

INSPECTION

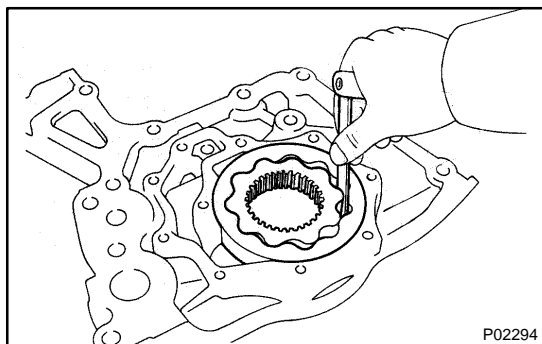
1. INSPECT RELIEF VALVE

Coat the valve with engine oil and check that it falls smoothly into the valve hole under its own weight.

If it doesn't, replace the relief valve. If necessary, replace the oil pump assembly.

2. INSPECT ROTORS

(a) Place the rotors into the oil pump body (See page [LU-11](#)).



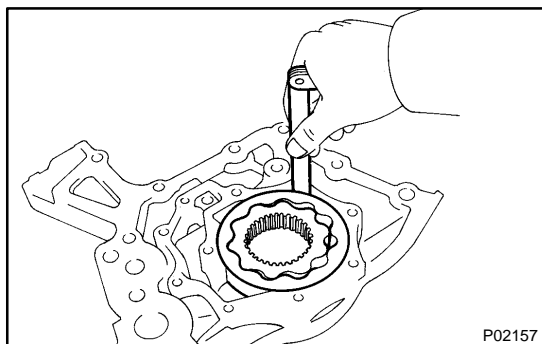
(b) Inspect the rotors for the tip clearance. Using a feeler gauge, measure the clearance between the drive and driven rotors.

Standard tip clearance:

0.060 - 0.240 mm (0.0024 - 0.0094 in.)

Maximum tip clearance: 0.30 mm (0.0118 in.)

If the tip clearance is greater than maximum, replace the rotors as a set.



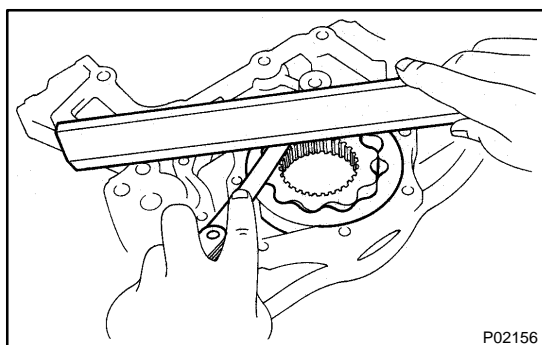
(c) Inspect the rotor for the body clearance. Using a feeler gauge, measure the clearance between the driven rotor and pump body.

Standard body clearance:

0.100 - 0.175 mm (0.0039 - 0.0069 in.)

Maximum body clearance: 0.20 mm (0.0079 in.)

If the body clearance is greater than maximum, replace the rotors as a set. If necessary, replace the oil pump assembly.



(d) Inspect the rotors for the side clearance. Using a feeler gauge and precision straight edge, measure the clearance between the rotors and precision straight edge.

Standard side clearance:

0.030 - 0.090 mm (0.0012 - 0.0035 in.)

Maximum side clearance: 0.12 mm (0.0047 in.)

If the side clearance is greater than maximum, replace the rotors as a set. If necessary, replace the oil pump assembly.

(e) Remove the rotors.