

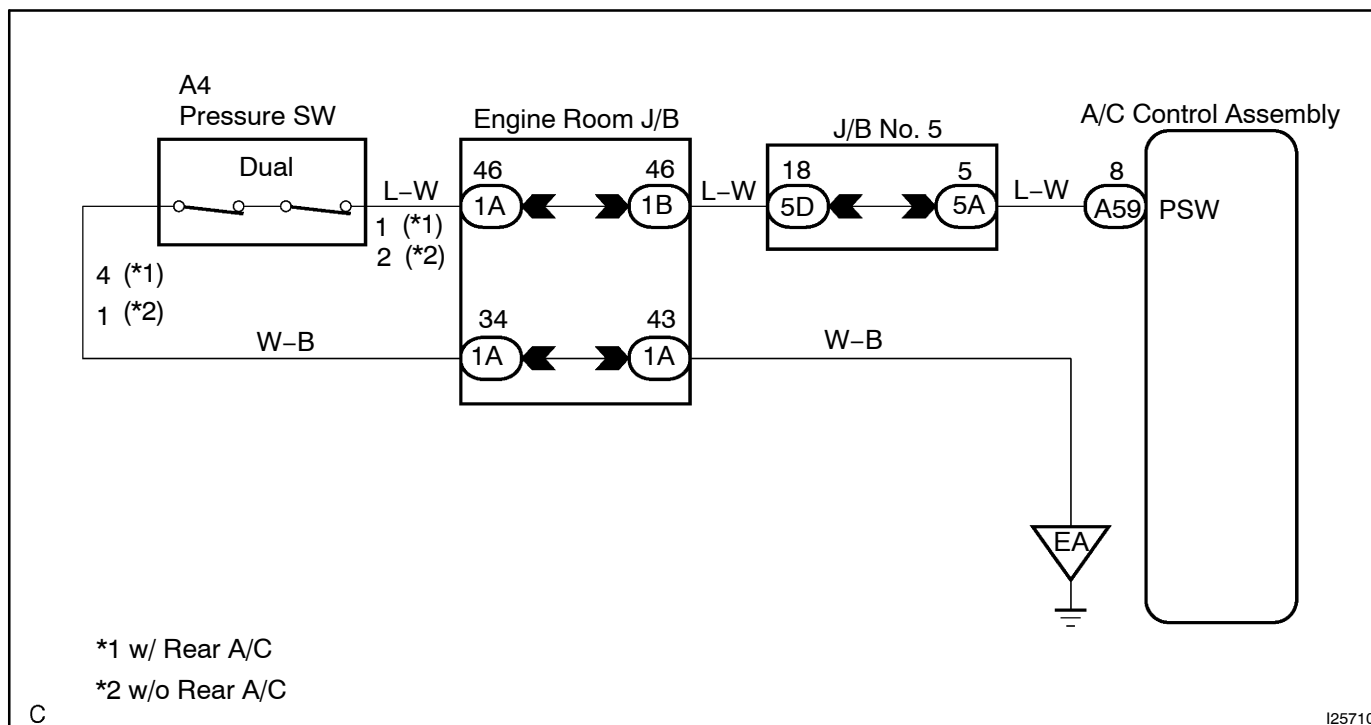
DTC	23	Pressure Switch Circuit
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CIRCUIT DESCRIPTION

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 output signals via the A/C amplifier to switch OFF the compressor relay and turns the magnetic clutch OFF.

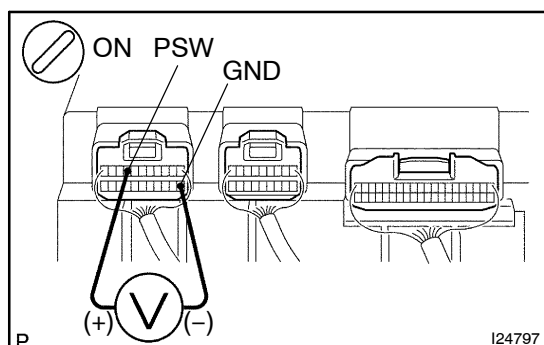
DTC No.	Detection Item	Trouble Area
23	• Open in pressure sensor circuit • Abnormal refrigerant pressure below 196 kPa (2.0 kg/cm², 28 psi) over 3,140 kPa (32.0 kgf/cm², 455 psi)	• Pressure switch • Harness or connector between pressure switch and A/C amplifier • Refrigerant pipe line • A/C amplifier

WIRING DIAGRAM



INSPECTION PROCEDURE

1 Check voltage between terminal PSW and GND of A/C amplifier.

**PREPARATION:**

Install the manifold gauge set.

CHECK:

- Turn ignition switch to ON.
- Check voltage between terminals PSW and GND of A/C amplifier connector when A/C gas pressure changes.

OK:

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

Low Pressure Cut Side	Reference: High Pressure Cut Side
ON (0V) ↑ 225 kPa 196 kPa ↓ OFF (12V)	ON (0V) 2,550 kPa ↑ 3,140 kPa ↓ OFF (12V)

NG

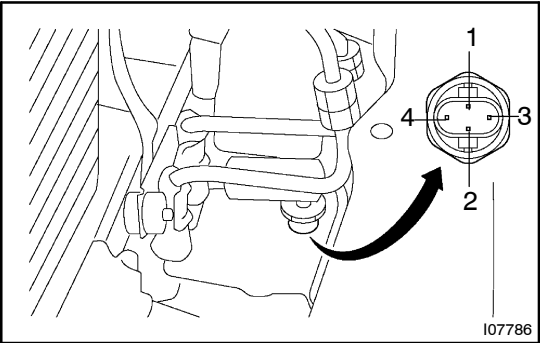
Go to step 2.

OK

Proceed to next circuit inspection shown on problem symptoms table (See page DI-1238). However, if DTC 23 is displayed, check and replace A/C amplifier.

2

Check pressure switch.



PREPARATION:

Disconnect pressure switch connector.

CHECK:

- (a) Turn ignition switch ON.
- (b) Check continuity between terminals 1 and 2 of pressure switch when A/C gas pressure changes.

OK:

The continuity changes with gas pressure as shown below.

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

NG

Replace pressure switch.

OK

3

Check harness and connector between pressure switch and A/C amplifier
(See page IN-38).

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Repair or replace harness or connector.

OK

Check and replace A/C amplifier.