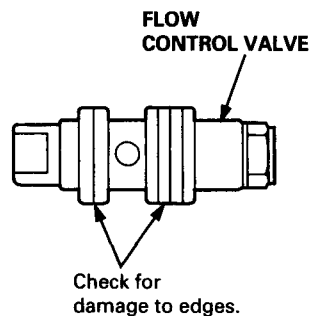


Power Steering Pump

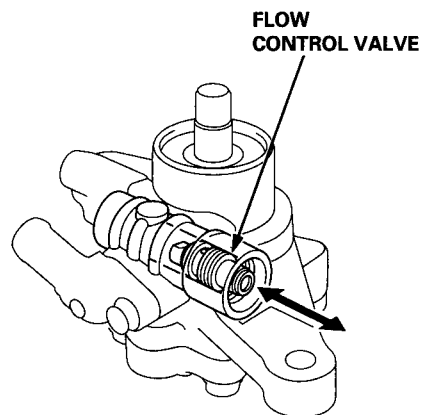
Inspection

Flow Control Valve:

1. Check the flow control valve for wear, burrs, and other damage to the edges of the grooves in the valve.

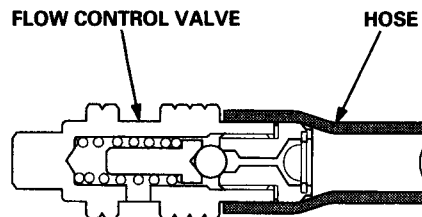


2. Inspect the bore and the flow control valve for scratches and wear.
3. Slip the valve back in the pump, and check that it moves in and out smoothly.



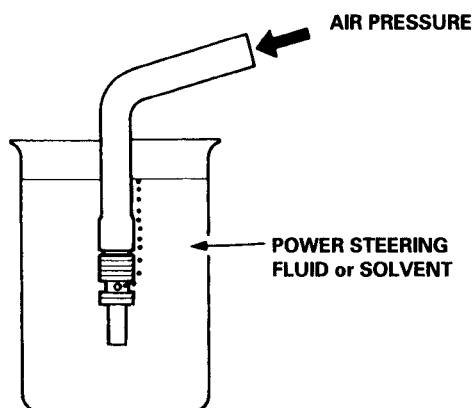
If OK, go to step 4; if not, replace the pump as an assembly. The flow control valve is not available separately.

4. Attach a hose to the end of the valve as shown.

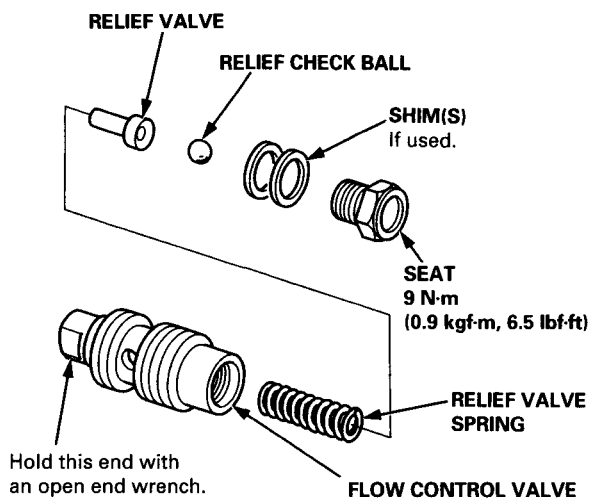




5. Submerge the valve in a container of power steering fluid or solvent, and blow in the hose. If air bubbles leak through the valve at less than 98 kPa (1.0 kgf/cm², 14.2 psi), repair it as follows.



6. Hold the bottom end of the valve with a open end wrench.
7. Unscrew the seat in the top end of the valve, and remove any shims, the relief check ball, relief valve and relief valve spring.

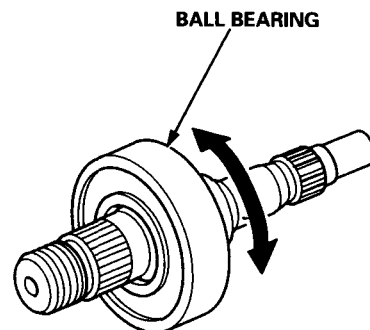


8. Clean all the parts in solvent, dry them off, then reassemble and retest the valve. If the flow control valve tests OK, reinstall it in the pump. If the flow control valve still leaks air, replace the pump as an assembly. The flow control valve is not available separately.

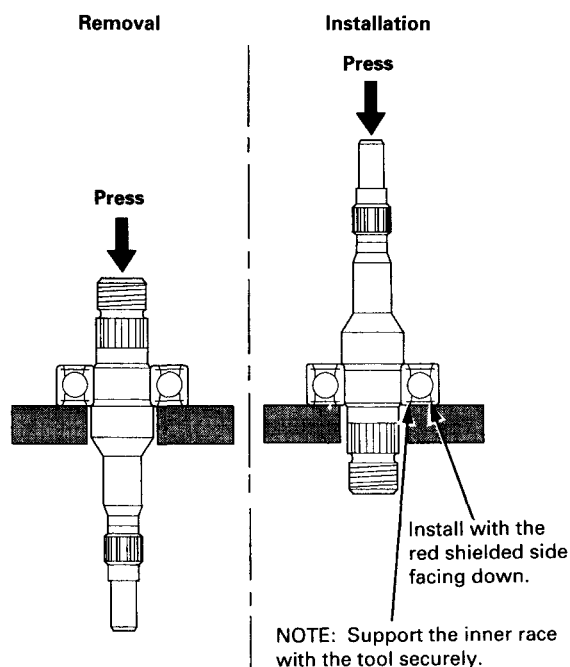
NOTE: If necessary, relief pressure is adjusted at the factory by adding shims under the check ball seat. If you found shims in your valve, be sure you reinstall as many as you took out.

Ball Bearing Inspection/Replacement:

1. Inspect the ball bearing by rotating the outer race slowly. If you feel any play (axial or radial) or roughness is felt, replace the ball bearing.



2. Remove and discard the ball bearing using a press as shown.



3. Install the new ball bearing using a press as shown.