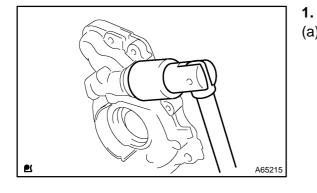
OVERHAUL

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(2)

(1)

(IIIIIIIII)

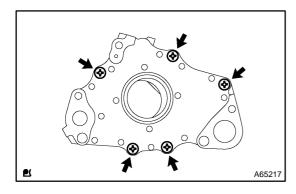
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2.

REMOVE OIL PUMP RELIEF VALVE

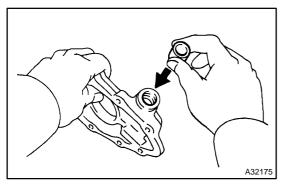
(a) Using a 28 mm socket wrench, remove the oil pump relief plug.

- (b) Remove the oil pump relief valve spring and oil pump relief valve.
 - (1) Oil pump relief valve spring
 - (2) Oil pump relief valve



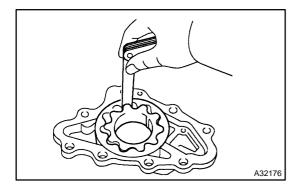
INSPECT OIL PUMP ASSY

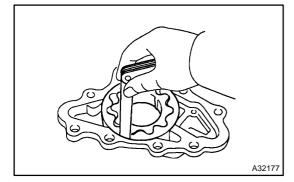
(a) Remove 5 screws and oil pump cover.

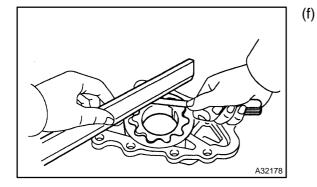


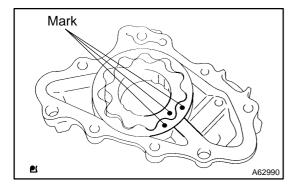
- (b) Inspect oil pump relief valve.
 - Coat the valve with engine oil and check that it falls smoothly into the valve hole by its own weight.
- (c) Inspect oil pump rotor sub-assembly.
 - Coat the oil pump gear set with engine oil and place them into the oil pump body. Check that the rotors revolves smoothly.

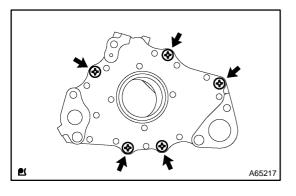
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- (d) Inspect rotor tip clearance.
 - (1) Using a feeler gauge, measure the clearance between the drive and driven rotor tips.

Standard tip clearance: 0.060 – 0.180 mm (0.0024 – 0.0071 in.) Maximum tip clearance: 0.35 mm (0.0138 in.)

- (e) Inspect body clearance.
 - (1) Using a feeler gauge, measure the clearance between the driven rotor and body.

Standard body clearance: 0.125 – 0.180 mm (0.0049 – 0.0071 in.) Maximum body clearance: 0.325 mm (0.0128 in.)

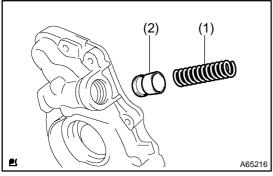
- Inspect rotor side clearance.
 - (1) Using a feeler gauge and precision straight edge, measure the clearance between the rotors and precision straight edge.

Standard side clearance: 0.030 – 0.080 mm (0.0012 – 0.0032 in.) Maximum side clearance: 0.16 mm (0.0063 in.)

- (g) Install oil pump rotor sub-assembly.
 - Coat the oil pump gear set with engine oil and place it into pump body with the marks facing the pump body cover side.

(h) Install the oil pump cover with 5 screws. Torque: 10 N·m (105 kgf cm, 8.0 ft lbf)

2003 COROLLA MATRIX (RM940U)



3. INSTALL OIL PUMP RELIEF VALVE

- (a) Install the oil pump relief valve spring and oil pump relief valve.
 - (1) Oil pump relief valve spring
 - (2) Oil pump relief valve
- (b) Using a 28 mm socket wrench, install the oil pump relief valve plug.

Torque: 49 N·m (500 kgf·cm, 36 ft·lbf)

