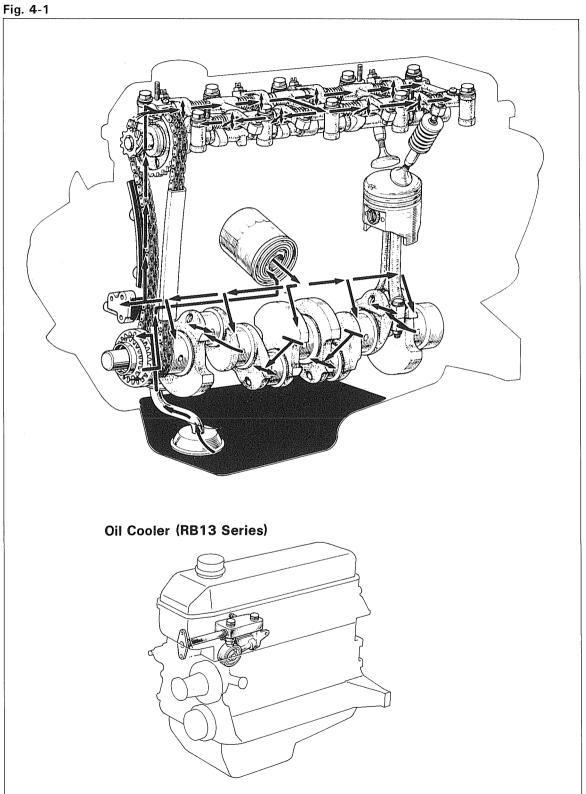
# **LUBRICATION SYSTEM**

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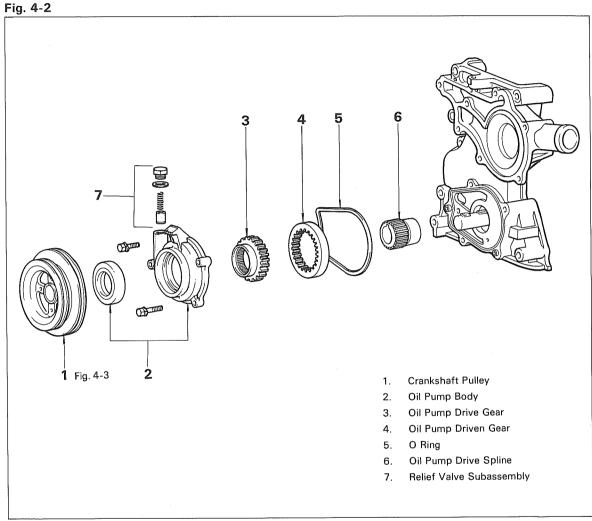
## **LUBRICATION SYSTEM CIRCUIT**



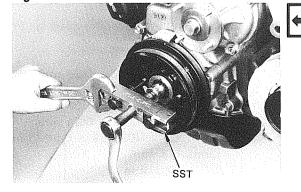
### **OIL PUMP**

#### DISASSEMBLY

Disassemble the parts in the numerical order shown in the figure.

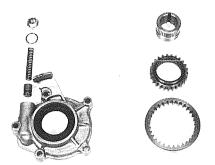






Remove the crankshaft pulley with SST. SST [09213-31021]

Fig. 4-4

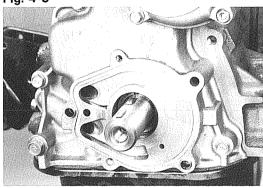




#### **INSPECTION & REPAIR**

Check the disassembled parts for wear or damage.

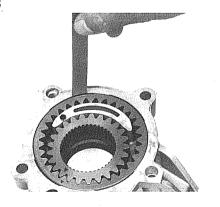
Fig. 4-5





Check the contact surfaces of the timing chain cover for wear or damage.

Fig. 4-6





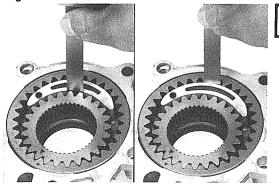
Measure the body clearance.

If it exceeds limit, replace the gear and/or body.

#### **Body clearance:**

STD 0.09 - 0.15 mm (0.0035 - 0.0059 in.) Limit 0.20 mm (0.0079 in.)

Fig. 4-7





Measure the tip clearance.

If it exceeds limit, replace the gears and/or body.

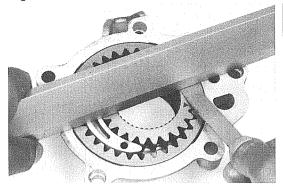
#### Tip clearance:

STD Drive 0.22 - 0.25 mm (0.0087 - 0.0098 in.)

Driven 0.15 - 0.21 mm (0.0059 - 0.0083 in.)

Limit 0.3 mm (0.012 in.)

Fig. 4-8





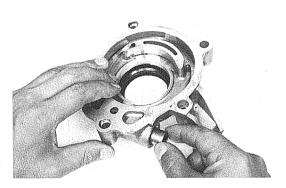
Measure the side clearance.

If it exceeds limit, replace the gears and/or body.

#### Side clearance:

STD 0.03 - 0.09 mm (0.0012 - 0.0035 in.) Limit 0.15 mm (0.0059 in.)

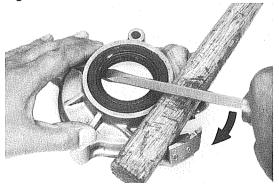
Fig. 4-9





Check the relief valve for wear or scoring and see if it slides smoothly.



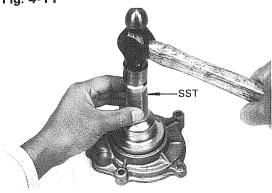




Replace the crankshaft front oil seal.

1. Remove the oil seal with a screwdriver.





**♦** 

2. Install a new oil seal with SST. SST [09223-50010]

#### - Note -

- 1. Drive in the oil seal until it is about even with the oil pump body.
- 2. Be careful not to drive it in slantwise.
- 3. After driving in the seal, coat the seal lip lightly with MP grease.

#### **ASSEMBLY**

Assemble the parts in the numerical order shown in the figure.

Fig. 4-12

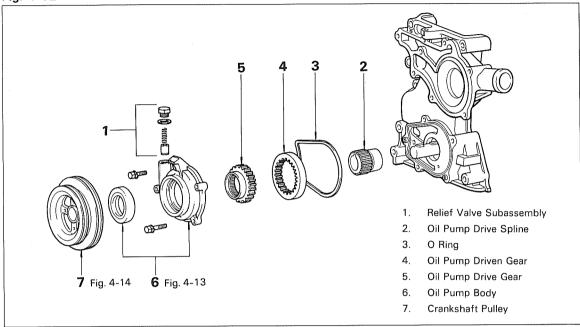
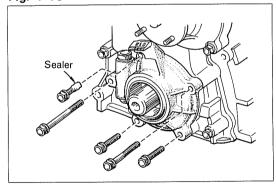


Fig. 4-13

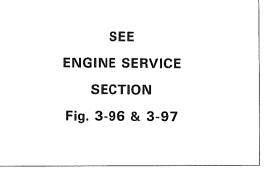




Apply the sealer to the upper bolt and tighten five bolts.

Tightening torque: 1.7 - 2.3 kg-m (13 - 16 ft-lb)

Fig. 4-14



Install the crankshaft pulley.