.Zafira

- B- Ford(USA) Mercury, Monarch, Thunderbird Lincoln Continental Subaru 1600 Kombi (79-) 1.6-1.8 SRX, Kombi(79-83), 1800(84), 1800 Lim, Kombi, Turismo 4WD (82-83), 1800GT, GTSXT, Turbo(85)
- G- Fiat Stib
- C- Nissan Primera (02), Opel Vectra 02-, Toyota Avensis
- D- Citroen BX(83), BX 16V(88-)
- E- Nissan Maximas
- F- Peugeot 206;03
- J- Alfa Romeo 155 1.8-2, 01 164TD(93), 164 3.0 V6(91), Audi 80, 90 & V8;S, A3, A4, A6, A8 (rear caliper), Citroen ZX 2.QI 16V, Fiat Tipo TD 16V, Uno Turbo(85)-crama TD, Ford Sierra (ABS back), Granada(85-), Ford(Australia & NZ) Thunderbird Turbo.Honda CRX 1.61-16V(88-90), Accord 1800(84-85), 2.0i(86). Prelude 16V(88-), Legend V6, Jaguar XJ 40 Series, Lancia Dedra 2.0 Ei Tur(93), Delta 1.6Gti(92), The majE 16V(92), Thema 2000 Turbo, Kapa 2.0-2.4LS, 2.4TD, Nissan 280 ZX(82-84), 300 ZX Turbo(84-89), Bluebird 16V(89-), Silvia 1,8 Turbo(85-88) 100NX 2.0(93), Primera 2.0GT(94-), 200 SX Turbo 16V Maxima 2.0 GX(95), Peugeot 306, Peugeot 309Gtj 16S(91), 405 Srif Q,rj, Gil(87-), 405 M.I 16V, Renault Master Van, Rover 216 Gti 16V, 820 Si 2,0 (93), 825 SD 2.5(93), Saab 9000 CS 2,0(93), Lbiza 1,8 Gti 16V(95), Subaru Lserie & Serie 2,Volkwagong Passat 2.0 & 2.2 Litre(84), Golf Rallye(89), Golf II Gti 16V(89), Vento GT(92), Transporter T4 + A60, Volvo S40 & V40
- K- Citroen C5 rear calipers push-back istons
- K1- Citroen C5 (front caliper-left hand wheel), Citroen C5(front caliper-right hand wheel)
- K2- Audi A8, S8 (99-)
- M- Nissan Primera 03-
- N- Alfa Romeo 164 2.0 Twin Spark 2.0 Turbo (8-), 3.0 V6, Audi 200 (80-), Coupe GT SE (82-), 80, 901 QO, 200, Quattro(87-), 90.20V(88-), Ford Mondeo 2.0 Ghia, Lancia Themaalte (86-), Volkswagong Golf II GTI(83-87), Scirocco 16V(84)
- P- Citroen C3
- R- Ford (Australia & NZ) Telstar, Laser.Mazda 323 Gti, GTX (86-), 929 (82-), RX7(81-), 626 16V(87-), 626 GT(86-), 929 V6 (88-), Mitsubishi Galant GL Si, Toyota Celica, Corolla GT, MR2
- S- Audi 100 TQi(91), BMW 740i 8cyl. (91), Lancia Delta 1.9 TD (95), Proton 416, Renault-most Models, Renault Laguna 2.0(94), Laguna 2.2D(95), Safrane 2.0-2.2 TD V6, Rover 623 Si, Volkswagong Golf Gti MK III & IV. Passat VR6, Vento GT(92)
- Z- BMW Mini H6-BMW-most models (push-back pistons), BMW 740i 8cyl. (91), BMW Mini Vauxhall Astra G.Zafira
- H7- BMW-most modles(push-back pistons), BMW 740i 8cyl.(91), BMW Mini, Vauxhall Astra G.Zafira
- P3.0- Opel Astra C Zafira (with Bosch rear Calipers), Opel Astra G, Corsa C, Zafira(with Lucas TRW rear calipers;02-) Opel Vactra 02-Vauxhall Asra G.Zafira
- P5.5- Opel Astra C Zafira (with Bosch rear calipers), Opel Astra G, Corsa C, Zafira (with Lucas TRW rear calipers;02-) Opel Vactra 02-Vauxhall Asra G.Zafira
- 1PC- Pentagon Brake Socket: 1/2" dr. x 19m/m, for use on Bendix Brakes
- 1PC- Pentagon Brake Socket: 1/2" dr. x 14m/m, for use smart car
- 1PC- Pentagon Brake Socket: 1/2" dr. x 10m/m, for use on Girling Brakes



**KA-2934 Brake Caliper Adjusting Adaptor**

- Pushes back brake piston for brake pad replacement
- Suits most cars



**KA-4371 Disc Brake Caliper Tool (1/2" Drive)**

- Quickly retract rear disc brake caliper pistons with these individually designed sockets. Essential tools for efficient disc pad installation. Suits: Ford Falcon-EA, EB, ED. Fairlane-NA. LTD-DA





**KA-6968 35pcs Brake Caliper Wind Back Adaptor Set**

- 2- Citroen XM, XM Turbo CT 2.0, Xantia 1.8i – 1.90 & TD – 2.0Q1-2.0 16S (93-94), Activa; Honda Prelude 2.0i 2.3i
- 3- FIAT/Alfa Romeo(F), ISUZU(F). Mercedes Benz/190,200,300,420,560 series(F). Audi A3 (A4,A6,A8 (push-back pistons)); BMW- most models (push-back pistons); Citroen most models (push-back pistons); Citroen C5 rear calipers push-back pistons; Ford (USA) Mercury, Monarch, Thunderbird; Honda- most models (push-back pistons); Jaguar- most models (push-back pistons); Mitsubishi most models (push-back pistons); Nissan- most models (push-back pistons), Peugeot 406, 806; Rover- most models (push-back pistons); Toyota- most models (push-back pistons); Volkswagen- most models (push-back pistons); Volvo- most models.
- 4- FORD Australia/NZ Telstar, Laser(R), MAZDA(R). FIAT/Alfa Romeo 1642.0(R). GM/Saturn(R). GM/Grand Prix, Lumina.  
Alfa Romeo 164 2.0 1; Fiat Uno, Turbo ie- Barchetta;
- 5- 3/8" dr. Adapter used with extension bar and ratchet when need to apply more strength to the piston.
- 6- NISSAN, PRIMERA, VW/Golf IV. Jaguar S Type
- 7- Audi/80,90, V8+100, Coupe E(R). Rover/800 ABS. SUBARU L+Z(R). FORD/Sierra ABS, Granada, Scorpio ABS 85(R). NISSAN/Bluebird 1.8 Turbo, Silvia Turbo, Primera 2.0i LS/GS/GSX(R). PEUGEOT/405 1.9Gi,Gri,Sri,Gtxi, MI 16,605 2.0Sri(R). TOYOTA/Celica, Corolla GT, MR2(R). VW/Golf Gti, Jeta Synchro, Jetta Gti 16v, Passat CL,GL,GT and GT 16v, Corrado 16V Scirocco GTX 16V(R). Saab 9000 Jaguar S series (99-); Opel Astra G, Corsa C, Zafira (with Lucas TRW rear calipers '02-);
- 8- GM most 1-7/8" diameter pistons.
- 9- GM most 2-1/8" diameter pistons. (CADI Seville/Eldorad 80-85)
- 0- GM most 2-1/2" diameter pistons. (Seville/ Eldored 79)
- A- Renault/R21, Modus, Laguna (Rear Disk). BMW Mini
- B- Ford (USA) Mercury, Monarch, Thunderbird; Lincoln Continental; Subaru 1600 Kombi(79-), 1.6-1.8 SRX, Kombi ('79-'83), 1800; ('84), 1800 Lim, Kombi, Tourismo 4WD ('82-'83), 1800GT, GTS; XT, Turbo ('85)
- C- Mini Austin; Nissan Primera (02); Opel Vectra 02-; Toyota Avensis
- D- Renault; Citroen BX ('83-), BX 16V('88-);
- E- NISSAN Maximas. Cefiro
- F- Opel (Rear disk); Fiat Stilo
- H- Peugeot 206 CC/Hdi/Gti. A16mm Spanner is required with wind back pistons;
- J- Fiat Tipo TD 16V, Uno Turbo(85) Crama TD, Honda CRX, Alfa Romeo 155 1.8-2.01, 164 TD (93), 164 3.0 V6 (91); Audi 80, 90, & V8's, A3, A4, A6, A8 (rear calliper); Citroen ZX 2.0Q1 16v; Fiat Tipo TD 16V, Uno Turbo (85-), Crama TD; Ford Sierra (ABS bak), Granada (85-); Ford (Australia & NZ) Thunderbird Turbo; Honda CRX, 1.6i-16V (88-90), Accord 1800 (84-85), 2.0i (86-), Preludi 16V (88-), LegendV6; Jaguar XJ 40 series; Lancia Dedra. 2.0 Ei Tur(93), Delta 1.6 Gti. (92), The. majE 16v(92), Thema. 2000 Turbo. Kappa 2.0-2.4LS, 2.4TD; Nissan 280 ZX (82-84), 300 ZX Turbo (84-89), Bluebird 16V (89-), Silvia 1.8 Turbo (85-88) 100 NZ 2.0 (93), Primera 2.0 GT (94), 200 SX turbo 16V, Maxima 2.0 GX-3.0 GX (95); Peugeot 306; Peugeot 309 Gtj 16S (91), 405. Srif Q. rj, Gil (87-), 405 M.I 16V; Renault Master Van; Rover 216 Gti 16V, 820 Si 2.0(93), 825 SD 2.5 (93); Saab 9000 CS 2.0(93), 9000 CSE Turbo(93); Seat Toledo GT. 16V-GT 2.0(93), Lbiza 1.8 Gti 16V(95); Subaru Lserie & Serie 2; Volkswagen Passat 2.0 & 2.2 Litre(84), Golf Rallye (-89), Golf II Gti 16V(89-), Vento GT (92), Transporter T4; Volvo S40 & V40
- K-Citroen C5
- K1- Renault; Citroen C5 (front caliper-left hand wheel); Citroen C5 (front caliper-right hand wheel)
- K2(M2)- Citroen, Renault, Audi A8, S8 (99-);
- L- Audi, BMW, Ford, Lancia, Proton, Renault, Rover, VW; Citroen C3
- M- Ford Motors, Mini Cooper; Nissan Primera 03
- N- SAAB. Honda; Alfa Romeo 164 2.0 Twin Spark, 2.0 Turbo (88-), 3.0 V6; Audi 200(80-), Coupe GT SE(82-), 80, 90, 1Q0,200, Quattro (87-), 90, 200V(88-); Ford, Mondeo 2.0 Ghia; Lancia Themaalte (85-); Volkswagen Golf II GTI (83-87), Scirocco 16V(84)
- P- VW. Nissan Premira 2.0 Bluebird; Opel Astrac Zafira (with Bosch rear Callipers); Vauxhall Astra G. Zafira
- Q- Subaru, Alfa Romeo 164 2.0 1; Fiat Uno, Turbo ie-Barchetta; Ford Escort 2000RS 16V, Mondeo. V6 24v; Honda Civic Vti.-CRX-Accord, Concerto S 1.6; Rover 220 Cturbo (95); Saab 99L, 900 Turbo (74-81), 900 (81-87).
- R- Ford (Australia & NZ) Telstar, Laser; Mazda 323 Gti, GTX (86-), 929 (82-), RX7 (81-) 626 16V (87-), 626 GT (96-), 929 V6 (88-); Mitsubishi Gatant GLSi; Toyota Celica, Corolla GT, MR2
- S- Audi 100 TQi(91); BMW 740i 8 cyl. (91); Lancia Delta 1.9 TD (95); Proton 416; Renault-most models; Renault Lagunaa 2.0(94), Laguna 2.2D (95), Safrane 2.0-2.2TD V6; Rover 623 Si; Volkswagen Golf Gti Mk III & IV, Passat VR6, Vento GT(92)
- T- Renault/ R2 1, Modus
- V- Renault Clio
- W- VW



**KA-6967-LR**  
**Right & Left Hand Helix Bolt**  
Can used with KA-6968



**KA-6967-HOLDER**  
**Rectangular Holder For KA-6967**



**KA-6967-LH**  
**Left Hand For KA-6967**



**KA-6967-RH**  
**Right Hand For KA-6967**

**KA-6967 Brake System Repair Kit  
(Brake caliper wind back tool set & brake bleeder tube)**

**1. Brake Caliper Wind Back**

**Instruction:**

- Step 1: Choose a suitable brake caliper adapter, and then put it on the front side of right / left helix bolt.
- Step 2: Roll the lever clockwise, move and push the adapter into the fillister of the brake caliper.
- Step 3: When the work is done, and then simply roll the lever anticlockwise to remove the helix bolt.

**Application:**

- 1-1: Right hand helix bolt
- 1-2: Left hand helix bolt
- 2: Citroen/XM, Xantia. (F/R)
- 3: Audi(F). FIAT/Alfa Romeo(F). Ford/Fiesta(F). ISUZU(F). Honda/Concesto(F). Jaguar/XJ6, XJ40(F/R). BMW/318is, 320i,325TD,518i,525i & 1x,740i,850ci,M5.(F).Nissan/Mlera, Stanza, Sunny(F). Rover/Austin, Metro, 200 & 400 series, Maestra, Montego(F). Toyota/Camry(F). Volvo(F). VW/Passat, Golf GTI(F).
- 4: Ford Australia/NZ Telstar, Laser(R). Mazda(R). SAAB 9000(R). Fiat/Alfa Romeo 1642.0(R). Honda/Prelude, CRS 16i, GM/Saturn(R). GM/Grand Prix, Lumina.
- 5: 3/8" dr. Adapter used with extension bar and ratchet when need to apply more strength to the piston.
- 6: Nissan, Primera, VW/Golf IV.
- 7: Audi/80,90,V8+100, Coupe E(R). Rover/800 ABS. Subaru L+Z(R). Ford/sierra ABS, Granada, Scorpio ABS 85(R). Nissan/bluebird 1.8 Turbo, Silvia Turbo, Primera 2.0i LS/GS/GSX(R). Peugeot/405 1.9GI, Gri, Sri, Gtxi, MI16, 605 2.0 sri(R). Toyota/Celica, Corolla GT, MR2(R).VW/Golf Gti, Jeta Synchro, Jetta Gti 16v, Passat CL, GL, GT and GT 16V, Corrado 16V scirroca GTX 16V (R).
- 8: GM most 1-7/8" diameter pistons.
- 9: GM most 2-1/8" diameter pistons. (CADI Seville/Eldorad 80-85).
- 0: GM most 2-1/2" diameter pistons. (Seville/Eldored 79).
- A: Renault/R21, Laguna (Rear Disk).
- M: Ford Motors Mini Cooper.
- N: SAAB. Honda.
- F: Opel (Rear disk)
- E: Nissan Maximas.
- K: Citroen



**2.Single-Way Brake Bleeder Tube (simple way to release the remained brake oil)**

**Installment and operation:**

- Step 1: Release the old brake oil as much as possible from the brake master cylinder.
- Step 2: Fill the new brake oil into brake master cylinder.
- Step 3: Before installment, please confirm the size of the small black rubber pipe which in copper adapter to fit the nozzle. As " Fig. B " shows that you could screw and separate No.2 copper adapter and install suitable black rubber pipe.
- Step 4: Install the single-way brake bleeder tube on the nozzle, connect No.2 copper adapter with No.1 nozzle.
- Step 5: Loosen the nozzle with hex wrench and release the pressure.
- Step 6: Press the pedal for few times and release remained old oil, repeat this step until the single-way brake bleeder tube shows light and clear oil. The work is done.

**Remove the bleeder tube:**

- Step 1: Turn and fasten the nozzle (No. 1) with hex wrench, remove the brake bleeder tube.
- Step 2: Clean the tube. Remove the long tube from the copper adapter (Fig. A - No.3) to release the remained oil from the long tube; and then, pull the steel release rod (Fig. C - No.4) to release the remained oil from the short tube. Keep the device into the product box.

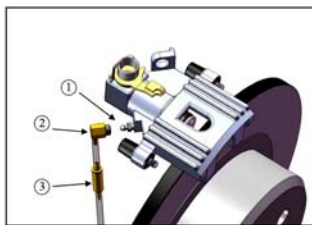


Fig. A



Fig. B

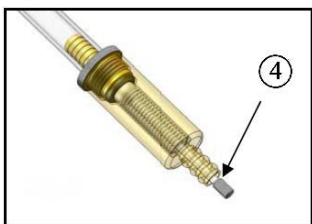


Fig. C



**KA-6967A  
Single-Way Brake Bleeder  
With Bottle**





**KA-7262K 23pcs Brake System Repair Set**

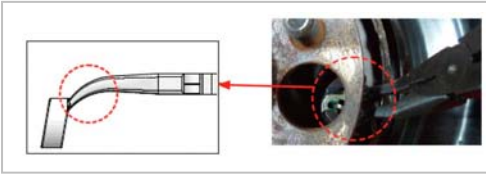
- Designed for push back and wind back broke piston.
- Provides both left-handed and right-handed thrust bolt assemblies.
- Left-handed thrust bolt required for Ford, Citroen and Renault applications.
- Prevents damaging pistons and seals.
- Include KA-6974 Universal Drum Brake Retaining Spring Pliers  
KA-6975 Brake Spring Tool

0	GM most 2-1/2" diameter pistons (Seville/Eldored 79)		
2	Citroen	XM, XM Turbo CT 2.0 Xantia 1.8i - 1.90 & TD - 2.Q1-2.Q 16S (93-94) Activa Prelude 2.0 i 2.3 i	
3	FIAT/Alfa Romeo (F) ISUZU (F) Mercedes Benz 190, 200, 300, 420, 560 series (F) Audi A3 (A4,A6,A8 (push-back pistons)) BMW most models (push-back piston) Citroen most models (push-back piston) Citroen C5 rear callipers push-back pistons Ford (USA) Mercury, Monarch, Thunderbird Honda most models (push-back pistons)	Jaguar Mitsubishi Nissan Peugeot 406, 806 Rover most models (push-back piston) Toyota most models (push-back piston) Volkswagen most models (push-back piston) Volvo most models	
4	FORD Australia/NZ Telstar, Laser(R) MAZDA(R) FIAT/Alfa Romeo 164 2.0(R) GM/Satur (R) GM/Grand Prix, Lumina Alfa Romeo 164 2.0 1	Fiat Uno, Turbo ie- Barchetta Ford Escort 2000RS 16v , Mondeo. V6 24v Honda Civic Vti.- CRX -Accord, Concerto S 1.6 Rover 220 C turbo (95) Saab 99L, 900 Turbo (74-81), 900 (81-87)	
5	3/8" adapter		
6	NISSAN PRIMERA VW Golf IV	Jaguar S Type	
7	Audi 80,90,V8+100, Coupe E(R) Rover 800 ABS SUBARU L+Z(R) FORD Sierra ABS, Granada, Scorpio ABS 85(R) NISSAN Bluebird 1.8 Turbo, Silvia Turbo, Primera 2.0i LS/GS/GSX(R) PEUGEOT 405 1.9Gi,Gri, Sri, Gtxi, MI 16,605 2.0 Sri(R) TOYOTA Celica, Corolla GT,MR2(R)	VW Golf Gti, Jeta Synchro, Jetta Gti 16v, Passat CL, GL ,GT and GT 16v, Corrado 16V scirroca GTX 16V(R) 9000 S series (99-) Astra G, Corsa C, Zafira (with Lucas TRW rear callipers '02-)	
8	GM most 1-7/8" diameter pistons		
9	GM most 2-1/8" diameter pistons		
A	Renault R21, Modus, Laguna (Rear Disk) BMW Mini		
E	NISSAN Maximas. Cefiro		
F	Opel (Rear disk) Fiat Stilo		
M	Ford Motors Mini Cooper Nissan Primera O3		
N	SAAB Honda Alfa Romeo 164 2.0 Twin Spark, 2.0 Turbo (88-), 3.0 V6 Ford Mondeo2,0 Ghia; Lancia Themaalte (85-)	Audi 200 (80-), Coupe GT SE (82-), 80, 90, 1Q0, 200, Quattro (87-), 90, 20V (88-)  Volkswagen Golf II GTI(83-87), Scirocco 16V (84)	
W	VW		
K	Citroen C5		
K1	Renault Citroen C5 (front calliper-left & right hand wheel)		
K2 (M2)	Citroen Renault Audi A8, S8 (99-)		

**KA-6974 Universal Drum Brake Retaining Spring Pliers**

*A new and innovative tool to make removal & installation of Drum Brake Retaining Spring a easy job!*

KA-6974 features a curve neck and a max 50° opening angle tip, which can insert or go through onto the Retaining Spring without needing to remove the wheel. You can simply remove or install the Drum Brake Retaining Spring with one step!! Save you time and sweat!



**Specification**

- Length: 180.5mm
- Material: steel
- Angle: 50°
- How to Use



1. hold the handle, clip groove the front ditch and rotation the tool



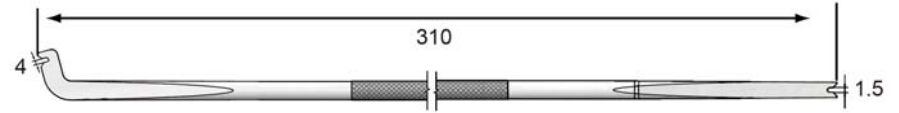
2. Remove/install the spring washer smooth

**KA-6975 Brake Spring Tool**

- Universal Application of both removal and installation for nearly all drum brakes.
- Wide angle application.

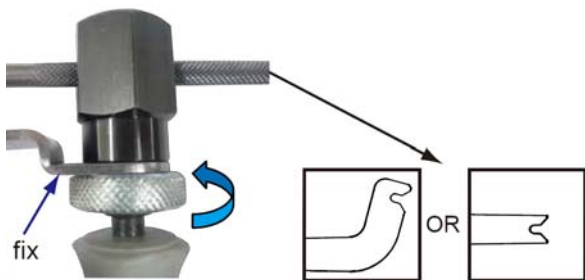
**Feature:**

- Length: 310mm
- Material: steel
- Heat treatment: HRC42° ~ 45°

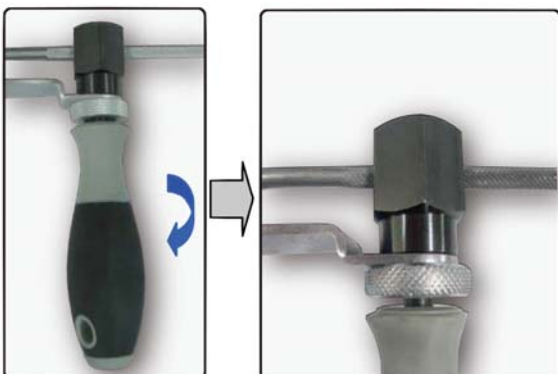


**Tool Assemble**

Step 1: Insert the steel bar through hex part and install it with the nut. Rotate the nut clockwise to fix the holder.



Step 2: Rotate the handle clockwise to fix the steel bar.



**Operation**

**Removal:**

Step 1: Hook the spring and fix it into the concave part.  
Step 2: Hook tool handle and push the spring for removal.



Fig.1: With angled bar

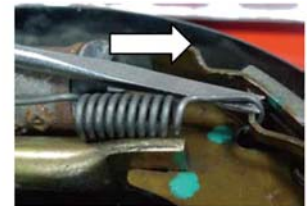


Fig.2: With straight bar

**Installation:**

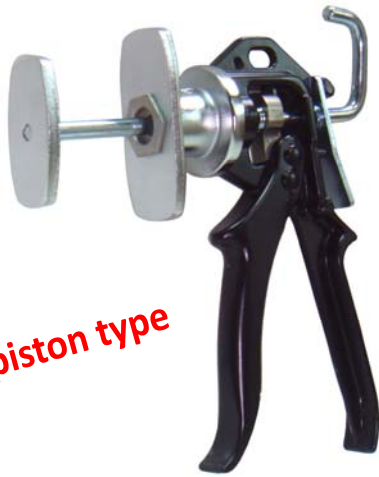
Step 1: Hook the spring and fix it into the concave part.  
Step 2: Hook tool handle and push the spring for installation.



Fig.1: With angled bar



Fig.2: With straight bar



Single piston type

KA-6683



Dual piston type

KA-6783

**Disc Brake Piston Spreader**

KA-6683 KA-6783

- Specially designed tool pushes out the brake caliper pistons (single piston type/dual piston type) and replaces the disc brake pad.
- Easy, Simple, One-Hand operation to disassemble the caliper.
- Labor-saving and time saving.
- Direct, straight pushing parallel movement to prevent piston damages.
- Turning the handle to adjust to various positions.
- Drawing back the lever to return the brake piston.
- Suitable to light weight vehicles to small trucks (2 Ton Class)
- Capacity: 20-62mm

\*\* Warning: This tool is not designed for "parking body type brake caliper"

**Comparisons with other similar products:**

- The handle type disc brake spreader takes only 12 seconds to retrieval the piston.
- A significant reduction in operations time.



**KA-2068 Universal Calliper Piston Remover**

- Quick change design for 3 sizes of adapter.
- Can easily take out the piston with assistant handle.
- Range from 25 ~ 35mm
- Adapter A. range from 35 ~ 45mm
- Adapter B. range from 45 ~ 55mm

