SLIDE POSITION SENSOR CIRCUIT (LH)

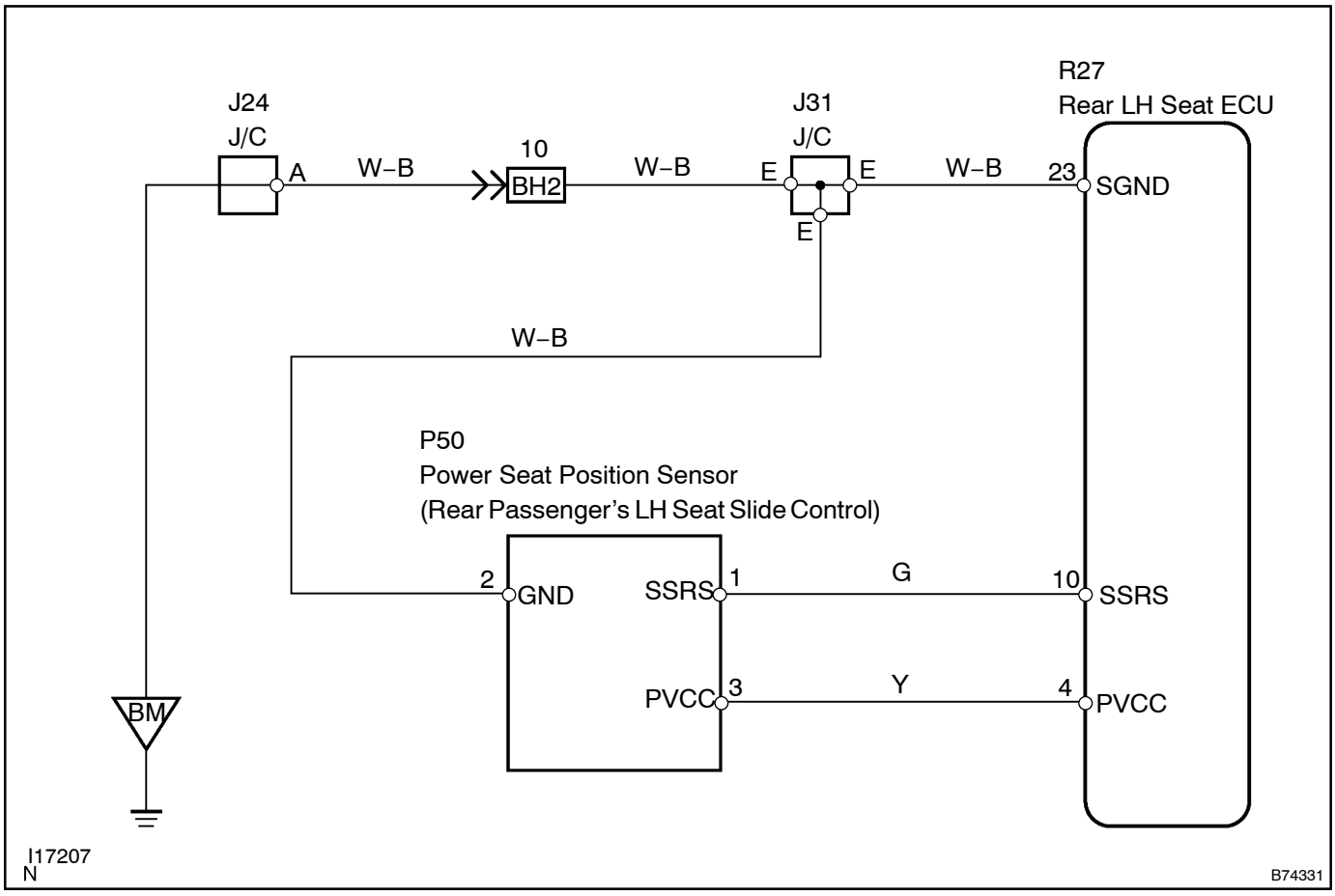
CIRCUIT DESCRIPTION

The position sensor detects seat movement and sends pulse signals to the rear LH seat ECU for use with the memory function.

The position sensor sends pulses to the ECU in proportion to the amount of seat movement. The ECU records the number of pulses relative to a previously recorded seat position and uses this data to return the seat to that position.

If a malfunction occurs in a position sensor and seat movement does not result in pulse signals being input into the ECU, the ECU deactivates the memory function.

WIRING DIAGRAM



INSPECTION PROCEDURE

1	READ VALUE OF INTELLIGENT TESTER II

(a) Connect the intelligent tester II to the DLC3.
(b) Turn the ignition switch ON and press the intelligent tester II main switch ON.
(c) Select the item below in the DATA LIST and read the displays on the intelligent tester II.
(d) Watch the intelligent tester II screen while adjusting the seat with the power seat control switches. Check that the position sensor value changes.
(e) Watch the intelligent tester II screen while adjusting the seat with the power seat control switches. Check that the motor status changes from STANDBY to MOVING.

HINT:
When the seat is at an extreme position (for example, seat back position fully forward or sliding position fully rearward) and the power seat control switch is held down, the motor status should read LOCK. When the switch is released, the motor status should change to STANDBY.

Rear LH seat ECU:

Item	Measurement Item/ Display (Range)	Normal Condition
Slide Pos	Rear seat slide position/ MIN: –16384 MAX: 49152	Within range from –16384 to 49152
Motor Status	Motor status/ STANDBY or MOVING or LOCK	STANDBY: motor is idle MOVING: motor is moving LOCK: motor is locked

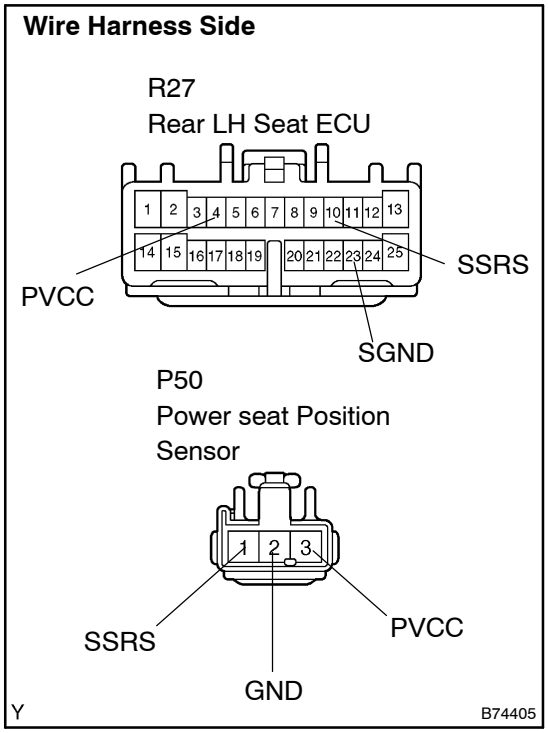
OK:
Position sensor values should vary within the minimum and maximum values shown in the chart above.
For the tester's motor status item, the display should change between STANDBY, MOVING and LOCK according to the chart above.

NG → **Go to step 2**

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN ON PROBLEM SYMPTOMS TABLE (See page 05–2340)

2 CHECK WIRE HARNESS (REAR LH SEAT ECU – POWER SEAT POSITION AND BODY GROUND)



(a) Disconnect the R27 ECU and P50 sensor connectors.
(b) Measure the resistance of the wire harness side connectors.

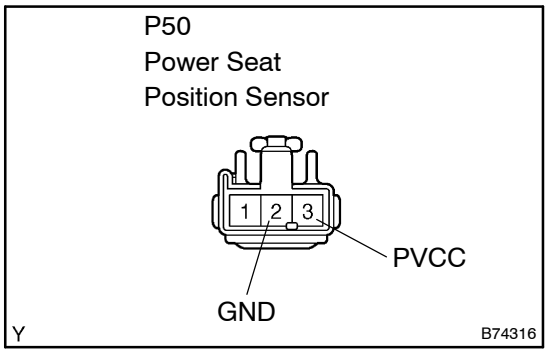
Standard:

Tester Connection	Specified Condition
R27–10 (SSRS) – R50–1 (SSRS)	Below 1 Ω
R27–4 (PVCC) – P50–3 (PVCC)	Below 1 Ω
R27–23 (SGND) – Body ground	Below 1 Ω
P50–2 (GND) – Body ground	Below 1 Ω

NG → **REPAIR OR REPLACE HARNESS AND CONNECTOR**

OK

3 CHECK REAR LH SEAT ECU (SENSOR POWER SOURCE VOLTAGE)



(a) Disconnect P50 sensor connector.
(b) Turn the ignition switch ON.
(c) Measure the voltage of the ECU connector.

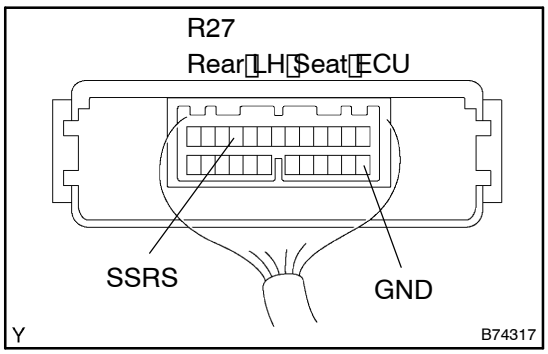
Standard:

Tester Connection	Specified Condition
P50–3 (PVCC) – P50–2 (GND)	8 V

NG → **REPLACE REAR LH SEAT ECU**

OK

4 CHECK POWER SEAT POSITION SENSOR



(a) Turn the ignition switch ON.

(b) Measure the voltage of the ECU connector.

Standard:

Tester Connection	Specified Condition
R27–10 (SSRS) – R27–14 (GND)	Varies between 0 V and approx. 8 V

HINT:

Slide the LH rear seat forward and rearward. Check that the voltage readings vary within the "specified condition" shown in the chart above.

NG → **REPLACE REAR SEAT INNER TRACK LH**

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN ON PROBLEM SYMPTOMS TABLE (See page 05–2340)