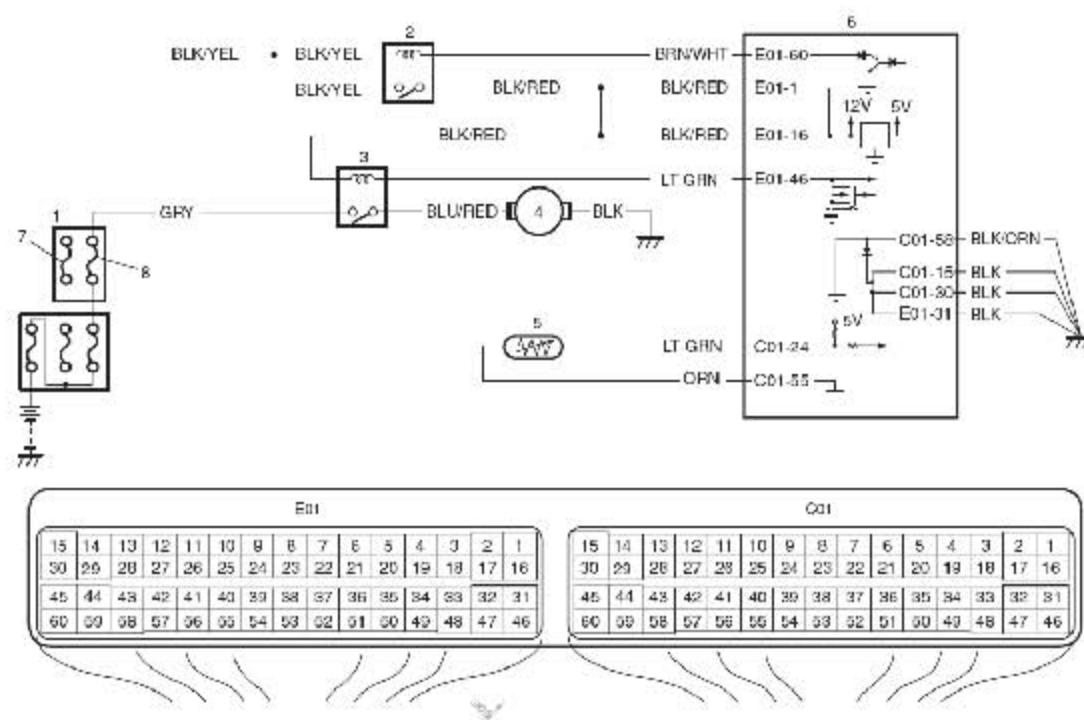


DTC P0480: Fan 1 (Radiator Cooling Fan) Control Circuit

Wiring Diagram



1. Individual circuit fuse box No.1	4. Radiator cooling fan motor	7. "FI" fuse
2. Main relay	5. ECT sensor	8. "RDTR" fuse
3. Radiator cooling fan relay	6. ECM	

DTC Detecting Condition and Trouble Area

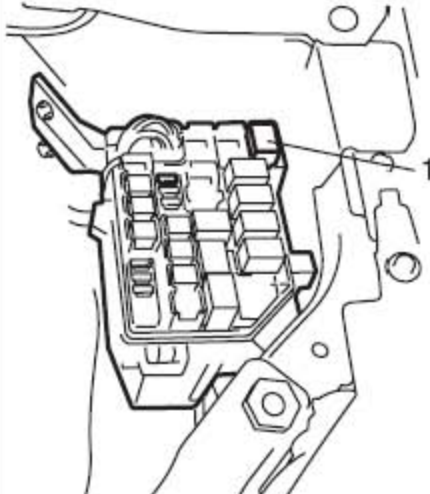
DTC detecting condition	Trouble area
Monitor signal of radiator cooling fan relay is different from command signal. (1 driving cycle detection logic)	<ul style="list-style-type: none"> Radiator cooling fan relay circuit malfunction Radiator cooling fan relay malfunction ECM malfunction

DTC Confirmation Procedure

- 1) Turn OFF ignition switch.
- 2) Clear DTC with ignition switch turned ON.

- 3) Run engine at idle speed.
- 4) Check DTC.

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	<p>Wire circuit check</p> <p>1) Disconnect radiator cooling fan relay (1) from individual circuit fuse box No.1 with ignition switch turned OFF.</p> <p>2) Turn ON ignition switch, measure voltage between engine ground to "BLK/RED" wire terminal. 1 I5RW0A110036-02</p>  <p>Is voltage 10 – 14 V?</p>	Go to Step 3.	Open wire in "BLK/RED" wire is open circuit.

Step	Action	Yes	No
3	<p>Wire circuit check</p> <p>1) Connect radiator cooling fan relay to individual circuit fuse box No.1 with ignition switch turned OFF.</p> <p>2) Turn ON ignition switch, measure voltage between vehicle body ground and "E01-46" terminal of ECM connector when engine coolant temp. is below 100 °C (212 °F).</p> <p>Is voltage 10 – 14 V?</p>	Go to Step 7.	Go to Step 4.
4	<p>Wire circuit check</p> <p>1) Disconnect connectors from ECM with ignition switch turned OFF.</p> <p>2) Disconnect radiator cooling fan relay from individual circuit fuse box No.1.</p> <p>3) Measure resistance between "E01-46" terminal of ECM connector and vehicle ground.</p> <p>Is resistance infinity?</p>	Go to Step 5.	"LT GRN" wire is shorted to ground circuit.
5	<p>Wire circuit check</p> <p>1) Turn ON ignition switch.</p> <p>2) Measure voltage between "E01-46" terminal of ECM connector and vehicle body ground.</p> <p>Is voltage 0 V?</p>	Go to Step 7.	"LT GRN" wire is shorted to other circuit.
6	<p>Radiator cooling fan relay check</p> <p>1) Check radiator cooling fan relay referring to "Radiator Cooling Fan Relay Inspection in Section 1F".</p> <p>Is check result satisfactory?</p>	"LT GRN" wire is open circuit.	Replace relay.

Step	Action	Yes	No
7	Radiator cooling fan control check 1) Run engine until ECT is over 100 °C, 212 °F. 2) Measure voltage between vehicle body ground and "E01-46" terminal of ECM connector. Is voltage lower than 1.5 V?	Intermittent trouble. Check for intermittent referring to "Intermittent and Poor Connection Inspection in Section 00". If OK, substitute a known-good ECM and recheck.	Faulty ECM. Substitute a known-good ECM and recheck.

LAUNCH