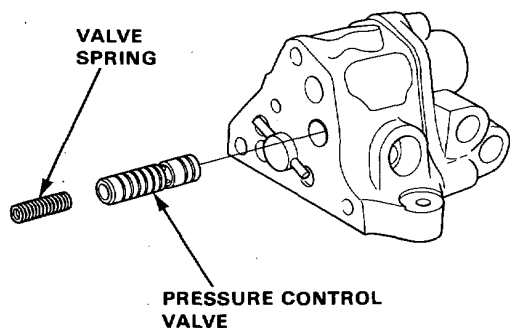




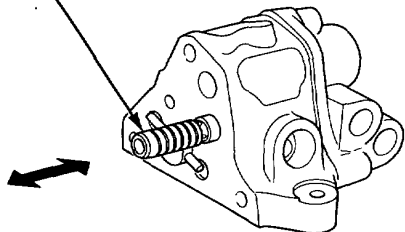
4. Remove the pressure control valve and spring from the valve body.



5. Check the pressure control valve:

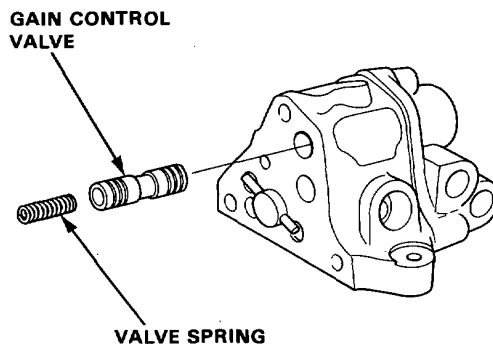
- Inspect its surface for scoring or scratches.
- Slip it back into the valve body, and make sure it slides smoothly without drag and without side play.

PRESSURE CONTROL VALVE
Check for scoring or scratches, and rough operation.



NOTE: If the valve body is damaged, replace the valve body unit (valve body, pressure control valve, gain control valve, control valve) as an assembly.

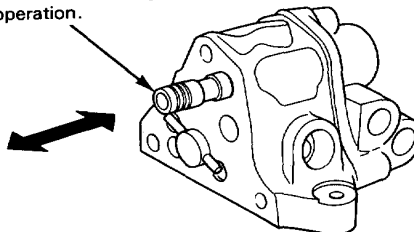
6. Remove the gain control valve and spring from the valve body.



7. Check the gain control valve:

- Inspect its surface for scoring or scratches.
- Slip it back into the valve body and make sure it slides smoothly without drag and without side play.

GAIN CONTROL VALVE
Check for scoring, scratches, or rough operation.



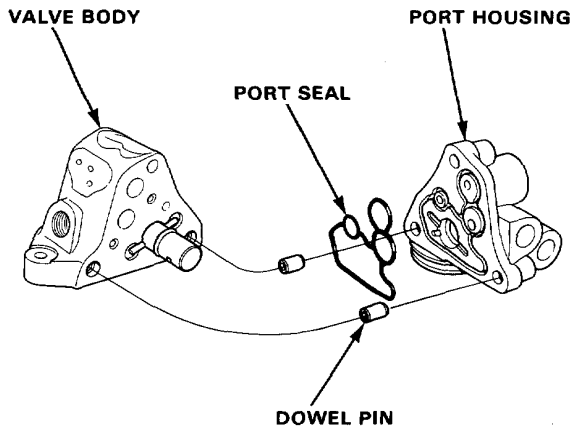
NOTE: If the valve body is damaged, replace the valve body unit (valve body, pressure control valve, gain control valve, control valve) as an assembly.

(cont'd)

Steering Gearbox

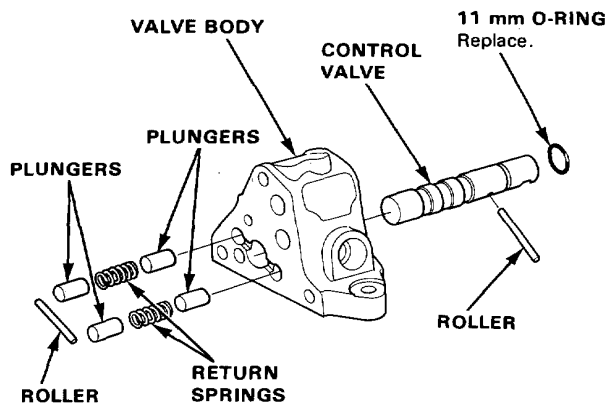
Valve Body Unit Overhaul (cont'd)

8. Separate the valve body and port housing.
9. Remove the seal and dowel pins from the port housing.



10. Remove the rollers from the control valve by pushing the valve out one side of the valve body, and then the other.

NOTE: When removing the rollers, hold the plungers with your fingers to keep them from popping out.

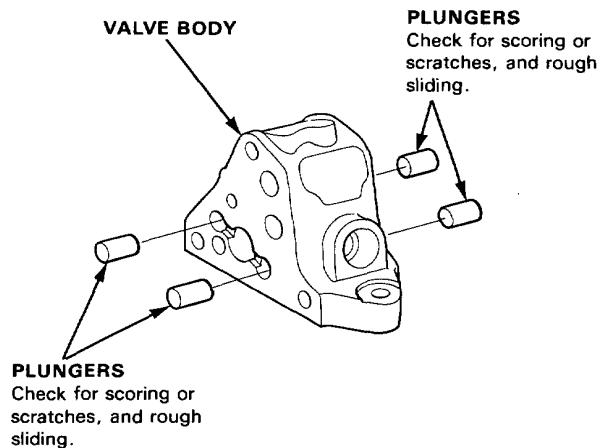


11. Remove the plungers, return springs and control valve from the valve body.
12. Remove the 11 mm O-ring from the control valve.

13. Check the plungers.

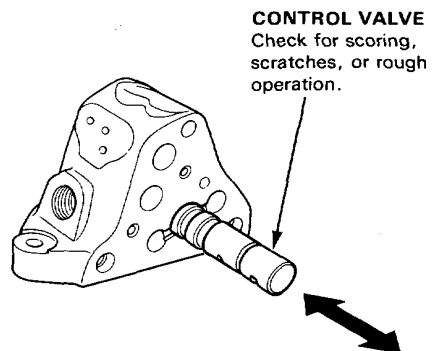
- Inspect their surface for scoring or scratches.
- Slip each plunger into the valve body, and make sure it slides smoothly, without drag or side play. If any plunger is damaged, replace it.

NOTE: If the valve body is damaged, replace all three parts (valve body, cut-off valve and control valve) as a set.



14. Check the control valve.

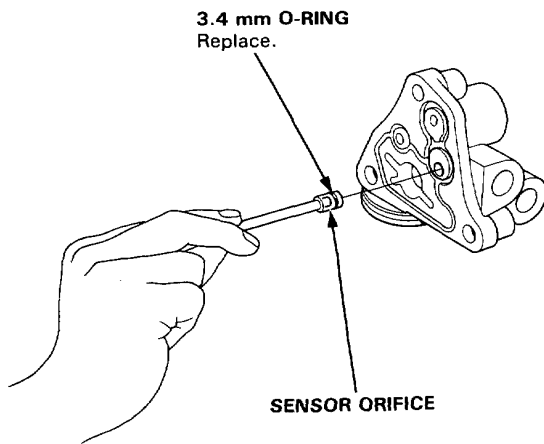
- Inspect its surface for scoring or scratches.
- Slip it into the valve body, and make sure it slides smoothly, without drag or side play.



NOTE: If the valve body is damaged, replace the valve body unit (valve body, pressure control valve, gain control valve, control valve) as an assembly.



15. Using a 3 mm (1/64") drill bit, remove the sensor orifice and 3.4 m O-ring.



Steering Gearbox

Valve Body Unit Overhaul

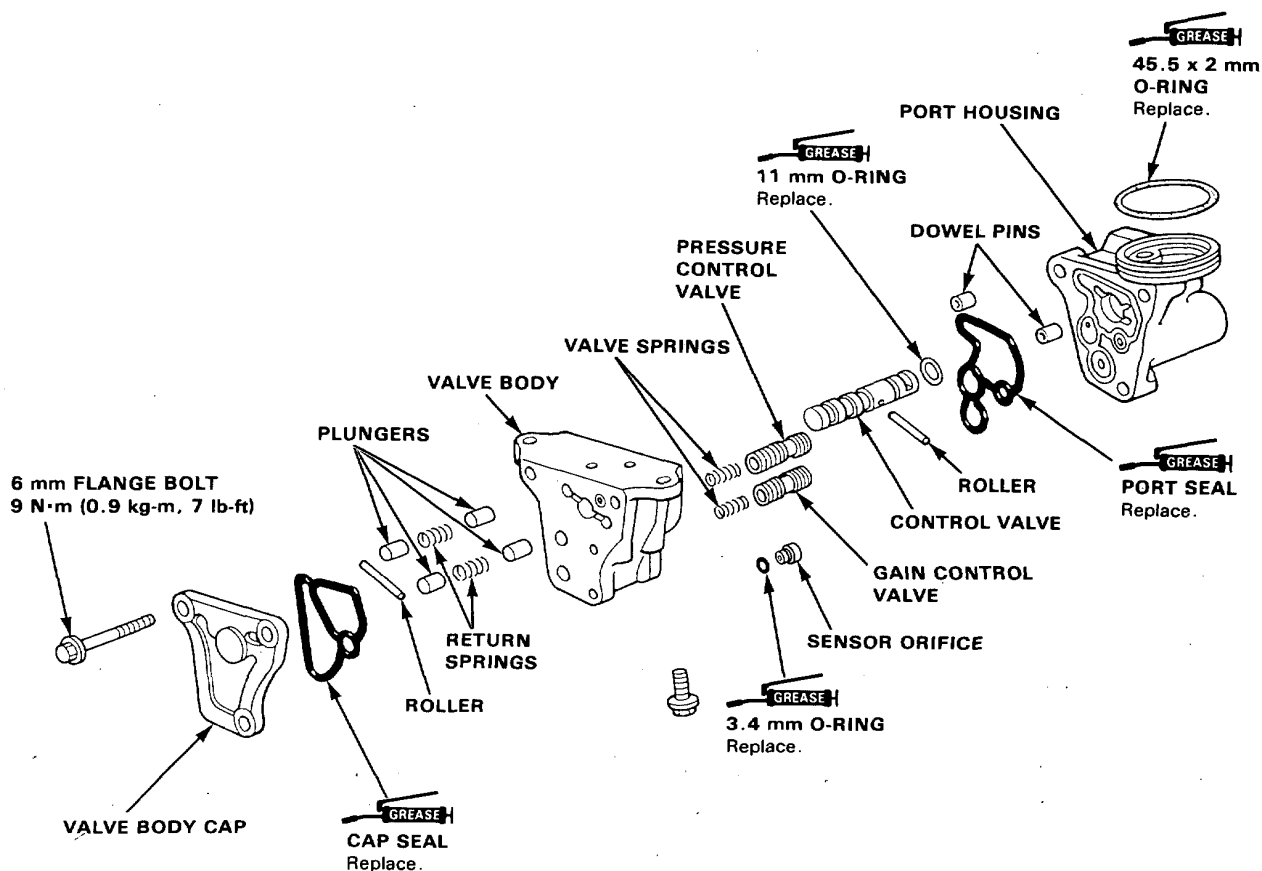
Assembly:

1. Thoroughly clean the disassembled parts shown below.
2. Coat the plungers, pressure control valve, gain control valve and control valve surfaces with power steering fluid.
3. Reassemble the parts in the reverse order of disassembly.

CAUTION:

- Replace the O-rings and seals with new ones.
- Do not dip the O-rings and seals in solvent.
- Apply grease in the seal grooves to keep the seals in place.
- Apply grease to new O-rings to keep them in place.

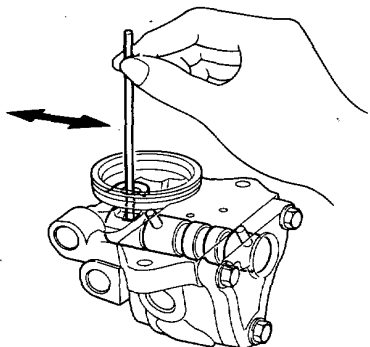
-  **STEERING GREASE** Part Number 08733-B070E



NOTE: If the valve body is damaged, replace the valve body unit (valve body, pressure control valve, gain control valve, control valve) as an assembly.



4. Make sure the control valve moves smoothly, and returns to neutral position.

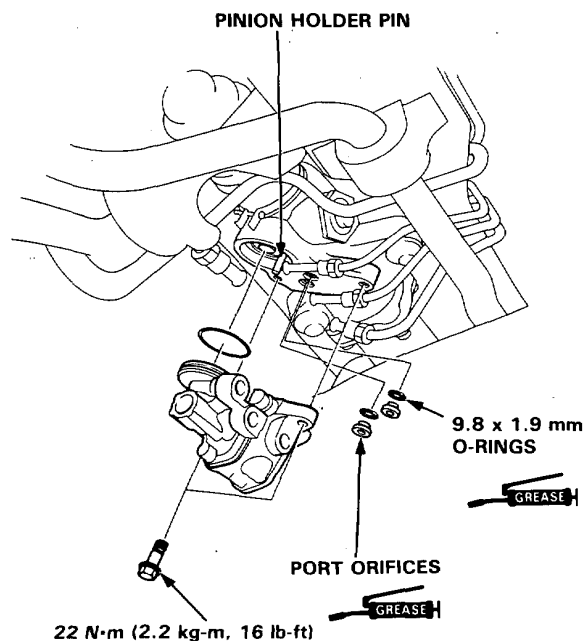


Installation:

1. Coat the 9.8 x 1.9 mm O-rings with grease, and install them together with the orifices.
2. Install the valve body unit on the gear housing with the two 8 mm bolts.

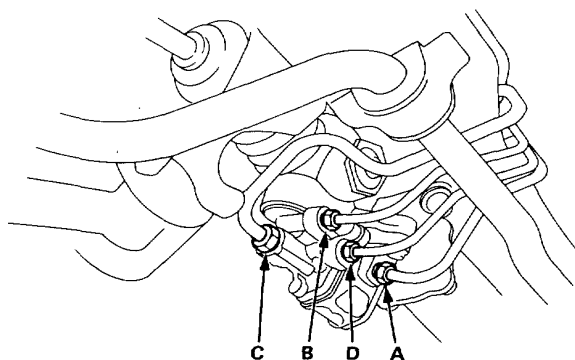
CAUTION:

- When installing, be careful not to hit the pinion holder pin.
- Make sure the O-rings are in place and not pinched.

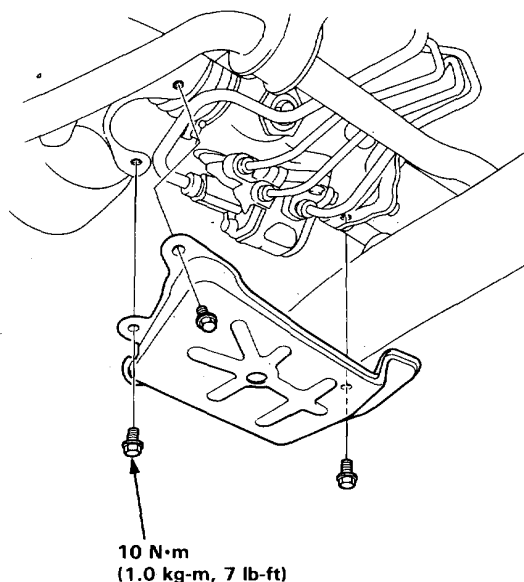


3. Connect the four lines to the control unit, using flare nut wrenches.

- A: From pump: 14 mm wrench
38 N·m (3.8 kg-m, 28 lb-ft)
- B: To oil cooler: 12 mm wrench
13 N·m (1.3 kg-m, 9 lb-ft)
- C: To reservoir: 17 mm wrench
29 N·m (2.9 kg-m, 21 lb-ft)
- D: To speed sensor: 12 mm wrench
13 N·m (1.3 kg-m, 9 lb-ft)



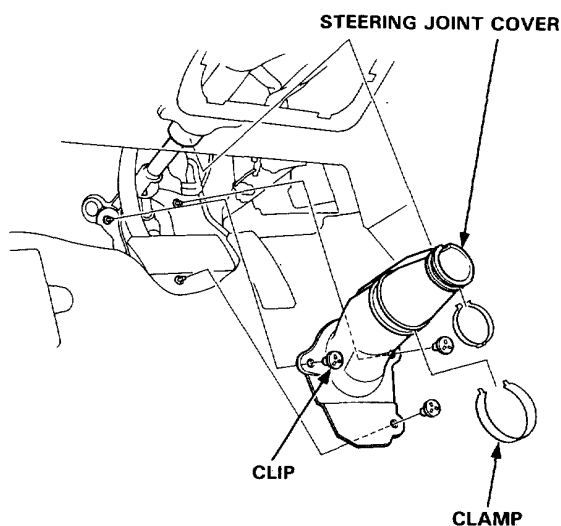
4. Fill the reservoir with power steering fluid and bleed air from the system by turning the steering wheel from lock to lock several times with the engine warm.
5. Make sure there are no fluid leaks, then install the shield.
6. Recheck the fluid level in the reservoir.



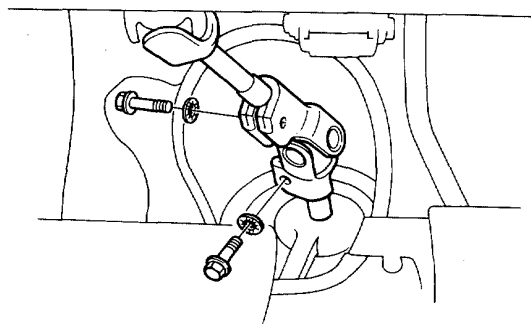
Steering Gearbox

Removal

1. Drain the power steering fluid as described on page 11-19.
2. Raise the front of car and support on safety stands in the proper locations.
3. Remove the front wheels.
4. Remove the steering joint cover.



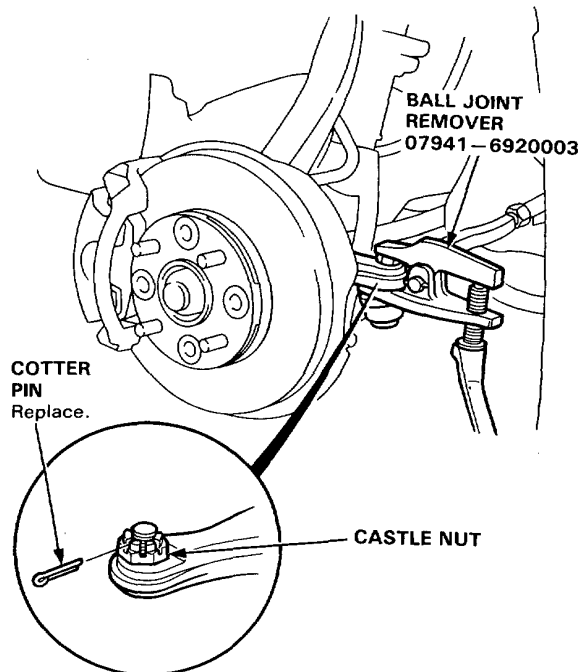
5. Remove the steering joint bolts, and move the joint toward the column.



6. Disconnect the tie rods from the steering knuckles using the special tool shown.

CAUTION: Avoid damaging the ball joint boot.

NOTE: If necessary, apply penetrating type lubricant to loosen the ball joint.



7. Remove the gear box shield.

