ОК

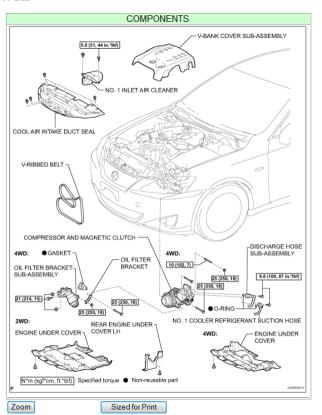
Information Charge | Conversion Calculator

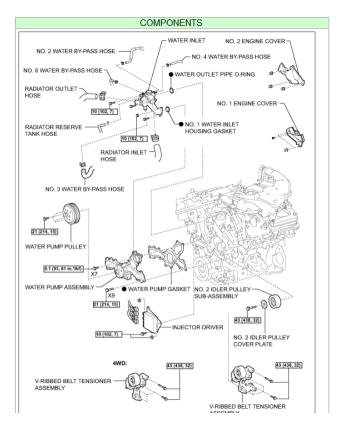
2007 Lexus IS 250 RWD V6-2.5L (4GR-FSE)

Vehicle Level → Engine, Cooling and Exhaust → Cooling System → Water Pump → Service and Repair ←

Service and Repair

WATER PUMP





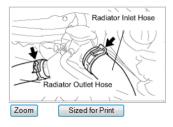


REMOVAL

- REMOVE COOL AIR INTAKE DUCT SEAL REMOVE V-BANK COVER SUB-ASSEMBLY REMOVE NO. 1 INLET AIR CLEANER 2. 3.
- DISCHARGE REFRIGERANT FROM REFRIGERATION SYSTEM

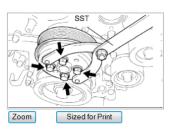
- REMOVE V-RIBBED BELT
 REMOVE ENGINE UNDER COVER
 REMOVE REAR ENGINE UNDER COVER LH (for 2WD)
- 8. 9.
- 10.
- DRAIN ENGINE COOLANT
 DRAIN ENGINE COOLANT
 DRAIN ENGINE OIL
 REMOVE OIL FILTER BRACKET (for 4WD)
 REMOVE OIL FILTER BRACKET SUB-ASSEMBLY (for 4WD)
 REMOVE NO. 1 COOLER REFRIGERANT SUCTION HOSE

- 14. 15.
- REMOVE NO. I COOLER REFRIGERANT SUCTION HOSE
 DISCONNECT DISCHARGE HOSE SUB-ASSEMBLY
 REMOVE COMPRESSOR AND MAGNETIC CLUTCH (for 2WD)
 REMOVE COMPRESSOR AND MAGNETIC CLUTCH (for 4WD)
 REMOVE V-RIBBED BELT TENSIONER ASSEMBLY



17. DISCONNECT RADIATOR HOSE

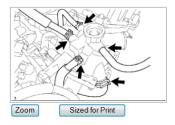
- a. Disengage the 2 clamps and disconnect the radiator inlet hose and radiator outlet hose.
- REMOVE NO. 1 ENGINE COVER 18.
- REMOVE INJECTOR DRIVER 19.
- REMOVE NO. 2 ENGINE COVER



21. REMOVE WATER PUMP PULLEY

- a. Using SST, hold the water pump pulley. SST 09960-10010 (09962-01000, 09963-00700)
- b. Remove the 4 bolts and water pump pulley.

22. REMOVE WATER INLET

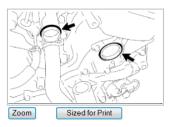


a. Disconnect the 5 hoses.

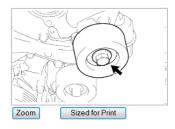




b. Remove the 4 bolts, nut and water inlet.

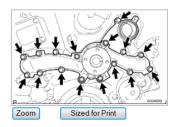


c. Remove the water inlet housing gasket and water outlet pipe O-ring.



23. REMOVE NO. 2 IDLER PULLEY SUB-ASSEMBLY

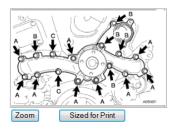
a. Remove the bolt, No. 2 idler pulley cover plate and No. 2 idler pulley sub-assembly.



24. REMOVE WATER PUMP ASSEMBLY

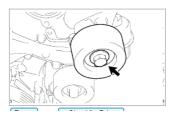
a. Remove the 16 bolts, water pump assembly and water pump gasket.

INSTALLATION

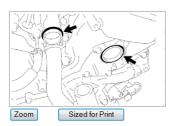


1. INSTALL WATER PUMP ASSEMBLY

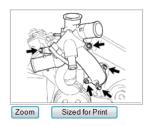
- a. Install a new water pump gasket and the water pump assembly with the 16 bolts. Torque: 21 Nm (214 kgf-cm, 15 ft. lbs.) for bolts A 9.1 Nm (93 kgf-cm, 81 inch lbs.) for bolts B and C NOTICE:
- Be sure to replace 2 bolts C with new ones or reuse them after applying adhesive 1344.
- Make sure that there is no oil on the threads of the A bolts.



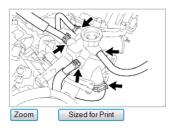
- 2. INSTALL NO. 2 IDLER PULLEY SUB-ASSEMBLY
 - a. Install the pulley and cover plate with the bolt. Torque: 43 Nm (438 kgf-cm, 32 ft. lbs.)
- 3. INSTALL WATER INLET



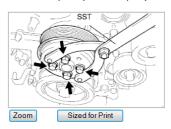
a. Install a new water inlet housing gasket No. 1 and water outlet pipe O-ring.



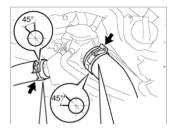
b. Install the water inlet with the 4 bolts and nut. Torque: 10 Nm (102 kgf-cm, 7 ft. lbs.) NOTICE: Be careful not to allow the O-ring to get caught between parts.

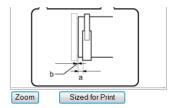


- c. Connect the 5 hoses.
 - 4. INSTALL WATER PUMP PULLEY
 - a. Temporarily install the pulley with the 4 bolts.



- b. Using SST, hold the pulley and tighten the 4 bolts. SST 09960-10010 (09962-01000, 09963-00700) Torque: 21 Nm (214 kgf-cm, 15 ft. lbs.)
- 5. INSTALL NO. 2 ENGINE COVER6. INSTALL INJECTOR DRIVER7. INSTALL NO. 1 ENGINE COVER





8. CONNECT RADIATOR HOSE

- a. Connect the <u>radiator</u> inlet hose and radiator outlet hose to the radiator assembly and secure them with the clips. **HINT**:
- Make sure that the claws on the clips are positioned as shown in the illustration.
- Dimension a in the illustration (between the hose end and the clip end) should be less than 1.0 to 5.0 mm.
 Connect the hoses until they make contact with each stopper. (Dimension b should be less than 2.5 mm).

- 9. INSTALL V-RIBBED BELT TENSIONER ASSEMBLY
 10. INSTALL COMPRESSOR AND MAGNETIC CLUTCH (for 2WD)
 11. INSTALL COMPRESSOR AND MAGNETIC CLUTCH (for 4WD)
 12. INSTALL OIL FILTER BRACKET SUB-ASSEMBLY (for 4WD)
 13. INSTALL OIL FILTER BRACKET (for 4WD)
 14. CONNECT DISCHARGE HOSE SUB-ASSEMBLY
 15. CONNECT NO. 1 COOLER REFRIGERANT SUCTION HOSE
 16. INSTALL V-RIBBED BELT
 17. INSTALL V-RIBBED BELT
 18. INSTALL V-RIBBED

- INSTALL REAR ENGINE UNDER COVER LH (for 2WD)
- INSTALL ENGINE UNDER COVER
- 20. 21. 22.

- INSTALL ENGINE UNDER COVER
 INSTALL NO. 1 INLET AIR CLEANER
 CONNECT BATTERY TERMINAL
 ADD ENGINE OIL
 ADD ENGINE COOLANT
 CHECK FOR ENGINE OIL LEAKS
 CHECK FOR ENGINE COOLANT LEAKAGE
- CHARGE REFRIGERANT

- 26. START ENGINE
 27. CHECK FOR LEAKAGE OF REFRIGERANT
 28. INSTALL V-BANK COVER SUB-ASSEMBLY
 29. INSTALL COOL AIR INTAKE DUCT SEAL