

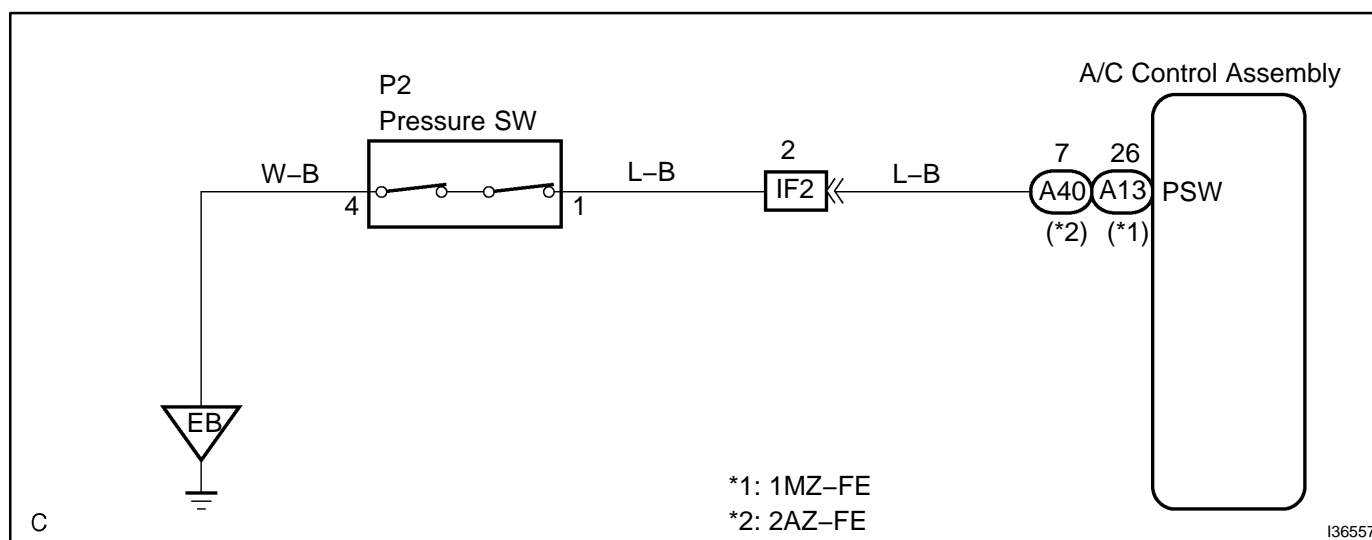
DTC	23	PRESSURE SWITCH CIRCUIT
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CIRCUIT DESCRIPTION

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.

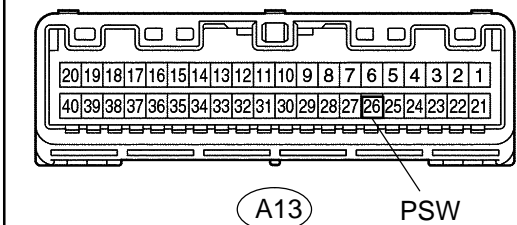
DTC No.	Detection Item	Trouble Area
23	<ul style="list-style-type: none"> Broken pressure sensor circuit. Abnormal refrigerant pressure. below 196 kPa (2.0 kgf/cm², 28 psi) over 3,140 kPa (32.0 kgf/cm², 455 psi) 	<ul style="list-style-type: none"> Pressure switch Harness or connector between pressure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

WIRING DIAGRAM



INSPECTION PROCEDURE

1 INSPECT HEATER CONTROL HOUSING SUB-ASSY(PSW)

1MZ-FE: A/C Control Assembly
Connector Wire Harness View:

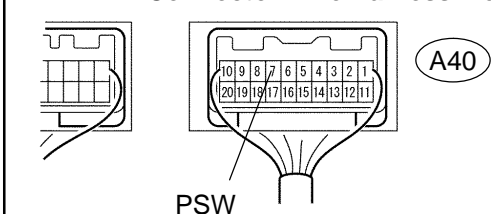
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- Install the manifold gauge set.
- Remove A/C amplifier assy with connectors still connected.
- Turn the ignition switch to the ON position.
- Check voltage between terminal PSW of A/C amplifier connector and body ground when refrigerant pressure is changed.
- 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)

2AZ-FE: A/C Control Assembly
Connector Wire Harness View:

C

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

B

PROCEED TO NEXT CIRCUIT INSPECTION
SHOWN IN PROBLEM SYMPTOMS TABLE

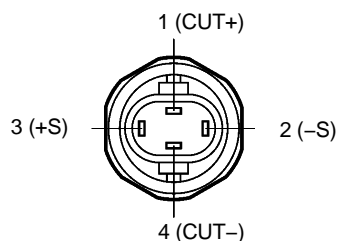
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CHECK AND REPLACE HEATER CONTROL
HOUSING SUB-ASSY

A

2 INSPECT COOLER CONDENSER ASSY(PRESURE SW)

Pressure Switch Connector Front View:



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

Continuity:

Low Pressure Cut Side	Reference : High Pressure Cut Side
ON (below 1.0 Ω) 196 kPa OFF (10 kΩ or higher)	ON (below 1.0 Ω) 2,550 kPa OFF (10 kΩ or higher)

NG

REPLACE COOLER CONDENSER ASSY

OK

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

CHECK AND REPLACE HEATER CONTROL HOUSING SUB-ASSY
