

DESCRIPTION (Continued)

Fluid Level Indicator

The fluid level indicator replaces the pressure differential valve used in the previous brake systems. It is contained inside the body of the master cylinder plastic reservoir and activates the BRAKE warning indicator whenever fluid level is low.

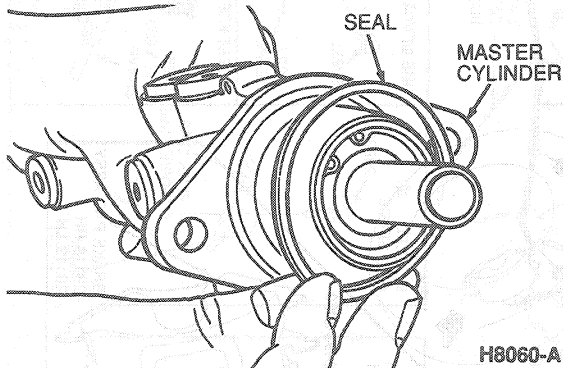
REMOVAL AND INSTALLATION

Master Cylinder**Removal**

1. For ABS vehicles, depress brake pedal several times to exhaust all vacuum in system.
2. Remove brake tubes from primary and secondary outlet ports of master cylinder and pressure control valves (wagon).
3. Disconnect brake warning indicator connector.
4. For ABS vehicles, disconnect hydraulic control unit (HCU) supply hose at master cylinder and secure in a position to prevent loss of brake fluid.
5. Remove two nuts retaining master cylinder to brake booster assembly.
6. Slide master cylinder forward and upward from vehicle.

Installation

1. For ABS vehicles, install a new seal in groove in master cylinder mounting face.



2. Position master cylinder over booster push rod and onto two studs on booster assembly.
3. Install nuts and tighten to 21-29 N-m (16-21 lb-ft).
4. Install brake tubes to master cylinder and pressure control valve (wagon) outlet ports.
5. For ABS vehicles, install HCU supply hose to master cylinder fitting and secure with hose clamp.
6. Connect brake warning indicator connector.
7. Fill master cylinder with Heavy Duty Brake Fluid C6AZ-19542-AA (ESA-M6C25-A) or DOT 3 equivalent to 4.0mm (0.16 inch) below MAX line on side of reservoir.

8. Bleed brake system as outlined.
9. Operate brakes several times, then check for external hydraulic leaks.

Brake Master Cylinder Reservoir**Removal**

NOTE: Whenever the small (secondary) reservoir port is removed from the master cylinder, the reservoir assembly must be replaced and new grommets must be installed.

1. Disconnect fluid level indicator switch.
2. Remove cap from reservoir.
3. Using needle-nose pliers, remove float from reservoir (vehicles without ABS).
4. Remove brake fluid from reservoir.
5. For ABS vehicles, disconnect HCU supply hose from reservoir fitting and secure in a position to prevent loss of brake fluid.
6. Remove primary reservoir port from master cylinder by prying upward with rod or long screwdriver. For ABS vehicles, while prying upward on reservoir, simultaneously pry reservoir retaining leg off pin.
7. Remove secondary reservoir port in same manner and discard complete reservoir assembly.
8. Remove grommets from master cylinder.

Installation

1. Wet new grommet in clean brake fluid and press into master cylinder.
2. Wet reservoir ports in clean brake fluid and press new reservoir assembly into grommets. For ABS vehicles, while pressing the reservoir into grommets, assemble reservoir retaining legs on pins.
3. For ABS vehicles, install HCU supply hose to reservoir fitting and secure with hose clamp.
4. Connect fluid level indicator switch.
5. Fill master cylinder with specified brake fluid to MAX line. Use Heavy-Duty Brake Fluid C6AZ-19542-AA (ESA-M6C25-A) or DOT-3 equivalent.

Brake Pressure Control Valve**Sedan****Removal**

1. Raise vehicle on hoist. Refer to Section 00-02.
2. Disconnect four brake tubes from valve assembly and note position.