PROBLEM SYMPTOMS TABLE

HINT:

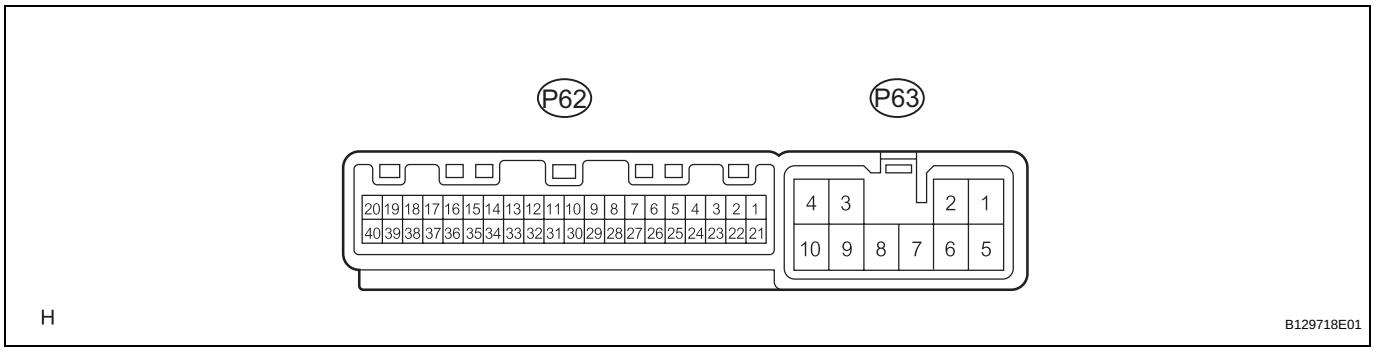
- Use the table below to help determine the cause of the problem symptom. The potential causes of the symptoms are listed in order of probability in the "Suspect Area" column of the table. Check each symptom by checking the suspected areas in the order they are listed.
  Replace parts as necessary.
- Inspect the fuse and relays related to the system before inspecting the suspected areas below.

POWER REAR NO. 2 SEAT with STOWING FUNCTION

Symptom	Suspected area	See page
No functions operate.	1. Power source circuit	SE-166
	2. Fold seat control ECU	-
The folding-down function does not operate.	1. Park/Neutral position switch circuit	SE-151
	2. Back door courtesy switch circuit	SE-155
	3. Lock switch circuit	SE-187
	4. Reclining motor circuit	SE-179
	5. Fold seat switch circuit	SE-169
	6. Folding motor circuit	SE-175
	7. Folding motor	-
	8. Fold seat control ECU	-
The return function does not operate.	1. Park/Neutral position switch circuit	SE-151
	2. Back door courtesy switch circuit	SE-155
	3. Reclining motor circuit	SE-179
	4. Folding motor circuit	SE-175
	5. Fold seat switch circuit	SE-169
	6. Release actuator circuit	SE-183
	7. Folding motor	-
	8. Release actuator	-
	9. Fold seat control ECU	-
The stowing function does not operate.	1. Park/Neutral position switch circuit	SE-151
	2. Back door courtesy switch circuit	SE-155
	3. Reclining motor circuit	SE-179
	4. Folding motor circuit	SE-175
	5. Fold seat switch circuit	SE-169
	6. Fold lock switch circuit	SE-196
	7. Folding motor	-
	8. Fold seat control ECU	-
The reclining function does not operate.	1. Lock switch circuit	SE-187
	2. Reclining motor circuit	SE-179
	3. Rear power seat switch circuit	SE-191
	4. Fold seat control ECU	-
The indicator does not come on or blink.	1. Indicator circuit	SE-159
	2. Fold seat control ECU	-

TERMINALS OF ECU

1. FOLD SEAT CONTROL ECU LH



(a) Disconnect the fold seat control ECU connectors.
(b) Measure the voltage and resistance of the wire harness side connectors.

Terminal No. (Symbols)	Wiring Color	Terminal Description	Condition	Specified Condition
P62-3 (IG) - P63-8 (GND)	B-R - W-B	Power source (IG)	Ignition switch: ON	10 to 14 V
P62-3 (IG) - P63-8 (GND)	B-R - W-B	Power source (IG)	Ignition switch: OFF	Below 1 V
P63-4 (+B) - P63-8 (GND)	B - W-B	Power source (Battery)	Always	10 to 14 V
P63-8 (GND) - Body ground	W-B - Body ground	Ground	Always	Below 1 Ω

If the result is not as specified, there may be a malfunction on the wire harness side.
(c) Reconnect the fold seat control ECU connectors.
(d) Measure the voltage of the connectors.

Terminal No. (Symbols)	Wiring Color	Terminal Description	Condition	Specified Condition
P62-5 (BDCY) - P63-8 (GND)	G-W - W-B	Back door courtesy switch signal	Back door courtesy switch: OFF	10 to 14 V
P62-5 (BDCY) - P63-8 (GND)	G-W - W-B	Back door courtesy switch signal	Back door courtesy switch: ON	Below 1 V
P62-12 (RCLF) - P63-8 (GND)	P - W-B	Reclining seat switch signal	Always	10 to 14 V
P62-12 (RCLF) - P63-8 (GND)	P - W-B	Reclining seat switch signal	Power rear no. 2 seat switch: Forward	Below 1 V
P62-13 (RCLR) - P63-8 (GND)	LG - W-B	Reclining seat switch signal	Always	10 to 14 V
P62-13 (RCLR) - P63-8 (GND)	LG - W-B	Reclining seat switch signal	Power rear no. 2 seat switch: Backward	Below 1 V
P62-14 (TBL) - P63-8 (GND)	GR-L - W-B	Fold seat switch signal (Folding)	Folding switch: OFF	10 to 14 V
P62-14 (TBL) - P63-8 (GND)	GR-L - W-B	Fold seat switch signal (Folding)	Folding switch: ON	Below 1 V
P62-15 (RTRN) - P63-8 (GND)	O - W-B	Fold seat switch signal (Return)	Stowing/Return switch: OFF	10 to 14 V
P62-15 (RTRN) - P63-8 (GND)	O - W-B	Fold seat switch signal (Return)	Stowing/Return switch: ON	Below 1 V
P62-16 (FOLD) - P63-8 (GND)	L - W-B	Fold seat switch signal (Stowing)	Stowing/Return switch: OFF	10 to 14 V
P62-16 (FOLD) - P63-8 (GND)	L - W-B	Fold seat switch signal (Stowing)	Stowing/Return switch: ON	Below 1 V
P62-22 (SRCL) - P62-36 (SG2)	V-R - GR	Seatback position sensor signal	Motor is operating	Below 1 V ⟷ 10 to 14 V Pulse generation

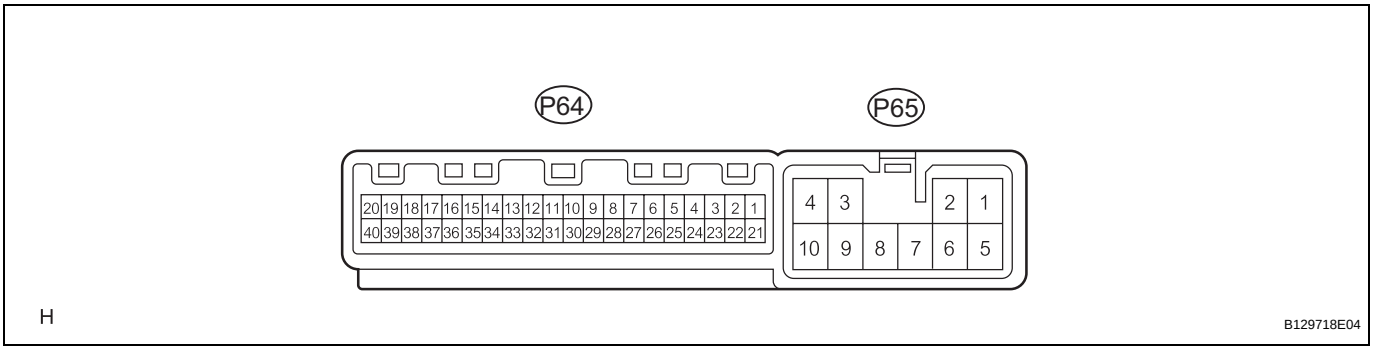
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Terminal No. (Symbols)	Wiring Color	Terminal Description	Condition	Specified Condition
P62-23 (SFLD) - P63-8 (GND)	Y-R - W-B	Seat cushion position sensor signal	Motor is operating	Below 1 V ⟷ 10 to 14 V Pulse generation
P62-24 (SV1) - P63-8 (GND)	G - W-B	Power supply for seat cushion position sensor	Back door: OPEN	9 to 14 V
P62-25 (SV2) - P63-8 (GND)	Y - W-B	Power supply for seatback position sensor	Back door: OPEN	9 to 14 V
P62-30 (SG1) - Body ground	W-L - Body ground	Ground for seat cushion position sensor	Always	Below 1 V
P62-32 (P) - P63-8 (GND)	L-Y - W-B	Park/Neutral position sensor signal	Ignition switch: ON Park/Neutral switch: P position	10 to 14 V
P62-32 (P) - P63-8 (GND)	L-Y - W-B	Park/Neutral position sensor signal	Ignition switch: ON Park/Neutral switch: Except P position	Below 1 V
P62-34 (IND2) - P63-8 (GND)	R-W - W-B	3rd SEAT indicator signal	Ignition switch: ON	10 to 14 V
P62-34 (IND2) - P63-8 (GND)	R-W - W-B	3rd SEAT indicator signal	Ignition switch: ON • When the reclining motor or fold seat control ECU is not initialized. • When any seat legs are released. • When the seatback is outside the reclining operation range.	1 to 3 V
P62-35 (IND1) - P63-8 (GND)	BR-Y - W-B	Fold seat switch indicator signal	Fold seat switch: ON Back door: OPEN • When the system detects that an object is caught. • When the seat operation conditions are not met.	Below 1.5 V
P62-35 (IND1) - P63-8 (GND)	BR-Y - W-B	Fold seat switch indicator signal	• When the system detects that an object is caught. • When the seat operation conditions are not met.	9 to 13 V
P62-36 (SG2) - Body ground	GR - Body ground	Ground for seatback position sensor	Always	Below 1 V
P62-37 (LCKR) - P63-8 (GND)	R - W-B	Fold lock switch signal	Fold lock switch: LOCK Back door: OPEN	10 to 14 V
P62-37 (LCKR) - P63-8 (GND)	R - W-B	Fold lock switch signal	Fold lock switch: UNLOCK	Below 1 V
P62-38 (LCKF) - P63-8 (GND)	Y - W-B	Lock switch signal	Lock switch: LOCK Back door: OPEN	10 to 14 V
P62-38 (LCKF) - P63-8 (GND)	Y - W-B	Lock switch signal	Lock switch: UNLOCK	Below 1 V
P63-1 (FLD+) - P63-8 (GND)	G-W - W-B	Folding motor operation signal	Stowing/Return switch: Stowing Back door: OPEN Ignition switch: OFF Park/Neutral switch: P position	10 to 14 V
P63-2 (RCL+) - P63-8 (GND)	B-Y - W-B	Reclining motor operation signal	Power rear no. 2 seat switch: Forward Back door: OPEN Lock switch: UNLOCK	10 to 14 V

Terminal No. (Symbols)	Wiring Color	Terminal Description	Condition	Specified Condition
P63-3 (RACT) - P63-8 (GND)	G-B - W-B	Release actuator operation signal	Stowing/Return switch: Return Back door: OPEN Ignition switch: OFF Park/Neutral switch: P position	10 to 14 V
P63-5 (FLD-) - P63-8 (GND)	R-Y - W-B	Folding motor operation signal	Stowing/Return switch: Return Back door: OPEN Ignition switch: OFF Park/Neutral switch: P position	10 to 14 V
P63-6 (RCL-) - P63-8 (GND)	L-B - W-B	Reclining motor operation signal	Power rear no. 2 seat switch: Backward Back door: OPEN Lock switch: UNLOCK	10 to 14 V

If the result is not as specified, the fold seat control ECU may have a malfunction.

2. FOLD SEAT CONTROL ECU RH



(a) Disconnect the fold seat control ECU connectors.
(b) Measure the voltage and resistance of the wire harness side connectors.

Terminal No. (Symbols)	Wiring Color	Terminal Description	Condition	Specified Condition
P64-3 (IG) - P65-8 (GND)	B-R - W-B	Power source (IG)	Ignition switch: ON	10 to 14 V
P64-3 (IG) - P65-8 (GND)	B-R - W-B	Power source (IG)	Ignition switch: OFF	Below 1 V
P65-4 (+B) - P65-8 (GND)	B - W-B	Power source (Battery)	Always	10 to 14 V
P65-8 (GND) - Body ground	W-B - Body ground	Ground	Always	Below 1 Ω

If the result is not as specified, there may be a malfunction on the wire harness side.

(c) Reconnect the fold seat control ECU connectors.
(d) Measure the voltage of the connectors.

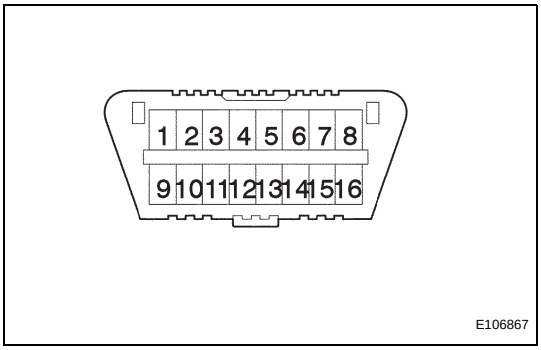
Terminal No. (Symbols)	Wiring Color	Terminal Description	Condition	Specified Condition
P64-5 (BDCY) - P65-8 (GND)	G-W - W-B	Back door courtesy switch signal	Back door courtesy switch: OFF	10 to 14 V
P64-5 (BDCY) - P65-8 (GND)	G-W - W-B	Back door courtesy switch signal	Back door courtesy switch: ON	Below 1 V
P64-12 (RCLF) - P65-8 (GND)	P - W-B	Reclining seat switch signal	Always	10 to 14 V
P64-12 (RCLF) - P65-8 (GND)	P - W-B	Reclining seat switch signal	Power rear no. 2 seat switch: Forward	Below 1 V

Terminal No. (Symbols)	Wiring Color	Terminal Description	Condition	Specified Condition
P64-13 (RCLR) - P65-8 (GND)	LG - W-B	Reclining seat switch signal	Always	10 to 14 V
P64-13 (RCLR) - P65-8 (GND)	LG - W-B	Reclining seat switch signal	Power rear no. 2 seat switch: Backward	Below 1 V
P64-14 (TBL) - P65-8 (GND)	GR-L - W-B	Fold seat switch signal (Folding)	Folding switch: OFF	10 to 14 V
P64-14 (TBL) - P65-8 (GND)	GR-L - W-B	Fold seat switch signal (Folding)	Folding switch: ON	Below 1 V
P64-15 (RTRN) - P65-8 (GND)	O - W-B	Fold seat switch signal (Return)	Stowing/Return switch: OFF	10 to 14 V
P64-15 (RTRN) - P65-8 (GND)	O - W-B	Fold seat switch signal (Return)	Stowing/Return switch: ON	Below 1 V
P64-16 (FOLD) - P65-8 (GND)	L - W-B	Fold seat switch signal (Stowing)	Stowing/Return switch: OFF	10 to 14 V
P64-16 (FOLD) - P65-8 (GND)	L - W-B	Fold seat switch signal (Stowing)	Stowing/Return switch: ON	Below 1 V
P64-22 (SRCL) - P64-36 (SG2)	V-R - GR	Seatback position sensor signal	Motor is operating	Below 1 V ←→ 10 to 14 V Pulse generation
P64-23 (SFLD) - P65-8 (GND)	Y-R - W-B	Seat cushion position sensor signal	Motor is operating	Below 1 V ←→ 10 to 14 V Pulse generation
P64-24 (SV1) - P65-8 (GND)	G - W-B	Power supply for seat cushion position sensor	Back door: OPEN	9 to 14 V
P64-25 (SV2) - P65-8 (GND)	Y - W-B	Power supply for seatback position sensor	Back door: OPEN	9 to 14 V
P64-30 (SG1) - Body ground	W-L - Body ground	Ground for Folding position sensor	Always	Below 1 V
P64-32 (P) - P65-8 (GND)	L-Y - W-B	Park/Neutral position sensor signal	Ignition switch: ON Park/Neutral switch: P position	10 to 14 V
P64-32 (P) - P65-8 (GND)	L-Y - W-B	Park/Neutral position sensor signal	Ignition switch: ON Park/Neutral switch: Except P position	Below 1 V
P64-34 (IND2) - P65-8 (GND)	R-W - W-B	3rd SEAT indicator signal	Ignition switch: ON	10 to 14 V
P64-34 (IND2) - P65-8 (GND)	R-W - W-B	3rd SEAT indicator signal	Ignition switch: ON • When the reclining motor or fold seat control ECU is not initialized. • When any seat legs are released. • When the seatback is outside the reclining operation range.	1 to 3 V
P64-35 (IND1) - P65-8 (GND)	BR-Y - W-B	Fold seat switch indicator signal	Fold seat switch: ON Back door: OPEN • When the system detects that an object is caught. • When the seat operation conditions are not met.	Below 1.5 V
P64-35 (IND1) - P65-8 (GND)	BR-Y - W-B	Fold seat switch indicator signal	• When the system detects that an object is caught. • When the seat operation conditions are not met.	9 to 13 V
P64-36 (SG2) - Body ground	GR - Body ground	Ground for seatback position sensor	Always	Below 1 V

Terminal No. (Symbols)	Wiring Color	Terminal Description	Condition	Specified Condition
P64-37 (LCKR) - P65-8 (GND)	R - W-B	Fold lock switch signal	Fold lock switch: LOCK Back door: OPEN	10 to 14 V
P64-37 (LCKR) - P65-8 (GND)	R - W-B	Fold lock switch signal	Fold lock switch: UNLOCK Back door: OPEN	Below 1 V
P64-38 (LCKF) - P65-8 (GND)	Y - W-B	Lock switch signal	Lock switch: LOCK	10 to 14 V
P64-38 (LCKF) - P65-8 (GND)	Y - W-B	Lock switch signal	Lock switch: UNLOCK	Below 1 V
P65-1 (FLD+) - P65-8 (GND)	G-W - W-B	Folding motor operation signal	Stowing/Return switch: Stowing Back door: OPEN Ignition switch: OFF Park/Neutral switch: P position	10 to 14 V
P65-2 (RCL+) - P65-8 (GND)	B-Y - W-B	Reclining motor operation signal	Power rear no. 2 seat switch: Forward Back door: OPEN Lock switch: UNLOCK	10 to 14 V
P65-3 (RACT) - P65-8 (GND)	G-B - W-B	Release actuator operation signal	Stowing/Return switch: Return Back door: OPEN Ignition switch: OFF Park/Neutral switch: P position	10 to 14 V
P65-5 (FLD-) - P65-8 (GND)	R-Y - W-B	Folding motor operation signal	Stowing/Return switch: Return Back door: OPEN Ignition switch: OFF Park/Neutral switch: P position	10 to 14 V
P65-6 (RCL-) - P65-8 (GND)	L-B - W-B	Reclining motor operation signal	Power rear no. 2 seat switch: Backward Back door: OPEN Lock switch: UNLOCK	10 to 14 V

If the result is not as specified, the fold seat control ECU may have a malfunction.

DIAGNOSIS SYSTEM



1. CHECK DLC3

(a) The vehicle uses ISO 15765-4 communication protocol.
The terminal arrangement of the DLC3 complies with SAE 1962 and matched the ISO 15765-4 format.

Symbols (Terminal No.)	Terminal Description	Condition	Specified Condition
SIL (7) - SG (5)	Bus "+" line	During transmission	Pulse generation
CG (4) - Body ground	Chassis ground	Always	Below 1 Ω
SG (5) - Body ground	Signal ground	Always	Below 1 Ω
BAT (16) - Body ground	Battery positive	Always	11 to 14 V

If the result is not as specified, the DLC3 may have a malfunction. Repair or replace the harness and connector.

SE