

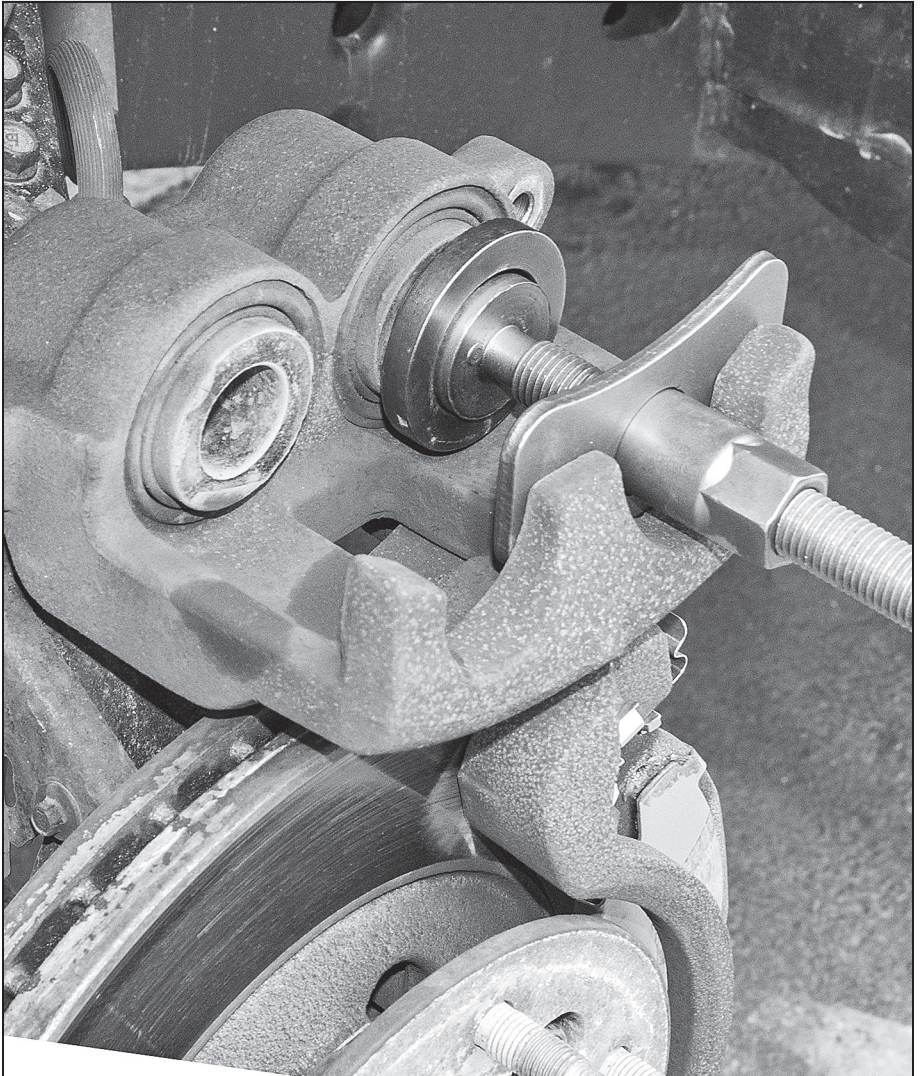
Eastwood[®]

DO THE JOB RIGHT.[®]

Item #31829

BRAKE CALIPER RETRACTOR

INSTRUCTIONS



The **EASTWOOD 18 PIECE BRAKE CALIPER RETRACTOR TOOL** set includes all the components required to retract most brake caliper pistons including straight push-back and rotate-back, parking brake designs in virtually any car, SUV or light truck. Constructed of high-quality tool steel with hardened drive pins. Both left and right hand threaded drive tools allow use on left or right hand threaded calipers and feature magnetic drive plates to retain selected adaptors during use.

CONTENTS

- (1) Threaded Drive Tool (Right Hand Thread)
- (1) Threaded Drive Tool (Left Hand Thread)
- (1) Push Plate
- (13) Rotating Caliper Adapter Plates
- (1) 3/8" Square Ratchet Drive Adapter
- (1) Caliper Push-in Plate
- (1) Heavy-Duty, Blow Molded Case



SAFETY INFORMATION

⚠ WARNING

WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

⚠ CAUTION

CAUTION used with the safety alert symbol, indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.



⚠ READ INSTRUCTIONS

Thoroughly read and understand this manual before using.
Save for future reference.



⚠ WARNING IMPROPER MOTOR VEHICLE BRAKE WORK CAN RESULT IN INJURY OR DEATH!

- Performing brake work without adequate training on motor vehicle brake systems can cause injury, death and vehicle accidents. **DO NOT** attempt to use this tool or begin motor vehicle brake work without proper training and a thorough understanding of motor vehicle braking systems.
- Always consult an authorized service manual on the particular vehicle for the proper procedure before using this tool.



⚠ WARNING FAILURE TO PROPERLY JACK & SUPPORT A VEHICLE CAN RESULT IN INJURY OR DEATH!

- The Eastwood Brake Caliper Retractor Tool must be used only on properly jacked and supported vehicles by properly trained individuals with thorough knowledge of automotive braking systems.
- Failure to use on a properly supported vehicle can result in serious bodily injury and property damage.
- Always consult an authorized service manual on the particular vehicle for the proper jacking/supporting procedure before using tool.



⚠ WARNING EXPOSURE TO AUTOMOTIVE BRAKE DUST CAN BE A HEALTH HAZARD!

- Wear a ANSI approved respiration protection device while handling brake components and during the bleeding procedure.
- Wear NIOSH approved eye protection while handling brake components.
- Wear appropriate gloves while handling brake components.



⚠ CAUTION PINCH HAZARD!

- This tool exerts considerable clamping force in use. Keep fingers and hands clear of clamping areas while applying tightening forces.

ASSEMBLY

1. Choose the appropriate Threaded Drive Tool (Right Hand or Left Hand Threaded) for the application. **NOTE:** the Right Hand Threaded Tool is used for most direct push-in pistons and rotating parking brake applications while the Left Hand Threaded Tool is used on some rear wheel left hand threaded parking brake caliper piston designs. **NOTE:** Always consult a service manual on the particular vehicle for the proper brake pad replacement procedure.
2. Pass the T-handle and threaded stem of the Threaded Drive Tool through the 1" hole in the Push Plate (**FIG A**).
3. Select the Adapter Plate that fits the vehicle's caliper piston then slip the drive pins of the threaded Drive Tool plate into the mating holes of the required Adapter Plate. **NOTE:** The Drive Tool plate is magnetic and will retain the Adapter Plate in place during use (**FIG B**).
4. For difficult to turn caliper pistons, use the included 3/8" Square Ratchet Drive Adapter mated to the appropriate Adapter Plate.

FIG. A



FIG. B



TOOL USE

1. With the vehicle properly jacked and supported, the brake pads removed and calipers secured with wire; place the assembled tool into the caliper with the Push Plate against the outer "fork" and the Drive Adapter with the drive pins engaged in the piston drive holes and using the "T" handle, thread the Drive Tool stem inward.
2. Rotate the Drive Adapter stem to retract the caliper into its bore. When it reaches the end of its travel, rotate the Drive Adapter outwards until the Drive Adapter disengages the piston face then withdraw the tool assembly.
3. Continue with brake pad replacement following approved vehicle manufacturers instructions.

APPLICATION DATA

Each Adapter Plate has an alpha-numeric identifier stamped on the back (FIG C). The following is a partial list which indicates which Adapter Plate fits on the most popular vehicles but is not specifically limited to these vehicles. The included adapters will fit many other applications which will require matching the drive pins to the driven holes in the caliper faces.

FIG. C



Number	Description	Application
0	2-1/2" Single-Pin Plate	General Motors vehicles with 2-1/2" dia. pistons
1	Push Plate	Push Plate
2	Single/Two-Pin Plate, 2-1/64" Dia.	Citroen, Honda
3	12.5mm Center Pin, 37.5mm, 43.5mm Steps	Alfa Romeo Audi BMW Fiat Ford General Motors Honda Izuzu Jaguar Mercedes Benz Mitsubishi - Colt Nissan Volvo Volkswagon
4	Two Pin Plate, 5mm Pins, 22mm Center	Fiat General Motors Honda Mazda Saab Toyota
5	3/8" Drive Adaptor	3/8" Drive Adaptor to connect to ratchet or breaker bar when greater force is required.
6	Two Pin Plate, 6mm Pins, 33mm Center	Nissan Volkswagon
7	Two Pin Plate, 6mm Pins, 32mm Center	Alfa Romeo Audi Citroen Fiat Honda Jaguar Land Rover Lancia Nissan Peugeot Saab Subaru Toyota Volkswagon
8	1-7/8" Single Pin Plate	General Motors - Vehicles with 1-7/8" diameter pistons
9	2-1/8" Single Pin Plate	General Motors - Vehicles with 2-1/8" diameter pistons

Number	Description	Application
A	Two Pin Plate, 4mm Pins, 19.5mm Center	Renault
E	Four Pin Plate, 5mm Pins, 22mm Center	Nissan
F	Two Pin Plate, 4mm Pins, 26.5mm Center	Fiat
K	Two Pin Plate, 8mm Pins, 35mm Center	Citroen
M	1-1/4" Two Pin Plate	Ford Mini Cooper Mazda Nissan
N	12mm Hex Plate	Audi Alfa Romeo Honda Ford Saab Volkswagon

If you have any questions about the use of this product, please contact

The Eastwood Technical Assistance Service Department: 800.343.9353 >> email: tech@eastwood.com

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