

Limit Switch Circuit

— CIRCUIT DESCRIPTION —

Slide neutral limit switch: this switch is on when passenger's seat is slided approx. 120 or more from the most back position.

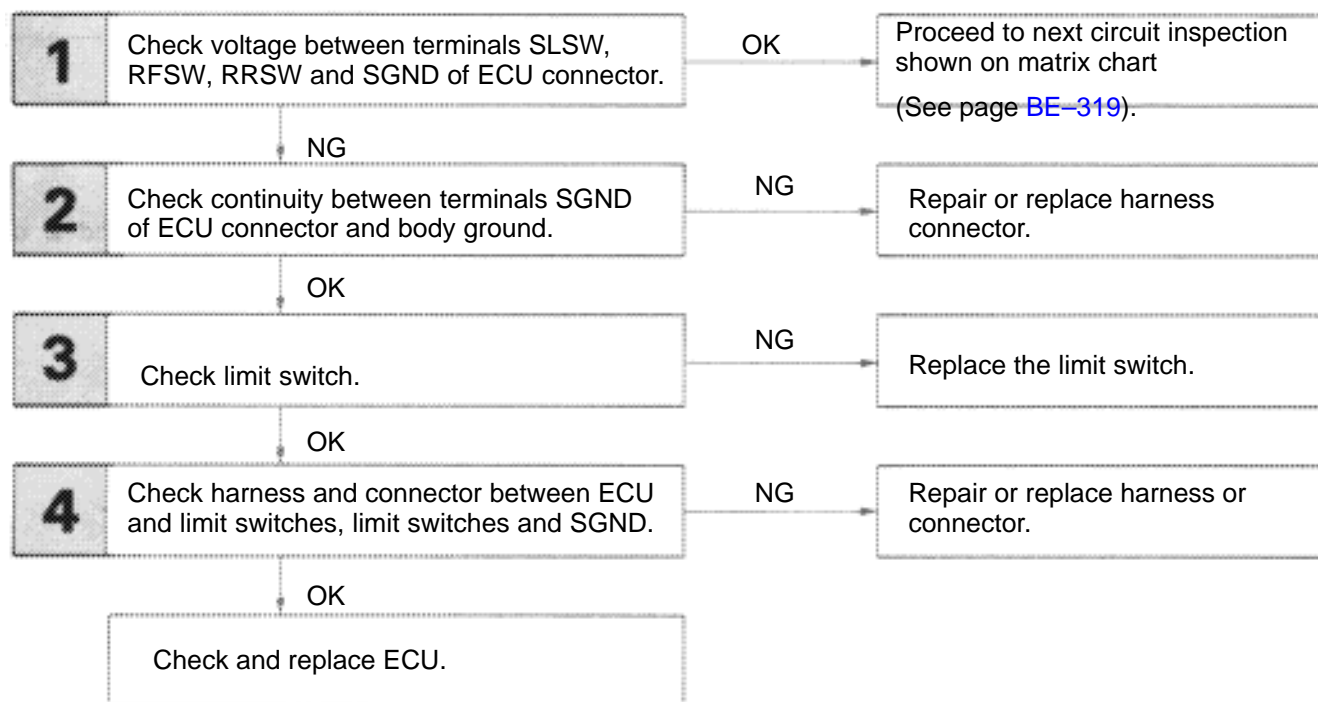
Reclining front limit switch: this switch is on, when passenger's seat back is reclining forward.

Reclining rear limit switch: when passenger's seat back returns to upright, this is on.

— DIAGNOSTIC CHART —

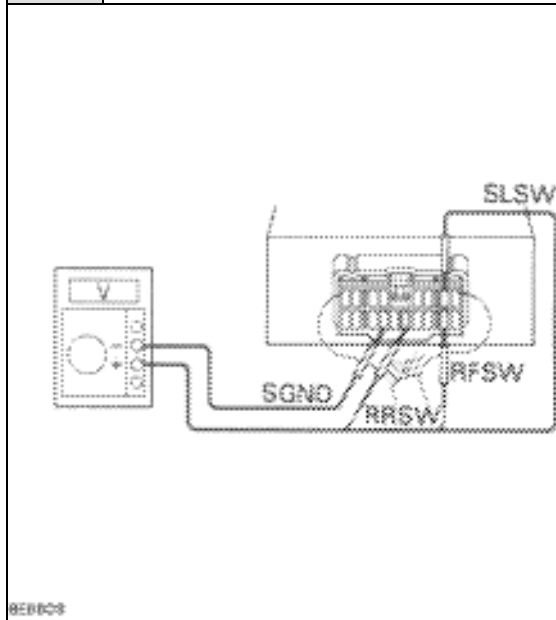
For each symptom, inspect the circuit indicated in the table.

| Symptom | Inspection circuit |
|--|---|
| <ul style="list-style-type: none"> Only return operation is not functioning. Seat returns to rear most position during return operation. | Slide neutral limit switch. |
| <ul style="list-style-type: none"> Walk-in function and return function do not operate. (However, they operate when using the manual switch). | Reclining front limit switch. Reclining rear limit switch. |
| <ul style="list-style-type: none"> Only walk-in operation is not functioning. | Reclining front limit switch. |



INSPECTION PROCEDURE

1 Check voltage between terminals SLSW, RFSW, RRSW and SGND of ECU connector.



P Remove ECU with connector still connected.

C Measure voltage between each terminal and SGND of ECU connector.

When each limit switch is on and off.

OK

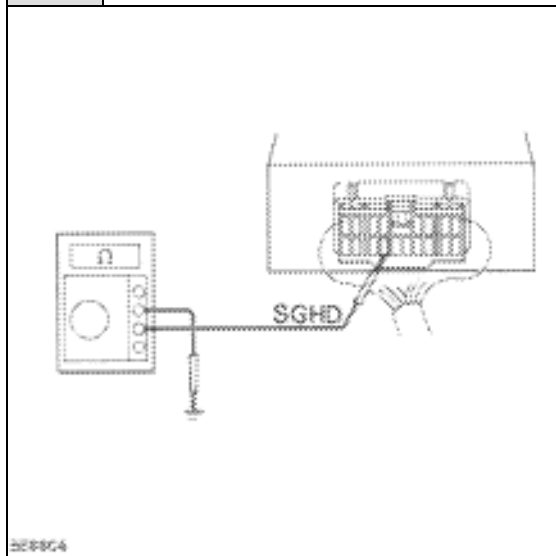
| Switch condition | Condition | Voltage |
|------------------------------|---|-----------|
| Slide neutral limit switch | ON Seat is forward of the neutral position. | Below 1 V |
| | OFF Seat is to the rear of the neutral position. | 10 – 14 V |
| Reclining front limit switch | ON Seat back is fully reclined. | Below 1 V |
| | OFF Others | 10 – 14 V |
| Reclining rear limit switch | ON Seat back is in the upright position | Below 1 V |
| | OFF Others | 10 – 14 V |

NG

OK

Proceed to next circuit inspection shown on matrix chart (See page [BE-319](#)).

2 Check continuity between terminal SGND of ECU connector and body ground.



P Remove ECU with connector still connected.

C Measure resistance between SGND of ECU connector and body ground.

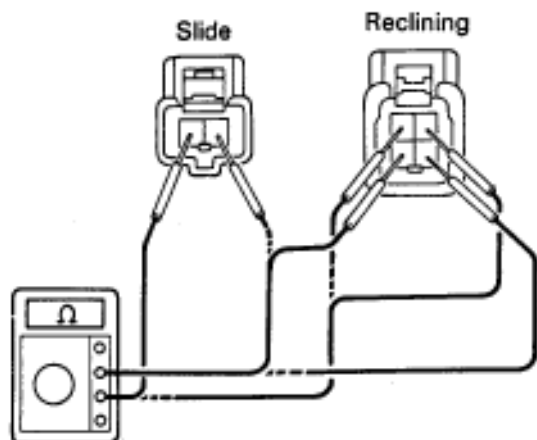
OK Resistance: 1 Ω or less

OK

NG

Repair or replace harness or connector.

Go to step [3].

3 Check each limit switch.**P** Disconnect limit switch connector.**C** Check continuity of each terminal of limit switch.**OK**

| Switch condition | Condition | Voltage |
|------------------------------|-----------|--|
| Slide neutral limit switch | ON | Seat is forward of the neutral position. |
| | OFF | Seat is to the rear of the neutral position. |
| Reclining front limit switch | ON | Seat back is fully reclined. |
| | OFF | Others |
| Reclining rear limit switch | ON | Seat back is in the upright position |
| | OFF | Others |

OK**NG**

Replace the limit switch.

4Check for open and short in harness and connector between ECU and limit switches, limit switches and SGND (See page [IN-27](#)).**OK****NG**

Repair or replace harness or connector.

Check and replace ECU.

WIRING DIAGRAM