P0533: A/C Refrigerant Pressure Sensor Circuit High

Wiring Diagram

Refer to "DTC P0532: A/C Refrigerant Pressure Sensor Circuit Low".

DTC Detecting Condition and Trouble Area

DTC detecting condition	Trouble area
A/C refrigerant pressure sensor signal voltage is higher than specified value. (1 driving detection logic but MIL does not light up)	• A/C refrigerant pressure sensor circuit • A/C refrigerant pressure sensor • MAP sensor •ECM

DTC Confirmation Procedure

1) Connect scan tool to DLC with ignition switch turned OFF.
2) Turn ON ignition switch and clear DTC using scan tool.
3) Start engine and warm up engine to normal operating temperature.
4) Run engine at idle and turn both A/C switch and heater blower switch ON (turn ON air conditioning) for 3 min. ormore.
5) Check DTC and pending DTC.

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	A/C refrigerant pressure sensor power supply circuit check 1) Disconnect connector from A/C refrigerant pressure sensor with ignition switch turned OFF. 2) Check for proper connection of A/C refrigerant pressure sensor at "GRY/RED", "RED/BLU" and "ORN" wire terminals. 3) Turn ON ignition switch, measure voltage between engine ground and "GRY/RED" wire terminal of A/C refrigerant pressure sensor connector. Is voltage 4 – 6 V?	Go to Step 4.	Go to Step 3.
3	A/C refrigerant pressure sensor power supply circuit check 1) Disconnect connectors from MAP sensor with ignition switch turned OFF. 2) Turn ON ignition switch, measure voltage between engine ground and "GRY/RED" wire terminal of A/C refrigerant pressure sensor connector. Is voltage 4 – 6 V?	Faulty MAP sensor.	"GRY/RED" wire is open or shorted to power circuit.
4	A/C refrigerant pressure sensor signal circuit check 1) Turn ON ignition switch, measure voltage between engine ground and "RED/BLU" wire terminal of A/C refrigerant pressure sensor connector. Is voltage 4 – 6 V?	Go to Step 6.	Go to Step 5.

Step	Action	Yes	No
5	A/C refrigerant pressure sensor signal circuit check 1) Disconnect connectors from ECM with ignition switch turned OFF. 2) Measure resistance between "RED/BLU" wire terminal of A/C refrigerant pressure sensor connector and "E01-55" terminal of ECM connector. Is resistance below 2 Ω?	"RED/BLU" wire is shorted to power supply circuit.	"RED/BLU" wire is open or high resistance circuit.
6	A/C refrigerant pressure sensor ground circuit check 1) Turn OFF ignition switch, measure resistance between engine ground and "ORN" wire terminal of A/C refrigerant pressure sensor connector. Is resistance below 5 Ω?	Go to Step 8.	Go to Step 7.
7	ECM ground circuit check 1) Remove ECM from its bracket with ECM connectors connected. 2) Measure resistance between engine ground and "E01-54" terminal of ECM connector. Is resistance below 5 Ω?	"ORN" wire is open or high resistance circuit.	ECM grounds "C01-58", "C01-15", "C01-30" and/ or "E01-31" is open or high resistance circuit.
8	A/C refrigerant pressure sensor check 1) Check A/C refrigerant pressure sensor referring to "A/C Refrigerant Pressure Sensor and Its Circuit Inspection: Manual Type in Section 7B" or "A/C Refrigerant Pressure Sensor and Its Circuit Inspection: Automatic Type in Section 7B". Is it good condition?	Substitute a known-good ECM and recheck.	Faulty A/C refrigerant pressure sensor.