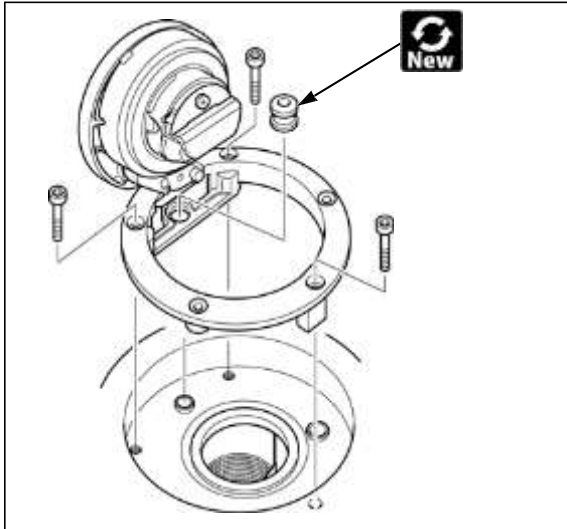




### FUEL FILLER CAP



- A pressure release can be heard when opening the fuel cap, but this is not blockage of the passage. If checking for clog in the passage of the fuel tank side is necessary, apply air pressure to the breather hose end with the fuel filler cap opened.



- If remove the fuel filler cap, replace the breather seal with a new one.

## LUBRICATION SYSTEM GENERAL

### ⚠ CAUTION

Used engine oil may cause skin cancer if repeatedly left in contact with the skin for prolonged periods. Although this is unlikely unless you handle used oil on a daily basis, it is still advisable to thoroughly wash your hands with soap and water as soon as possible after handling used oil.

## TROUBLESHOOTING

### Engine oil level too low

- Oil consumption
- External oil leak
- Worn piston rings
- Incorrect piston ring installation
- Worn cylinder
- Worn valve guide
- Worn valve stem seal

### Oil contamination

- Oil not changed often enough
- Faulty cylinder head gasket
- Worn piston rings



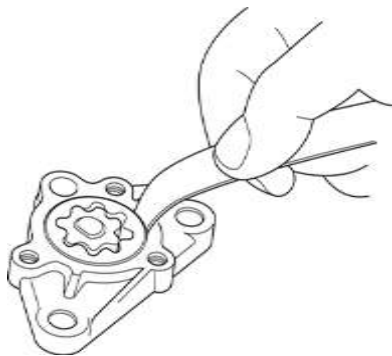
## OIL PUMP INSPECTION

### NOTE:

- Measure each clearance at several points and use the largest reading to compare the service limit.
- If any portion of the oil pump is worn beyond the service limit, replace the oil pump as an assembly.

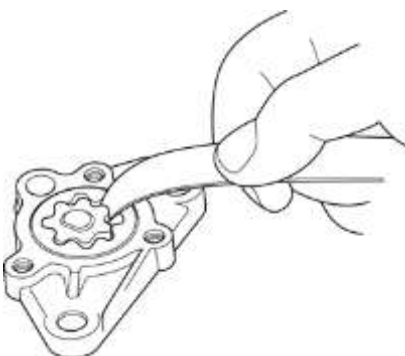
#### Body clearance

Oil pump body and outer rotor:



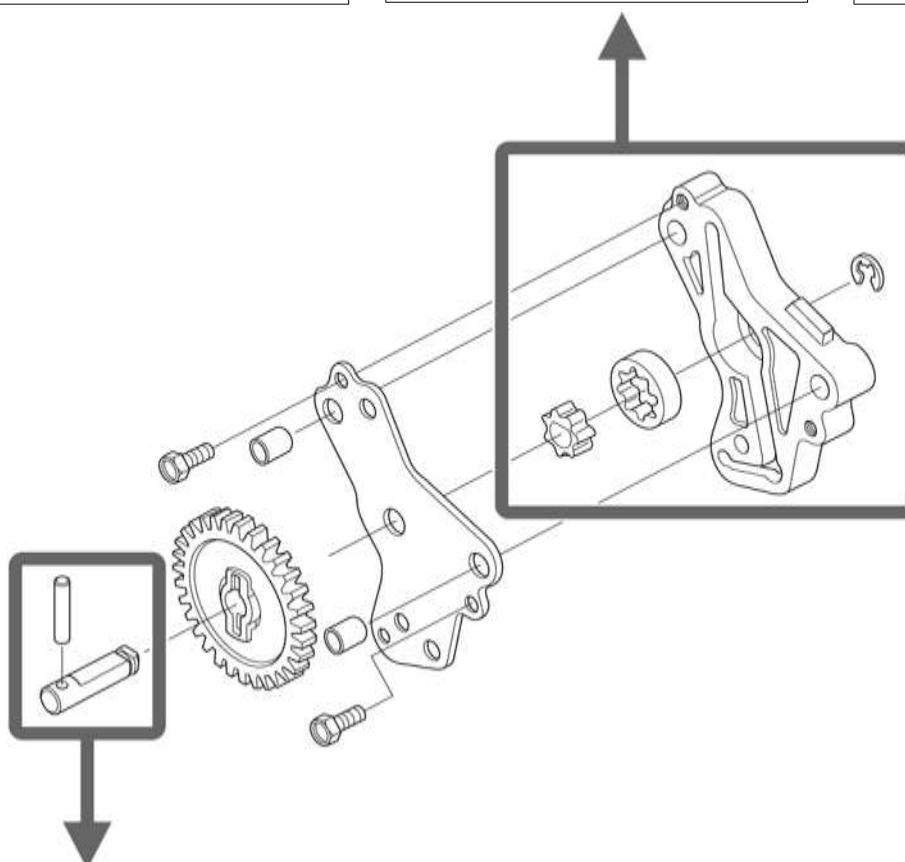
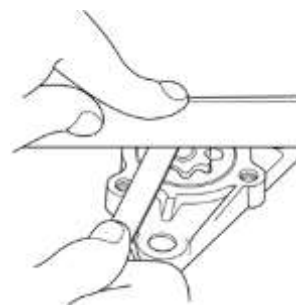
#### Tip clearance

Inner rotor and outer rotor:



#### Side clearance

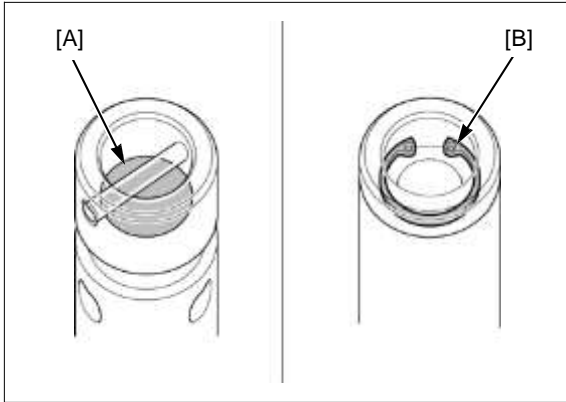
Oil pump body, inner rotor and outer rotor:



Oil pump shaft for wear or damage



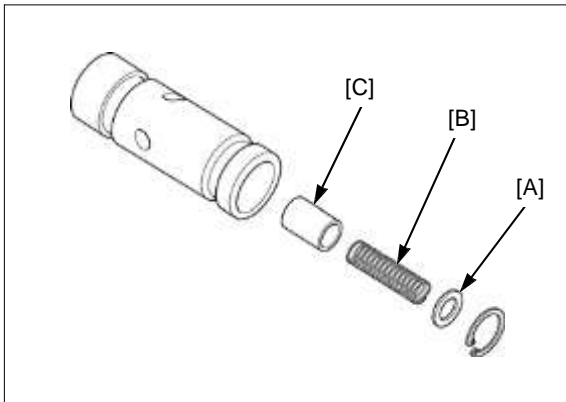
## PRESSURE RELIEF VALVE INSPECTION



- Pressure relief valve operation by pushing on the piston [A]



- Snap ring [B] (for disassembly)



- Washer [A]
- Spring [B]
- Piston [C]



- Piston for wear, sticking or damage
- Spring for fatigue or damage



## CYLINDER HEAD COMBUSTION CHAMBER OIL COOLING SYSTEM

In addition to the conventional oil passage to lubricate the camshaft area, the cylinder head combustion chamber oil cooling system employs an oil passage above combustion chamber in order to improve the cooling efficiency around the spark plug base and combustion chamber.

