

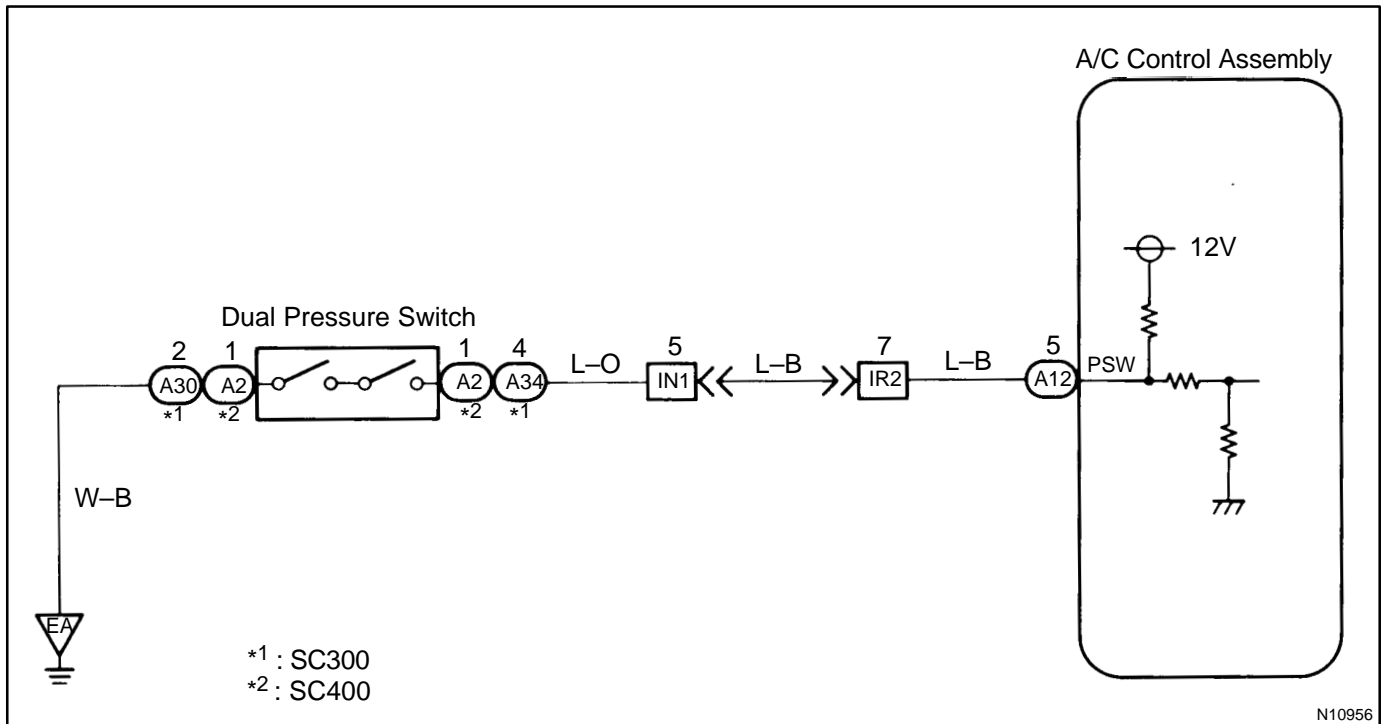
DTC	23	Pressure Switch Circuit
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CIRCUIT DESCRIPTION

The pressure switch sends the appropriate signals to the air conditioning control assembly when the air conditioning refrigerant pressure drops too low or rises too high. When the air conditioning control assembly receives these signals, it outputs signals via the ECM to switch off the compressor relay and turns the magnet clutch off.

DTC No.	DTC Detecting Condition	Trouble Area
23	Open in pressure sensor circuit . Abnormal refrigerant pressure. (below 206 kPa (2.1 kgf/cm ² , 30 psi)) (over 2,650 kPa (27 kgf/cm ² , 385 psi))	<ul style="list-style-type: none"> • Pressure switch • Harness or connector between pressure switch and ECU • Refrigerant pipe line • ECU

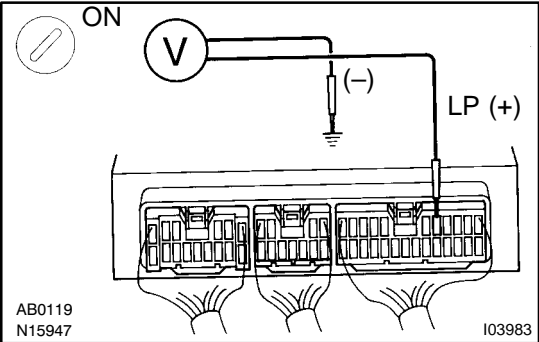
WIRING DIAGRAM



INSPECTION PROCEDURE

- 1

Check voltage between terminals PSW of air conditioning control assembly and body ground.



PREPARATION:

- (a) Install the manifold gauge set. (See page DI-816)
- (b) Turn ignition switch ON.

CHECK:

Check voltage between terminal PSW of air conditioning control assembly connector and body ground when air conditioning 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
<p>ON (0V)</p> <p>196 kPa</p> <p>225 kPa</p> <p>OFF (12V)</p>	<p>ON (0V)</p> <p>2,550 kPa</p> <p>3,140 kPa</p> <p>OFF (12V)</p>

- OK

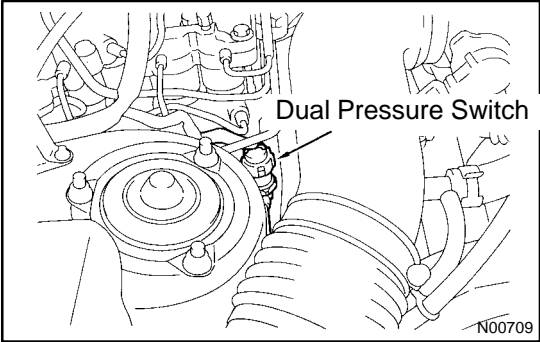
Proceed to next circuit inspection shown on matrix chart (See page DI-821).

NG

Go to step 2.

2

Check dual pressure switch.



PREPARATION:

Disconnect dual pressure switch connector.

CHECK:

Check continuity between terminals 1 and 4 of dual pressure switch when air conditioning 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) 196 kPa OFF (no continuity)	ON (continuity) 2,550 kPa 3,140 kPa OFF (no continuity)

NG

Replace dual pressure switch.

OK

3

Check for open and short in harness and connector between air conditioning control assembly and pressure switch, pressure switch and body ground (See page [IN-29](#)).

NG

Repair or replace harness or connector.

OK

Check and replace air conditioning control assembly.