

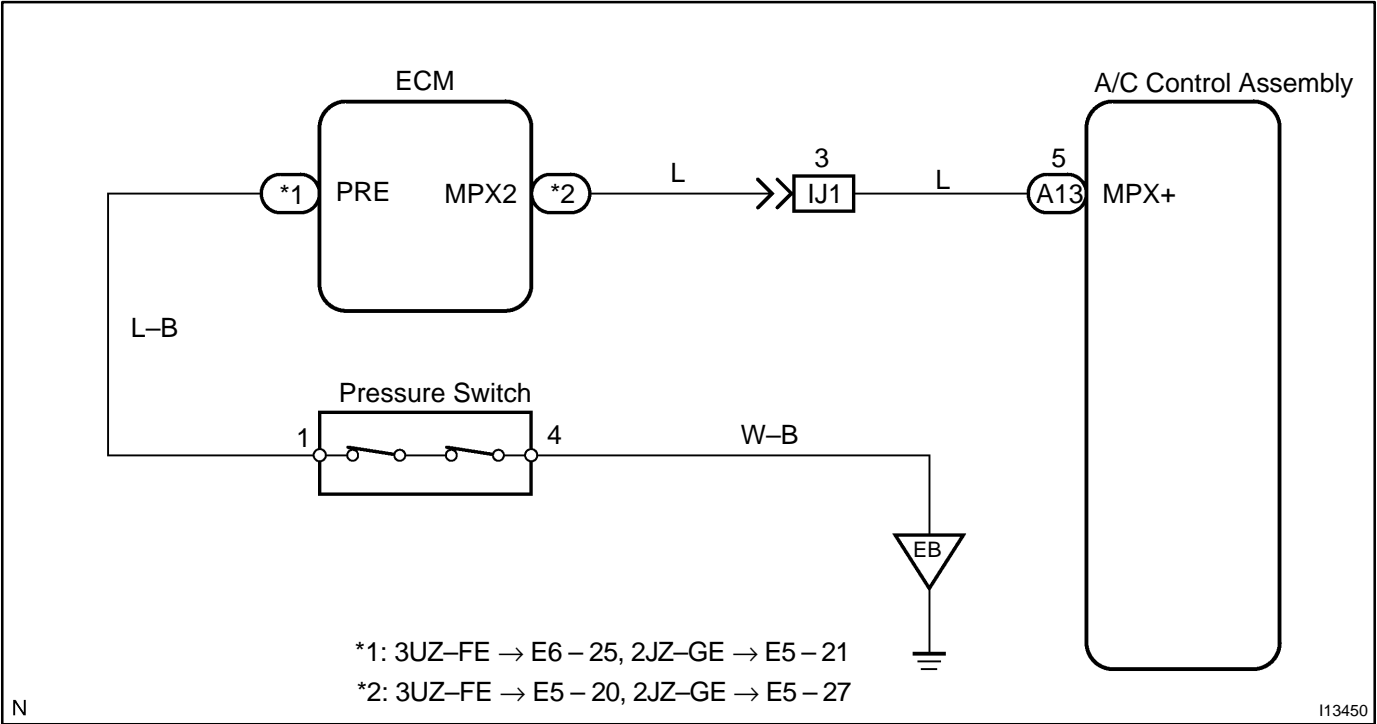
DTC	B1423/23	Pressure Switch Circuit
-----	----------	-------------------------

CIRCUIT DESCRIPTION

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

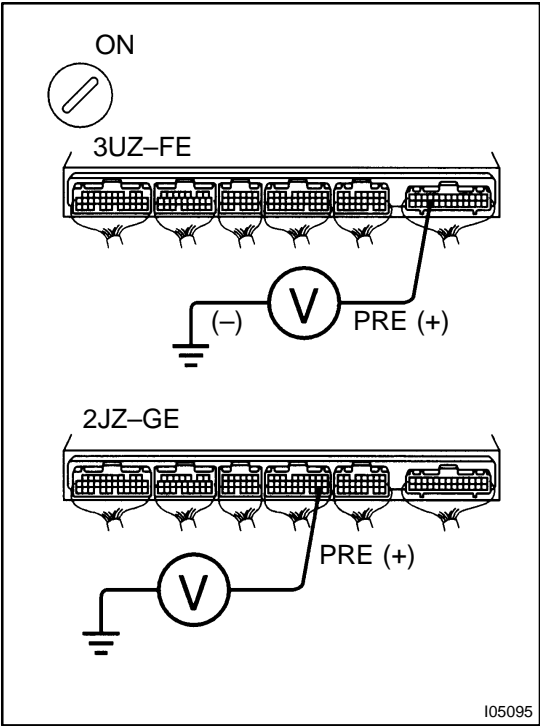
DTC No.	Detection Item	Trouble Area
B1423/23	<ul style="list-style-type: none">• Open in pressure sensor circuit.• Abnormal refrigerant pressure. below 181 kPa (2.0 kg/cm², 28 psi) over 3,140 kPa (32.0 kgf/cm², 455 psi)	<ul style="list-style-type: none">• Pressure switch.• Harness or connector between pressure switch and ECM• Refrigerant pipe line.• ECM

WIRING DIAGRAM



INSPECTION PROCEDURE

1	Check voltage between terminal PRE of ECM and body ground.
---	--



PREPARATION:

Install the manifold gauge set.

CHECK:

- (a) Turn ignition switch ON.
- (b) Check voltage between terminal PRE of ECM connector and body ground when A/C gas pressure is changed.

OK:

The voltage changes with gas pressure, as shown in the diagram below.

Low Pressure Cut Side	Reference : High Pressure Cut Side
ON (0V) 196 kPa OFF (12V)	ON (0V) 2,550 kPa 3,140 kPa OFF (12V)

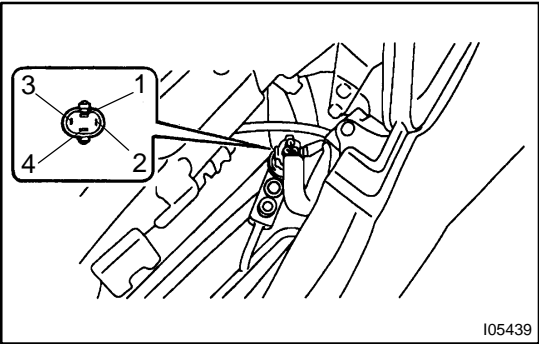
OK

Proceed to next circuit inspection shown on problem symptoms table (See page [DI-1309](#)).

NG

2

Check pressure switch.



PREPARATION:

Disconnect pressure switch connector.

CHECK:

- (a) Turn ignition switch ON.
- (b) Check continuity between terminals 1 and 4 of pressure switch when A/C gas pressure is changed.

OK:

The continuity changes with gas pressure as shown below.

Low Pressure Cut Side	Reference : High Pressure Cut Side
ON (continuity) 181 kPa OFF (continuity)	ON (continuity) 2,550 kPa OFF (continuity)

NG

Repair or replace harness or connector.

OK

3

Check harness and connector between ECM and pressure switch, pressure switch and body ground (See page IN-32).

NG

Repair or replace harness or connector.

OK

4

Check harness and connector between ECM and A/C control assembly. (See page IN-32).

NG

Repair or replace harness or connector.

OK

Check and replace ECM.