

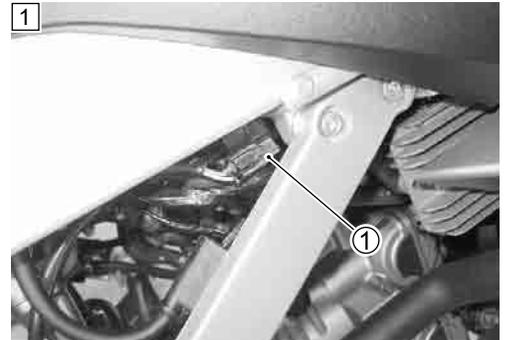
“C12” CKP SENSOR CIRCUIT MALFUNCTION

DETECTED CONDITION	POSSIBLE CAUSE
The signal does not reach ECM for 3 sec. and more, after receiving the IAP signal.	<ul style="list-style-type: none"> • Metal particles or foreign material being attached on the CKP sensor and rotor tip. • CKP sensor circuit open or short. • CKP sensor malfunction. • ECM malfunction.

INSPECTION

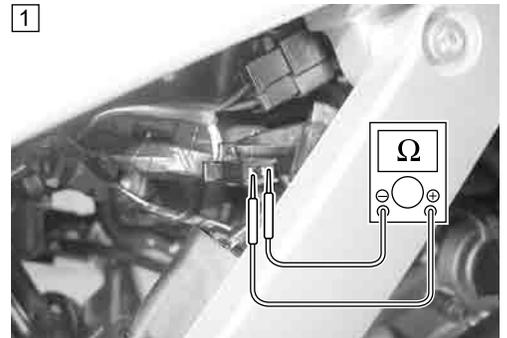
Step1

- 1) Turn the ignition switch OFF.
- 2) Check the CKP sensor coupler ① for loose or poor contacts.
If OK, then measure the CKP sensor resistance.



- 3) Disconnect the CKP sensor coupler and measure the resistance.

DATA CKP sensor resistance: 130 – 240 Ω
(White – Green)



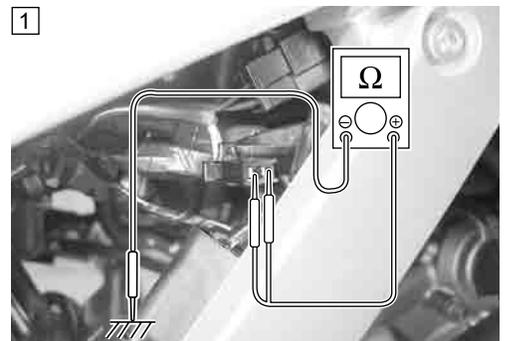
- 4) If OK, then check the continuity between each terminal and ground.

DATA CKP sensor continuity: ∞ Ω (Infinity)
(White – Ground)
(Green – Ground)

TOOL 09900-25008: Multi circuit tester set

Tester knob indication: Resistance (Ω)

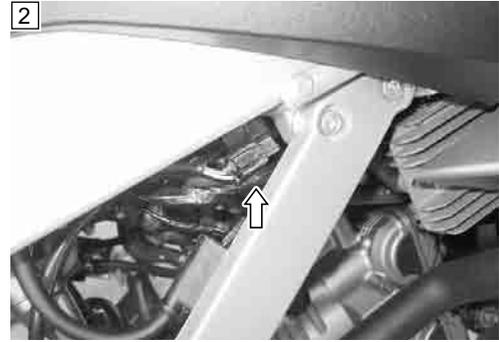
Are the resistance and continuity OK?



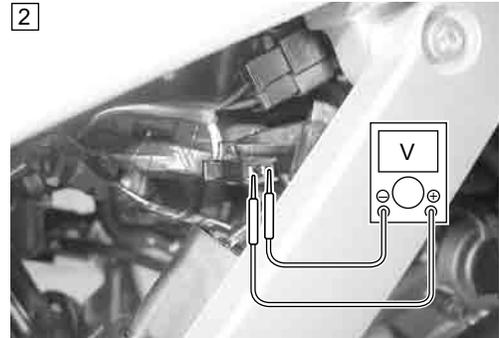
YES	Go to Step 2.
NO	Replace the CKP sensor with a new one.

Step2

1) Disconnect the CKP sensor coupler.



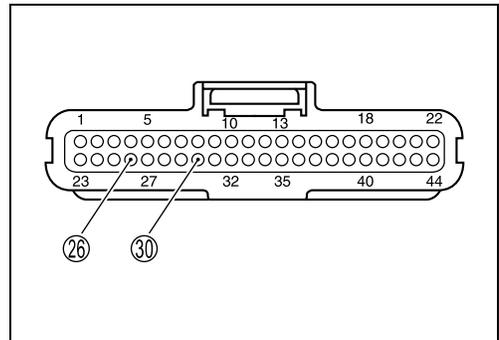
2) Crank the engine a few seconds with the starter motor, and measure the CKP sensor peak voltage at the coupler.



DATA CKP sensor peak voltage: **3.7 V and more**
 (+ White – – Green)

3) Repeat the above test procedure a few times and measure the highest peak voltage.

If OK, then measure the CKP sensor peak voltage at the ECM terminals. (26 – 30)



TOOL 09900-25008: Multi circuit tester set

Tester knob indication: voltage (---)

Is the voltage OK?

YES	<ul style="list-style-type: none"> • B/W or White wire open or shorted to ground, or poor 26 or 30 connection. • If wire and connection are OK, intermittent trouble or faulty ECM. • Recheck each terminal and wire harness for open circuit and poor connection.
NO	<ul style="list-style-type: none"> • Loose or poor contacts on the CKP sensor coupler or ECM coupler. • Replace the CKP sensor with a new one.