

BRAKE SHOE REMOVAL

CAUTION: Install cylinder piston clamps, Tool C-416 to prevent fluid leakage or air entering the hydraulic system during brake shoe removal.

Removing the Front Brake Shoes

With the vehicle elevated on a hoist, jack or suitable stands, remove the front wheels and drums.

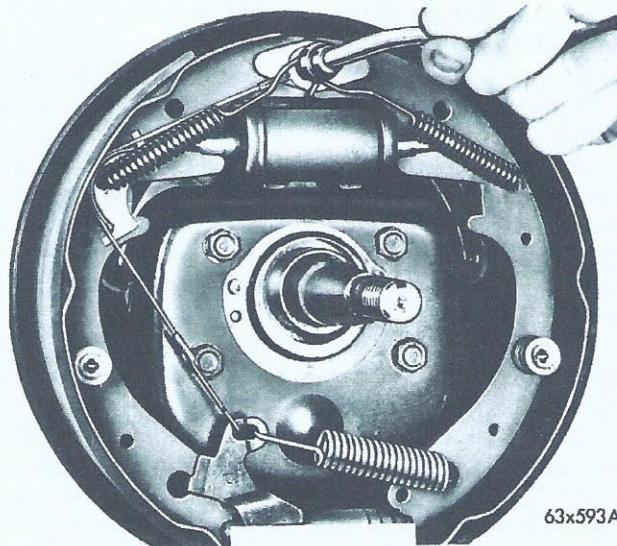


Fig. 4—Removing or Installing the Brake Shoe Return Springs (front)

(1) Using Tool C-3785 remove the brake shoe return springs, as shown in Figure 4.

(2) Remove the brake shoe retainer, spring and pins (Fig. 5).

IMPORTANT: Insert a small punch into the center

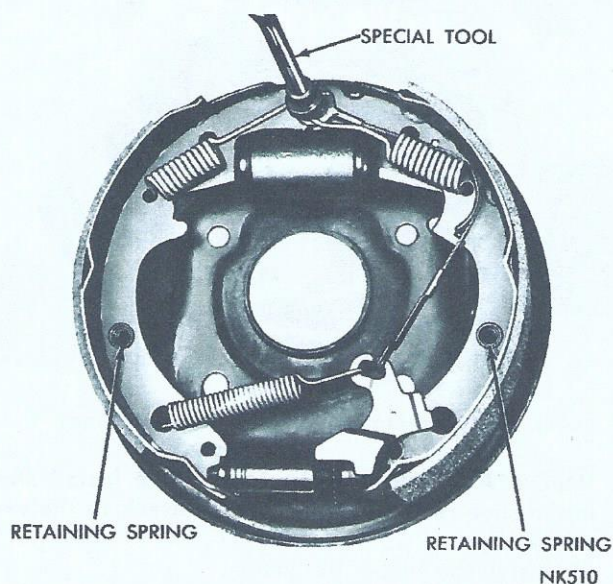


Fig. 5—Removing the Brake Shoe Retainers, Springs and Pins

of the brake shoe to backing plate retainer spring, and while holding the backing plate retainer clip, press in and disconnect the spring (Fig. 6).

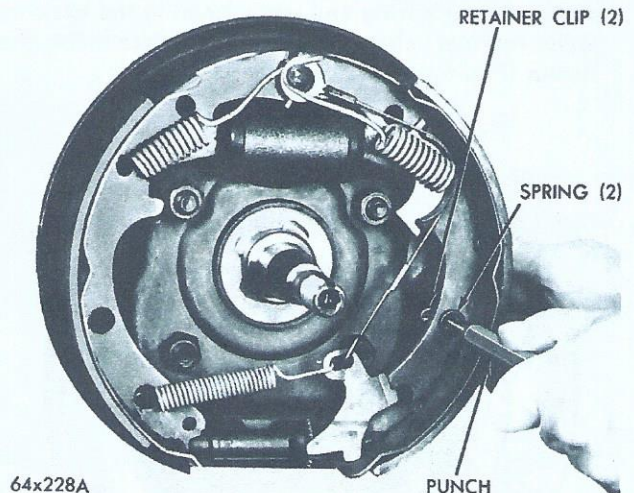


Fig. 6—Removing or Installing Brake Shoe Retainer Spring

(3) Remove the anchor pin plate.

(4) Remove the primary and secondary brake shoe assembly from the support. Install wheel cylinder clamps, Tool C-416 to hold the pistons in the cylinder.

(5) Overlap the anchor ends of the primary and secondary brake shoes and remove the adjusting star, lever, spring, cable and cable guide.

Removing the Rear Brake Shoes

(1) With the vehicle elevated on a hoist, jack or suitable stand, remove the rear wheel, and the drum retaining clips. Remove the drum.

(2) Using Tool C-3785 remove the brake shoe return springs (Fig. 7).

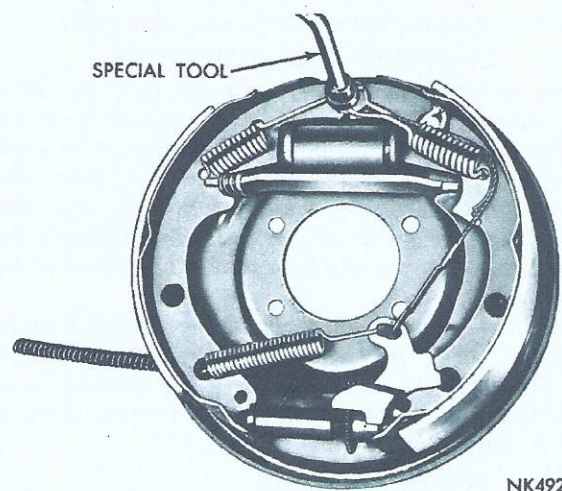


Fig. 7—Removing or Installing Brake Shoe Return Springs (rear)

(3) Remove the brake shoe retainer, spring and pins (Fig. 8).

IMPORTANT: On Models AV-1, AV-2 insert a small punch into the center of the brake shoe to backing plate retainer spring and while holding the backing plate retainer clip, press in and disconnect the spring (Fig. 6).

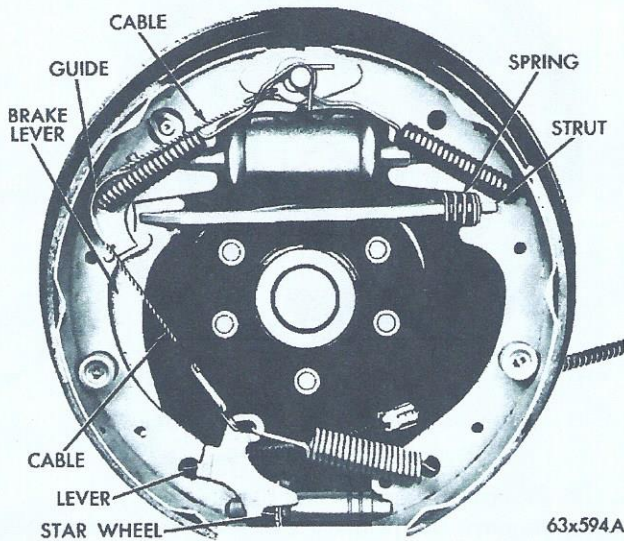


Fig. 8—Brake Assembly (rear)

(4) Remove the anchor pin plate and tilt the brake shoe assembly out from the backing plate.

(5) Spread the anchor ends of the primary and secondary shoes and remove the parking brake strut and spring.

(6) Disengage the parking brake cable from the parking brake lever and remove the brake assembly.

(7) Overlap the anchor ends of the primary and secondary shoes and remove the adjusting star, adjusting lever, adjusting spring, cable and cable guide.

CLEANING AND INSPECTION

Wipe or brush clean (dry) the metal portions of the brake shoes. Examine the lining contact pattern to determine if the shoes are bent. The lining should show contact across the entire width, extending from heel to toe. Shoes showing contact only on one side should be replaced. Shoes having sufficient lining but lack of contact at toe and heel should be measured for proper grind.

Clean the support, using a suitable solvent, then inspect for burrs. Remove burrs, then apply a light coat of lubriplate to the brake shoe contact area. Clean the threads of the adjusting screws, then inspect for pulled or stripped threads.

Grinding Recommendations

Brake Shoe Lining—New lining should be measured and ground .060" to .080" (maximum) under the

drum diameter.

Drum Refacing—Measure the drum runout with an accurate gauge. Drum runout should not exceed .006 inch out of round. If the drum runout is in excess of .006 inch, (total indicator runout) the drum should be refaced. Remove only as much material as is necessary to clean up the drum. **Do not reface more than .060 inch over the standard drum diameter.**

BRAKE SHOE INSTALLATION

Installing the Front Brake Shoes

(1) Match a primary with a secondary brake shoe and place them in their relative position on a work bench.

(2) Lubricate the threads of the adjusting screw and install it between the primary and secondary shoes with the star wheel next to the secondary shoe (Fig. 1). The star adjusting wheels are stamped "R" (right side) and "L" (left side), and indicate their location on the vehicle.

(3) Overlap the anchor ends of the primary and the secondary brake shoes and install the adjusting spring and lever.

(4) Spread the anchor ends of the brake shoes to maintain the adjusting lever and spring in position.

(5) Holding the brake shoes in their relative position, place the brake shoe assembly on the support and over the anchor pin (Fig. 9).

(6) Install the retainer pins, cups, springs and retainers.

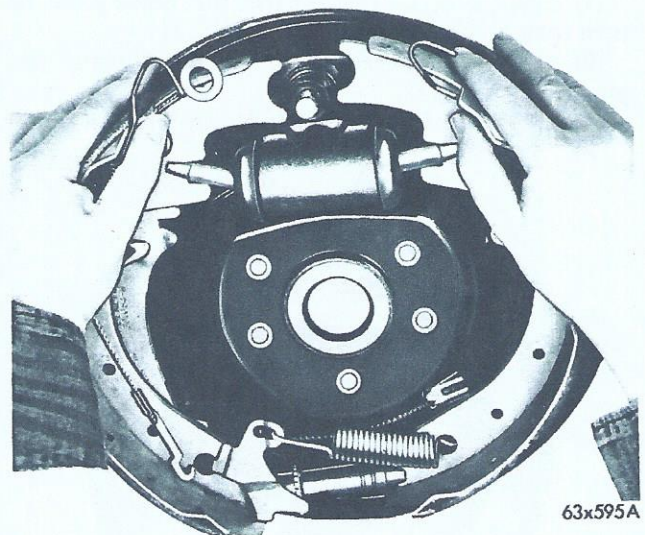


Fig. 9—Removing or Installing the Brake Shoes

IMPORTANT: On Models AV-1, AV-2 install the brake shoe retaining springs and attach to the retainer clips.

(7) Install the anchor pin plate.

(8) Install the cable guide in the secondary shoe and place the "eye" of the adjusting cable over anchor pin.