

1A



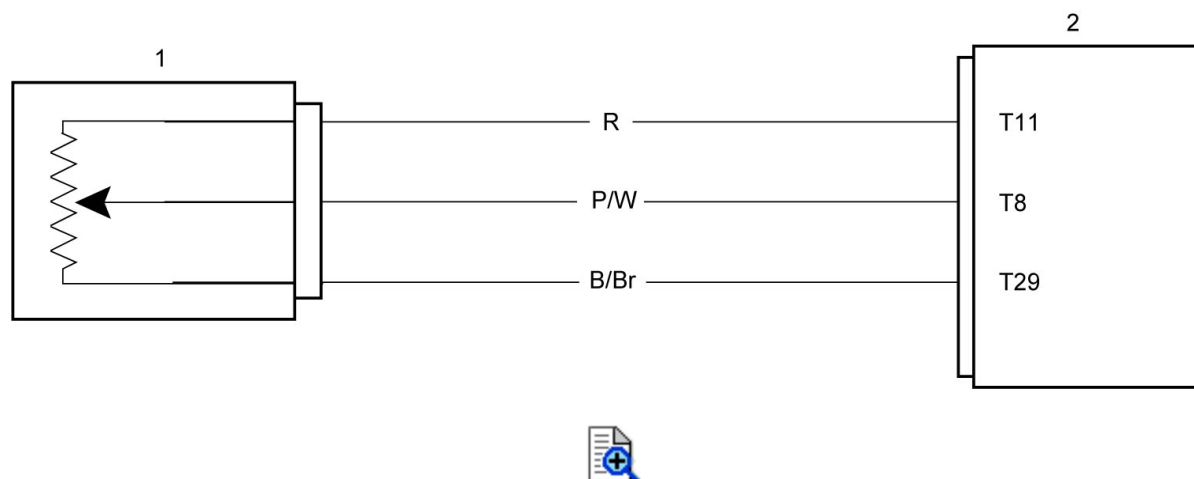
## DTC P0120-H / P0120-L (C14)

### DTC Detecting Condition and Trouble Area

DTC detecting condition	Trouble area
<b>P0120-H: TP Sensor Circuit High Voltage</b> The sensor output voltage is higher than the specified value.	<ul style="list-style-type: none"> <li>TP sensor</li> <li>TP sensor circuit</li> <li>ECM</li> </ul>
<b>P0120-L: TP Sensor Circuit Low Voltage</b> The sensor output voltage is lower than the specified value.	
<b>C14: TP Sensor Circuit Malfunction</b> The sensor output voltage is not within 0.20 – 4.80 V.	


### Wiring Diagram

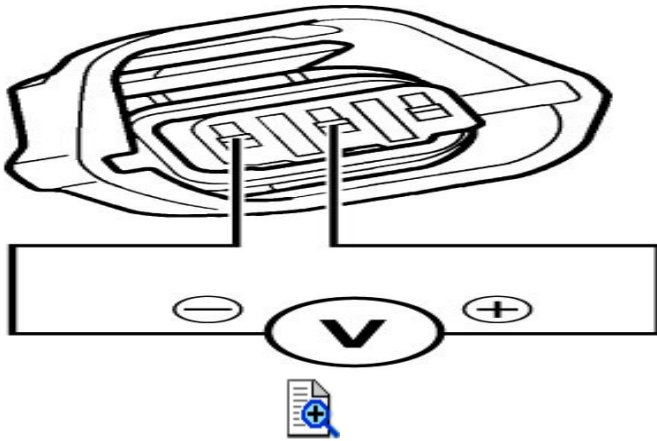
Refer to [FI System Wiring Diagram](#).



1. TP sensor	2. ECM
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### Troubleshooting

Step	Action	Yes	No
<b>1</b>	<b>TP sensor power supply circuit check</b> 1) Turn the ignition switch OFF. 2) Disconnect the TP sensor coupler.  3) Check for proper terminal connection to the TP sensor coupler. 4) If connections are OK, turn the ignition switch ON. 5) Measure the voltage between the R wire and B/Br wire.	Go to Step 3.	Go to Step 2.

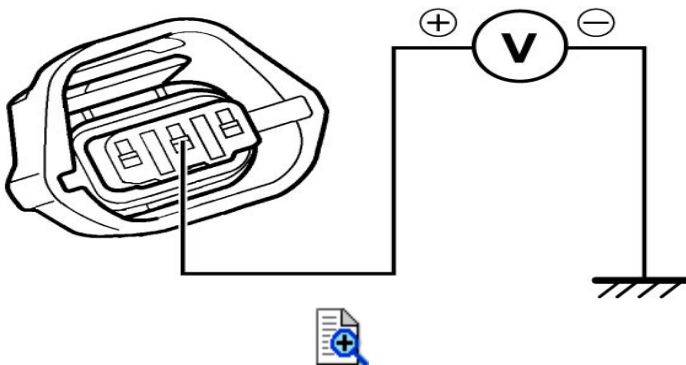


**Is voltage 4.5 – 5.5 V?**

**2**

### TP sensor ground circuit check

- 1) Measure the voltage between the R wire and ground.



**Is voltage 4.5 – 5.5 V?**

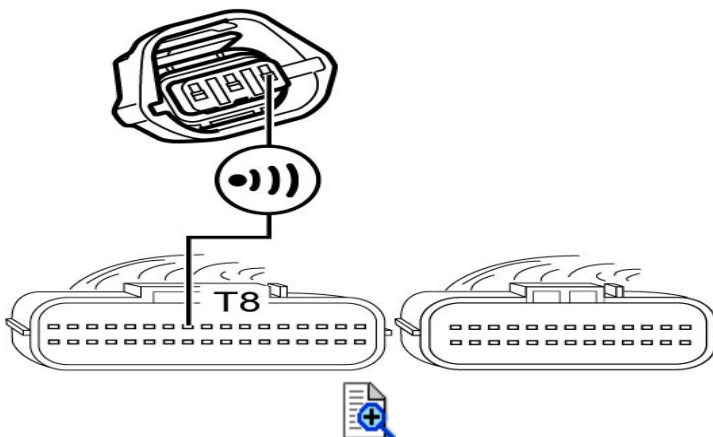
Repair or replace the B/Br wire.

Repair or replace the R wire.

**3**

### TP sensor signal circuit check

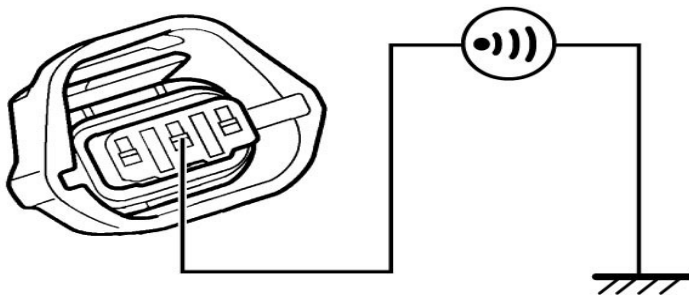
- 1) Turn the ignition switch OFF.
- 2) Disconnect the ECM couplers.
- 3) Check for proper terminal connection to the ECM couplers.
- 4) If connections are OK, check the following points.
  - Resistance
    - P/W wire: less than 1  $\Omega$



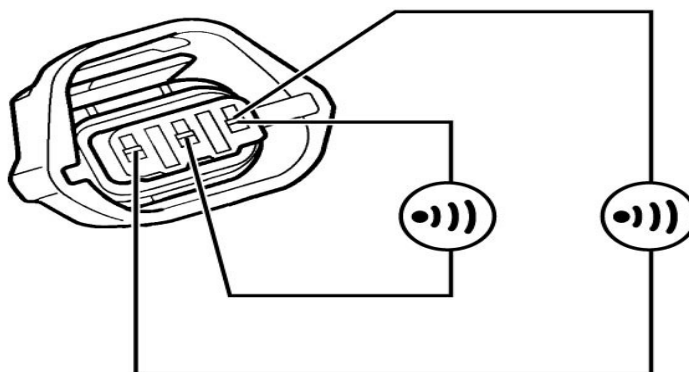
— Between P/W wire and ground: infinity

Go to Step 4.

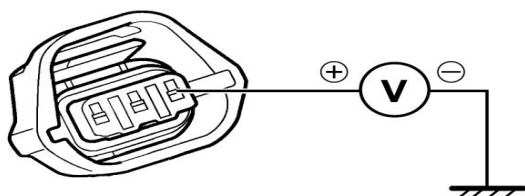
Repair or replace the P/B wire.



- Between P/W wire terminal and other terminal at TP sensor coupler: infinity



- Voltage
  - Turn the ignition switch ON.
  - P/W wire: approx. 0 V



**Is check result OK?**

**4**

#### **TP sensor output voltage check**

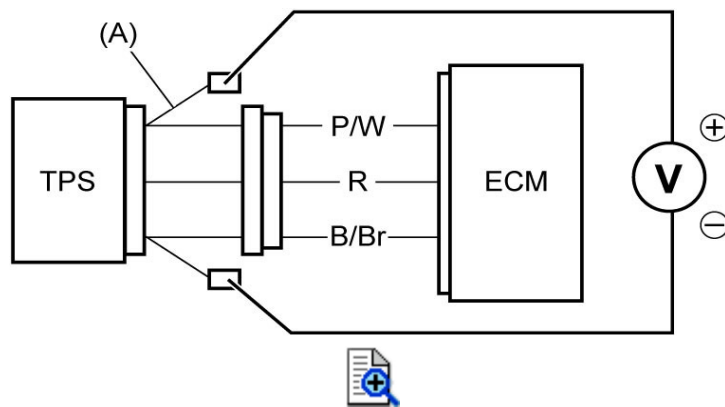
- 1) Turn the ignition switch OFF.
- 2) Connect the ECM couplers.
- 3) Connect the special tool between the TP sensor and its coupler.
- 4) Turn the ignition switch ON.
- 5) Measure the TP sensor voltage between the P/W wire and B/Br wire with turning the throttle grip open and close.

#### **Special Tool**

**(A): 09900-28630**

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

Replace the TP sensor with a new one.



***Is voltage approx. 1.1 V (when throttle valve is closed) and approx. 4.3 V (when throttle valve is opened)?***