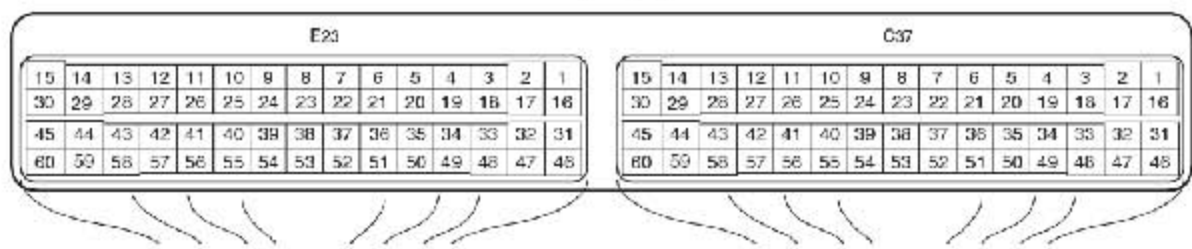
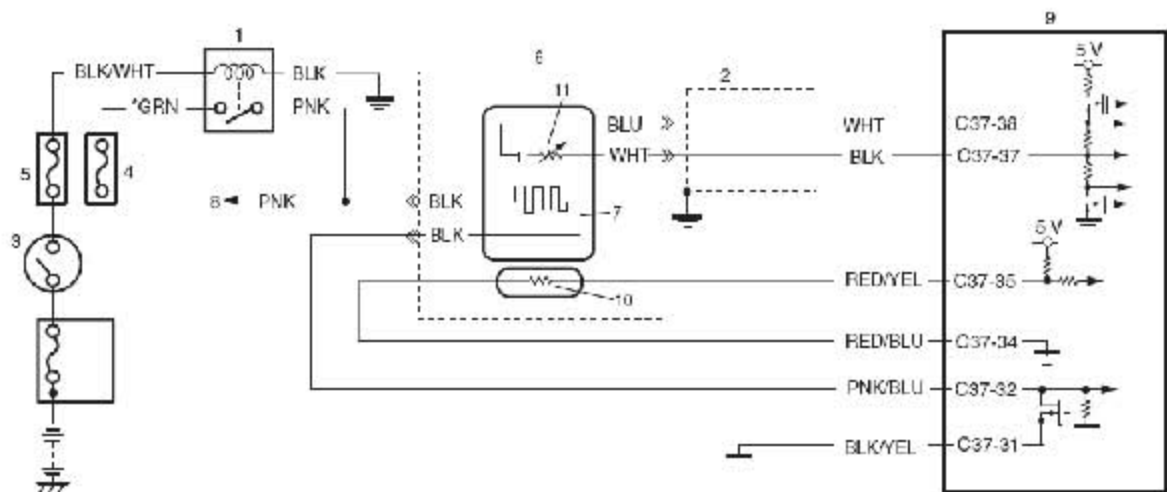


DTC P0030: HO2S Heater Control Circuit (Sensor-1)

Wiring Diagram



1. HO2S heater relay	4. "O2 HTR" fuse	7. Heater	10. Adjusting resistor
2. Shield wire	5. "IG COIL" fuse	8. To HO2S-2 heater	11. Sensor
3. Ignition switch	6. A/F sensor	9. ECM	*: For M16 engine

A/F Sensor Description

Refer to "A/F Sensor Description: " .

DTC Detecting Condition and Trouble Area

DTC detecting condition	Trouble area
Impedance of A/F sensor element is higher than or lower than specified range for more than 200 sec. even though A/F sensor heater is turned ON for more than specified time with engine running. (A/F sensor does not activate) (2 driving cycle detection logic)	<ul style="list-style-type: none"> • A/F sensor heater circuit • A/F sensor heater •ECM

DTC Confirmation Procedure

- 1) With ignition switch turned OFF, connect scan tool.
- 2) Turn ON ignition switch and clear DTC using scan tool.
- 3) Start engine and warm up to normal operating temperature.
- 4) Run engine at idle speed for 4 min. or more.
- 5) Check DTC and pending DTC.

DTC Troubleshooting

NOTE

Before this trouble shooting is performed, read the precautions for DTC troubleshooting referring to "Precautions For DTC Troubleshooting: "

Step	Action	Yes	No
1	Was "Engine and Emission Control System Check" performed?	Go to Step 2.	Go to "Engine and Emission Control System Check: "
2	DTC check Is there any DTC(s) other than P0030?	Go to applicable DTC diag. flow.	Go to Step 3.

Step	Action	Yes	No
3	Sensor circuit check 1) Disconnect connectors from A/F sensor and ECM with ignition switch turned OFF. 2) Check for proper connection to A/F sensor terminals and ECM terminals. 3) If wire and connection are OK, measure each wire resistance of A/F sensor circuit (sensor and heater) between A/F sensor connector and ECM connector. Is each measured wire resistance lower than 1 Ω ?	Go to Step 4.	Repair or replace defective wire circuit.
4	Sensor circuit insulation check 1) Measure resistance between wire and wire at sensor circuit terminals of A/F sensor connector (no continuity check). Is measured resistance infinity?	Substitute a known good A/F sensor and recheck.	Repair or replace defective circuit.

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