

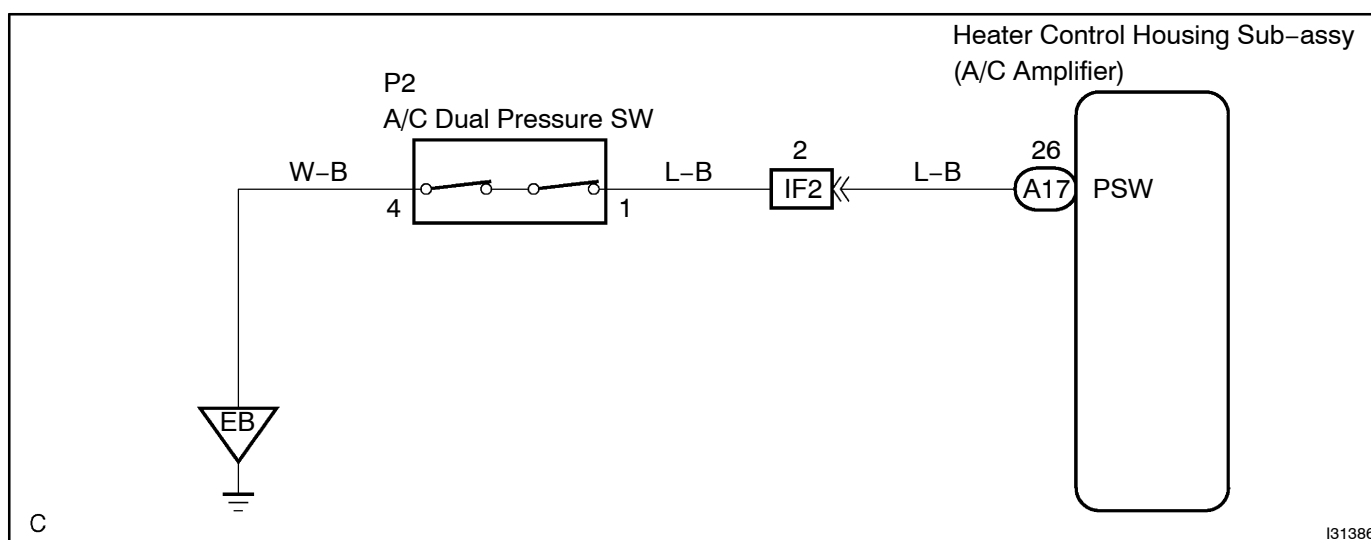
DTC	23	PRESSURE SWITCH CIRCUIT
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CIRCUIT DESCRIPTION

The pressure switch sends the appropriate signals to the A/C amplifier when the A/C refrigerant pressure drops too low or rises too high. When the A/C amplifier receives these signals, it outputs signals via the A/C amplifier to switch OFF the compressor relay and turns the magnetic clutch OFF.

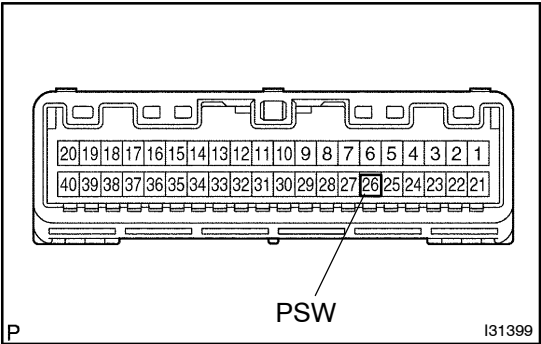
DTC No.	Detection Item	Trouble Area
23	<ul style="list-style-type: none"> • Open in pressure sensor circuit. • Abnormal refrigerant pressure. below 196 kPa (2.0 kgf/cm², 28 psi) over 3,140 kPa (32.0 kgf/cm², 455 psi) 	<ul style="list-style-type: none"> • Pressure switch • Harness or connector between pressure switch and A/C amplifier • Refrigerant pipe line • A/C amplifier

WIRING DIAGRAM



INSPECTION PROCEDURE

1 INSPECT HEATER CONTROL HOUSING SUB-ASSY(PSW)



- (a) Install the manifold gauge set.
- (b) Turn ignition switch ON.
- (c) Check voltage between terminal PSW of A/C amplifier connector and body ground when refrigerant pressure is changed.
- (d) The voltage changes with refrigerant pressure, as shown in the diagram below.

Voltage:

Low Pressure Cut Side	Reference : High Pressure Cut Side
ON (0V) 196 kPa OFF (12V)	ON (0V) 2,550 kPa OFF (12V)

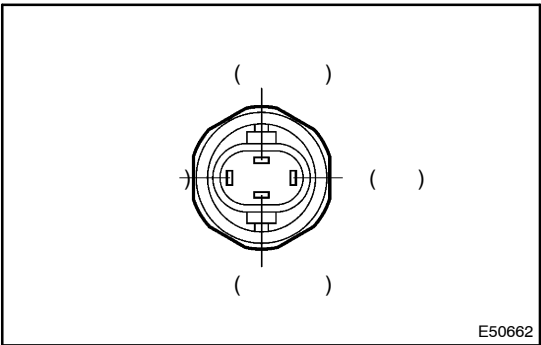
A	NG
B	OK (when checking from the PROBLEM SYMPTOM TABLE)
C	OK (Checking from the DTC)

B PROCEED TO NEXT CIRCUIT INSPECTION SHOWN ON PROBLEM SYMPTOM TABLE

C CHECK AND REPLACE HEATER CONTROL HOUSING SUB-ASSY

A

2 INSPECT COOLER CONDENSER ASSY(PRESURE SW)



- (a) Turn ignition switch ON.
- (b) Check continuity between terminals 1 and 4 of pressure switch when refrigerant pressure is changed.
- (c) The continuity changes with refrigerant pressure as shown in the diagram below.

Continuity:

Low Pressure Cut Side	Reference : High Pressure Cut Side
ON (continuity) 196 kPa OFF (continuity)	ON (continuity) 2,550kPa OFF (continuity)

NG REPLACE COOLER CONDENSER ASSY

OK

3**CHECK HARNESS AND CONNECTOR(BETWEEN PRESURE SW AND HEATER
CONTROL HOUSING SUB-ASSY)****NG****REPAIR OR REPLACE HARNESS OR
CONNECTOR****OK****CHECK AND REPLACE HEATER CONTROL HOUSING SUB-ASSY**