

1A



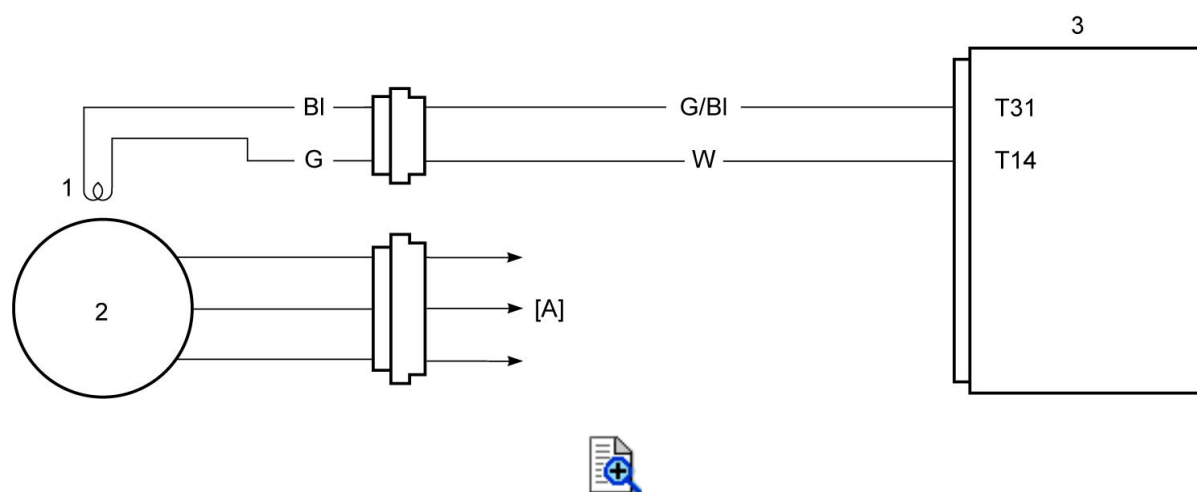
## DTC P0335 (C12)

### DTC Detecting Condition and Trouble Area

DTC detecting condition	Trouble area
<b>P0335 (C12): CKP Sensor Circuit Malfunction</b> The signal does not reach ECM for 2 sec. or more, after receiving the starter signal.	<ul style="list-style-type: none"> <li>• Metal particles or foreign material being stuck on the CKP sensor and rotor tip</li> <li>• CKP sensor</li> <li>• CKP sensor circuit</li> <li>• ECM</li> </ul>

### Wiring Diagram

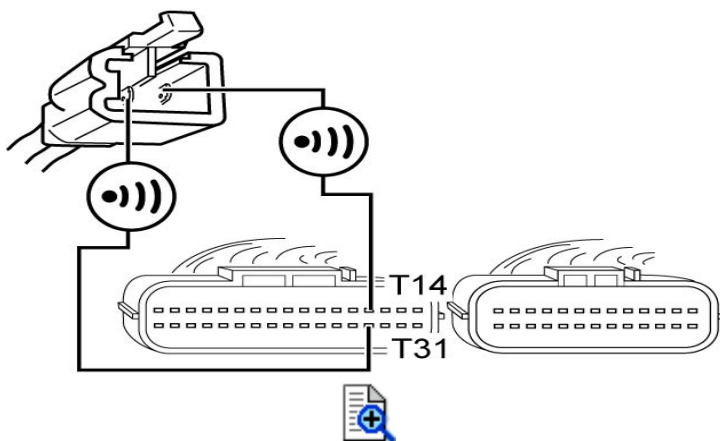
Refer to [FI System Wiring Diagram](#).



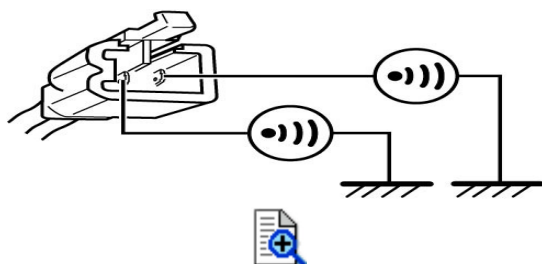
[A]:	To regulator/rectifier	2.	Generator
1.	CKP sensor	3.	ECM

### Troubleshooting

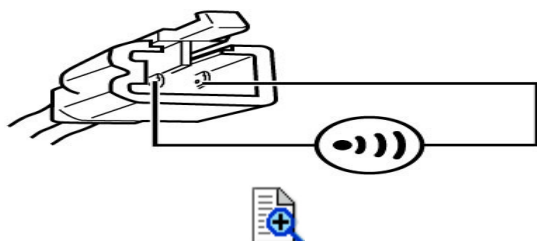
Step	Action	Yes	No
<b>1</b>	<b>CKP sensor signal circuit check</b> <ol style="list-style-type: none"> <li>1) Turn the ignition switch OFF.</li> <li>2) Disconnect the CKP sensor coupler and ECM couplers.               <ul style="list-style-type: none"> <li>• CKP sensor: </li> <li>• ECM: </li> </ul> </li> <li>3) Check for proper terminal connection to the CKP sensor coupler and ECM couplers.</li> <li>4) If connections are OK, check the following points.               <ul style="list-style-type: none"> <li>• Resistance                   <ul style="list-style-type: none"> <li>— G/BI wire and W wire: less than 1 Ω</li> </ul> </li> </ul> </li> </ol>	Go to Step 2.	Repair or replace the defective wire harness.



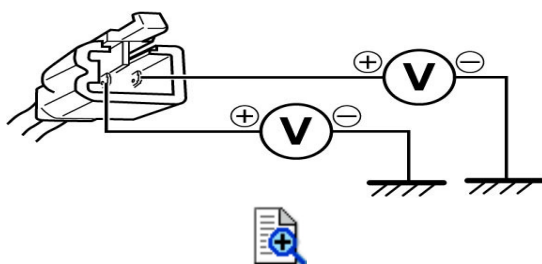
- Between each of the G/BI and W wire and ground: infinity



- Between the G/BI wire and W wire terminal at CKP sensor coupler: infinity



- Voltage
  - Turn the ignition switch ON.
  - G/BI wire and W wire: approx. 0 V



**Is check result OK?**

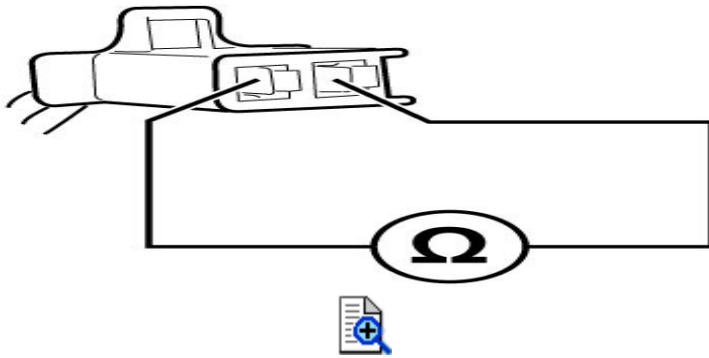
**2**

### CKP sensor resistance check

- 1) Turn the ignition switch OFF.
- 2) Check the following points.
  - Resistance
    - Terminal to Terminal: 145 – 225  $\Omega$

Go to Step 3.

Replace the CKP sensor with a new one. 



- Continuity
  - Each terminal and ground: infinity

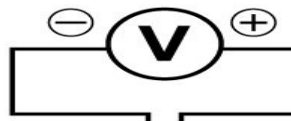


**Is check result OK?**

**3**

### CKP sensor peak voltage check

- 1) Connect the ECM couplers.
- 2) Crank the engine several seconds with the starter motor, and measure the CKP sensor peak voltage with the peak volt adaptor (1).
- 3) Repeat the step 2) a few times and measure the highest peak voltage.



**Is peak voltage 4.5 V or more?**

Replace the ECM with a known good one, and inspect it again.

Go to Step 4.

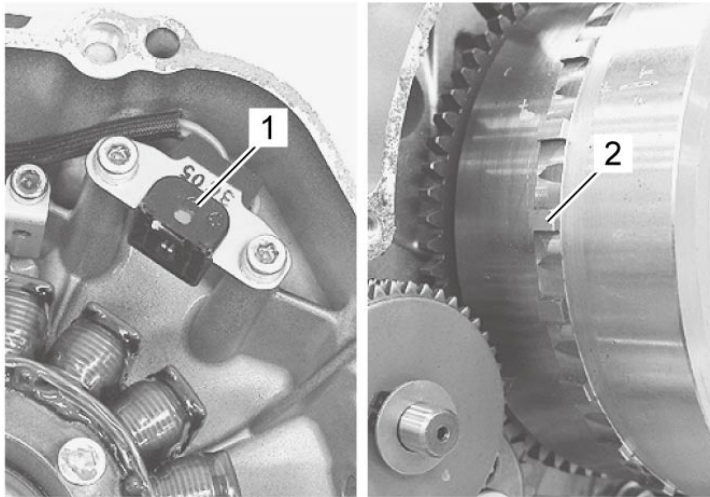
**4**

### CKP sensor and generator rotor check

- 1) Turn the ignition switch OFF.
- 2) Remove the generator cover.
- 3) Check that end face of the CKP sensor (1) and generator rotor teeth (2) are free from any metal particles and damage.

Replace the ECM with a known good one, and inspect it again.

Clean or replace defective parts.



***Is check result OK?***