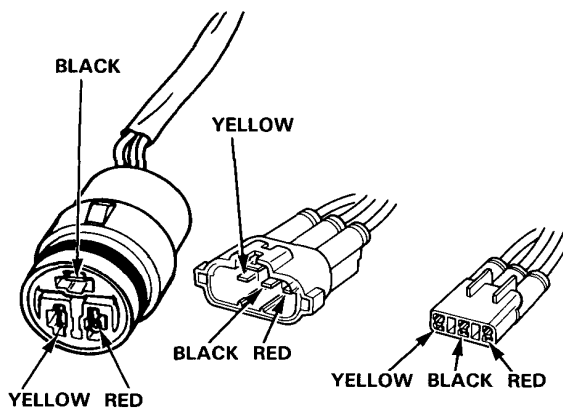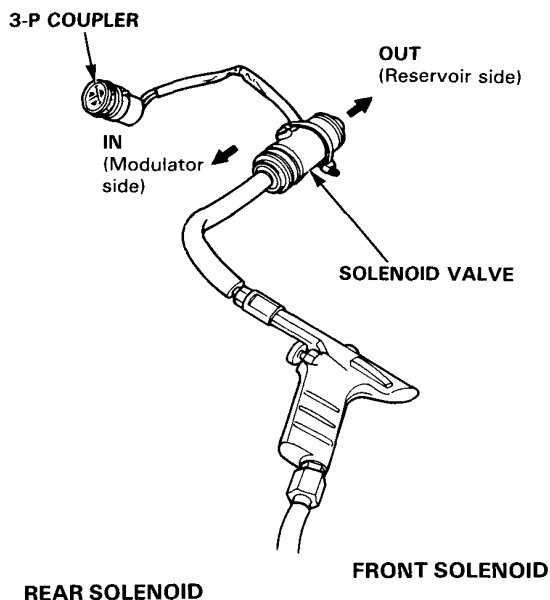# Solenoid

Inspection

1. Connect a tube to the inlet of the solenoid valve. Apply compressed air to the solenoid valve through the tube.

2. Check the solenoid valve for proper operation by connecting a 12 V fully charged battery to the 3-P coupler terminals:

   Voltage not applied: There should be no air flow.

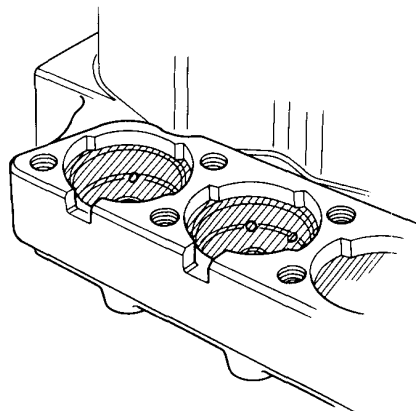   **Black — Red: There should be air flow through IN and OUT.**

   Black — Yellow: There should be air flow through IN.

3-P COUPLER

OUT (Reservoir side)

IN (Modulator side)

SOLENOID VALVE

FRONT SOLENOID

REAR SOLENOID

BLACK

YELLOW

YELLOW RED

BLACK RED

YELLOW BLACK RED

Installation

1. Fill the modulator body with brake fluid up to the step in the solenoid mounting hole.

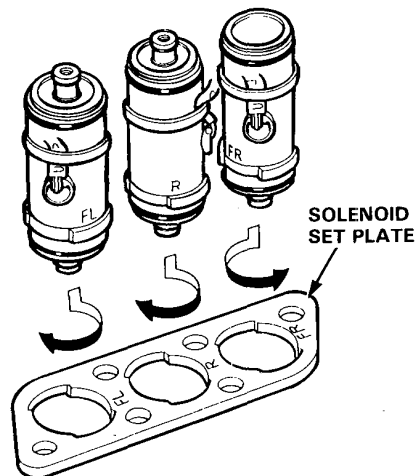   NOTE: On solenoid valve assembly, place shop rags over the solenoid valve and under the modulator valve to prevent the brake fluid from spilling on the valve.

2. Coat the O-ring with the clean brake fluid and install the O-ring onto the solenoid valve.

3. Install the solenoid valves on the set plate.

   ⚠WARNING Each solenoid valve and set plate are marked for correct installation. If the solenoid valves are interchanged, the system will not work properly. Refer to the marks and be sure to install them in correct positions.

   ● Align the projection on the solenoid valve with the cutout in the set plate and turn the valve 1/2 turn. The solenoid wire should face rearward.
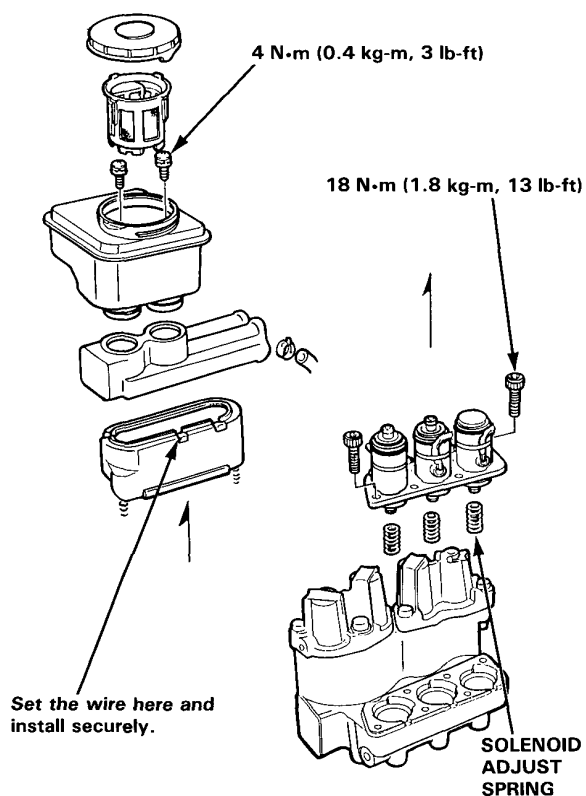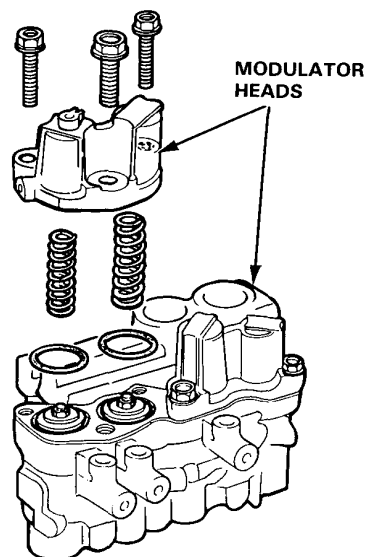

SOLENOID SET PLATE

(cont'd)

Installation (cont'd)

4. Install the solenoid adjust springs on the modulator body.

5. Install the solenoid valves and set plate and secure with the hexagonal socket screws.

6. Install the solenoid cover and solenoid head.

7. Install the reservoir tank.

8. Install the tank filter.

9. Connect the low pressure hose.

4 N·m (0.4 kg-m, 3 lb-ft)

18 N·m (1.8 kg-m, 13 lb-ft)

Set the wire here and install securely.

SOLENOID ADJUST SPRING

Removal

1. Remove the modulator heads.

MODULATOR HEADS

2. Insert the driver into the spring, pry off the piston assembly until it lifts up slightly and pull out the lock nut with a pair of pliers.

CAUTION:
- Set the washer between the driver and modulator body to prevent damage to the body.
- Be careful not to damage the piston sleeve.

WASHER