

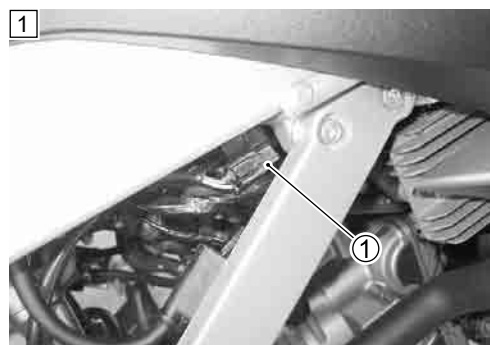
“C12” CKP SENSOR CIRCUIT MALFUNCTION

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

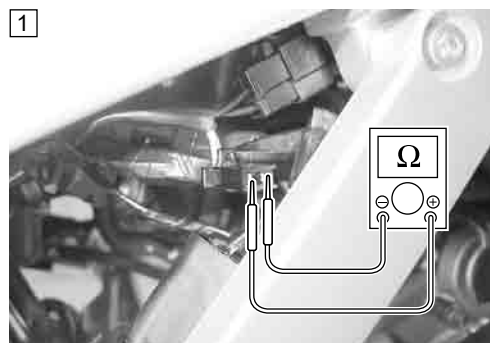
Step1

- 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)



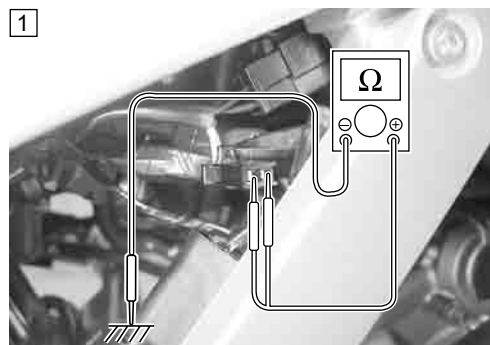
- 4) If OK, then check the continuity between each terminal and ground.

DATA CKP sensor continuity: $\infty \Omega$ (Infinity)
(White – Ground)
(Green – Ground)

TOOL 09900-25008: Multi circuit tester set

Tester knob indication: Resistance (Ω)

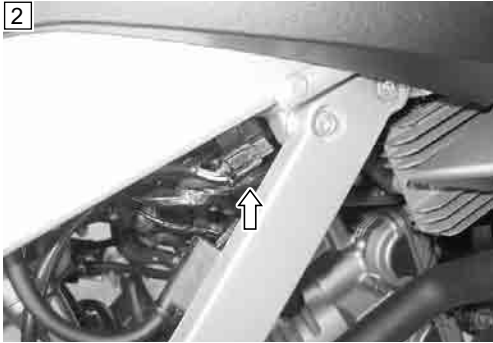
Are the resistance and continuity OK?



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

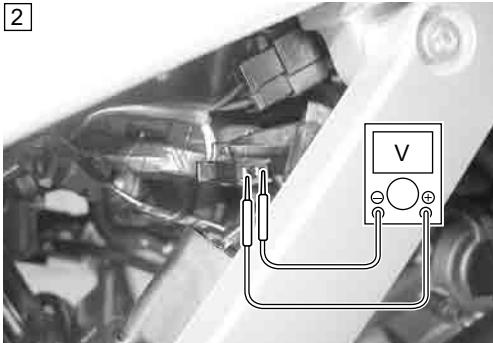
Step2

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)

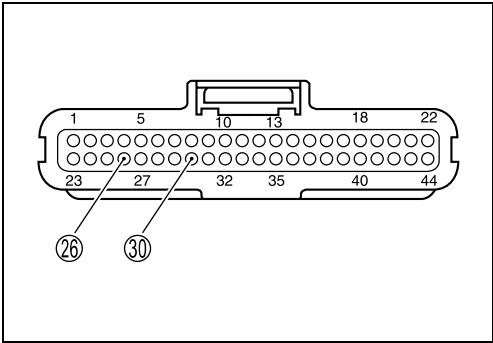


3) Repeat the above test procedure a few times and measure the highest peak voltage.
If OK, then measure the CKP sensor peak voltage at the ECM terminals. (26 – 30)

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.