

**OIL PRESSURE/LEVEL WARNING SYSTEM**

**Introduction:**

The oil pressure/level warning system has been newly installed to warn both decreased oil level and/or low oil pressure in the engine. This system includes the oil pressure/level warning light, oil pressure switch, oil level sensor, and oil level warning light switch.

The oil pressure/level warning light warns the low oil pressure and level in the engine. With the motorcycle held perpendicular to the ground, if the warning light comes on when the ignition switch is turned on and then goes off after engine starting off, both the oil pressure and oil level are normal. If the warning light goes on continuously after engine starting, it shows the low oil pressure or level, necessitating oil level and engine inspection. If the warning light comes on during riding, it shows the low oil pressure.

**Operation of Oil Pressure/Level Warning System:**

The oil pressure/level warning system is shown in Fig. N57. The oil pressure switch is on when the engine is stopped (i.e. the oil pressure is low.), and is off when the engine is running (i.e. the oil pressure is correct.). The oil level sensor is on when the oil level in the engine is correct, and is off when the oil level is low. The control circuit in the oil level warning light switch commits the oil level sensor condition (i.e. on or off) to memory when the ignition switch is turned on, and also it controls the transistor.

If the oil level is low (i.e. the oil level sensor is off.) when the ignition switch is turned on, the transistor conducts by means of the control circuit. So the oil pressure/level warning light is on, and it is on continu-

ously with no relation to the oil pressure switch condition until the correct oil level is obtained and the ignition switch is turned off.

If the oil level is correct (i.e. the oil level sensor is on.) when the ignition switch is turned on, the transistor does not conduct. So the warning light is on or off according to the oil pressure switch condition. Therefore, if the warning light is on after engine starting or comes on during riding, it shows that the oil pressure is low, and if the warning light is off engine starting, it shows that both the oil pressure and level are in good condition.

**Troubleshooting Guide:**

If trouble suspected in this system, check the system by the following "Oil Pressure/Level Warning System Troubleshooting Guide" shown in Fig. N58. This troubleshooting guide is explained on the assumption that the ignition switch, engine stop switch, fuse, and battery are in good condition. To use this chart, follow the arrows on the chart selecting a "Yes" or "No" arrow at each diamond-shaped step until you reach the "End". Each test procedure is explained individually.

**Description of Each Test Procedure:**

1. **Engine Oil Level Inspection**  
Refer to p. 306.
2. **To Check the Voltage Applied to Oil Pressure Switch**  
Refer to p. 200.
3. **Oil Pressure Switch Inspection**  
Check the oil pressure switch with engine stopped referring to p. 200.

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