DTC	23	**Pressure Switch Circuit**

CIRCUIT DESCRIPTION

This pressure switch sends the appropriate signals to the A/C control assembly when the A/C refrigerant pressure drops too low or rises too high. When the A/C control assembly receives these signals, if outputs signals via the ECM 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 kgf/cm^2. 28 psi) over 3,140 kPa (32.0 kgf/cm^2. 455 psi)	• Pressure switch • Harness or connector between pressure switch and A/C control assembly • Refrigerant pipe line • A/C control assembly

WIRING DIAGRAM
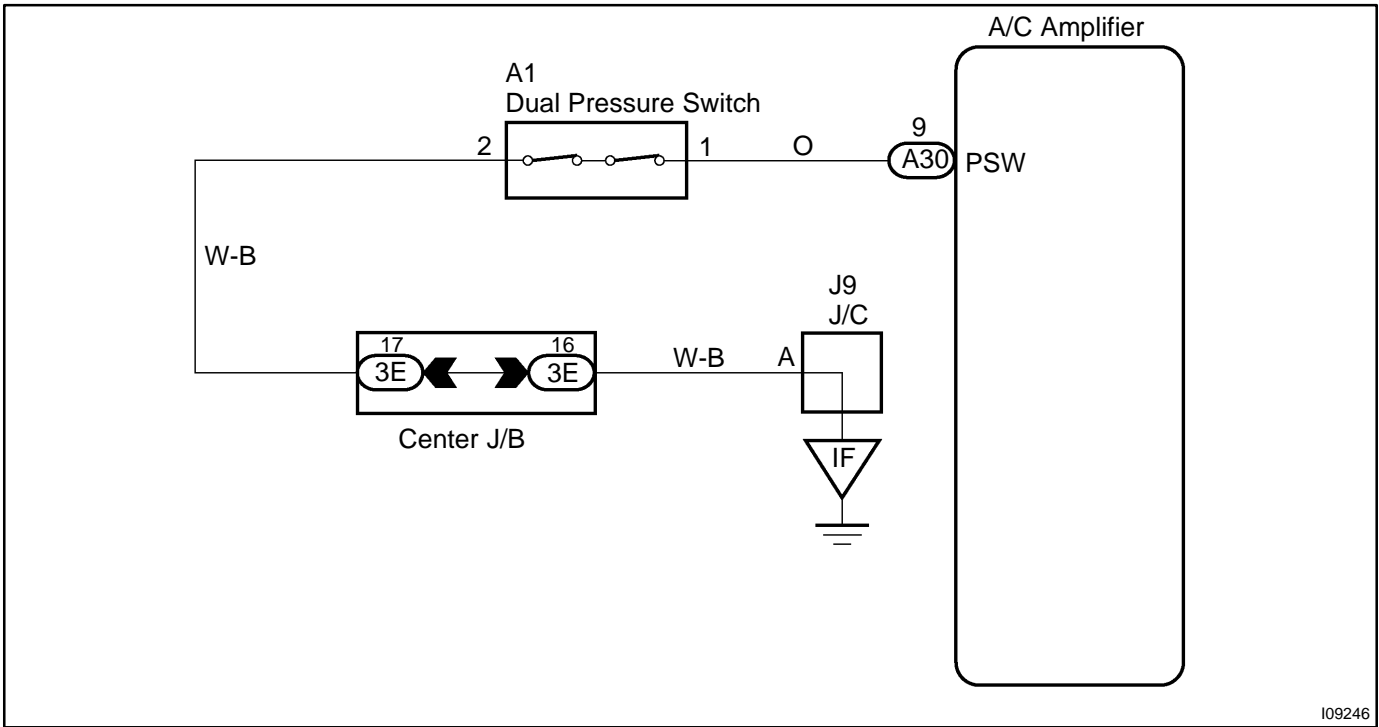
INSPECTION PROCEDURE

1	Check voltage between terminals PSW of A/C control assembly and body ground.

BE3840
I00368   I00370
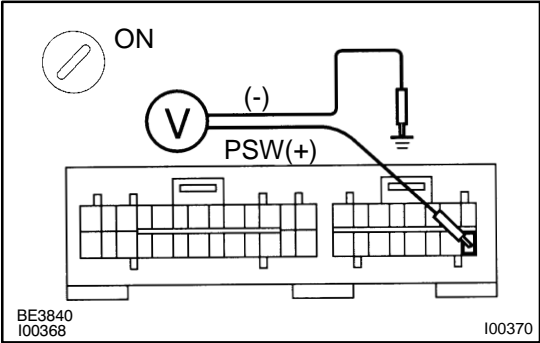
PREPARATION:

(a)   Install the manifold gauge set (See page AC-19).

(b)   Remove the A/C control assembly with connectors still connected.

(c)   Turn ignition switch to ON.

CHECK:

Check voltage between terminals PSW of A/C control assembly connector and body ground when refrigerant pressure is changed.

OK:

> **The voltage changes refrigerant pressure, as shown in the chart below.**

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

OK	Proceed to next circuit inspection shown on problem symptoms table (See page DI-586).

NG

2	**Check pressure switch.**

N17985
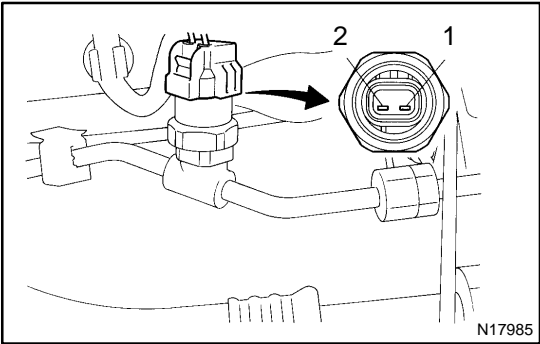
PREPARATION:
Disconnect pressure switch connector.
CHECK:
Check continuity between terminals 1 and 2 of pressure switch
when refrigerant is changed.
OK:

> **The continuity changes with refrigerant pressure as
> shown in the chart below.**

Low Pressure Cut Side	Referaence : High Pressure Cut SIde
ON (continuity) 225 kPa 196 kPa OFF (no continuity)	ON (continuity) 2,550 kPa 3,140 kPa OFF (nocontinuity)

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                    NG  >  Replace pressure switch.
OK
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3	**Check harness and connector between A/C control assembly and pressure switch, pressure switch and body ground (See page IN-28).**

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                    NG  >  Repair or replace harness or connector.
OK
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Check and replace A/C control assembly.