

**PARKING BRAKE VALVE - MAINTENANCE PRACTICES****1. General**

- A. This section contains information on parking brake valve removal and installation. A faulty parking brake valve is not repairable, and must be replaced as an assembly.

**2. Parking Brake Valve Removal/Installation**

- A. Remove Parking Brake Valve (Refer to Figure 201).

**NOTE:** The parking brake valve is located on the aft side of the firewall (FS 100.00) between and just below the pilot's rudder pedals.

- (1) With parking brake handle (9) in off position, drain hydraulic fluid from brake system.
- (2) Remove scuff plate and floorboard section forward of pilot's rudder pedals.
- (3) Disconnect master cylinder hoses (12) and (13) from parking brake valve (11). Cap ports and hoses.
- (4) Disconnect brake lines (1) and (2) from parking brake valve (11). Cap lines and ports.
- (5) Loosen clamp bolt (3) on control lever (4) and remove control wire (5).
- (6) Remove two bolts (15) attaching valve (11) to firewall.
- (7) Remove valve (11) from airplane.
- (8) For Airplanes 20800547 and On and Airplanes 208B5000 and On, do the following:
  - (a) Remove the two valve inlet fittings (17).

- B. Install Parking Brake Valve (Refer to Figure 201).

**CAUTION:** Do not use Teflon tape in the installation of the two valve inlet fittings.

- (1) For Airplanes 20800547 and On and Airplanes 208B5000 and On, do the following:
  - (a) Install the two valve inlet fittings (17) in the valve (11).
  - (b) Torque the two valve inlet fittings (17) to between 50 inch-pounds (5.65 N-m) and 65 inch-pounds (7.34 N-m).
- (2) Position valve (11) on aft side of firewall (10), aligning holes in valve with holes in firewall (10); install bolts and washers.
- (3) Remove caps from hoses (12) and (13) and lines (1) and (2) and connect to appropriate port of valve (11).
- (4) Install clamp bolt (3), washer, and nut on control lever (4) so bolt will swivel in control lever.
- (5) If knob (9) and control cable (5) were removed, install wire (5) and nut on forward side instrument panel, and lock nut and knob (9) on aft side of panel.
- (6) Insert control wire (5) through clamp bolt (3) on control lever (4) and torque clamp bolt nut (16) to 15 inch pounds.
- (7) Bend control wire to 90 degrees to prevent disconnection in the event nut (16) should become loose.
- (8) Bleed brake system. Refer to Wheels and Brakes - Maintenance Practices.
- (9) Rig control knob (9) so that there is a 0.12-inch (minimum) cushion between locknut and knob (9) when control lever (4) is in OFF position.
- (10) Install floorboard section and scuff plate removed for access.

**3. Parking Brake Valve Return to Service Procedure**

- A. Do the Brakes Operational Check. Refer to Wheels and Brakes - Inspection/Check.