

## JEEP SINGLE ANCHOR — LEVER ADJUSTER

Cherokee, "J" Models, Wagoneer

### DESCRIPTION

Single anchor brake assembly consists of a support plate, 2 brake shoes, brake shoe return springs, adjuster lever and single wheel cylinder.

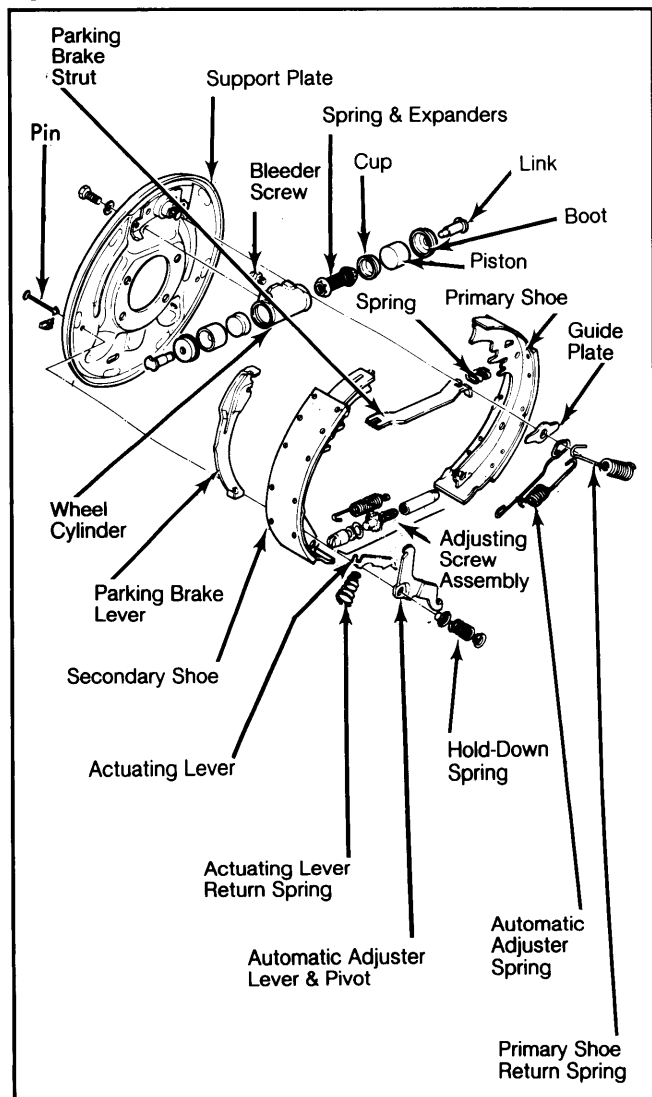
### ADJUSTMENT & SERVICING

#### BRAKE SHOE ADJUSTMENT

Brake shoes adjust automatically when brakes are applied while vehicle is traveling in reverse. Manual adjustment is required whenever shoes are removed and reinstalled. *See Brake Shoe Installation in this Article.*

During overhaul it is sometimes necessary to back off shoes to remove brake drums. This is done by turning star wheel adjuster which is accessible through a hole in brake backing plate. A thin blade screwdriver or other small tool must be used to disengage automatic adjuster lever while making manual adjustment.

**Fig. 1: Exploded View of Jeep Drum Brake Assembly**



### PARKING BRAKE ADJUSTMENT

**NOTE:** Brakes shoes must be properly adjusted before parking brake can be adjusted.

Adjustment is not necessary in normal service; automatic adjusters also adjust parking brake. In case of brake overhaul, or to compensate for stretched cables, parking brake is adjusted as follows:

1) Check first for binds, kinks or any frayed condition of cables. Replace as needed. Release parking brake. Loosen lock nuts at equalizer under vehicle.

2) Tighten cables until wheels drag slightly when rotated by hand. Loosen cables until wheels rotate freely and no drag is felt. Tighten lock nut and check operation of parking brake.

### BLEEDING SYSTEM

*See Hydraulic Brake Bleeding in this Section.*

## REMOVAL & INSTALLATION

### BRAKE SHOES

#### Removal

1) Raise vehicle and support on safety stands. Remove necessary wheels. On models with full floating rear axle, remove 2 screws that locate drums on hubs. On all models, remove primary return spring, automatic adjuster actuator spring and secondary shoe return spring.

2) Remove hold-down springs and brake shoe assemblies. Disengage parking brake cable from parking brake lever (parking brake strut is removed with brake shoe assembly).

3) Place wheel cylinder clamps over wheel cylinders to retain pistons. Inspect lining wear. Replace riveted linings if worn to within  $\frac{1}{32}$ " of rivet heads. Replace bonded linings if worn to total thickness of  $\frac{1}{16}$ ". Inspect lining wear pattern and replace lining if wear is uneven. Check drum for distortion and runout.

4) Inspect lining for cracks, charred surface, broken rivets or contamination. Replace linings if any of these conditions exist. Inspect all springs, parking brake lever, automatic adjuster lever and pivot, and actuating lever. Replace any weak springs, bent levers, or any parts that are worn or broken.

#### Installation

1) Apply a thin film of molydisulphide grease or chassis lubricant to support plate ledges, anchor pin, adjuster screw threads and pivot, parking brake lever pivot, adjuster lever-to-secondary brake shoe contact surface and portion of lever that contacts secondary brake shoe.

2) Attach parking brake cable to parking brake lever on secondary shoe. Pinch "U" clip to retain lever on shoe. Install secondary brake shoe, automatic adjuster lever and lever pivot as an assembly and install brake shoe hold-down spring.

3) Install actuating lever and adjusting lever. Large end of tapered spring should rest on brakeshoe. Install primary shoe and hold-down spring. Install guide plate on anchor pin. Install parking brake strut and spring on brake shoes.

4) Install adjusting screw and spring. Short hooked end of spring goes on primary brake shoe, and long hooked end goes on secondary brake shoe. Install

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adjuster spring. Install secondary brake shoe return spring on brake shoe and adjuster spring. Install primary return spring.

5) Perform initial brake adjustment by measuring clearance with gauge (J-21107-01). Set clearance specified by gauge and install drum. If gauge is not available, install drum and adjust star wheel adjuster until drum just drags. Hold adjuster lever off of adjuster with thin bladed screwdriver and back off adjuster until drum turns freely.

6) Test brake operation before moving vehicle. For final adjustment, make 10 to 15 forward and reverse stops.

### WHEEL CYLINDER

#### Removal & Installation

Disconnect brake line but do not bend it away from cylinder. When cylinder is moved away from backing plate, line will separate easily. Remove cylinder mounting bolts and remove cylinder. Reverse removal procedure to install.

### OVERHAUL

#### WHEEL CYLINDER

**NOTE:** Vehicle manufacturer recommends that wheel cylinders NOT be honed.

#### Disassembly

1) Remove brake shoe links and dust boots. Push pistons, piston cups and expander spring out of

bore. Discard piston cups. Clean all cylinder parts with clean brake fluid or brake solvent. Inspect cylinder bore and piston for pitting, wear or other damage and replace if necessary.

2) Light discoloration may be removed by polishing with crocus cloth only. Polish by rotating cylinder around crocus cloth supported by finger. DO NOT polish in a lengthwise direction.

#### Reassembly

1) Lubricate cylinder bore and internal components with brake fluid. Do not lubricate dust boots. Position replacement piston cups on spring expanders and install assembled parts into cylinder bore.

2) Ensure expanders are seated in piston cups and that cups are installed with lips facing each other. Install pistons with flat sides towards center. Install dust boots and brake shoe links.

### TIGHTENING SPECIFICATIONS

Application	INCH Lbs. (N.m)
Bleeder Screw	
1/4"-28 .....	40-50 (4.5-5.7)
3/8"-24 .....	40-140 (4.5-15.9)
Brake Line .....	120-200 (13.6-22.7)
	<b>Ft. Lbs. (N.m)</b>
Brake Support Plate	
J20 .....	45-55 (61-75)
All Others .....	35-55 (48-75)

### DRUM BRAKE SPECIFICATIONS

Application	Drum Diam. In. (mm)	Drum Width In. (mm)	Max. Drum Refinish Diam. In. (mm)	Brake Cyl. Diam. In. (mm)	Master Cyl. Diam. In. (mm)
"CJ" and Scrambler	10.00 (254.0)	1.75 (44.5)	10.06 (255.5)	.88 (22.2)	1.00 (25.4)
Cherokee, Wagoneer and J-10 Pickup	11.00 (279.4)	2.00 (50.8)	11.06 (280.9)	.94 (23.8)	1.13 (28.6)
J-20 Pickup	12.00 (304.8)	2.50 (63.5)	12.06 (306.3)	1.13 (28.6)	1.13 (28.6)