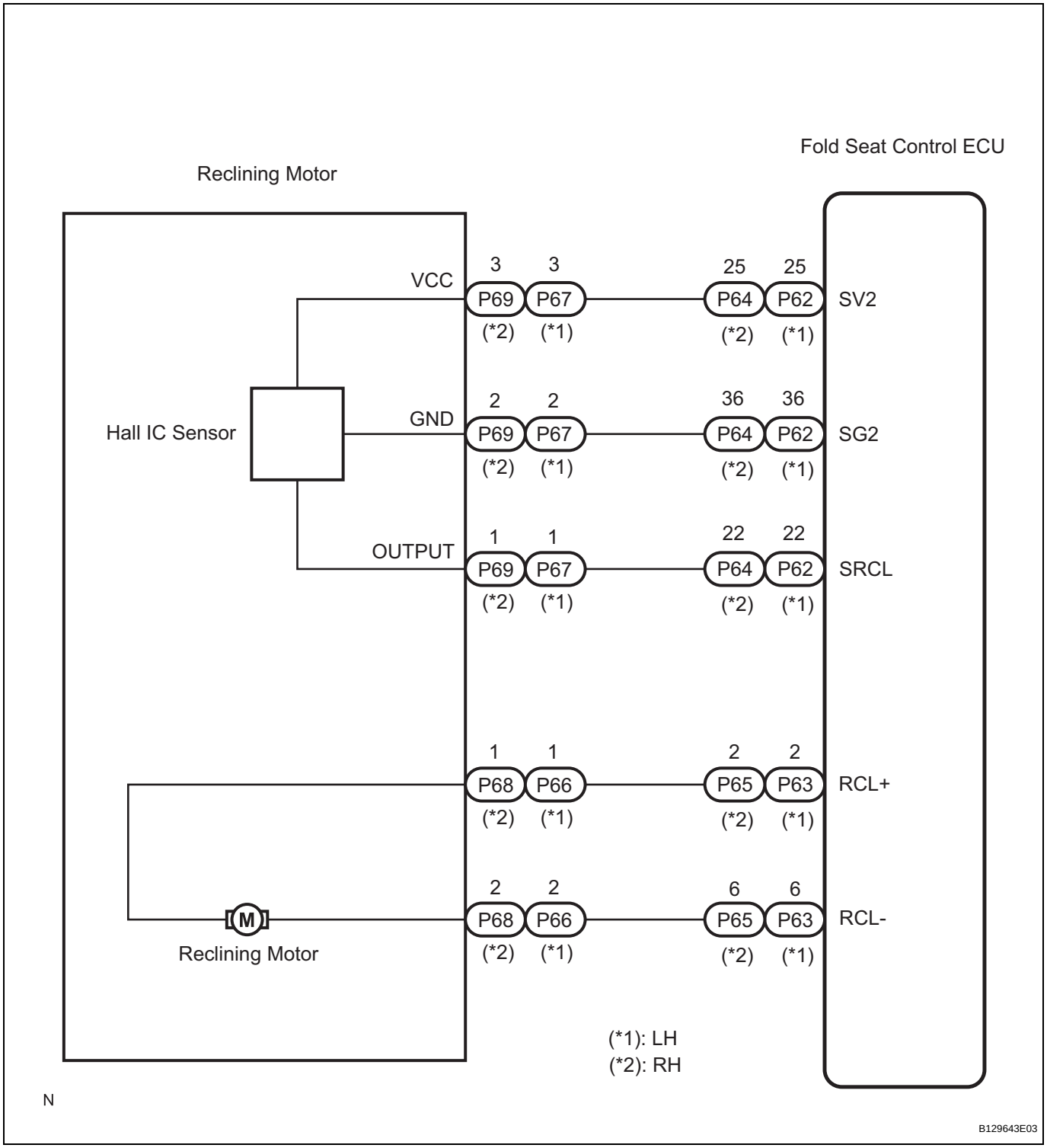
Reclining Motor Circuit

DESCRIPTION

The fold seat control ECU receives a switch operation signal from the power rear no. 2 seat switch and the fold seat switch, and activates the reclining motor. At this time, the Hall IC (seatback position sensor) detects the actuation of the seatback and sends a seatback actuation signal to the fold seat control ECU. The fold seat control ECU uses signals from the Hall IC (seatback position sensor) to detect if an object is caught or if any other abnormal condition has occurred.

WIRING DIAGRAM

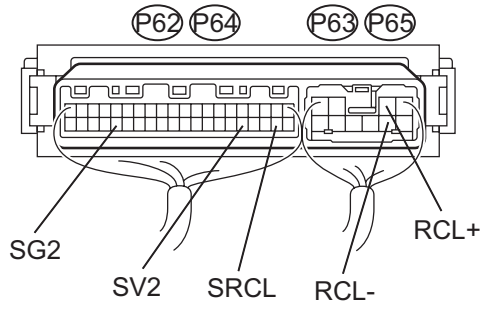


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INSPECTION PROCEDURE

1	INSPECT FOLD SEAT CONTROL ECU

Fold Seat Control ECU Connector Wire Harness View:



(a) Remove the fold seat control ECU with connectors still connected.

(b) Measure the voltage according to the value(s) in the table below.

Standard voltage:

LH side

Tester connection (Symbols)	Condition	Specified condition
P63-2 (RCL+) - P63-6 (RCL-)	Power rear no. 2 seat switch: FORWARD Back door: OPEN Lock switch: UNLOCK	10 to 14 V
P63-6 (RCL-) - P63-2 (RCL+)	Power rear no. 2 seat switch: BACKWARD Back door: OPEN Lock switch: UNLOCK	10 to 14 V
P62-22 (SRCL) - P62-36 (SG2)	Motor is operating	Below 1 V ⟷ 10 to 14 V Pulse generation
P62-25 (SV2) - P62-36 (SG2)	Back door: OPEN	9 to 14 V

RH side

Tester connection (Symbols)	Condition	Specified condition
P65-2 (RCL+) - P65-6 (RCL-)	Power rear no. 2 seat switch: FORWARD Back door: OPEN Lock switch: UNLOCK	10 to 14 V
P65-6 (RCL-) - P65-2 (RCL+)	Power rear no. 2 seat switch: BACKWARD Back door: OPEN Lock switch: UNLOCK	10 to 14 V
P64-22 (SRCL) - P64-36 (SG2)	Motor is operating	Below 1 V ⟷ 10 to 14 V Pulse generation
P64-25 (SV2) - P64-36 (SG2)	Back door: OPEN	9 to 14 V

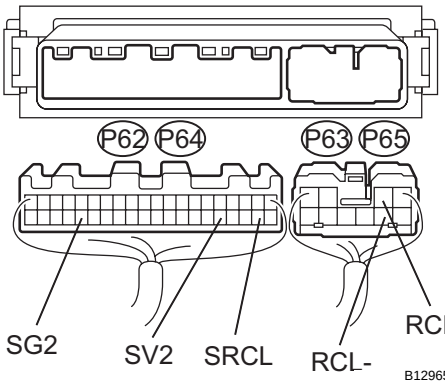
OK → **PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE**

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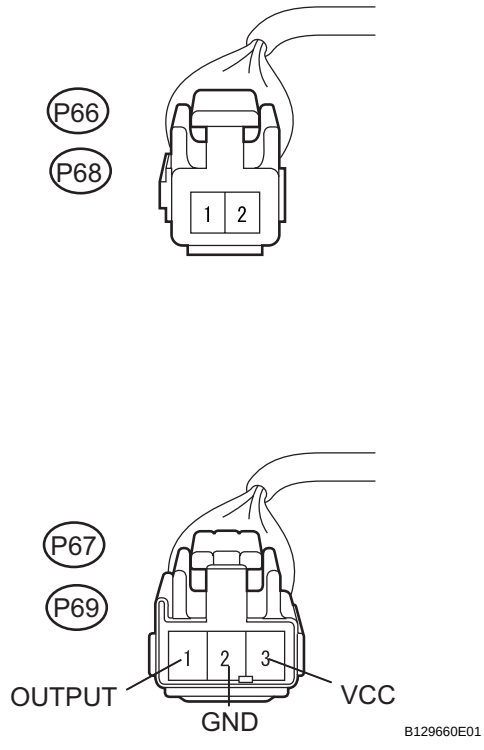
2	CHECK HARNESS AND CONNECTOR (FOLD SEAT CONTROL ECU - RECLINING MOTOR)

Fold Seat Control ECU Connector Wire Harness View:



(a) Disconnect the connectors from the fold seat control ECU.

Reclining Motor Connector Front View:



(b) Disconnect the connectors from the reclining motor.
(c) Measure the resistance according to the value(s) in the table below.

Standard resistance:

LH side

Tester Connection (Symbols)	Condition	Specified Condition
P63-2 (RCL+) - P66-1	Always	Below 1 Ω
P63-6 (RCL-) - P66-2	Always	Below 1 Ω
P62-22 (SRCL) - P67-1 (OUTPUT)	Always	Below 1 Ω
P62-25 (SV2) - P67-3 (VCC)	Always	Below 1 Ω
P62-36 (SG2) - P67-2 (GND)	Always	Below 1 Ω
P63-2 (RCL+) - Body ground	Always	10 kΩ or higher
P63-6 (RCL-) - Body ground	Always	10 kΩ or higher
P62-22 (SRCL) - Body ground	Always	10 kΩ or higher
P62-25 (SV2) - Body ground	Always	10 kΩ or higher
P62-36 (SG2) - Body ground	Always	10 kΩ or higher

RH side

Tester Connection (Symbols)	Condition	Specified Condition
P65-2 (RCL+) - P68-1	Always	Below 1 Ω
P65-6 (RCL-) - P68-2	Always	Below 1 Ω
P64-22 (SRCL) - P69-1 (OUTPUT)	Always	Below 1 Ω
P64-25 (SV2) - P69-3 (VCC)	Always	Below 1 Ω

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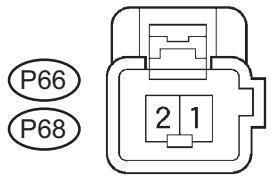
Tester Connection (Symbols)	Condition	Specified Condition
P64-36 (SG2) - P69-2 (GND)	Always	Below 1 Ω
P65-2 (RCL+) - Body ground	Always	10 kΩ or higher
P65-6 (RCL-) - Body ground	Always	10 kΩ or higher
P64-22 (SRCL) - Body ground	Always	10 kΩ or higher
P64-25 (SV2) - Body ground	Always	10 kΩ or higher
P64-36 (SG2) - Body ground	Always	10 kΩ or higher

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

OK

3 INSPECT RECLINING MOTOR

Reclining Motor Connector Front View:



B168181E01

(a) Check reclining motor operation.
(1) Check if the motor rotates smoothly when the battery is connected to the reclining motor.
OK:
LH side

Measurement Condition	Specified Condition
Battery positive (+) →P66-1 Battery negative (-) → P66-2	FORWARD
Battery positive (+) →P66-2 Battery negative (-) → P66-1	BACKWARD

RH side

Measurement Condition	Specified Condition
Battery positive (+) →P68-1 Battery negative (-) → P68-2	FORWARD
Battery positive (+) →P68-2 Battery negative (-) → P68-1	BACKWARD

NG → **REPLACE RECLINING MOTOR**

OK

REPLACE FOLD SEAT CONTROL ECU

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