

Position Sensor Circuit

CIRCUIT DESCRIPTION

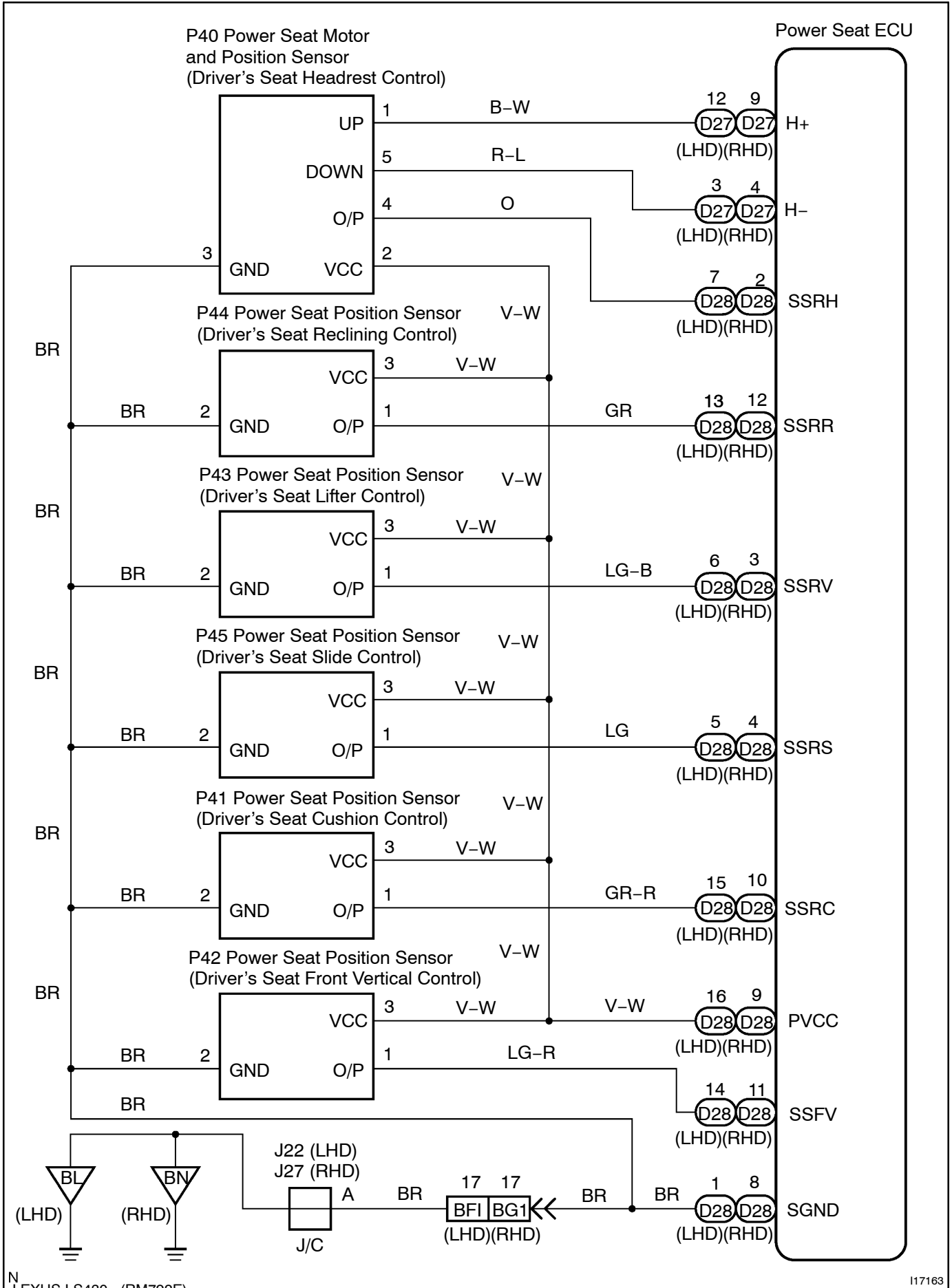
The position sensor senses movement of the seat and sends pulse signals to the ECU.

The position sensor sends pulses to the ECU in proportion to the amount of seat movement.

The ECU uses the number of pulses to constantly calculate the position relative to the memory position and returns the seat to the memorized position.

If a malfunction occurs in a position sensor and a sensor signal is not input to the ECU even when the motor operates, the ECU prohibits the return operation.

WIRING DIAGRAM



INSPECTION PROCEDURE

HINT:

In case of not using the LEXUS hand-held tester, start from STEP 2.

1 Check position sensor signal.

PREPARATION:

Connect the LEXUS hand-held tester to the DLC3.

CHECK:

- (a) Enter into the DATA LIST function of the LEXUS hand-held tester.
- (b) When operating each adjustment function of seat by turning the power seat control switch of the vehicle, check that "Position sensor" value changes on the screen of LEXUS hand-held tester.
- (c) When operating each adjustment function of seat by turning the power seat control switch of the vehicle, check that "Motor status" changes from OFF to ON on the screen of LEXUS hand-held tester.

HINT:

When the seat is moved to the limit positions, "Lock" is displayed in the column of "Motor status" on the screen of LEXUS hand-held tester. At that time, releasing the power seat control switch turns it OFF.

NG

Check and replace power seat ECU (See page IN-35).

OK

2 Check position sensor.

NG

Replace power seat motor.

OK

3 Check harness and connectors between power seat ECU and position sensors (See page IN-35).

NG

Repair or replace harness or connectors.

OK

Check and replace power seat ECU (See page IN-35).