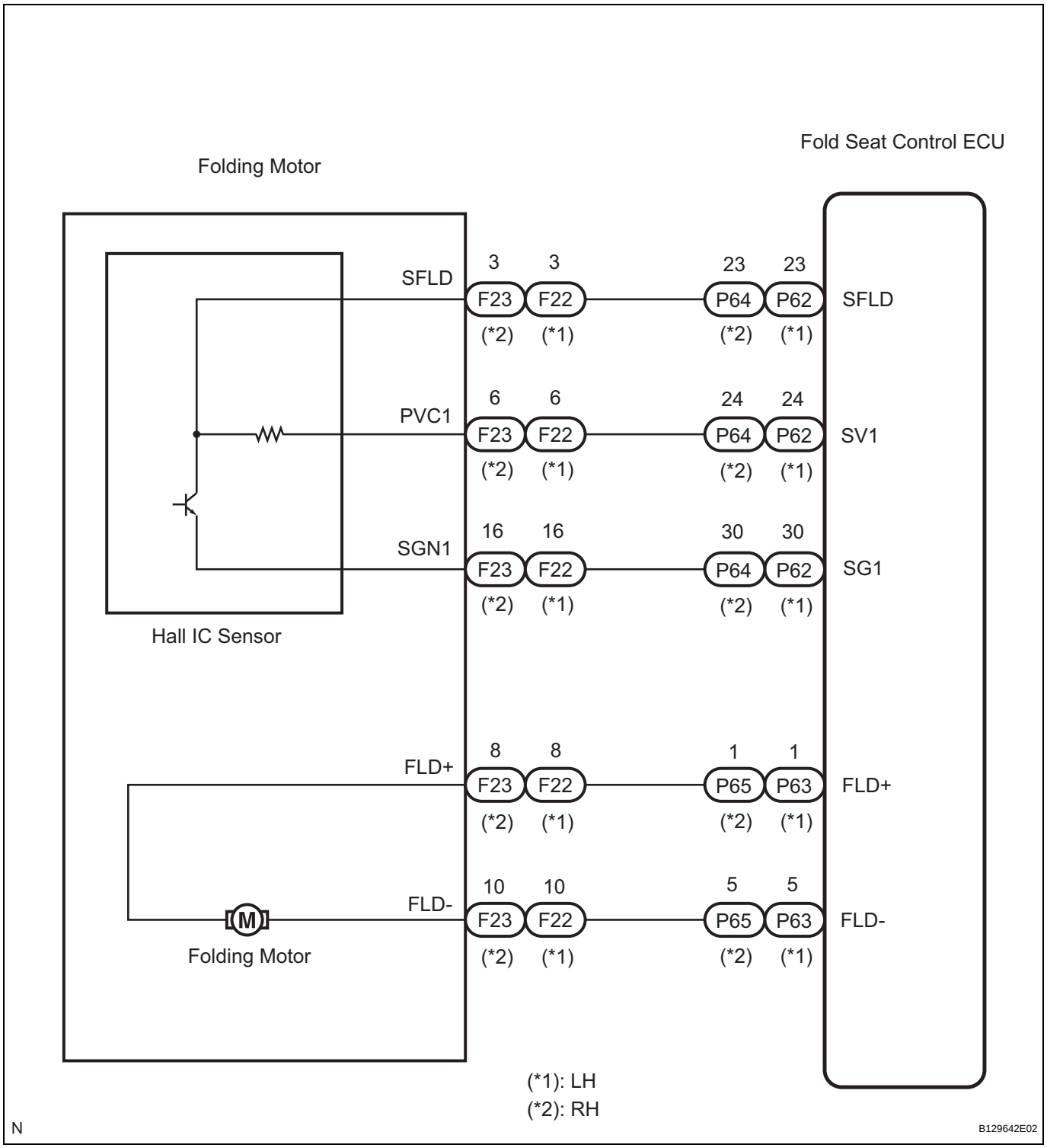
Folding Motor Circuit

DESCRIPTION

The fold seat control ECU receives a switch operation signal from the fold seat switch and activates the folding motor. At this time, the Hall IC (seat cushion position sensor) detects the actuation signal. The fold seat control ECU uses signals from the Hall IC (seat cushion position sensor) to detect if an object if an object is caught or if any other abnormal condition has occurred.

WIRING DIAGRAM



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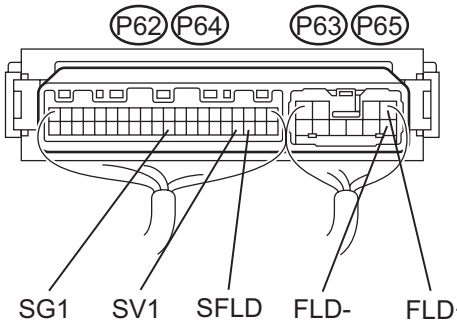
INSPECTION PROCEDURE

1	INSPECT FOLD SEAT CONTROL ECU

Fold Seat Control ECU Connector Wire Harness View:



(a) Remove the fold seat control ECU.
(b) Measure the voltage according to the value(s) in the table below.

Standard voltage:

LH side

Tester connection (Symbols)	Condition	Specified condition
P63-1 (FLD+) - P63-5 (FLD-)	Stowing/Return switch: STOWING Back door: OPEN Ignition switch: OFF Park/Neutral switch: P position	10 to 14 V
P63-5 (FLD-) - P63-1 (FLD+)	Stowing/Return switch: RETURN Back door: OPEN Ignition switch: OFF Park/Neutral switch: P position	10 to 14 V
P62-23 (SFLD) - P62-30 (SG1)	Motor is operating	Below 1 V ⟷ 10 to 14 V Pulse generation
P62-24 (SV1) - P62-30 (SG1)	Back door: OPEN	9 to 14 V

RH side

Tester connection (Symbols)	Condition	Specified condition
P65-1 (FLD+) - P65-5 (FLD-)	Stowing/Return switch: STOWING Back door: OPEN Ignition switch: OFF Park/Neutral switch: P position	10 to 14 V
P65-5 (FLD-) - P65-1 (FLD+)	Stowing/Return switch: RETURN Back door: OPEN Ignition switch: OFF Park/Neutral switch: P position	10 to 14 V
P64-23 (SFLD) - P64-30 (SG1)	Motor is operating	Below 1 V ⟷ 10 to 14 V Pulse generation
P64-24 (SV1) - P64-30 (SG1)	Back door: OPEN	9 to 14 V

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

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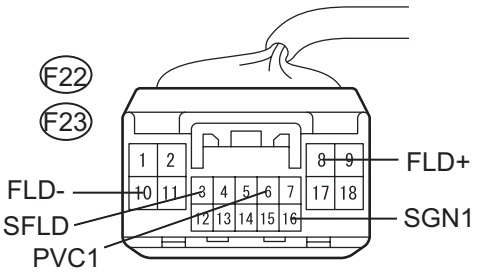
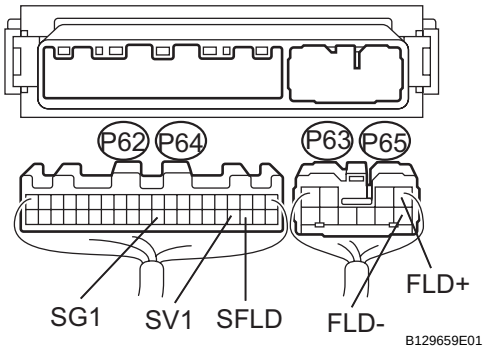
2 CHECK HARNESS AND CONNECTOR (FOLD SEAT CONTROL ECU - FOLDING MOTOR)

Folding Motor Connector Front View:



Fold Seat Control ECU Connector Wire Harness View:



(a) Disconnect the connector from the fold seat control ECU.
(b) Disconnect the connector from the fold seat motor.
(c) Measure the resistance according to the value(s) in the table below.

Standard resistance:

LH side

Tester Connection (Symbols)	Condition	Specified Condition
P63-1 (FLD+) - F22-8 (FLD+)	Always	Below 1 Ω
P63-5 (FLD-) - F22-10 (FLD-)	Always	Below 1 Ω
P62-23 (SFLD) - F22-3 (SFLD)	Always	Below 1 Ω
P62-24 (SV1) - F22-6 (PVC1)	Always	Below 1 Ω
P62-30 (SG1) - F22-16 (SGN1)	Always	Below 1 Ω
P63-1 (FLD+) - Body ground	Always	10 kΩ or higher
P63-5 (FLD-) - Body ground	Always	10 kΩ or higher
P62-23 (SFLD) - Body ground	Always	10 kΩ or higher
P62-24 (SV1) - Body ground	Always	10 kΩ or higher
P62-30 (SG1) - Body ground	Always	10 kΩ or higher

RH side

Tester Connection (Symbols)	Condition	Specified Condition
P65-1 (FLD+) - F23-8 (FLD+)	Always	Below 1 Ω
P65-5 (FLD-) - F23-10 (FLD-)	Always	Below 1 Ω
P64-23 (SFLD) - F23-3 (SFLD)	Always	Below 1 Ω
P64-24 (SV1) - F23-6 (PVC1)	Always	Below 1 Ω
P64-30 (SG1) - F23-16 (SGN1)	Always	Below 1 Ω
P65-1 (FLD+) - Body ground	Always	10 kΩ or higher
P65-5 (FLD-) - Body ground	Always	10 kΩ or higher
P64-23 (SFLD) - Body ground	Always	10 kΩ or higher
P64-24 (SV1) - Body ground	Always	10 kΩ or higher
P64-30 (SG1) - Body ground	Always	10 kΩ or higher

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

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE