

Pump

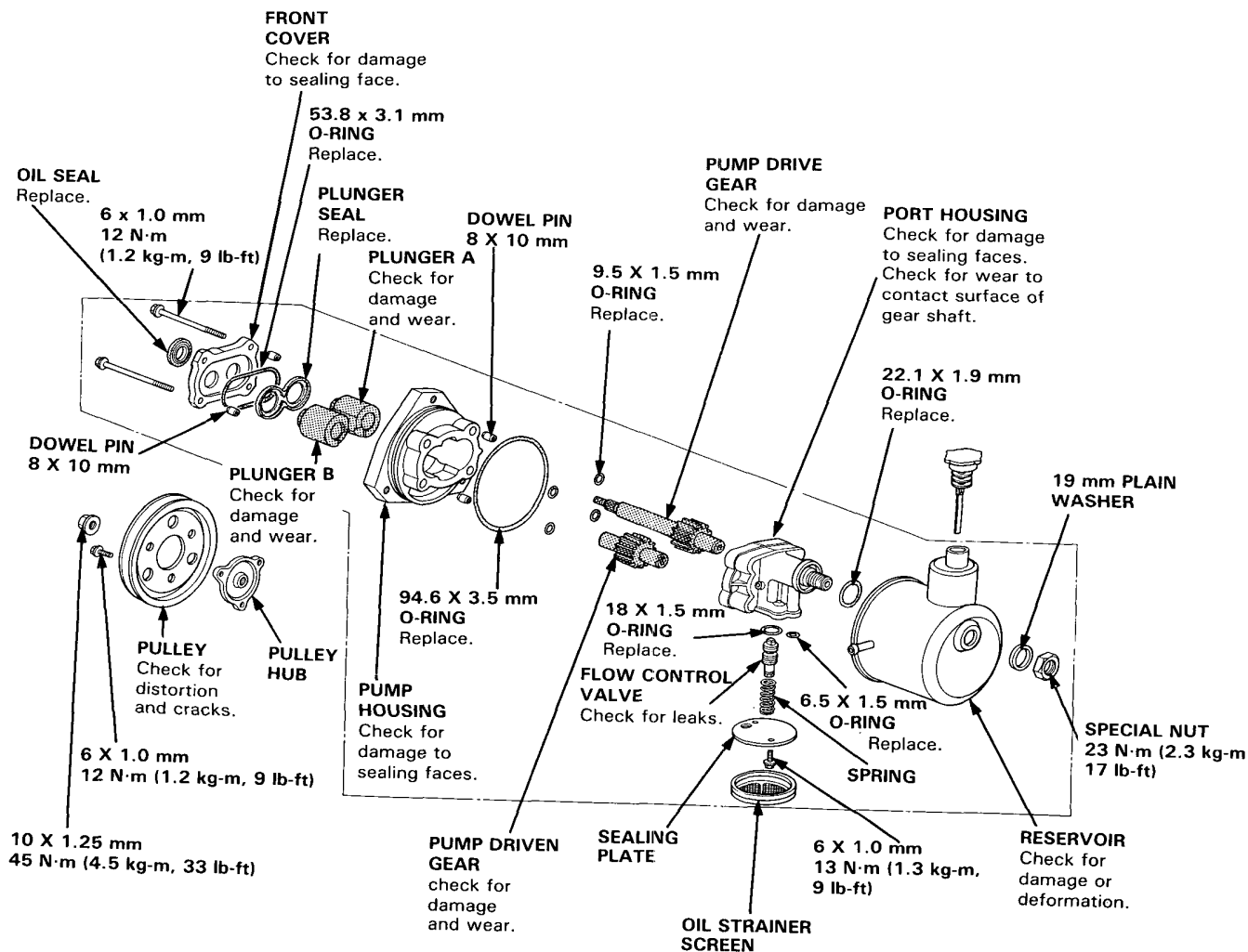
Index/Inspection



Use only STEERING GREASE (Honda part number 08740—99969) on seals and O-rings.

CAUTION: Pump components are made of aluminum. Be careful not to damage them when servicing.

- Clean all the disassembled parts thoroughly.
- Replace all O-rings and seals. Do not dip new O-rings and seals in solvent; coat O-rings with steering grease before installation, and make sure they stay in place during reassembly.
- The shaded parts are selectively fitted, and should not be disassembled except to replace seals. If any one of them is faulty, replace the whole pump as an assembly.



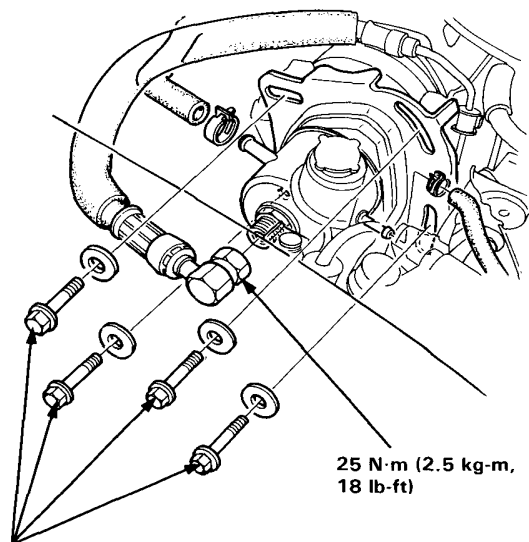


Removal/Installation

1. Disconnect the hoses from the reservoir.

NOTE: Cap the open fitting to keep dirt out of the system.

2. Remove the four bolts and pump assembly.



10 X 1.25 N·m
45 N·m (4.5 kg-m, 33 lb-ft)

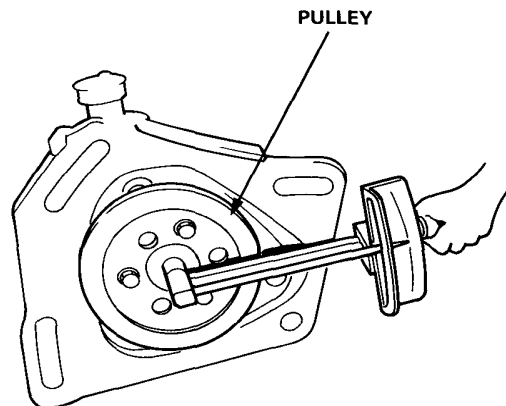
Install in reverse order, and:

- Connect hoses securely.
- Adjust the belt tension.
- Check fluid level and add if necessary.
- Bleed the air from the system.

Preload Check

Check pump preload with a torque wrench.

PRELOAD: 4 N·m (0.4 kg-m, 3 lb-ft) max.



Pump

Pump Bracket Removal

1. Remove the pulley nut using the special tool, then remove the three 6 mm bolts.

UNIVERSAL HOLDER
07725-0010101
or 07725-0030000

6 x 1.0 mm
12 N·m (1.2 kg-m
9 lb-ft)

PULLEY NUT
45 N·m (4.5
kg-m, 33 lb-ft)

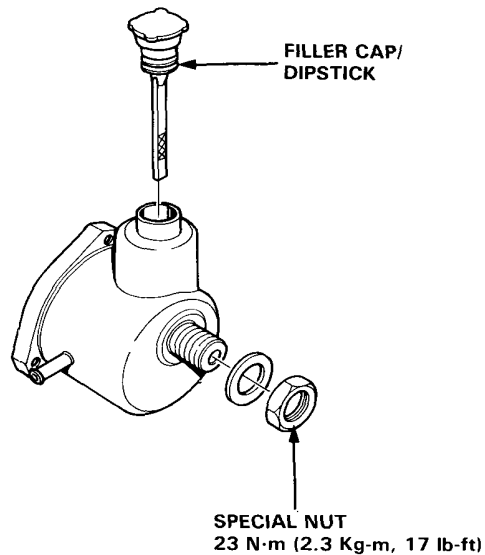
2. Remove the three 10 mm bolts and separate the pump from its bracket.

PUMP BRACKET

10 X 1.25 mm
45 N·m (4.5 kg-m, 33 lb-ft)

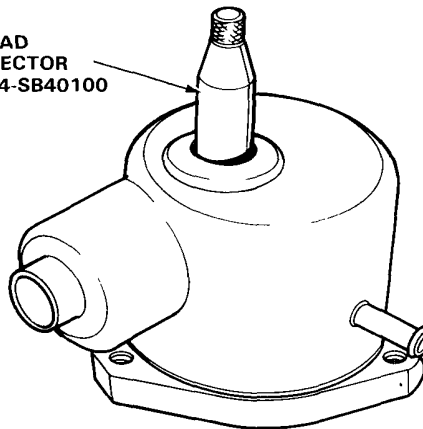
Reservoir Replacement

1. Remove the filler cap/dipstick.
2. Remove the special nut and 19 mm plain washer.



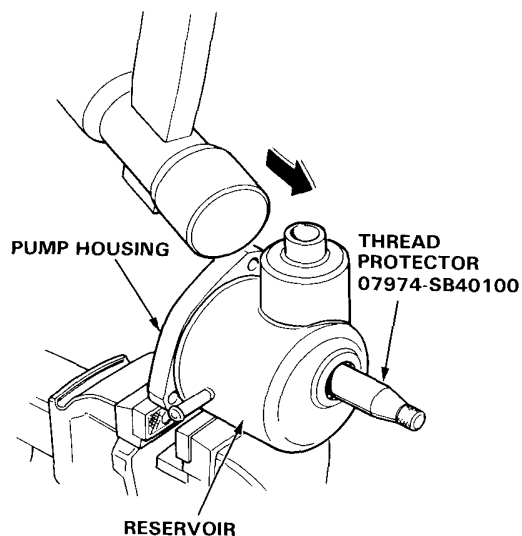
3. Attach the special tool on the high pressure fitting.

THREAD
PROTECTOR
07974-SB40100

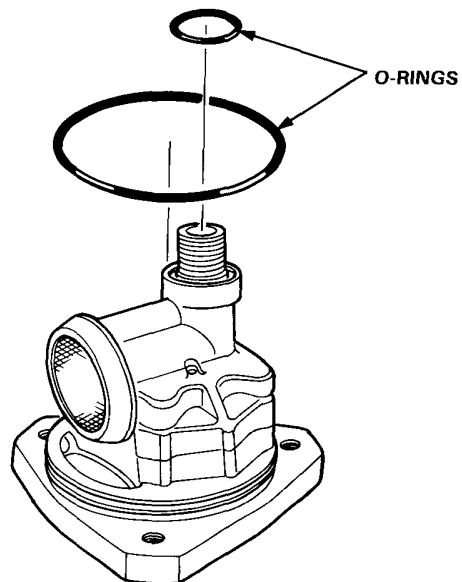


4. Tap the reservoir lightly with a plastic hammer to remove the reservoir from the pump housing.

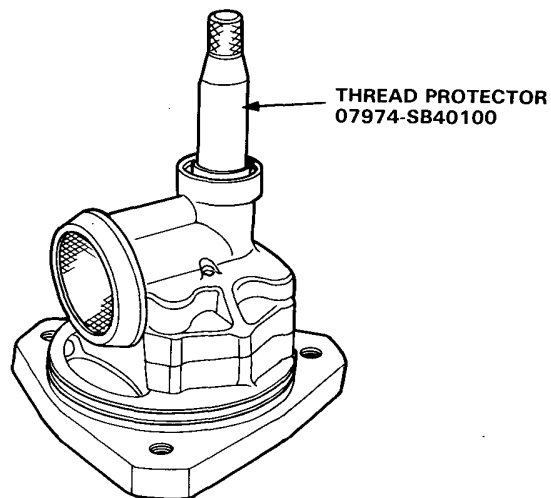
CAUTION: Be careful not to damage the reservoir.



5. Replace 94.6 x 3.5 mm and 22.1 x 1.9 mm O-rings.



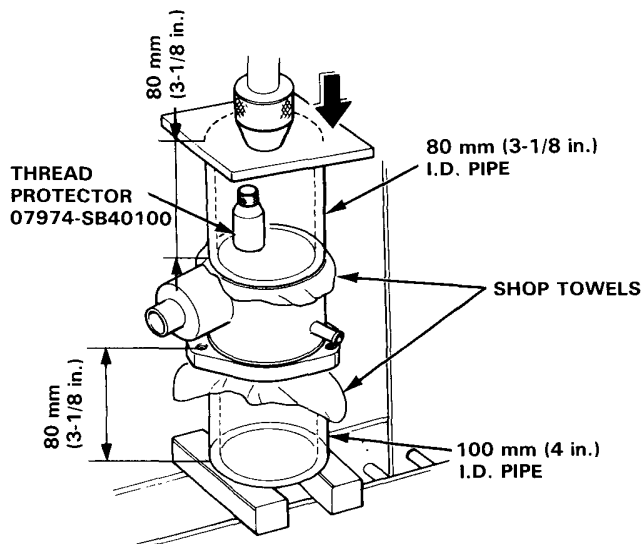
6. Install the thread adaptor as shown.



7. Press the reservoir into the pump housing using 80 mm (3-1/8 in.) and 100 mm (4 in.) diameter pipes until the end of the reservoir is seated on the flange of the pump housing.

CAUTION: Use shop towels to prevent damage to the reservoir or pump housing.

NOTE: The shop towels function as "gaskets" to keep the pipe sections securely positioned on the pump housing. This is particularly important against the rounded edge of the pump case/reservoir.

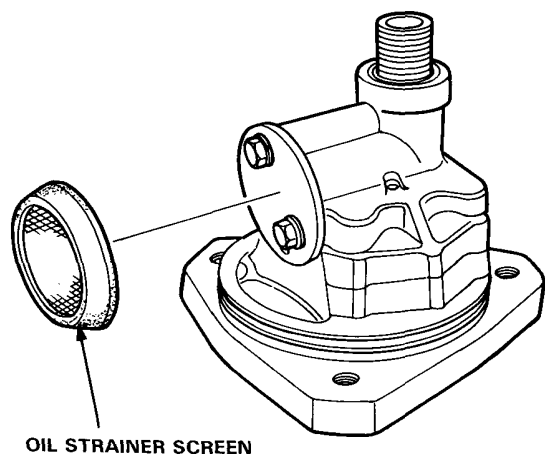


8. Install the 19 mm plain washer and special nut.

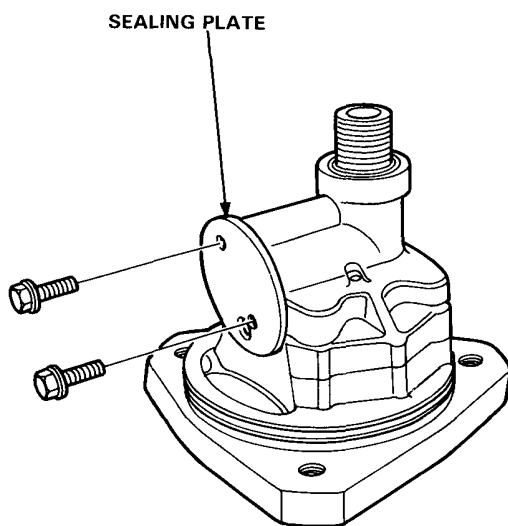
Pump

Flow Control Valve Inspection and Replacement

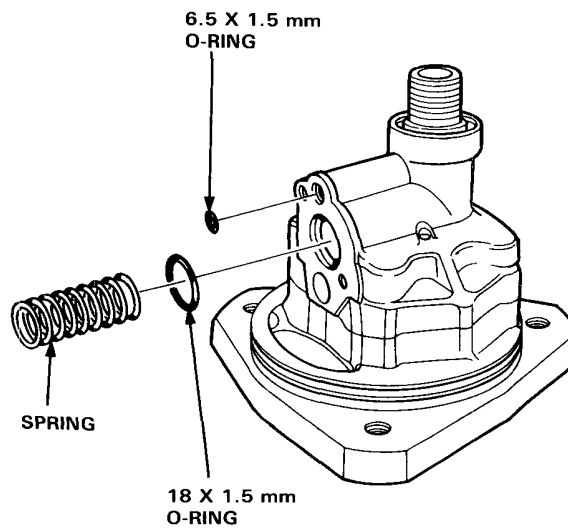
1. Remove and clean the oil strainer screen.



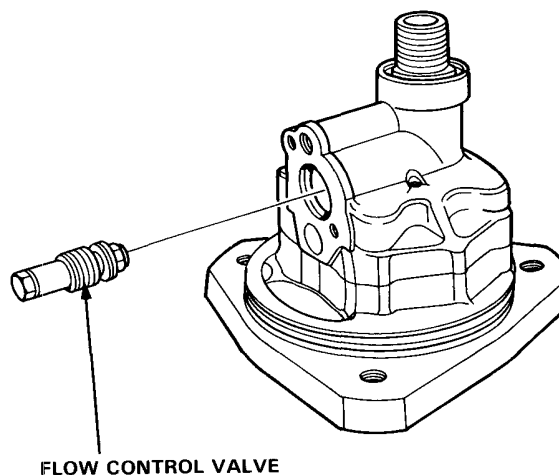
2. Remove the sealing plate.



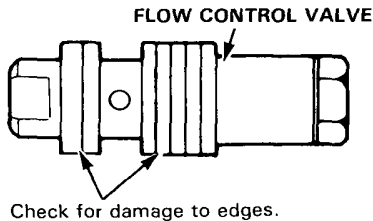
3. Remove the 18.5 × 1.5 mm and 6.5 × 1.5 mm O-rings.
4. Remove the spring.



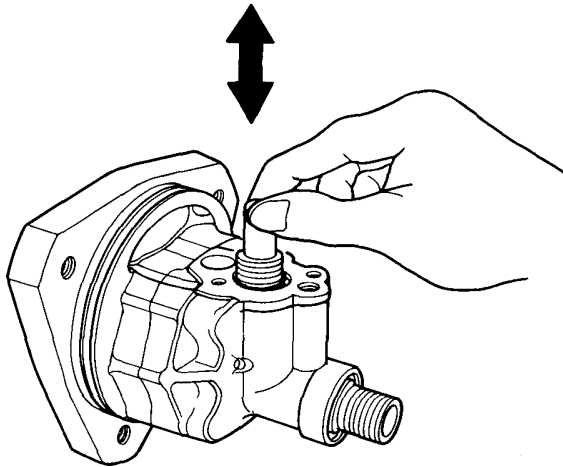
5. Remove the flow control valve.



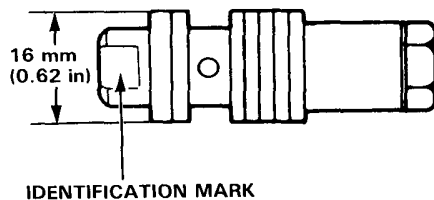
6. Check for wear, burrs, and other damage to the edges of the grooves in the valve.



7. Slip the valve back in the pump and check that it moves up and down smoothly.

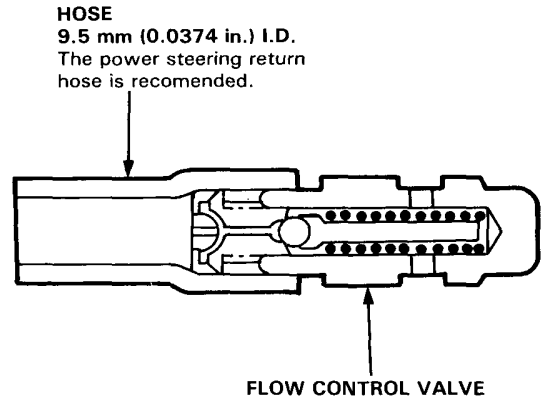


If OK, go to step 8. If not, replace the valve:
The original valve was selected for a precise fit in the port housing bore; make sure the new one has the same identification mark.

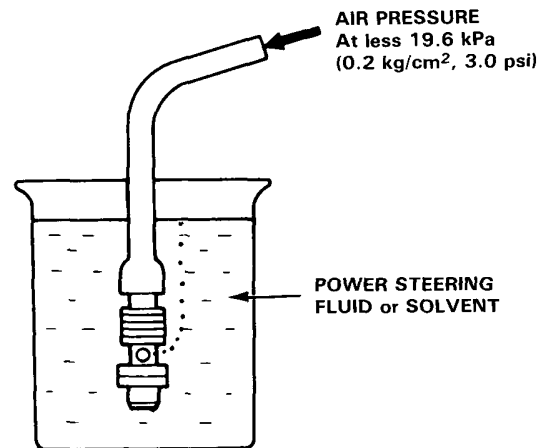


Mark	Part No.	Part Name	Size: mm
A	56350-PC1-000	Flow Control Valve Assembly A	16 less than 0 -0.005
Without mark	56360-PC1-000	Flow Control Valve Assembly B	16 +0.006 0

8. Attach a hose to the end of the valve.



9. Then submerge the valve in a container of power steering fluid or solvent, and blow on the hose. Replace the valve or repair it (next page) if you see air bubbles in the fluid.

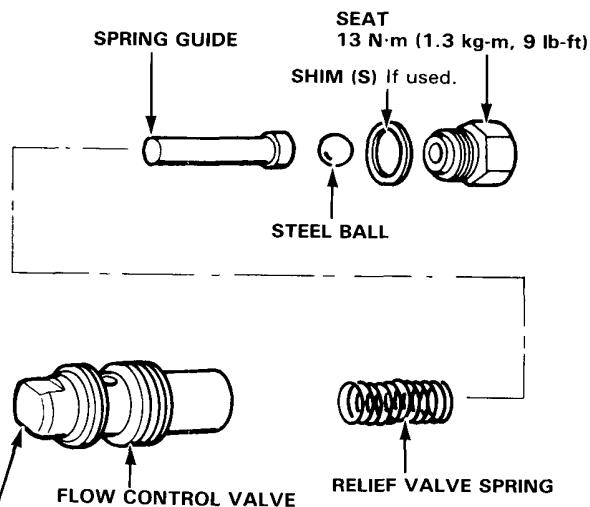


(cont'd)

Pump

Flow Control Valve Inspection and Adjustment (cont'd)

10. If the valve leaks, clamp the bottom end of it in a vise that has soft jaws.
11. Unscrew the seat in the top end of the valve, and remove any shims, the steel ball, the spring guide and its spring.



Clamp this end in a vise with soft jaws.

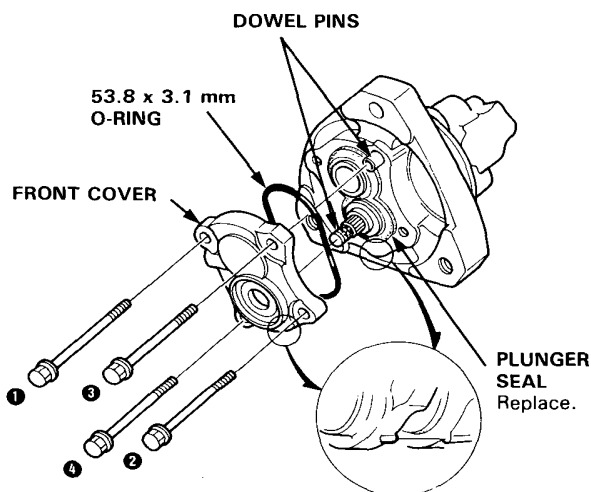
12. Clean all the parts in solvent, dry them off, then reassemble and re-test the valve.

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.

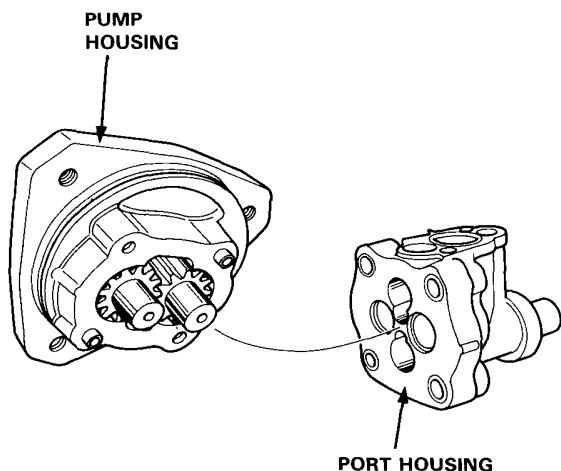
13. Install in reverse order of removal. Also:
 - Coat the new O-rings with steering grease to hold them.
 - Coat the flow control valve with power steering fluid.

Housing Disassembly

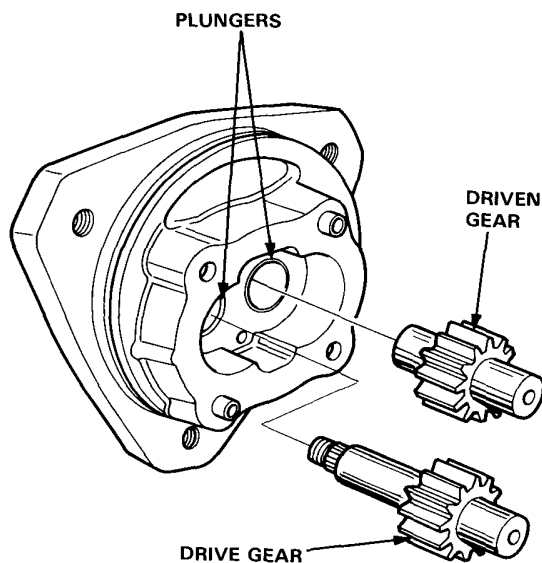
1. Separate the reservoir from the pump housing (page 19-17).
2. Remove the flow control valve if necessary (page 19-18).
3. Loosen the four 6 mm bolts in the sequence shown, then remove them and the front cover.
4. Remove the 53.8 x 3.1 mm O-ring from the front cover.
5. Remove the plunger seal.



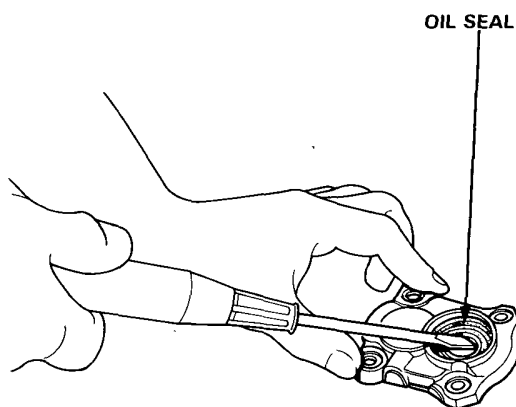
6. Separate the port housing from the pump housing.



7. Remove the drive and driven gears from the pump housing.



8. Remove the four O-rings.
9. Remove the plungers if necessary.
10. Pry the oil seal out from the front cover.

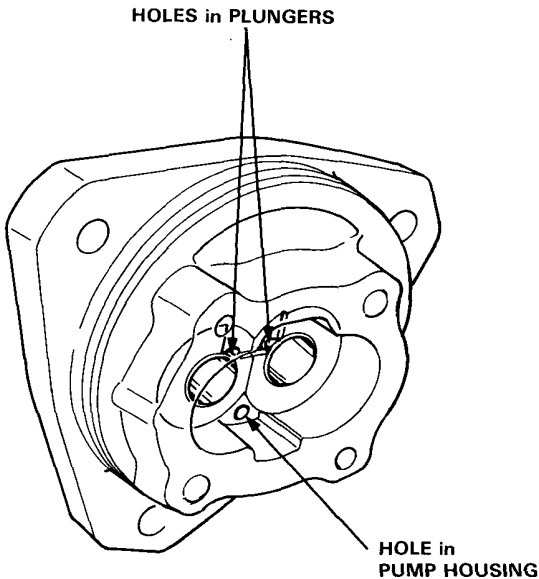


Pump

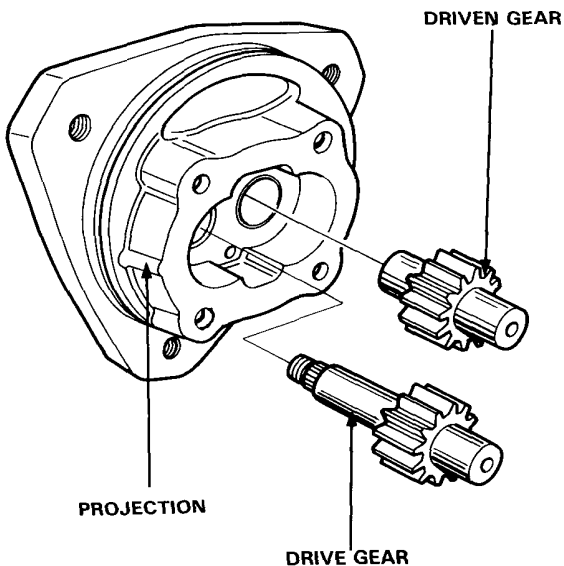
Housing Assembly

1. If the plungers are removed, be sure to position them correctly, as shown.

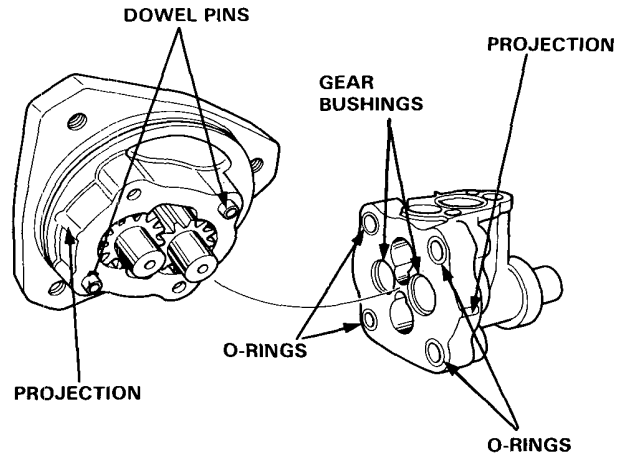
NOTE: Lubricate the plunger housing with power steering fluid before installing the plungers.



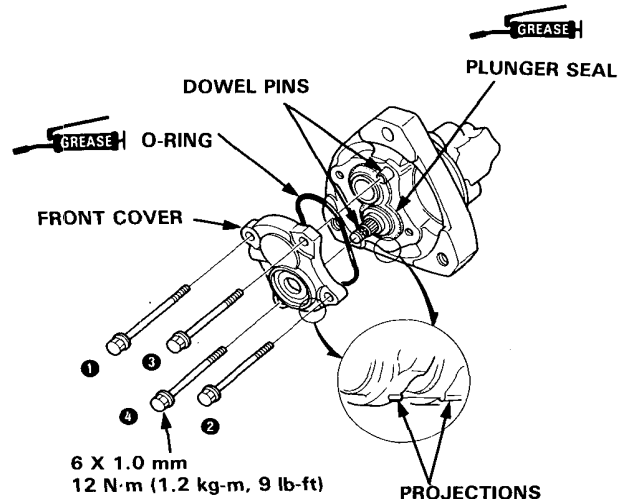
2. Lubricate the inside surface of the plungers and gears with power steering fluid.
3. Install the gears in the pump housing with the drive gear toward the projection on the housing.



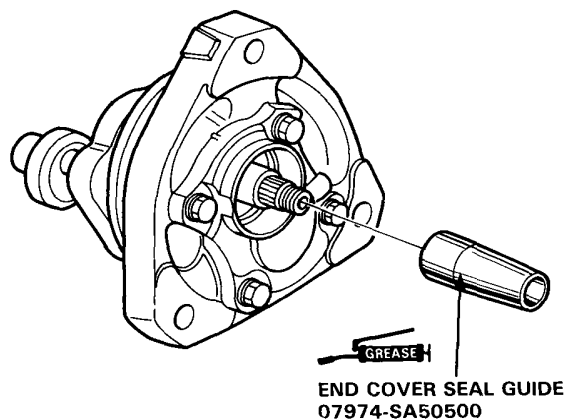
4. Lubricate the gear bushing of the port housing.
5. Install the two dowel pins and four O-rings.
6. Install the port housing on the pump housing with the projections on the housings aligned.



7. Grease the plunger seal, then install it over the plungers.
8. Install the dowel pins in the pump housing.
9. Put grease in the groove of the front cover first, then position a new O-ring on the cover.
10. Install the front cover on the pump housing with the projections aligned.
11. Install the four bolts. Torque them to the specified torque in the sequence shown.

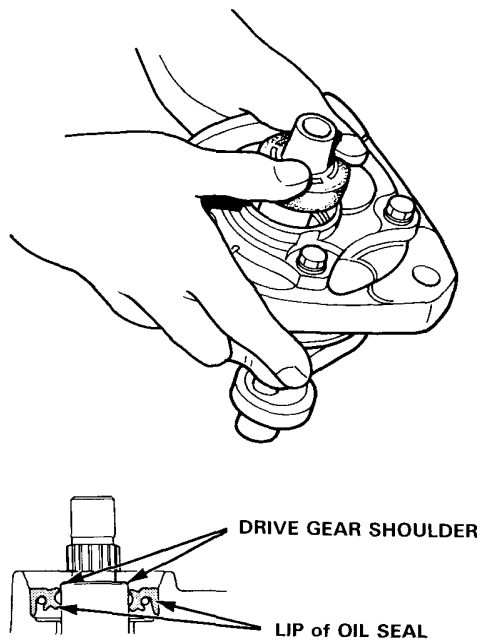


12. Grease the end cover seal guide then install it over the drive gear.



13. Install the oil seal by hand.

NOTE: Remove the special tool if the lip of the oil seal is over the drive gear shoulder.



14. Drive in the oil seal with special tool.

