

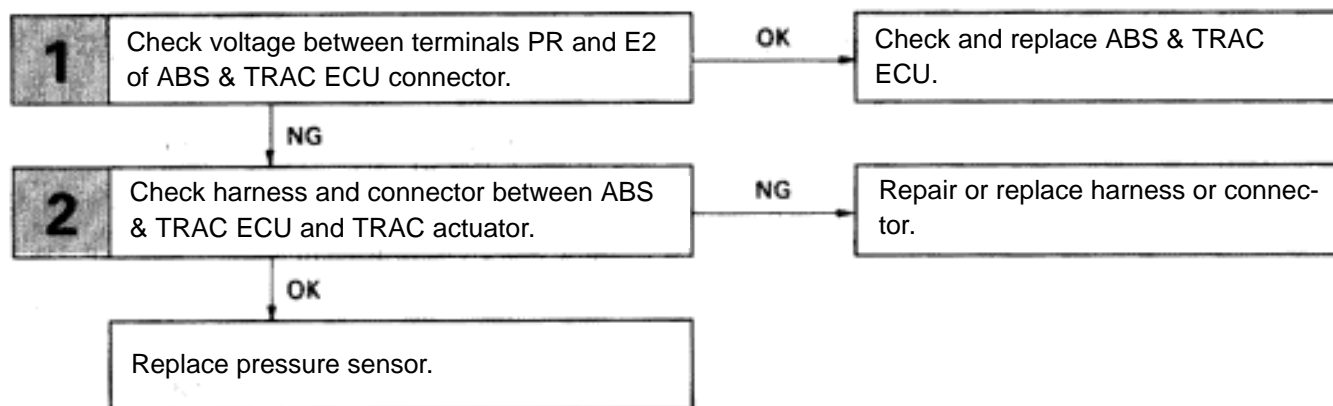
Diag. Code 53, 56, 57 **Pressure Sensor Circuit**

— CIRCUIT DESCRIPTION —

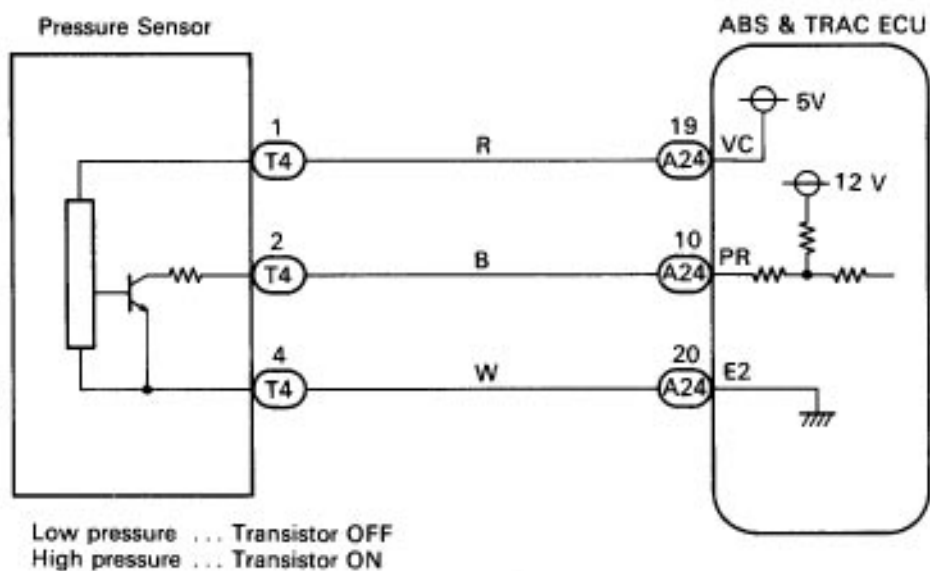
The pressure sensor detects the TRAC accumulator hydraulic pressure and if it is low, it sends signals to the ECU to operate the pump. If the pressure is high, it sends signals to the ECU to stop the pump.

Code No.	Diagnostic Code Detecting Condition	Trouble Area
53	Either of the following (1) or (2) is detected: (1) Motor relay ON signal continues for more than 39 sec. when pressure sensor does not detect high pressure (ON) at all after ignition switch is turned ON. (2) Motor relay ON signal continues for more than 12 sec. when pressure sensor detects high pressure (ON) after ignition switch is turned ON.	<ul style="list-style-type: none"> •Pressure sensor •Short in pressure sensor circuit. •Brake fluid leakage.
56	Pressure sensor terminal PR outputs below 1 V for about 1 sec. or more.	<ul style="list-style-type: none"> •Open or short in pressure sensor circuit.
57	TRAC control is executed continuously more than 255 times while pressure sensor ON signal is not output.	<ul style="list-style-type: none"> •Pressure sensor

Fail safe function: If trouble occurs in the pressure sensor circuit, the ECU cuts off the current to the ABS solenoid relay and prohibits ABS control.


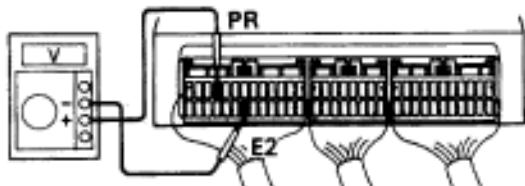
DIAGNOSTIC CHART

HINT: Check for leakage of brake fluid at each part when diag. code No.53 is output.

WIRING DIAGRAM

INSPECTION PROCEDURE

1

Check voltage between terminals PR and E2 of ABS & TRAC ECU connector.

 ON
IG ON

 BE6653
BR5447

NG

P

1. Remove ABS & TRAC ECU with connectors still connected.
2. Operate the engine for about 30 seconds at idle speed to raise the pressure of the TRAC actuator to a high level.

C

1. Stop the engine and then turn ignition switch ON.
2. Measure voltage between terminals PR and E2 of ABS & TRAC ECU connector.

OK

Voltage: 5 – 7V

C

1. Drain the fluid out of the actuator to reduce the pressure (See page [BR-48](#)).
2. Measure voltage between terminals PR and E2 of ABS & TRAC ECU connector.

OK

Notes

Voltage: 10 – 14V**Add fluid to reservoir after the check**

OK

Check and replace ABS & TRAC ECU.

2

Check harness and connector between ABS & TRAC ECU and TRAC actuator (See page [IN-27](#)).

OK

NG

Repair or replace harness or connector.

Replace pressure sensor.