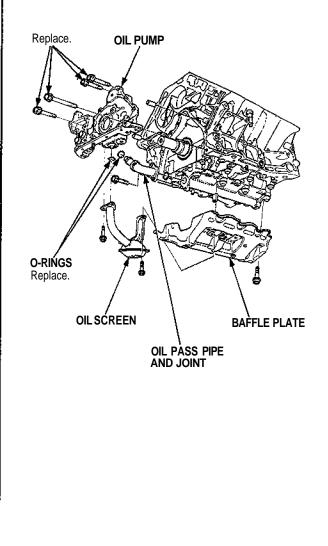
Oil Pump

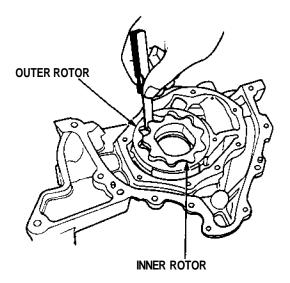
Removal/Inspection/Installation

- 1. Drain the engine oil.
- 2. Remove the timing belt (see page 6-15('91-'93)or('94-'96)).
- 3. Remove the dipstick and the pipe.
- 4. Remove the oil filter assembly.
- 5. Remove the oil pan.
- 6. Remove the oil screen.
- 7. Remove the baffle plate,
- 8. Remove the oil pass pipe and the joint.
- 9. Remove the mounting bolts and the oil pump assembly.



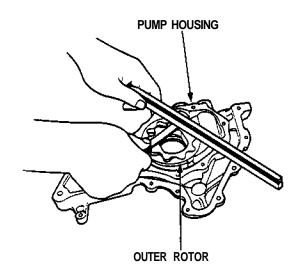
- 10. Remove the nine screws from the pump housing, then separate the housing and cover.
- 11. Check the inner-to-outer rotor radial clearance.

Inner-to-Outer Rotor Radial Clearance Standard (New): 0.05 – 0.21 mm (0.002 – 0.008 in) Service Limit: 0.23 mm (0.009 in)



12. Check the housing-to-rotor axial clearance.

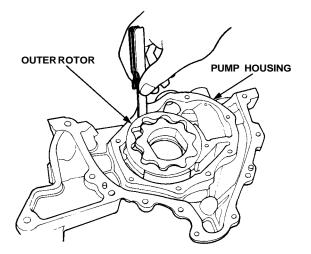
Housing-to-Rotor Axial Clearance Standard (New): 0.02 - 0.07 mm (0.001 - 0.003 in) Service Limit: 0.12 mm (0.005 in)





13. Check the housing-to-outer rotor radial clearance.

Housing-to-Rotor Radial Clearance Standard (New): 0.11 - 0.20 mm (0.004 - 0.008 in) Service Limit: 0.21 mm (0.008 in)



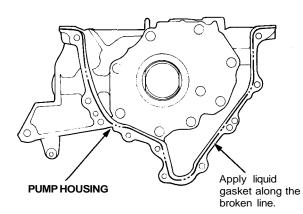
- 14. Inspect both rotors and the pump housing for scoring or other damage. Replace the oil pump assembly if necessary.
- 15. Remove the old oil seal from the oil pump.
- 16. Gently tap in the new oil seal until the special tool bottoms on the pump.



- 17. Reassemble the oil pump. Apply liquid thread-lock to the pump housing screws.
- 18. Check that the oil pump turns freely.
- 19. Apply a light coat of oil to the seal lip.
- 20. Install the two dowel pins and new O-ring on the cylinder block.
- 21. Apply liquid gasket to the cylinder block mating surface of the oil pump.

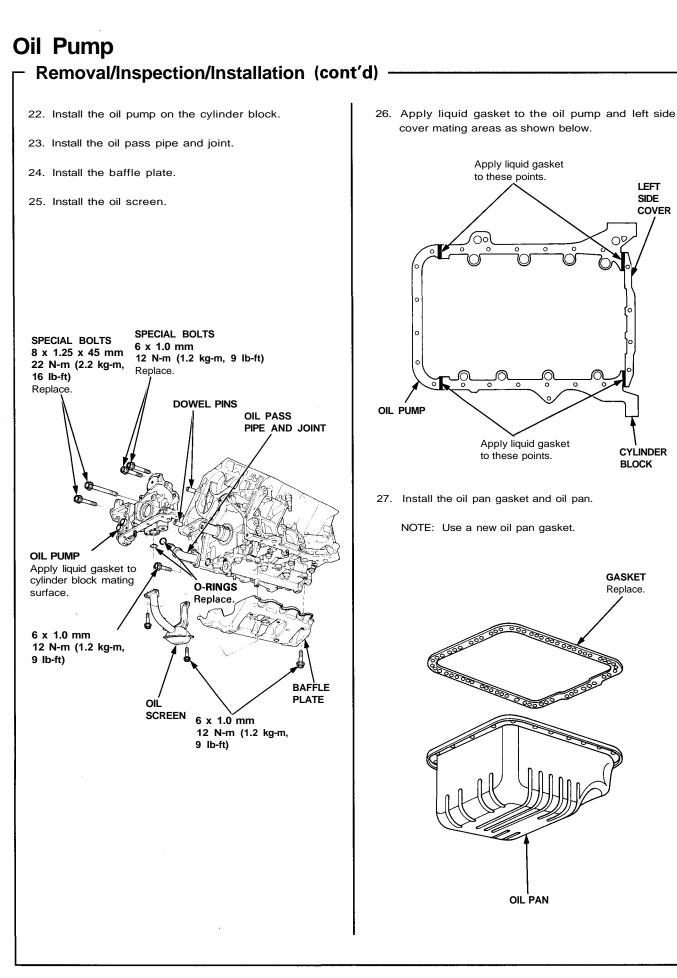
NOTE:

- Use liquid gasket, Part No. 08718-0001.
- Check that the mating surfaces are clean and dry before applying liquid gasket.
- Apply liquid gasket evenly, in a narrow bead centered on the mating surface.
- To prevent leakage of oil, apply liquid gasket to the inner threads of the bolt holes.



- Do not install the parts if five minutes or more have elapsed since applying liquid gasket. Instead reapply liquid gasket after removing old residue.
- After assembly, wait at least 20 minutes before filling the engine with oil.

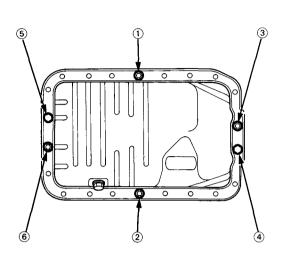
(cont'd)



8-10



28. Tighten bolts and nuts finger tight at six points as shown below.



29. Starting with nut ① torque all bolts and nuts, in a clockwise pattern in three steps.

NOTE: Excessive tightening can cause distortion of oil pan gasket and oil leakage.

Torque: 14 N-m (1.4 kg-m, 10 lb-ft)