

PARKING BRAKE DISC PADS

Removal & Installation (XJS)

Remove parking brake caliper. See **PARKING BRAKE CALIPER R & I** under REMOVAL & INSTALLATION. Remove pad-to-carrier mount nut. Note pad position and remove disc pads. See **Fig. 4**. To install, reverse removal procedure. Repeatedly operate handbrake actuating lever until adjuster ratchet stops clicking.

PARKING BRAKE CALIPER

Removal (XJS)

1. Raise and support vehicle. Fully release parking brake lever. Loosen parking brake cable adjusting lock nuts and back-off cable adjustment. Remove rear suspension mounting plate attaching nuts and bolts. Plate has 14 bolts and is located directly below differential carrier.
2. Remove rear suspension mounting plate from vehicle. Using a pry bar, move caliper arm toward center of vehicle. Disconnect parking brake cable from arm and slide back rubber sleeve. See **Fig. 2**.

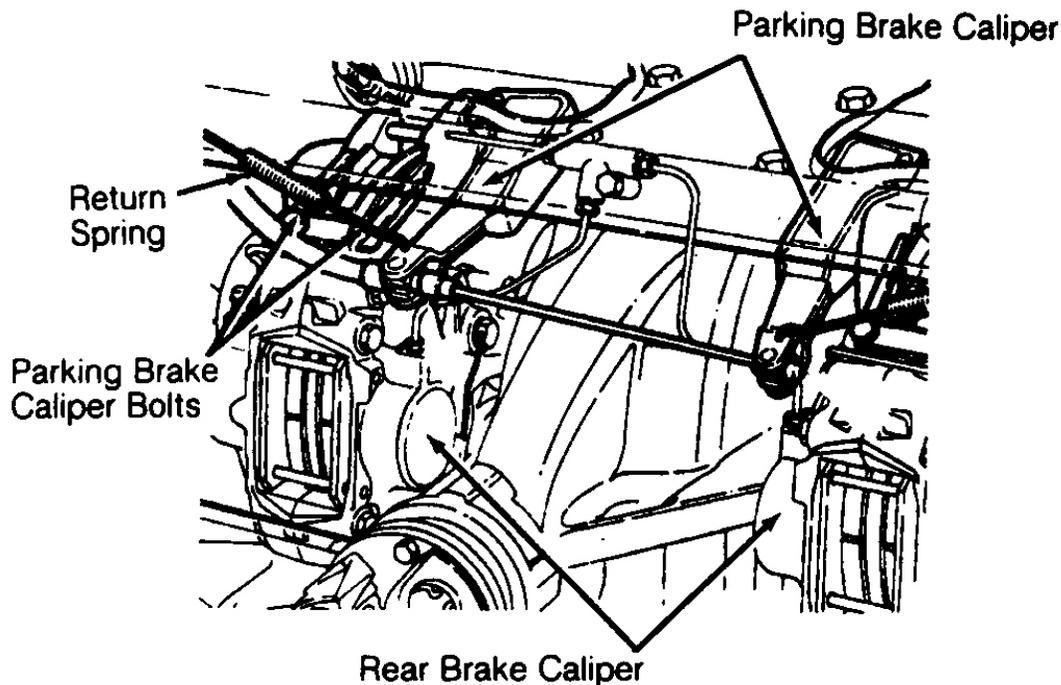


Fig. 2: Identifying Parking Brake Calipers (XJS)
Courtesy of JAGUAR CARS INC.

3. Remove return springs from caliper arms and position parking brake cable clear of calipers. Open caliper retaining bolt lock tabs. Remove parking brake caliper mounting bolts, lock tab and retraction plate. See

Fig. 5 .

4. Slide caliper around rotor and remove through hole left by suspension plate. To remove brake pads, remove nut and spring washer securing pads to the pad carriers. Replace pads if lining thickness is .125" (3.17 mm) or less.

Installation

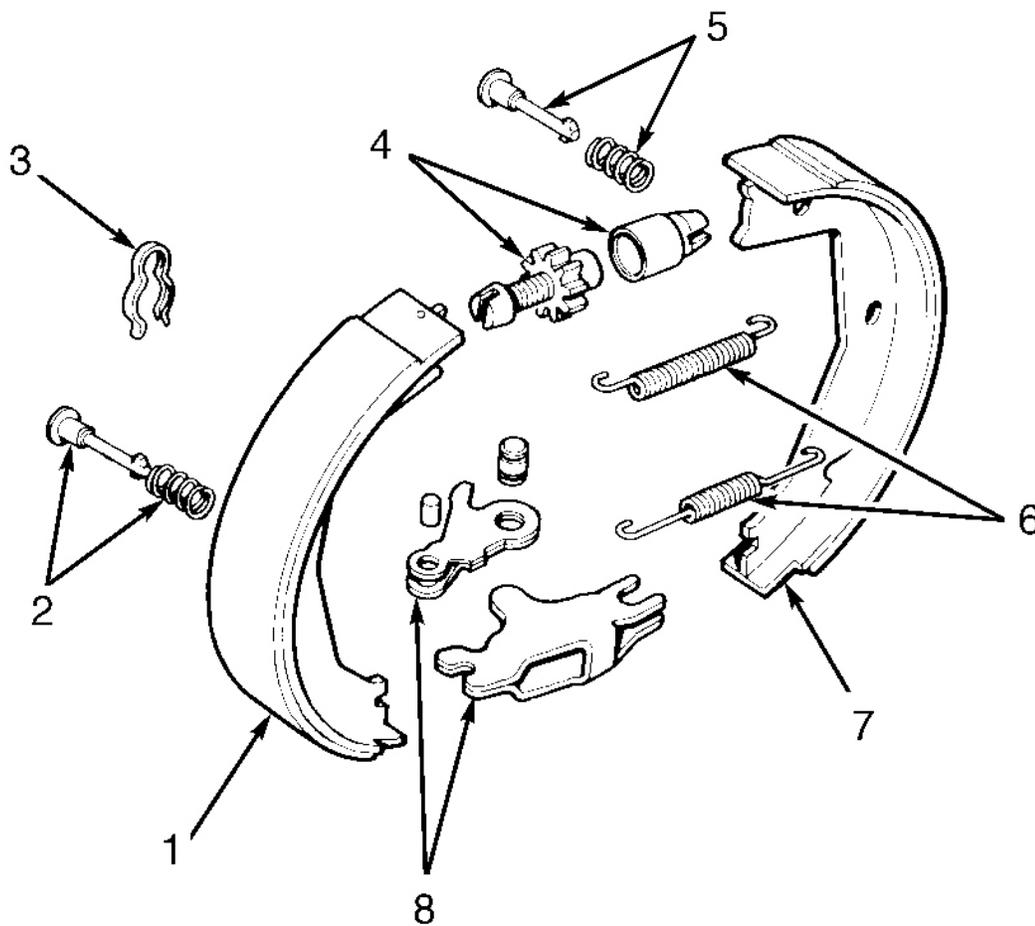
1. To install, reverse removal procedure. Adjust caliper if new pads have been installed or if caliper has been overhauled.
2. Adjust by holding one pad carrier stationary and turning remaining carrier out 2-3 times or until there is a clearance of .75" (19.1 mm) between disc pad surfaces.
3. Install caliper. Ensure caliper retaining bolts are installed correctly. Operate caliper actuating lever until adjuster ratchet stops clicking. Install remaining components and check brake operation.

PARKING BRAKE SHOES

Removal & Installation (XJ6)

Remove rear caliper. See **REAR BRAKE CALIPER** under REMOVAL & INSTALLATION. Remove rotor and retract adjuster. Disengage hold down springs and remove shoes and adjuster. Refer to **Fig. 3** . To install, reverse removal procedure and adjust parking brake shoes. Refer to **PARKING BRAKE ADJUSTMENT** .





- | | |
|---------------------|----------------------|
| 1. Brake Shoe | 5. Hold Down Spring |
| 2. Hold Down Spring | 6. Return Spring |
| 3. Brake Cable Clip | 7. Brake Shoe |
| 4. Adjuster | 8. Expander Assembly |

92H01512

Fig. 3: Exploded View of Parking Brake Assembly (XJ6)

Courtesy of JAGUAR CARS INC.

REAR BRAKE CALIPER

Removal (XJS)

1. Remove parking brake caliper. See, under REMOVAL & INSTALLATION, **PARKING BRAKE CALIPER R & I**. Remove brake pads. Loosen rear service brake caliper fluid line at 3-way connector.



Disconnect hydraulic line at caliper and position clear of work area. Plug hydraulic line.

2. Remove and discard safety wire from mounting bolts. Remove bolts and washers. Slide caliper around rotor and remove through gap exposed by removal of rear suspension mounting plate.

Installation

Install caliper and tighten bolts to specifications. See **TORQUE SPECIFICATIONS** table. Safety wire caliper bolts. To complete installation, reverse removal procedure and bleed brake system. See **BLEEDING PROCEDURE** under BLEEDING BRAKE SYSTEM.

Removal (XJ6)

Raise and support vehicle. Remove wheels. Disconnect brake pad wear sensor connector. See **Fig. 6** . Remove caliper retaining spring. Disconnect brake line from caliper. Remove caliper bolt dust caps. Remove caliper-to-carrier bolts. Remove caliper from carrier. Remove brake pads from caliper.

Installation

To install, reverse removal procedure. Bleed brakes. See **BLEEDING PROCEDURE** under BLEEDING BRAKE SYSTEM.

REAR DISC BRAKE ROTOR

Removal (XJS)

1. Remove rear brake caliper. See **REAR BRAKE CALIPER** under REMOVAL & INSTALLATION. Remove safety wire and remove radius arm front retaining bolt. Separate radius arm from anchor point on body.
2. Remove hub carrier lower grease fitting. Place jack or stand under hub carrier assembly. Disconnect shock absorber from lower mount. Collect spacers and towing bracket. Using a drift and hammer, drive out lower shock mounting shaft. Collect spacer from front of shaft.
3. Loosen clamp and slide "U" joint cover away from inner "U" joint. Remove "U" joint-to-rotor attaching nuts. Carefully separate drive axle flange from rotor. Remove camber adjustment shims. Note thickness and number of shims removed.
4. Remove brake rotor from mounting bolts. DO NOT disturb rotor centering shims located between final drive flange and rotor.

Installation

1. Install new brake rotor. Install camber angle shims. Install drive axle flange to rotor. Install and tighten flange nuts to specification. See **TORQUE SPECIFICATIONS** table.
2. Using dial indicator, check brake rotor runout. Maximum runout is .004" (.10 mm). Install brake caliper and tighten bolts to specification. Ensure caliper is centered on rotor.
3. Gap on opposite sides of rotor may differ up to .010" (.25 mm), but gap between upper and lower caliper abutment on same side must be equal. To adjust, remove caliper and brake rotor. Add or remove shims located between final drive flange and rotor to center disc.

1991 Jaguar XJ-S

BRAKE SYSTEM' '1991 BRAKES Jaguar - Disc

4. Note thickness of shims that were added or removed. When disc centering procedure is complete, add or subtract camber angle shims equal to thickness of shims that were added or removed to center brake disc.
5. To complete installation, reverse removal procedure. Bleed brakes. See **BLEEDING PROCEDURE** under BLEEDING BRAKE SYSTEM. Check rear wheel camber and adjust, if necessary. See, in the WHEEL ALIGNMENT Section, **WHEEL ALIGNMENT SPECIFICATIONS & PROCEDURES** article

Removal & Installation (XJ6)

Raise and support vehicle. Remove wheel(s). Remove caliper. See **REAR BRAKE CALIPER** under REMOVAL & INSTALLATION. Remove rotor retaining screw and slide rotor off lug studs. To install, reverse removal procedure. Bleed brakes. See **BLEEDING PROCEDURE** under BLEEDING BRAKE SYSTEM.