

1A



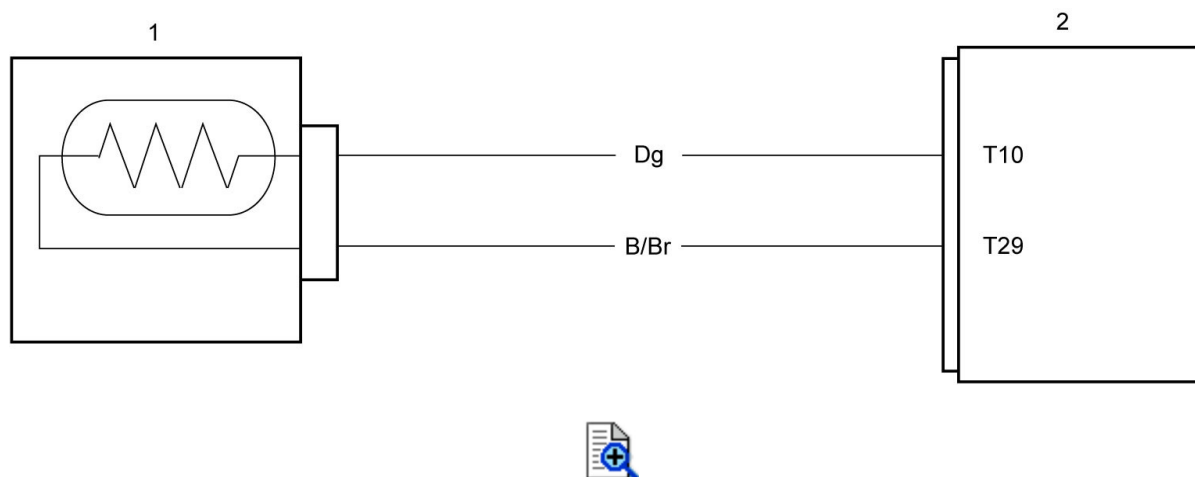
DTC P0110-H / P0110-L (C21)

DTC Detecting Condition and Trouble Area

DTC detecting condition	Trouble area
P0110-H: IAT Sensor Circuit High Voltage The sensor output voltage is higher than the specified value.	<ul style="list-style-type: none">• IAT sensor• IAT sensor circuit• ECM
P0110-L: IAT Sensor Circuit Low Voltage The sensor output voltage is lower than the specified value.	
C21: IAT Sensor Circuit Malfunction The sensor output voltage is not within 0.15 – 4.85 V.	


Wiring Diagram

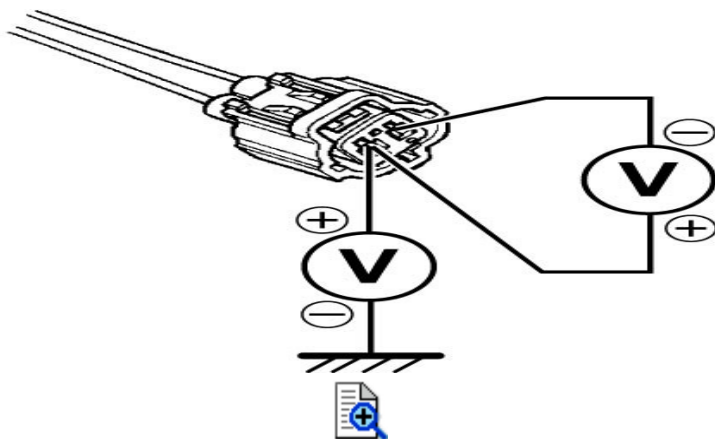
Refer to [FI System Wiring Diagram](#).



1.	IAT sensor	2.	ECM
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Troubleshooting

Step	Action	Yes	No
1	IAT sensor input voltage check 1) Turn the ignition switch OFF. 2) Disconnect the IAT sensor coupler.  3) Check for proper terminal connection to the IAT sensor coupler. 4) If connections are OK, turn the ignition switch ON. 5) Measure the voltage between the Dg wire and ground. 6) If OK, measure the voltage between the Dg wire and B/Br wire.	Go to Step 3.	Go to Step 2.



Is voltage 4.5 – 5.5 V?

2

IAT sensor circuit check

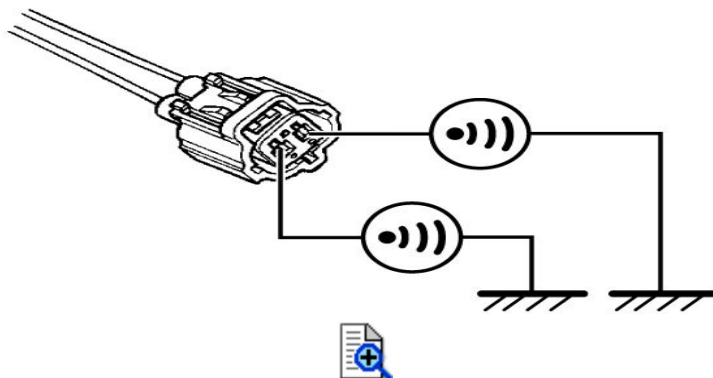
- 1) Turn the ignition switch OFF.
- 2) Disconnect the ECM couplers.
- 3) Check for proper terminal connection to the ECM couplers.
- 4) If connections are OK, check the following points.
 - Resistance
 - Dg wire and B/Br wire: less than 1 Ω

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

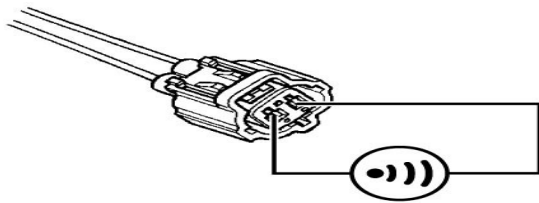
Repair or replace the defective wire harness.



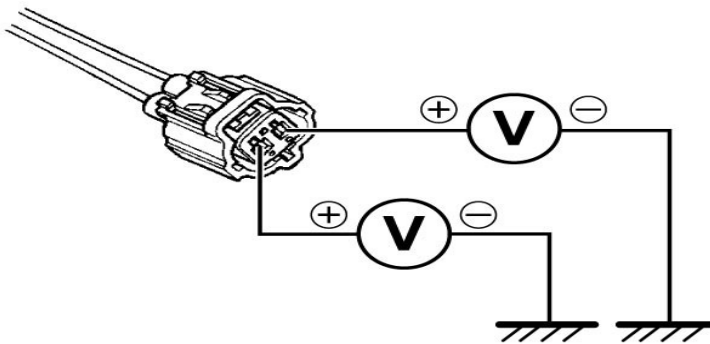
- Between each of Dg and B/Br wire and ground: infinity



- Between Dg wire terminal and B/Br wire terminal at IAT sensor coupler: infinity



- Voltage
 - Turn the ignition switch ON.
 - Dg wire and B/Br wire: approx. 0 V

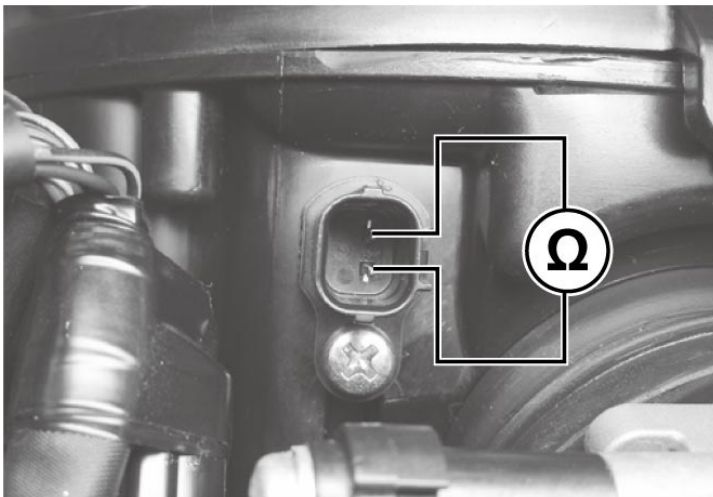


Is check result OK?

3

IAT sensor check

- 1) Turn the ignition switch OFF.
- 2) Measure the IAT sensor resistance at 0 °C (32 °F).



Is resistance 5400 – 6600 Ω?

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

Replace the IAT sensor with a new one.