

FIG. 15 Line Flaring Sequence

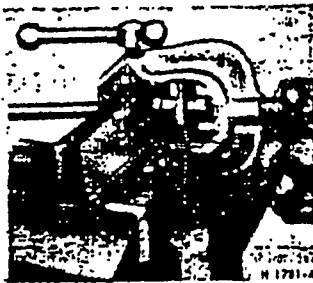


FIG. 16 Line Flaring (Split Die Type)

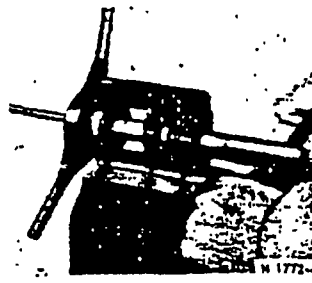


FIG. 17 Line Flaring (Flaring Bar Type)

7. Form the double flare by tightening the yoke screw again, with second adaptor fitted, depending on the tool used.
8. Release the screw bar, and flared line. Inspect the flare for cracks or poor flare form, and repeat the process if the flare is not correct.
9. Repeat Steps 3 through 6 at the opposite wheel cylinder.

BRAKE HOSE

Replace a flexible brake hose if it shows signs of softening, cracking or other damage.

When installing a new brake hose, position the hose to avoid contact with other vehicle parts.

REMOVAL AND INSTALLATION**BRAKE DRUM****All Vehicles thru 9000 Series**

Use the following service procedures for both hydraulic and air brakes. Since the F-100 thru F-350, E-100-E-350 and Bronco rear drums, procedures apply to hydraulic brakes only, they are covered in Part 12-02.

FRONT BRAKE DRUM

1. Raise the vehicle until the tire clears the floor and remove the wheel and tire from the hub. Loosen the brake shoe adjusting screw until the shoes no longer touch the brake drum. Remove the grease cap and the gasket (if equipped) from the hub.
2. On vehicles with 9,000 lb front axles and hydraulic brakes, remove the locknut, locking ring, dimpled washer and adjusting nut. On all other axles, remove the cotter pin, adjusting nut and flat washer from the spindle.
3. Remove the outer bearing cone and roller assembly. Pull the hub and drum assembly off the wheel spindle.

4. Remove the front wheel-to-hub retaining nuts (or rim and tire attaching nuts). Remove the wheel (or rim and tire) from the hub and drum.
5. Remove the brake drum retainers and attaching bolts, screws or bolts and nuts.
6. Remove the brake drum from the hub.
7. Check the drum for damage or wear, and repair or replace if necessary. If a new drum will be installed, be sure to remove the protective coating with degreaser.

Install new grease retainer seals whenever a wheel and hub is removed.

8. Place the brake drum to the hub and install the retainers and retaining bolts, screws, or bolts and nuts.
9. Install the hub and drum on the wheel spindle. Keep the hub centered on the spindle to prevent damage to the grease retainer or the spindle threads.
10. On vehicles with 9,000 lb front axles and hydraulic brakes install the outer bearing cone and roller assembly, and

the bearing adjusting nut. On all other axles, install the outer bearing cone and roller and flat washer on the spindle. Install the adjusting nut.

11. Install the wheel and tire on the hub. Then install the clamps (if applicable) and the wheel stud nuts.
12. While rotating the wheel, tighten the adjusting nut to specification. Adjust wheel bearings as described in Group 11.
13. On vehicles with 9000 lb front axle and hydraulic brakes, install the dimpled washer with the dimple indexed in one of the holes in the adjusting nut. Install the locking ring lock nut and tighten to specification. Bend the locking ring over a flat of the lock nut.
14. Install the gasket (if equipped) and the grease cap, and tighten the wheel stud nuts to specification. Install the hub cap (if equipped), and adjust the brakes as described in this Part.

OVERHAUL

An industrial type vacuum cleaner in place of compressed air, is recommended to remove any dust and dirt present on

brake linings, pads, rotors and drums etc. when performing wheel brake repairs. Also, any machining done on brake

linings or pads should be done using properly exhaust ventilated equipment.

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