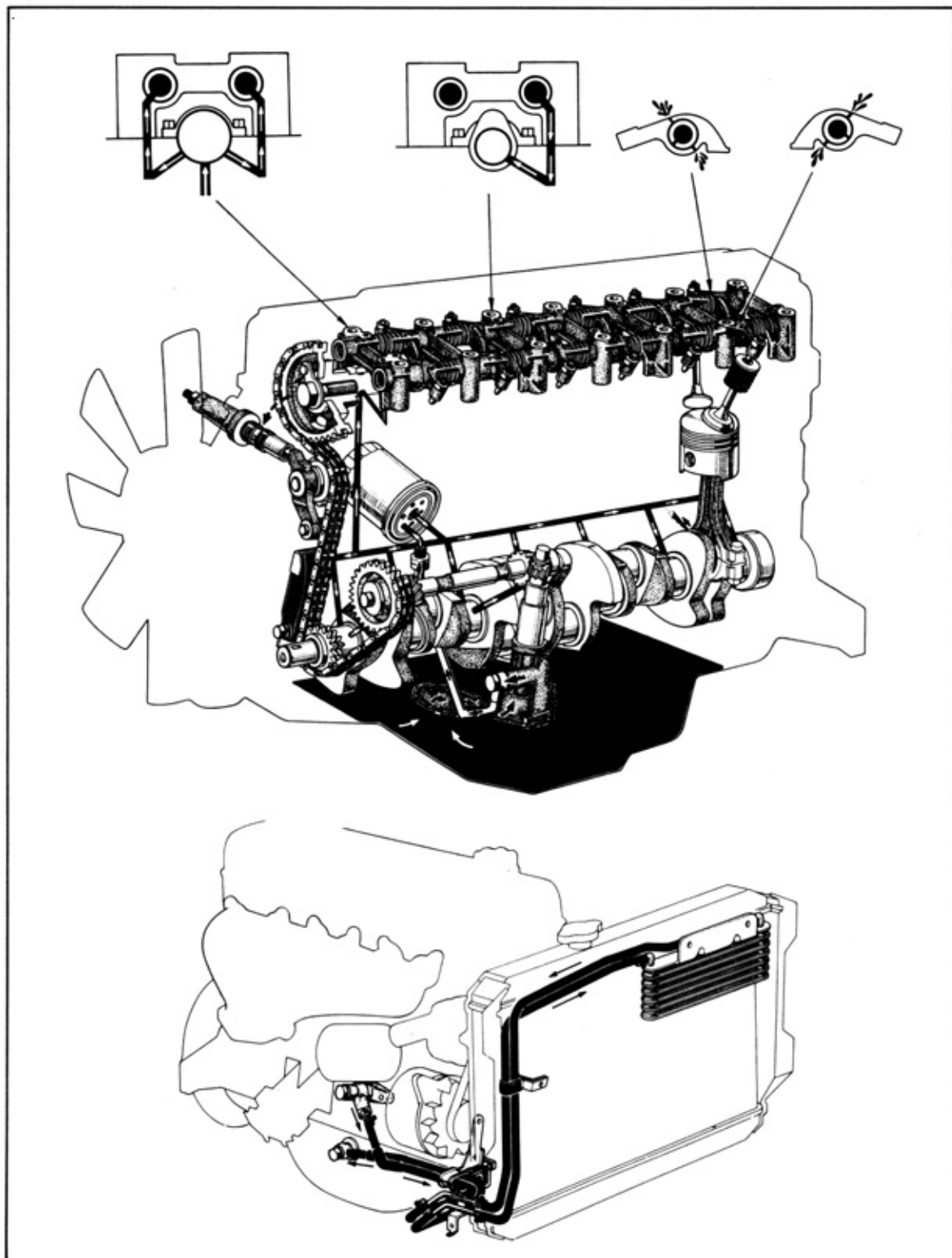


# LUBRICATING SYSTEM

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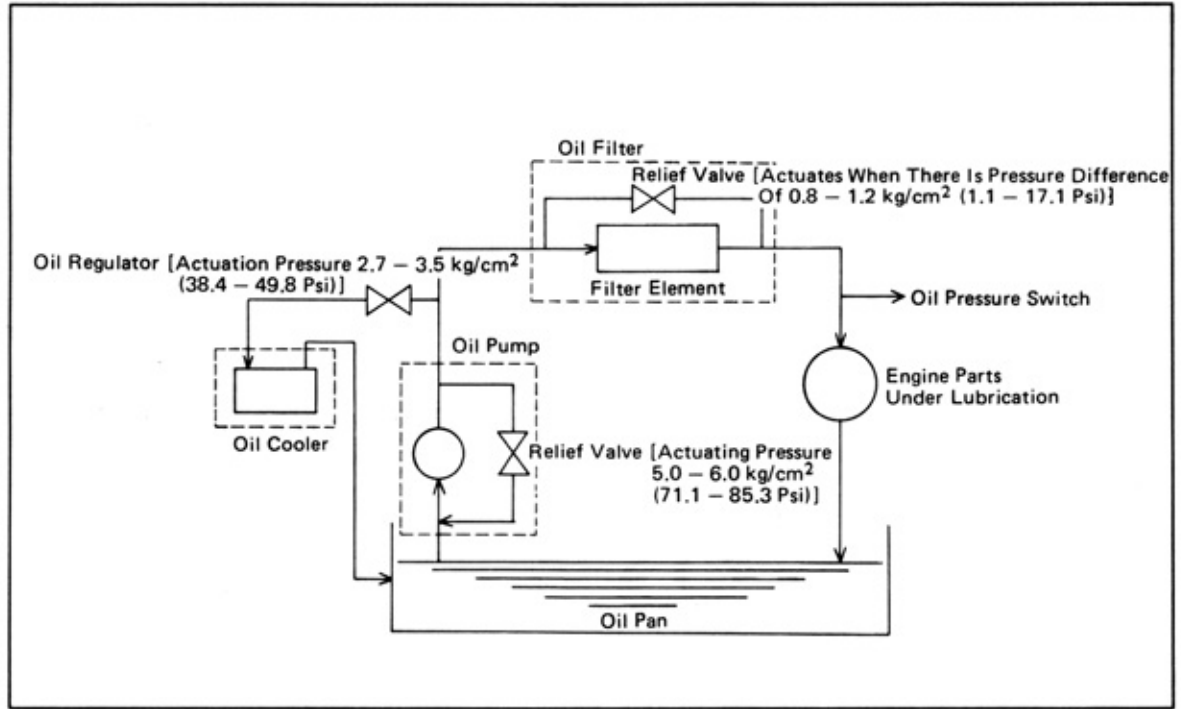
## LUBRICATING SYSTEM DIAGRAM

Fig. 4-1



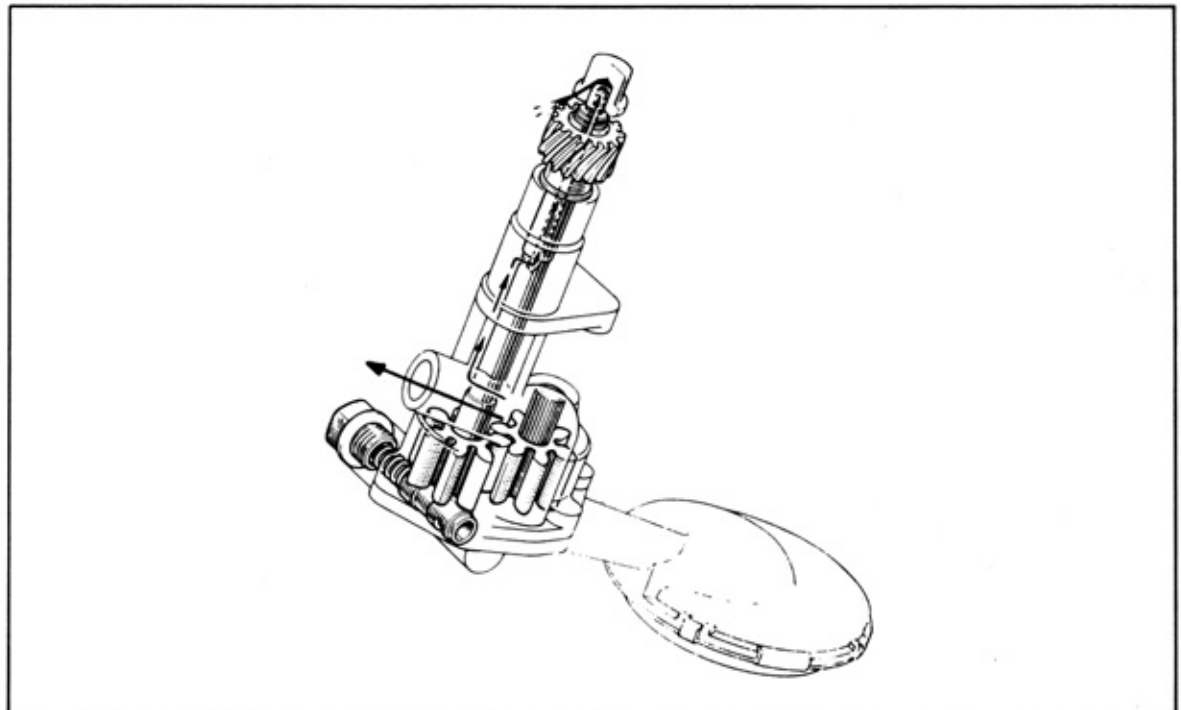
## LUBRICATING SYSTEM CIRCUIT DIAGRAM

Fig. 4-2



## OIL PUMP

Fig. 4-3



## DISASSEMBLY

Disassemble in numerical order.

Fig. 4-4

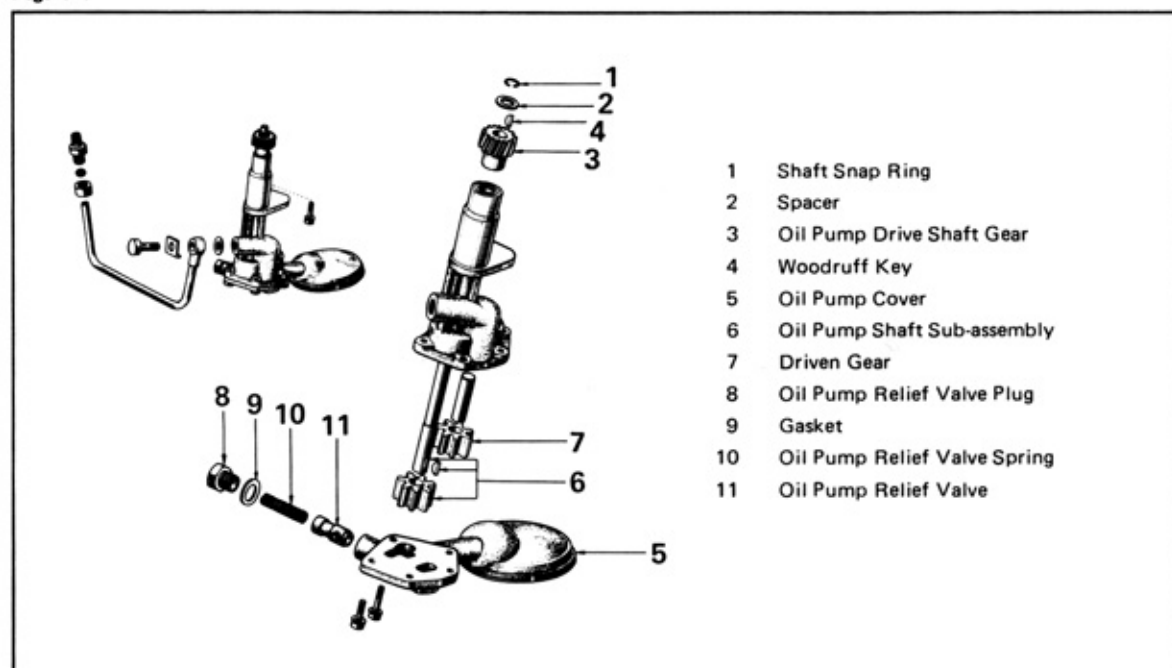
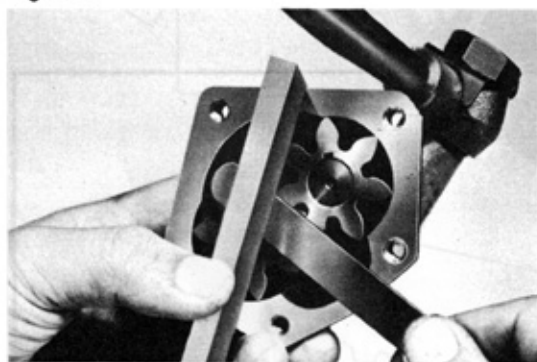


Fig. 4-5



## INSPECTION

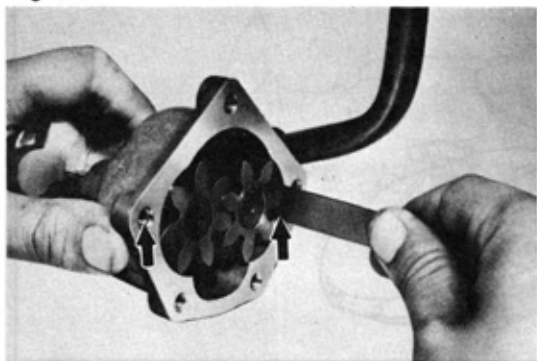
**Side Clearance**

Measure the clearance between gear and cover mounting surface. If clearance exceeds the limit, replace gear or oil pump body.

**Side Clearance**

<b>Limit</b>	<b>0.15 mm (0.0059 in.)</b>
<b>Standard</b>	<b>0.03 to 0.09 mm (0.0012 to 0.0035 in.)</b>

Fig. 4-6

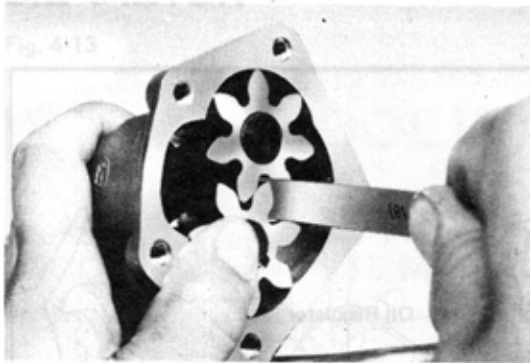
**Body Clearance**

Measure the clearance between gear teeth and body. If clearance exceeds the limit, make replacement

**Body Clearance**

<b>Limit</b>	<b>0.2 mm (0.008 in.)</b>
<b>Standard</b>	<b>0.03 to 0.06 mm (0.0012 to 0.0024 in.)</b>

Fig. 4-7

**Backlash**

Measure the Backlash between the drive gear and driven gear.

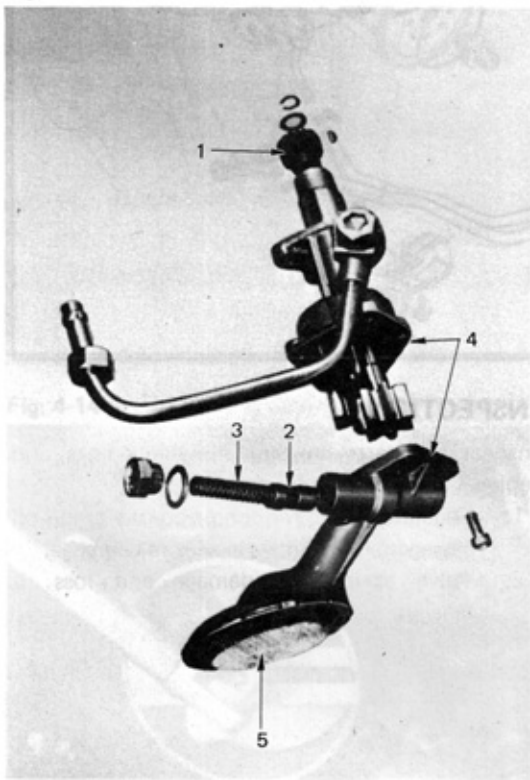
**Backlash**

**Limit** 0.9 mm (0.035 in.)

**Standard** 0.5 to 0.6 mm

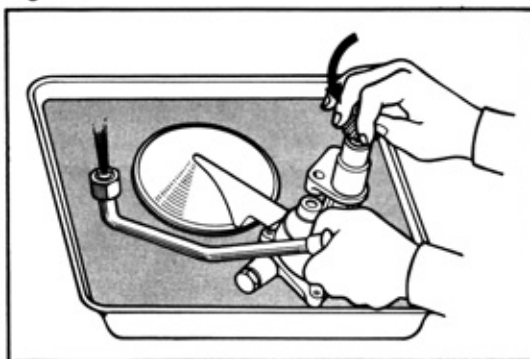
(0.020 to 0.024 in.)

Fig. 4-8

**Body & Cover**

1. Inspect the drive shaft gear for excessive wear and damage.
2. Inspect the relief valve fit. Inspect oil passages and sliding surfaces for injureies.
3. Inspect the relief valve spring for loss of tension.
4. Inspect the body and cover for wear and cracks.
5. Inspect the oil strainer for clog and damage.

Fig. 4-9

**Pump Operation Check**

Oil should discharge out from the pump outlet when the pump inlet end is immersed in engine oil and the pump shaft turned clockwise.

## OIL COOLER AND REGULATOR

Fig. 4-10

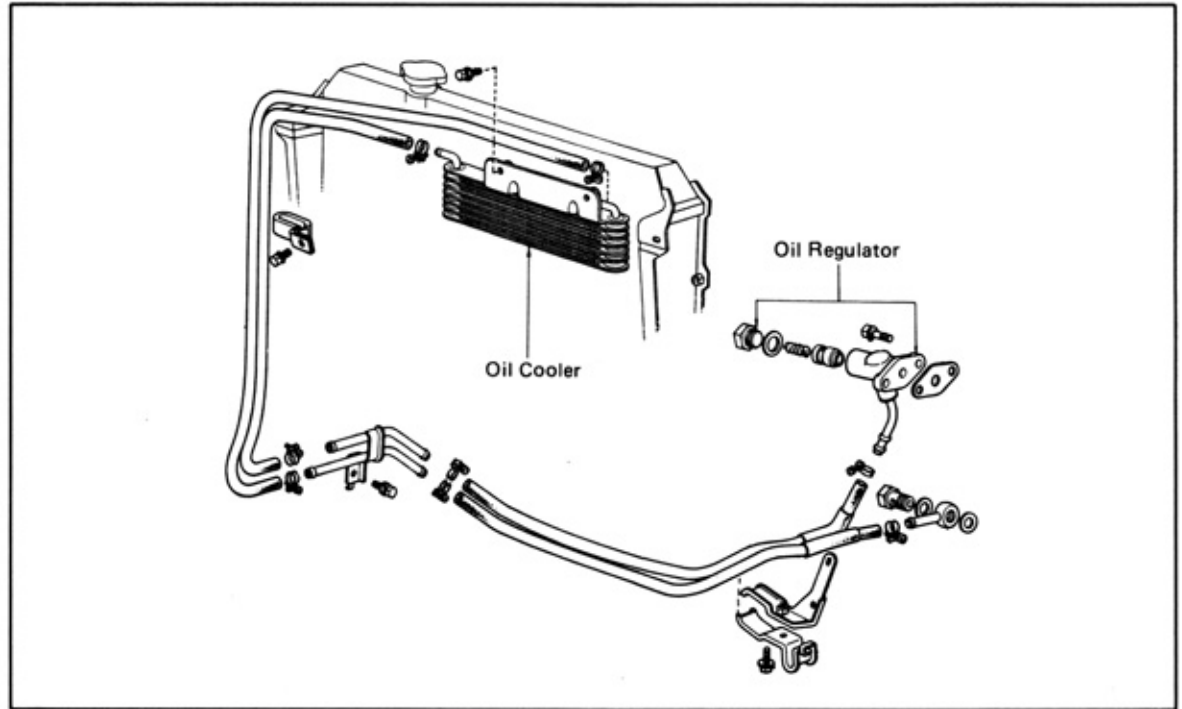
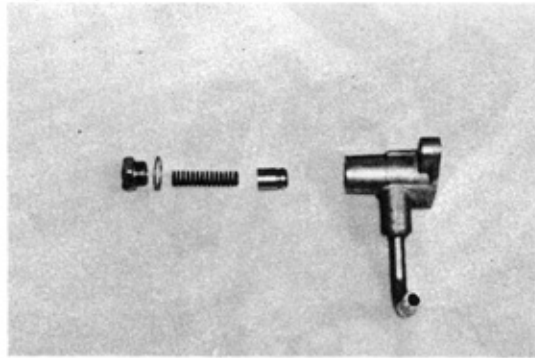


Fig. 4-11

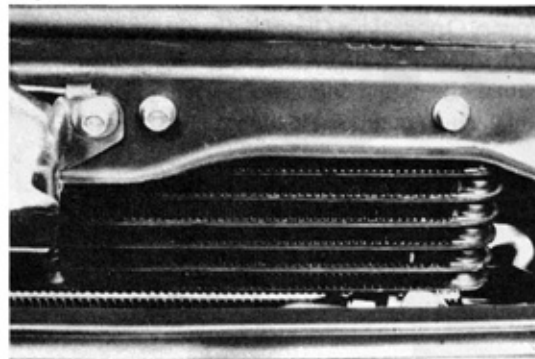


### INSPECTION

Inspect the parts on the following points, and replace any part found defective.

1. Regulator, valve for condition of fit, and oil passages and sliding surfaces for damage.
2. Valve spring for damage and loss of tension.

Fig. 4-12



3. Oil cooler for damage and oil leakage.
4. Hoses for cracks and damages.

## OIL FILTER

Fig. 4-13

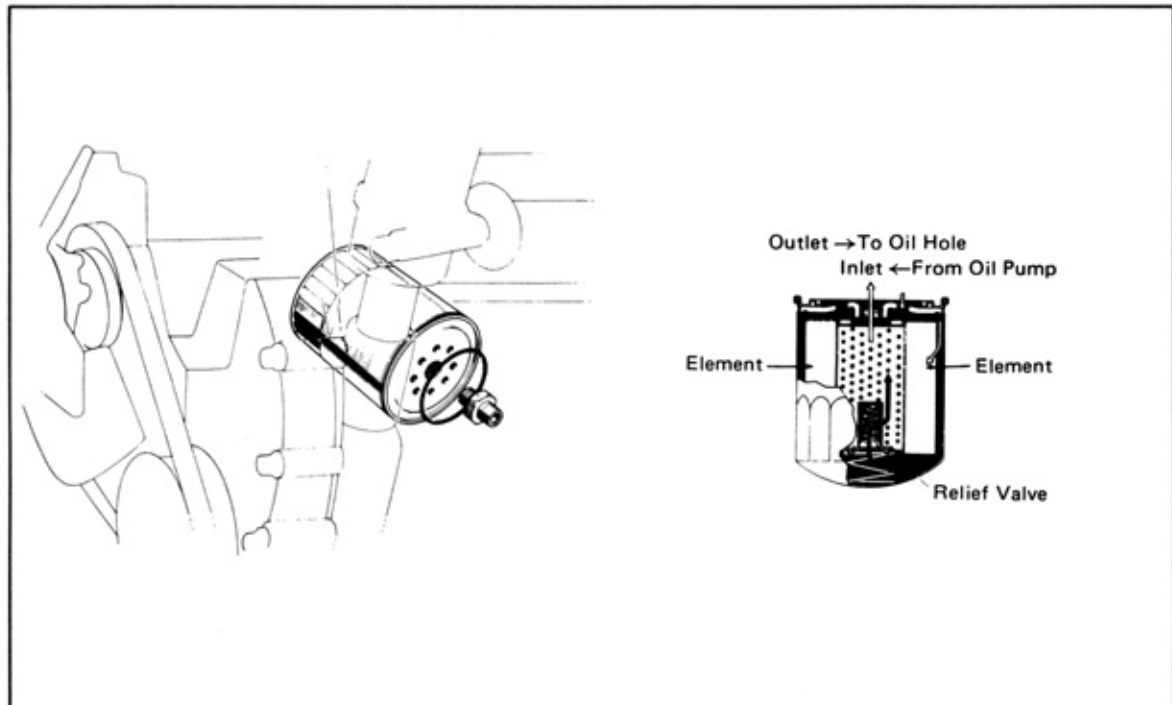
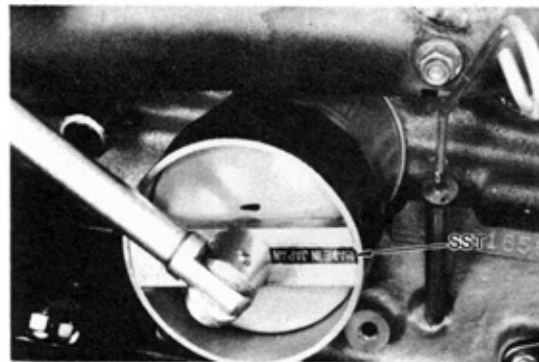


Fig. 4-14

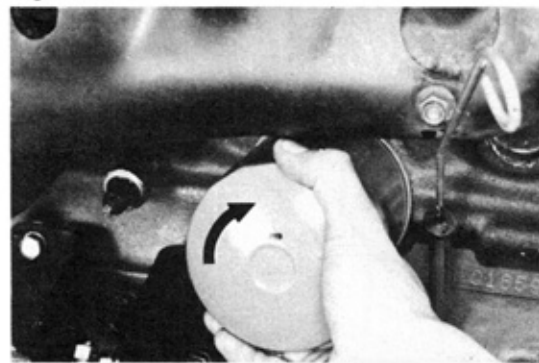


### REMOVAL



Remove the oil filter with SST [09228-44010].

Fig. 4-15



### INSTALLATION



Tighten the oil filter by hand.

– Note –

After installing, turn the engine and check the oil filter for oil leakage.

**MEMO**

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