

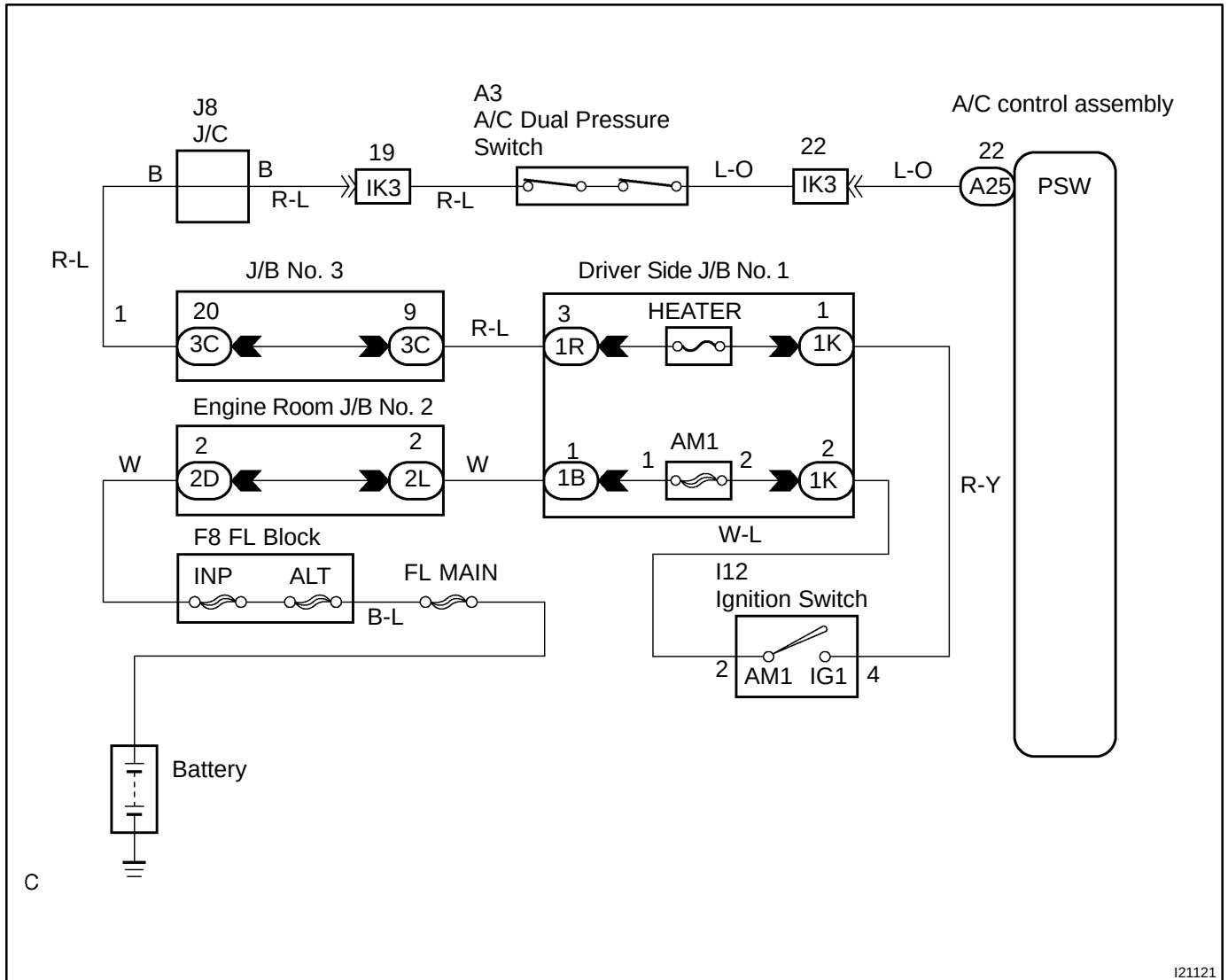
DTC	23	Pressure Switch Circuit
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CIRCUIT DESCRIPTION

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 control assembly receives these signals, it outputs signals via the A/C control assembly 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 control assembly - Refrigerant pipe line. - A/C control assembly

WIRING DIAGRAM

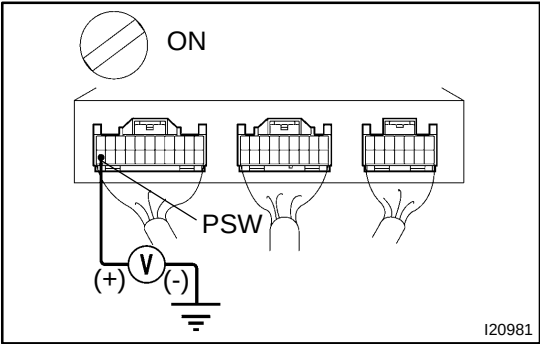


I21121

INSPECTION PROCEDURE

1

Check voltage between terminal PSW and GND of A/C control assembly.



PREPARATION:
Install the manifold gauge set.

CHECK:

- (a) Turn ignition switch ON.
- (b) Check voltage between terminal PSW of A/C control assembly connector and body ground when refrigerant pressure is changed.

OK:
The voltage changes with refrigerant 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 OFF (12V)

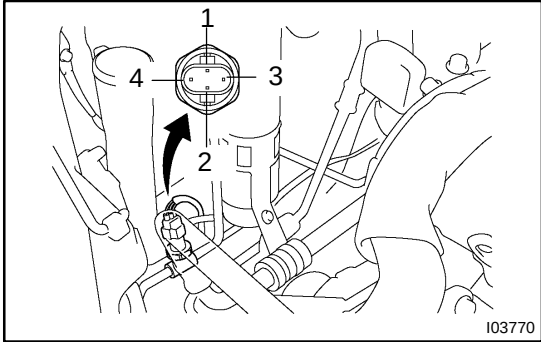
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Go to step 2.

OK

Proceed to next circuit inspection shown on problem symptoms table (See page [DI-697](#)). However, if DTC 23 is displayed, check and replace A/C control assembly.

2 Check pressure switch.



PREPARATION:

Disconnect pressure switch connector.

CHECK:

- Turn ignition switch ON.
- Check continuity between terminals 1 and 4 of pressure switch when refrigerant pressure is changed.

OK:

The continuity changes with refrigerant pressure as shown below.

Low Pressure Cut Side	Reference : High Pressure Cut Side
ON (continuity) 196 kPa → 211 kPa	ON (continuity) 2,550 kPa → 3,140 kPa
OFF (continuity)	OFF (continuity)

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Replace pressure switch.

OK

3 Check harness and connector between A/C control assembly and pressure switch (See page [IN-31](#)).

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Repair or replace harness or connector.

OK

Check and replace A/C control assembly.