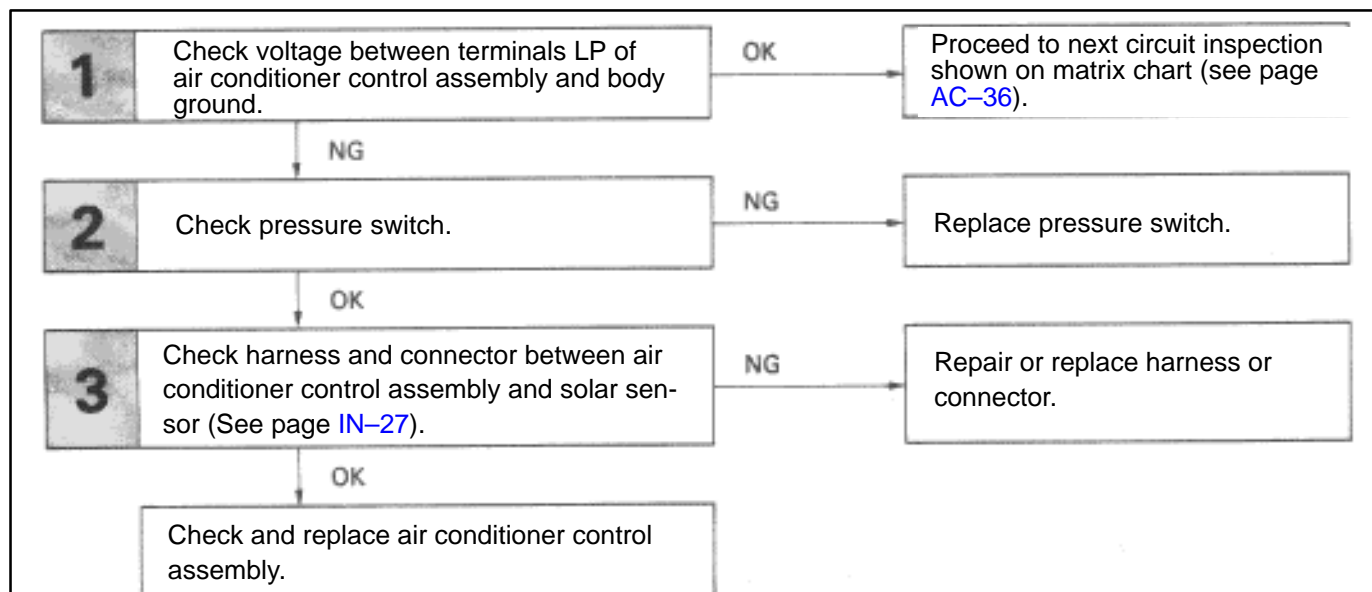


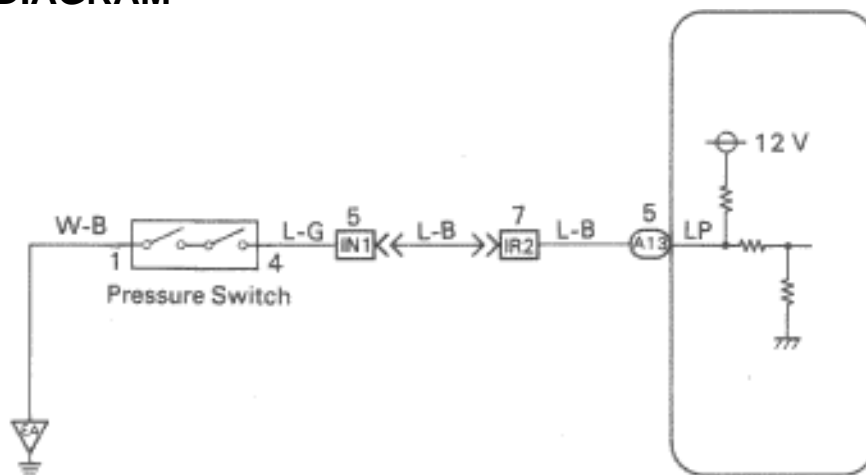
**Diag. Code 23****Pressure Switch Circuit****— CIRCUIT DESCRIPTION —**

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

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

**— DIAGNOSTIC CHART —****WIRING DIAGRAM**

A/C  
Control Assembly

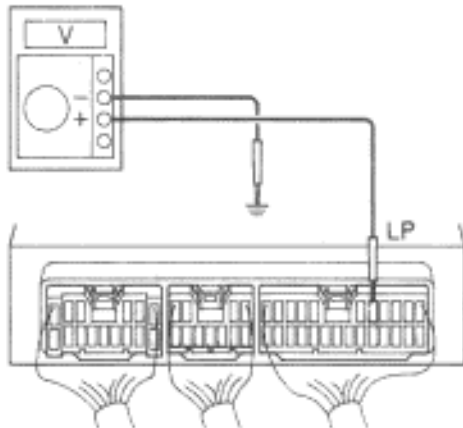


# INSPECTION PROCEDURE

## 1

Check voltage between terminals LP of air conditioner control assembly and body ground.

ON  
IG ON



BE6653  
AC2988

NG

P

1. Install the manifold gauge set. (See page [AC-15](#))

C

2. turn ignition switch ON.

Check voltage between terminal LP of air conditioner control assembly connector and body ground when air conditioner gas pressure is changed.

OK

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

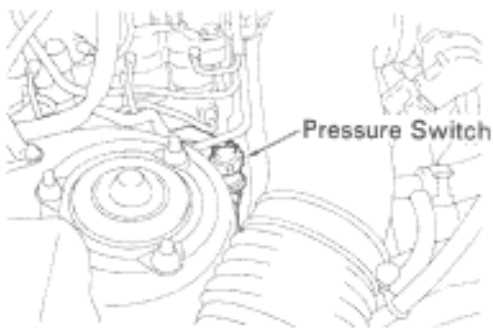
Low Pressure Cut Side	<Reference> High pressure Cut Side
ON (0 V) 2.3 kgf/cm <sup>2</sup>	ON (0 V) 21 kgf/cm <sup>2</sup>
OFF (12 V) 2.1 kgf/cm <sup>2</sup>	OFF (12 V) 27 kgf/cm <sup>2</sup>

OK

Proceed to next circuit inspection shown on matrix chart (See page [AC-36](#)).

## 2

Check pressure switch.



N00709

OK

P

Disconnect pressure switch connector.

C

Check continuity between terminals 1 and 4 of pressure switch when air conditioner 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) 2.3 kgf/cm <sup>2</sup>	ON (continuity) 21 kgf/cm <sup>2</sup>
OFF (no continuity) 2 kgf/cm <sup>2</sup>	OFF (no continuity) 27 kgf/cm <sup>2</sup>

NG

Replace pressure switch.

## 3

Check for open and short in harness and connector between air conditioner control assembly and pressure switch, pressure switch and body ground (See page [IN-27](#)).

OK

NG

Repair or replace harness or connector.

Check and replace air conditioner control assembly.