

REMOVAL AND INSTALLATION (Continued)

4. Remove wheel cylinder retaining bolts and remove wheel cylinder.

Installation

Wipe the end(s) of the hydraulic line to remove any foreign matter before making connections.

1. Position wheel cylinder on backing plate and finger-tighten brake tube to cylinder.
2. Secure cylinder to backing plate by installing retaining bolts. Tighten bolts to 10-14 N·m (8-10 lb-ft).
3. Install tube nut fitting (using a tube nut wrench).
4. Install and adjust brakes as outlined.
5. Install drum and wheel/tire assembly. Refer to Section 04-02.
6. Bleed brake system before driving vehicle.

Brake Backing Plate**Removal**

1. Remove wheel/tire assembly. Refer to Section 04-04.
2. Remove brake drum as outlined.
3. Remove and discard grease cap and retaining nut. Remove bearing hub unit from spindle.
4. Disconnect brake line from brake cylinder.
5. Remove brake shoes, adjuster assemblies, wheel cylinder and parking brake cable from backing plate.
6. Remove bolts retaining backing plate to spindle. Discard bolts.
7. Remove backing plate and foam gasket.

Installation

1. Install new foam gasket on spindle.
2. Install backing plate with new adhesive coated retaining bolts.
3. Install wheel cylinder and connect brake line as outlined.
4. Install brake shoes and adjuster assemblies. Insert parking brake cable through backing plate. Prongs must be securely locked in place. Connect parking brake cable to lever.
5. Install bearing and hub unit on spindle. Install nut and tighten to 255-345 N·m (188-254 lb-ft).
6. Install new grease cover using a 1-7/8 inch x 3/4 inch drive socket.

Adjust brake shoes and install brake drum and wheels. Bleed brake system. Refer to Section 06-00.

NOTE: Whenever rear brake linings are removed, the parking brake cable tension should be checked. Refer to Section 06-05 and adjust as required.

CLEANING AND INSPECTION**Tools Required:**

- Rotunda Brake and Clutch Service Vacuum 091-00001

1. Use an industrial vacuum cleaner such as Rotunda Brake and Clutch Service Vacuum 091-00001 or equivalent to remove all dust from backing plates and interior of brake drums.
2. Inspect brake shoes for excessive lining wear or shoe damage. If lining is damaged or worn within 0.79mm (1/32 inch) of the rivet heads on riveted linings, it must be replaced. Replace any lining that has been contaminated with oil, grease or brake fluid. Replace lining in axle sets only. Never replace just one shoe of a brake assembly. Replace both leading and trailing shoes. Prior to replacement of lining, drum diameter should be checked to determine that brake drum diameter is within specification. If braking surface diameter exceeds specification, drum must be replaced.
3. Check condition of brake shoes, retracting spring, hold-down springs, and drum for signs of overheating. If shoes have a slight blue coloring, indicating overheating, retracting and hold-down springs should be replaced. Overheated springs lose their tension and could allow new lining to drag and wear prematurely, if not replaced.
4. Inspect all other brake parts and replace any that are worn or damaged.
5. Inspect brake drum and, if necessary, refinish. The maximum inside diameter is shown on each brake drum. If maximum inside diameter is exceeded either by wear or refinishing, drum must be replaced.

OVERHAUL**Brake Drum Refinishing****Tools Required:**

- Brake Adjustment Gauge D8 1L-1 103-A or Rotunda Brake Drum Micrometer 104-00046

Minor scores on a brake drum can be removed with sandpaper. Do not refinish drums to remove score marks. A drum surface which is highly polished can cause brake lockup or noise. This polished condition should be removed with sandpaper. A drum that is out of round sufficient to cause vehicle vibration or roughness when braking should be refinished. Remove only enough stock to true-up the drum. When brake drum maximum inside diameter shown on the drum is exceeded either through wear or refinishing, the drum must be replaced.

Check inside diameter of brake drum with Brake Adjustment Gauge D8 1L-1 103-A, Rotunda Brake Drum Micrometer 104-00046 or equivalent.

After a drum is refinished, wipe refinished surface with a cloth soaked in clean, denatured alcohol. If one drum is refinished, the opposite drum on the same axle should also be refinished to the same diameter.