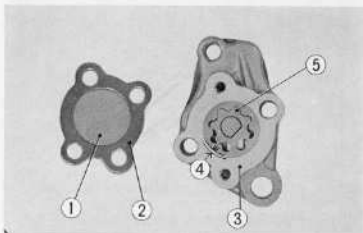


**Fig. 3.75 A** Gear oil pump  
 ① Oil pump cover  
 ② Oil pump cover gasket  
 ③ Oil pump body  
 ④ Oil pump gear



**Fig. 3.75 B** Trochoid oil pump  
 ① Oil pump cover  
 ② Oil pump cover gasket  
 ③ Oil pump body  
 ④ Outer rotor to pump body clearance  
 ⑤ Inner rotor

- The removal of the two 5mm screws will disassemble the oil pump. (Fig. 3.75)

### C. Inspection

- The normal capacity of the oil pump is 1200 cc (73.22 cu in)/minute @ 4000 rpm; if the capacity falls below 1000 cc (61.02 cu in), there is a danger of developing engine seizure, therefore, the pump should be repaired or replaced. [Trochoid pump: 1400 cc (85.43 cu in)/min @ 8000 rpm]
- Clearances of component parts

#### Gear Type

| Item            | Standard Value                     | Serviceable Limit                      |
|-----------------|------------------------------------|--|
| Gear to housing | 0.05~0.09<br>(0.0020~0.0035 in)    | Replace if over<br>0.15<br>(0.0059 in) |
| Gear backlash   | 0.0940~0.188<br>(0.0037~0.0074 in) | Replace if over<br>0.30<br>(0.0118 in) |

#### Trochoid Type

| Item  | Standard Value               | Serviceable Limit                   |
|---|------------------------------|-------------------------------------|
| Gear to housing                               | 0.02~0.07<br>(0.0008~0.0028) | Replace if over<br>0.12 (0.0047 in) |
| Outer rotor<br>pump body (A)<br>(Fig. 3.75 B) | 0.1~0.14<br>(0.0039~0.0055)  | Replace if over<br>0.2 (0.0079 in)  |

### D. Reassembly

- Assemble the oil pump and install on to the right crankcase.
- Install the clutch assembly and the right crankcase cover in accordance with procedure outlined in section 3.8D.