



Installation Instructions

KIT PC. NO.
4151706

SHIM KIT FOR BENDIX 2.88 TWIN PISTON CALIPER

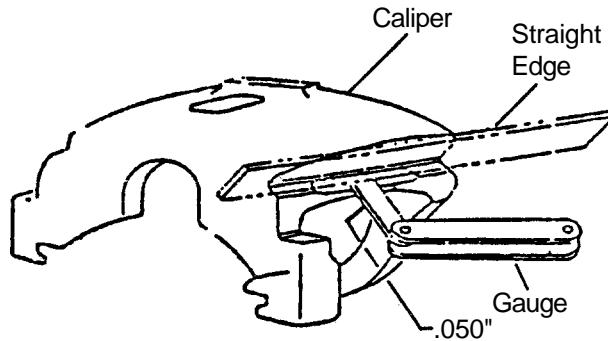


Figure 1

This kit contains the following parts:

Qty.	Description
2	Caliper Support Spring
2	Caliper Support Key
2	.025" Shims
2	.045" Shims

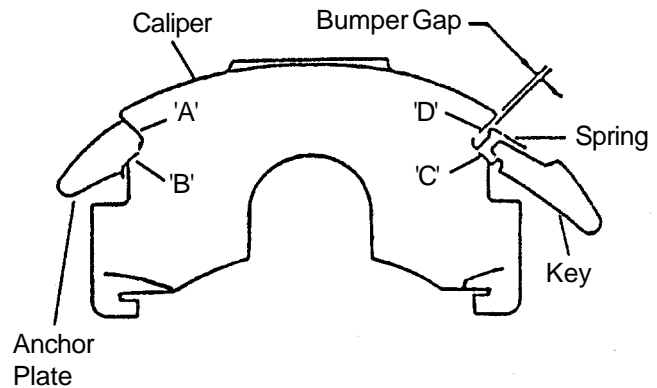


Figure 2

IMPORTANT! PLEASE READ AND FOLLOW THESE INSTRUCTIONS TO AVOID PERSONAL INJURY OR DEATH:

When working on or around a vehicle, the following general precautions should be observed at all times.

1. Park the vehicle on a level surface, apply the parking brakes, and always block the wheels.
2. Stop the engine when working around the vehicle.
3. If the vehicle is equipped with air brakes, make certain to drain the air pressure from all reservoirs before beginning ANY work on the vehicle.
4. Following the vehicle manufacturer's recommended procedures, deactivate the electrical system in manner that removes all electrical power from the vehicle.
5. When working in the engine compartment the engine should be shut off. Where circumstances require that the engine be in operation, EXTREME CAUTION should be used to prevent personal injury resulting from contact with moving, rotating, leaking, heated, or electrically charged components.
6. Never connect or disconnect a hose or line containing pressure; it may whip. Never remove a component or plug unless you are certain all system pressure has been depleted.

7. Never exceed recommended pressures and always wear safety glasses.
8. Do not attempt to install, remove, disassemble or assemble a component until you have read and thoroughly understand the recommended procedures. Use only the proper tools and observe all precautions pertaining to use of those tools.
9. Use only genuine Bendix replacement parts, components, and kits. Replacement hardware, tubing, hose, fittings, etc. should be of equivalent size, type, and strength as original equipment and be designed specifically for such applications and systems.
10. Components with stripped threads or damaged parts should be replaced rather than repaired. Repairs requiring machining or welding should not be attempted unless specifically approved and stated by the vehicle or component manufacturer.
11. Prior to returning the vehicle to service, make certain all components and systems are restored to their proper operating condition.

CALIPER REMOVAL & INSPECTION

1. Remove the caliper assembly from the anchor plate by first removing the key retention bolt and tapping out the key and support spring.
2. Clean the V-way surfaces of the caliper and anchor plate with a wire brush and using a file, smooth any deep nicks and/or gouges.
3. Lay a straight edge across the caliper V-way surfaces as shown in Figure 1 and measure the wear on these surfaces using a feeler gauge. Calipers which display wear of .050" or greater should be replaced.
4. Reinstall the caliper in the anchor plate. Install one of the new keys provided in this kit **WITHOUT INSTALLING THE SUPPORT SPRING**. Secure the key to the caliper using the retention bolt.
5. Insert a suitable prying tool between the caliper and support key making certain the tool is equally distant from each edge of the caliper. Pry firmly to assure that the caliper is seated against the three (3) sliding surfaces (A, B & C) illustrated in Figure 2.
6. Measure the "bumper" gap formed between the key and caliper using a feeler gauge or stack of feeler gauges. **MAKE THIS MEASUREMENT ON ONE SIDE OF THE PRYING TOOL THEN THE OTHER.**
7. Using the bumper gap measurement select the appropriate shim from the table.

Bumper Gap

0.9" to .058"
 .059" to .101"
 .102" to .145"
 Greater than .145"

Shim Thickness Required

No Shim Required
 .025" Shim
 .045" Shim
 See Note 1

NOTE 1: If the bumper gap exceeds .145", it will be necessary to determine if the caliper, anchor plate or both requires replacement. Install a new caliper in the existing anchor plate and remeasure the bumper gap. If the gap is less than .145", select the appropriate shim. If it is greater than .145", replace the anchor plate and measure the bumper gap with the old and new caliper.

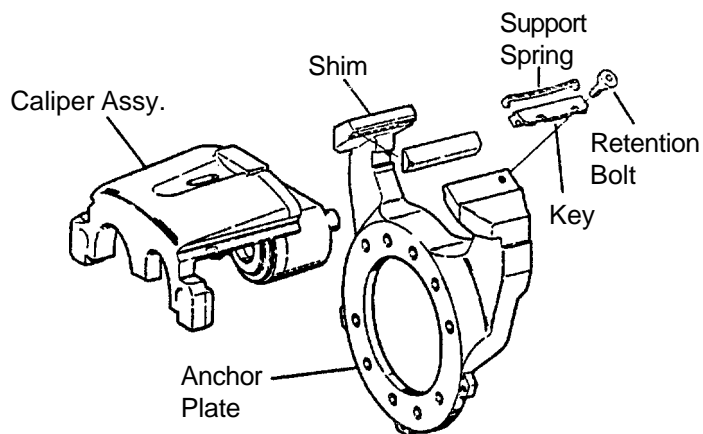


Figure 3

INSTALLING THE SHIM

1. Remove the caliper assembly from the anchor plate and install for selected shim on the anchor plate V-way opposite to the key and spring V-way as illustrated in Figure 3.
2. Apply a light coat of high temperature lubricant to the caliper, anchor plate and shim surfaces that will contact when the caliper is installed. **DO NOT LUBRICATE THE SURFACES BETWEEN THE ANCHOR PLATE AND SHIM. DO NOT ALLOW LUBRICANT TO CONTACT ROTOR OR PAD SURFACES.**
3. After installing the shim, reinstall the caliper assembly using the new key and spring furnished. Secure the key using the retention bolt and torque to 12-18 lb. feet.

