

Fig. 3-8 ① By-pass valve spring
② By-pass valve

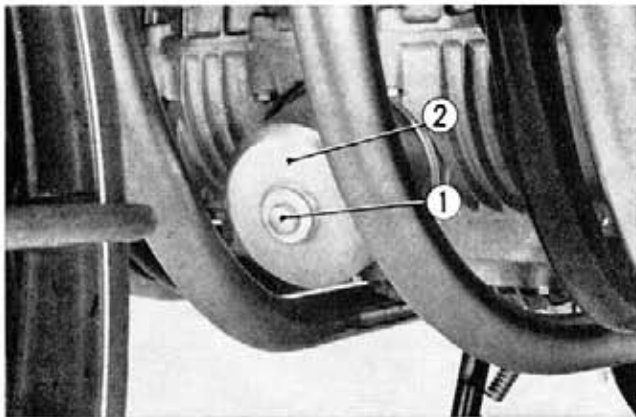


Fig. 3-9 ① Oil filter center bolt
② Oil filter case

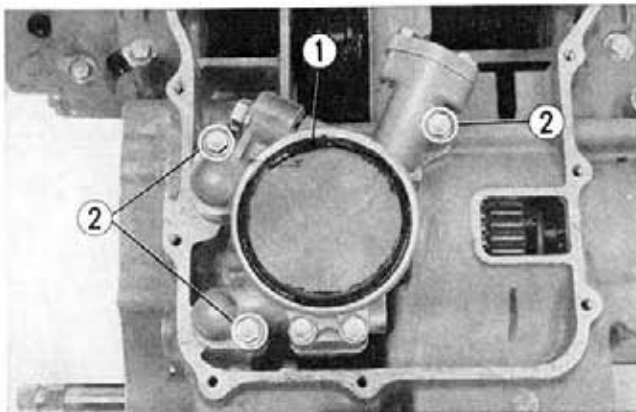


Fig. 3-10 ① Oil pump
② Oil pump mounting bolts

through the filter to be purified before being sent to the crankshaft. Filter assembly is mounted at the front of the engine with a bolt. Further, a by-pass valve is incorporated in the bolt to prevent oil stoppage when the element becomes clogged. (Fig. 3-7)

(By-pass valve)

When the element becomes clogged and the oil pump discharge pressure rises excessively, the by-pass valve opens and the oil will by-pass the filter element and flow directly into the main gallery. At $21.3 \pm 2.8 \text{ lbs/in.}^2$ ($1.5 \pm 0.2 \text{ kg/cm}^2$) pressure difference, the valve is functioned. (Fig. 3-8)

3. Oil pressure warning lamp

The red oil pressure warning lamp is located to the left side of the tachometer on the gauge. Normally the light will be on when the engine is stopped and the main key switch is turned on. However, it will go off as soon as the engine is started and oil pressure reaches 7.1 lbs/in.^2 (0.5 kg/cm^2).

If the warning light came on while riding the engine should be stopped and the cause of the problem determined.

When operating the engine under extremely high oil temperature (over 244°F , 100°C), the warning light may intermittently come on at idling speed (800~900 rpm), however, this does not indicate a problem.

4. Drive chain lubrication

The drive chain is automatically lubricated by the chain oiler equipped on the drive shaft.

The oil which is soaked into the felt oil reserve element located at the end of the drilled passage in the final drive shaft leaks out along the face of the drive sprocket by the centrifugal force to lubricate the chain.

b. Disassembly

The oil pump can be removed with the engine mounted on the frame.

1. Unscrew the oil filter center bolt from the front of the engine and take out the oil filter case. (Fig. 3-9)
2. Remove the oil pan from the lower crankcase to get access to the oil pump.
3. Unscrew the three oil pump mounting bolts and remove the oil pump. (Fig. 3-10)