

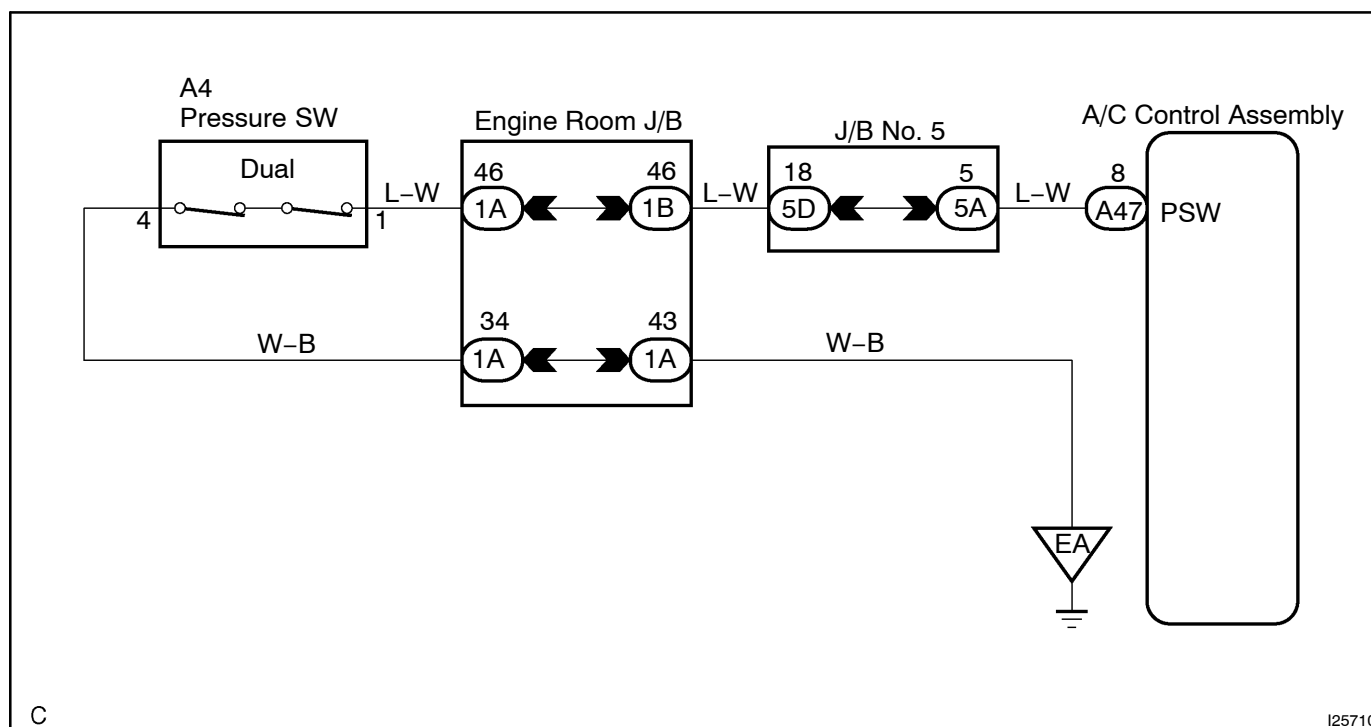
DTC	23	Pressure Switch Circuit
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CIRCUIT DESCRIPTION

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.

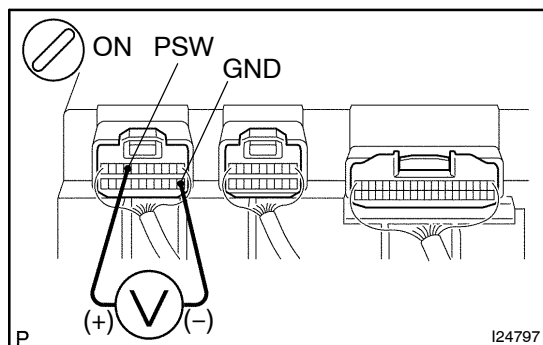
DTC No.	Detection Item	Trouble Area
23	• Open in pressure sensor circuit • Abnormal refrigerant pressure below 196 kPa (2.0 kg/cm², 28 psi) over 3,140 kPa (32.0 kgf/cm², 455 psi)	• Pressure switch • Harness or connector between pressure switch and A/C amplifier • Refrigerant pipe line • A/C amplifier

WIRING DIAGRAM



INSPECTION PROCEDURE

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

Install the manifold gauge set.

CHECK:

- (a) Turn ignition switch to ON.
- (b) 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) 196 kPa OFF (12V)	ON (0V) 2,550 kPa 3,140 kPa OFF (12V)

NG

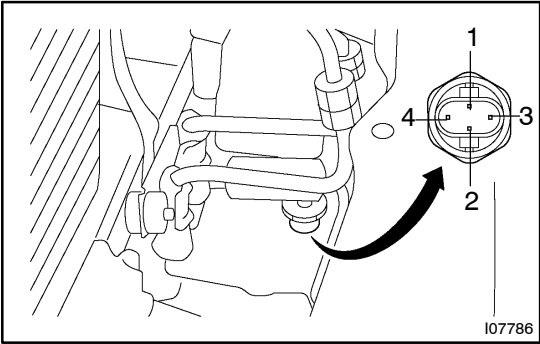
Go to step 2.

OK

Proceed to next circuit inspection shown on problem symptoms table (See page [DI-1086](#)). 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) 2,550 kPa 3,140 kPa OFF (continuity)

NG

Replace pressure switch.

OK

3

Check harness and connector between pressure switch and A/C amplifier
(See page IN-36).

NG

Repair or replace harness or connector.

OK

Check and replace A/C amplifier.