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1. OBTAIN INFORMATION ABOUT SYMPTOM	С
Interview the customer to obtain the malfunction information (conditions and environment when the malfunc- tion occurred) as much as possible when the customer brings the vehicle in.	D
>> GO TO 2.	
2. REPRODUCE THE MALFUNCTION INFORMATION	Е
Check the malfunction on the vehicle that the customer describes. Inspect the relation of the symptoms and the condition when the symptoms occur.	F
>> GO TO 3.	1
${f 3.}$ IDENTIFY THE MALFUNCTIONING SYSTEM WITH "SYMPTOM DIAGNOSIS"	G
Use "Symptom diagnosis" from the symptom inspection result in step 2 and then identify where to start per- forming the diagnosis based on possible causes and symptoms.	-
>> GO TO 4.	Н
4. IDENTIFY THE MALFUNCTIONING PARTS WITH "DTC/CIRCUIT DIAGNOSIS"	
Perform the diagnosis with "DTC/CIRCUIT DIAGNOSIS" of the applicable system.	I
>> GO TO 5.	
5. REPAIR OR REPLACE THE MALFUNCTIONING PARTS	SE
Repair or replace the specified malfunctioning parts.	
	Κ
>> GO TO 6. 6.FINAL CHECK	
Check that malfunctions are not reproduced when obtaining the malfunction information from the customer, referring to the symptom inspection result in step 2.	L
Are the malfunctions corrected?	M
YES >> INSPECTION END NO >> GO TO 3.	
	Ν
	0

INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

INSPECTION AND ADJUSTMENT ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Description INFOID:000000007471884

Initial setting is necessary when battery terminal is removed, driver seat control unit or passenger seat control unit is replaced.

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement INFOID:000000007471885

1.SYSTEM INITIALIZATION

Perform system initialization. Refer to SE-8, "SYSTEM INITIALIZATION : Description".

>> Work end.

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Description

INFOID:000000007471886

Initial setting is necessary when battery terminal is removed, driver seat control unit or passenger seat control unit is replaced.

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement INFOID:000000007471887

1.SYSTEM INITIALIZATION

Perform system initialization. Refer to SE-8, "SYSTEM INITIALIZATION : Description".

>> Work end. SYSTEM INITIALIZATION

SYSTEM INITIALIZATION : Description

Always perform the initialization when the battery terminal is removed, driver seat control unit or passenger seat control unit is replaced. If the initialization is not performed, power walk-in function does not operation.

SYSTEM INITIALIZATION : Special Repair Requirement

INITIALIZATION PROCEDURE

1. STEP-1

Slide the seat to the front edge.

NOTE:

If seat sliding position is already at the front edge, slide the seat backward once it to the front edge again.

>> Work end.

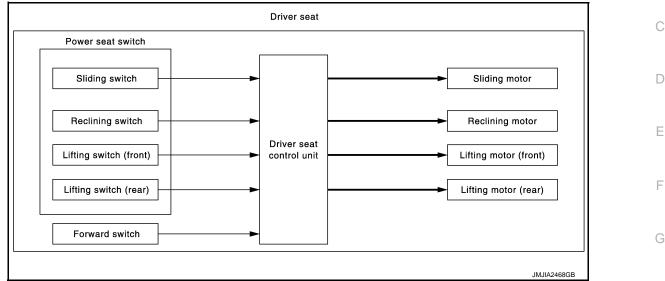
Revision: 2013 February

INFOID:000000007471888

< SYSTEM DESCRIPTION >

SYSTEM DESCRIPTION POWER SEAT FOR DRIVER SIDE POWER SEAT FUNCTION

POWER SEAT FUNCTION : System Diagram



POWER SEAT FUNCTION : System Description

- Power seat is operative regardless of the ignition switch position because power supply is always supplied to driver seat control unit.
- Driver seat control unit detects each power seat switch operation and operates applicable motor.

SLIDING OPERATION

When operating the sliding switch located in power seat switch, sliding motor operates and adjusts the front and back position of the seat.

RECLINING OPERATION

When operating the reclining switch located in power seat switch, reclining motor operates and adjusts the forward and backward position of the seatback. However, the reclining function does not operate when the forward switch is in the ON position.

LIFTING OPERATION

When operating the lifting switch located in power seat switch, lifting motor operates and adjusts the up and down position of the seat cushion (front and rear).

SLEEP MODE

- The driver seat control unit is equipped with the sleep mode to reduce the electric power consumption.
- The sleep mode is activated when all of the following conditions are satisfied.
- 1. Ignition switch turns OFF (steering LOCK position).
- 2. When no power seat motors are moving.
- 3. Power walk-in switch turns OFF.

WAKE-UP MODE

The sleep mode is cancelled when any status change is detected in the following items.

- 1. CAN communication.
- 2. Power seat switch.
- 3. Power walk-in switch.

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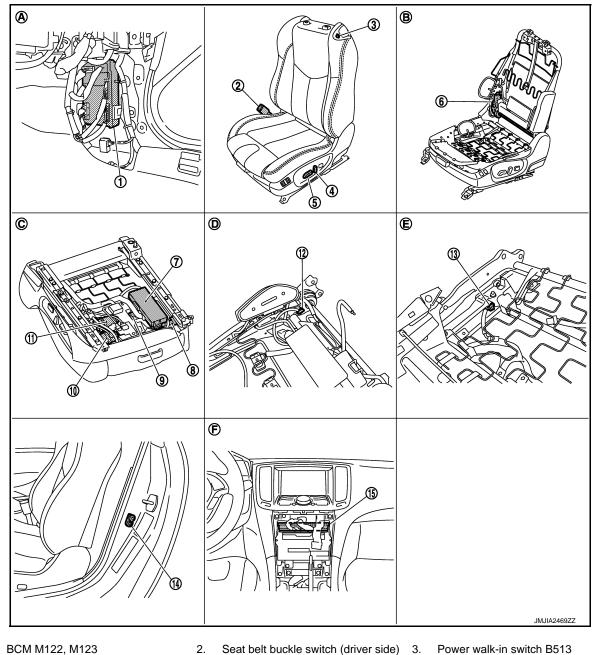
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INFOID:000000007471890

< SYSTEM DESCRIPTION >

POWER SEAT FUNCTION : Component Parts Location

INFOID:000000007471892



- 4. Reclining switch (power seat switch) 5. B511
- 7. Driver seat control unit B503, B504
- 10. Sliding motor B525

1.

- 13. Sliding limit switch B514
- Dash side lower (passenger side) Α.
- D. View with seatback pad removed

- Seat belt buckle switch (driver side) B13
 - Sliding, lifting switch (power seat switch) B511
- 8. Sliding sensor B526
- 11. Lifting motor (rear) B530
- 14. Driver side door switch B16
- Β. View with seat cushion pad and seat- C. back pad removed
- Ε. View with seat cushion pad removed F.

- Power walk-in switch B513
- 6. Reclining motor B524
- 9. Lifting motor (front) B528
- 12. Forward switch B512
- 15. Unified meter and A/C amp. M67
 - View with back side of seat cushion
 - Behind cluster lid C

< SYSTEM DESCRIPTION >

POWER SEAT FUNCTION : Component Description

INFOID:000000007471893

INFOID:000000007471894

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Item	Function
Driver seat control unit	Operates the specific seat motor with the signal from the power seat switch
Power seat switch	Built-in reclining switch, sliding switch, and lifting switch
Reclining motor	Operates forward and backward movement of seatback with the power supplied to driver seat con- trol unit.
Sliding motor	Operates forward and backward slide of seat with the power supplied to driver seat control unit.
Lifting motor (front/rear)	Operates up and down movement of seat cushion with the power supplied to driver seat control unit.
Forward switch	Detect folded down or folded up of the seatback.

POWER WALK-IN FUNCTION

POWER WALK-IN FUNCTION : System Diagram

Driver seat Power walk-in switch Forward switch Sliding motor Н Driver seat control unit Sliding sensor Sliding limit switch SE Seat belt buckle switch Κ BCM Unified meter and A/C amp. To CAN M JMJIA2370GB

POWER WALK-IN FUNCTION : System Description

OUTLINE

Automatically slides the driver seat by operating the power walk-in switch so as to easily allow entry to the rear seat.

Forward Operation

Slides the driver seat to the front end position (sliding limit switch: ON) by operating the power walk-in switch when the seatback is folded down.

The forward operation is stopped by folding the seatback (forward switch: OFF) during the forward operation.

Backward Operation

The seatback is folded up after performing the forward operation of power walk-in function. Slide the driver seat to the backward position before performing the forward operation again by operating the power walk-in switch.

If the sliding operation is performed after performing the forward operation, do not perform the backward operation.

SE-11

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< SYSTEM DESCRIPTION >

OPERATION PROCEDURE

Forward Operation

- 1. Open driver door.
- 2. Pull the walk-in lever on the upper part of seatback, and then the seatback is folded down.
- 3. Press the power walk-in switch.
- 4. Slide the seat to the front end position.

Backward Operation

- 1. Fold up the seatback after performing the forward operation.
- 2. Press the power walk-in switch.
- 3. Slide the seat to the previous position before the forward operation is performed.

OPERATION CONDITION

Perform the power walk-in function when the following conditions are satisfied.

Forward Operation

Item	Request status	
Driver side door	Open	
Driver side seat belt	Not fastened	
Power seat switch (sliding)	Not operated	
Vehicle speed	0 km/h	
Seat position (sliding)	Other than front end	
Seatback	Folded down	

Backward Operation

Item	Request status	
Initialize	Done	
Driver side seat belt	Not fastened	
Power seat switch (sliding)	Not operated	
Vehicle speed	0 km/h	
Seat position (sliding)	The seat sliding position does not move after per- forming the forward operation.	
Seatback	Folded up	

DETAIL FLOW

Forward Operation

Order	Inputs	Outputs	Control unit condition
1 Forward switch		_	Driver seat control unit detects that the seatback is folded down by the signal from the forward switch.
2	Power walk-in switch	_	The operation signal is input to the driver seat con- trol unit when the power walk-in switch is operated.
3 —		Sliding motor (forward)	Driver seat control unit operates the seat sliding motor forward when it detects that the power walk- in switch is operated.
4	Sliding limit switch	_	Driver seat control unit stops the seat sliding motor when it detects that the seat sliding reaches the front end position by the sliding limit switch.

Backward Operation

< SYSTEM DESCRIPTION >

Order	Inputs	Outputs	Control unit condition
1	Forward switch	_	Driver seat control unit detects that the seatback is folded up by the signal from the forward switch.
2	Power walk-in switch	-	The operation signal is input to the driver seat con- trol unit when the power walk-in switch is operated.
3	-	Sliding motor (backward)	Driver seat control unit operates the sliding motor backward when it detects that the power walk-in switch is operated.
4	Sliding sensor	_	Driver seat control unit stops the seat sliding motor when the seat sliding position reaches the front po- sition before performing the forward operation by the signal from sliding sensor.

SLEEP MODE

- The driver seat control unit is equipped with the sleep mode to reduce the electric power consumption.
- The sleep mode is activated when all of the following conditions are satisfied.
- 1. Ignition switch turns OFF (steering LOCK position).
- 2. When no power seat motors are moving.
- 3. Power walk-in switch turns OFF.

WAKE-UP MODE

The sleep mode is cancelled when any status change is detected in the following items.

- 1. CAN communication.
- 2. Power seat switch.
- 3. Power walk-in switch.

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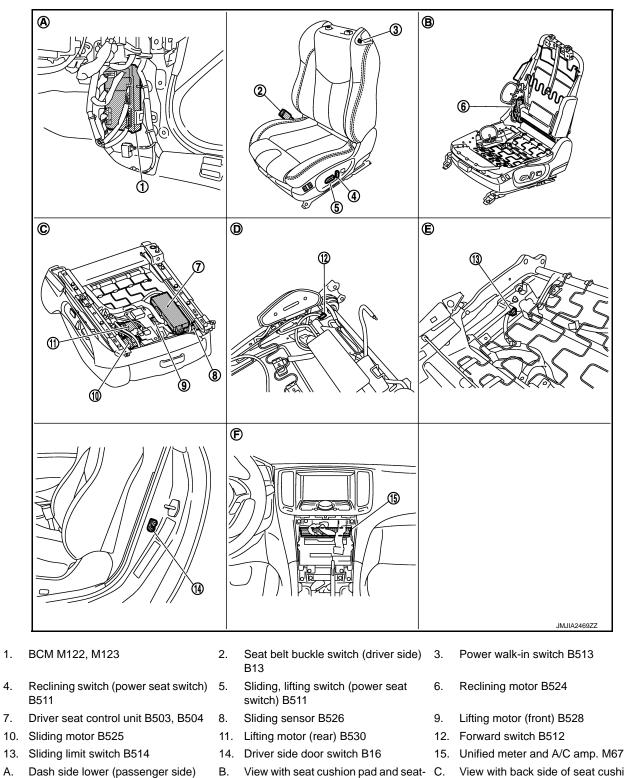
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< SYSTEM DESCRIPTION >

POWER WALK-IN FUNCTION : Component Parts Location

INFOID:000000007471896



View with back side of seat cushion

Behind cluster lid C

POWER WALK-IN FUNCTION : Component Description

E.

CONTROL UNITS

View with seatback pad removed

Α.

D.

Revision: 2013 February

View with seat cushion pad removed F.

back pad removed

< SYSTEM DESCRIPTION >

Item	Function
Driver seat control unit	Main units of power walk-in functionIt is connected to the CAN.
BCM	Transmits the following statuses to the driver seat control unit via CAN communica- tion. Driver side door: OPEN/CLOSE Starter: CRANKING/OTHER
Unified meter and A/C amp.	Transmits the vehicle speed signal to the driver seat control unit via CAN commu- nication.

INPUT PARTS

Switches

Item	Function
Driver side door switch	Detects front door (driver side) open/close status.
Power walk-in switch	Performs the power walk-in operation by operating the power walk-in switch.
Sliding limit switch	Detects the front end position of seat sliding during the power walk-in function for- ward operation.
Seat belt buckle switch (driver side)	Detects the seat belt (driver side) fastening/releasing condition.
Forward switch	Detects the folded up/folded down condition of seatback that is the operation con- dition of power walk-in function.

Sensors

Item	Function	
Sliding sensor	Detects the forward/backward position of seat.	

OUTPUT PARTS

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Item	Function	
Sliding motor	Slides the seat forward/backward.	
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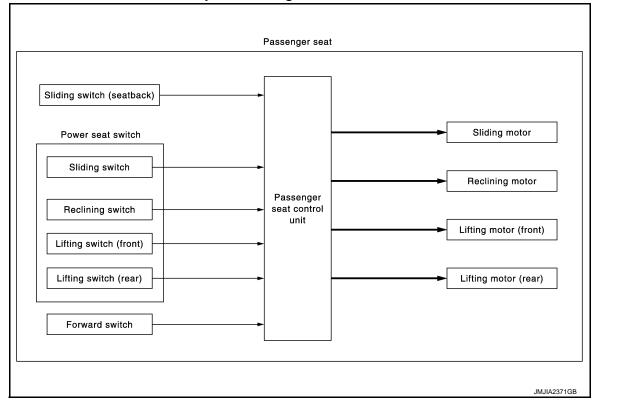
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< SYSTEM DESCRIPTION >

POWER SEAT FOR PASSENGER SIDE POWER SEAT FUNCTION

POWER SEAT FUNCTION : System Diagram



POWER SEAT FUNCTION : System Description

INFOID:000000007471899

INFOID-00000007471898

- Power seat is operative regardless of the ignition switch position because power supply is always supplied to passenger seat control unit.
- Passenger seat control unit detects each power seat switch operation and operates applicable motor.

SLIDING OPERATION

When operating the sliding switch located in power seat switch and sliding switch (seatback), sliding motor operates and adjusts the front and back position of the seat.

RECLINING OPERATION

When operating the reclining switch located in power seat switch, reclining motor operates and adjusts the forward and backward position of the seatback. However, the reclining function does not operate when the forward switch is in the ON position.

LIFTING OPERATION

When operating the lifting switch located in power seat switch, lifting motor operates and adjusts the up and down position of the seat cushion (front and rear).

SLEEP MODE

- The passenger seat control unit is equipped with the sleep mode to reduce the electric power consumption.
- The sleep mode is activated when all of the following conditions are satisfied.
- 1. When no power seat motors are moving.
- 2. Power walk-in switch turns OFF.

WAKE-UP MODE

The sleep mode is cancelled when any status change is detected in the following items.

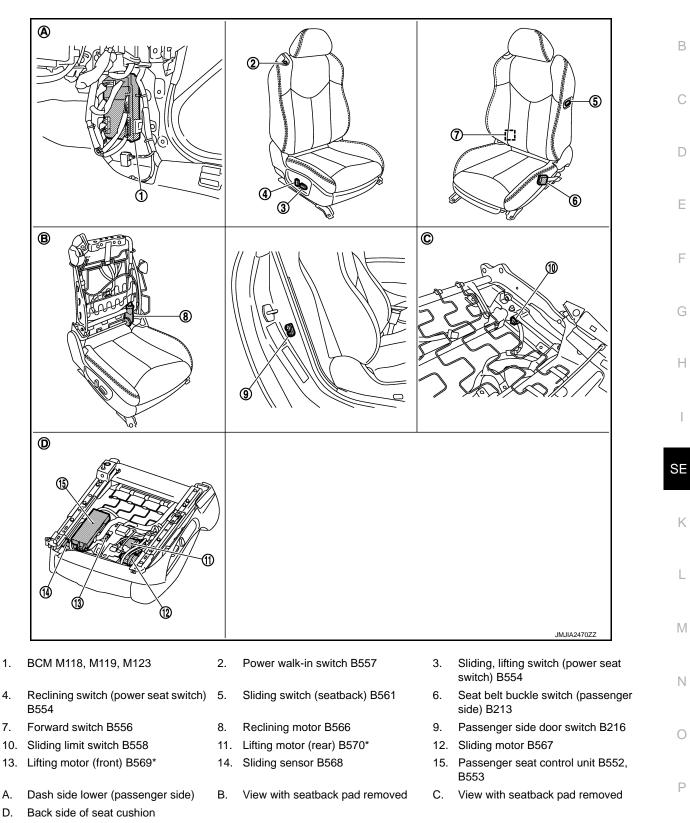
- 1. Power seat switch and sliding switch (seatback).
- 2. Power walk-in switch.

< SYSTEM DESCRIPTION >

POWER SEAT FUNCTION : Component Parts Location



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*: With 8-way power passenger's seat

SE-17

< SYSTEM DESCRIPTION >

POWER SEAT FUNCTION : Component Description

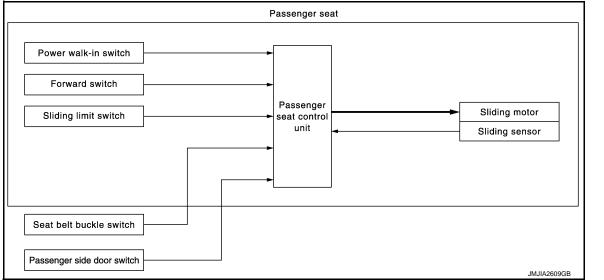
INFOID:000000007471901

Item	Function
BCM The power received from battery to passenger seat control unit is supplied at all tim	
Passenger seat control unit	Operates each motor with the signal from the power seat switch and sliding switch (seatback).
Power seat switch Built-in reclining switch, sliding switch, and lifting switch, transmits operation signal to seat control unit.	
Sliding switch (seatback)	Transmits sliding operation signal to passenger seat control unit.
Reclining motor	Operates forward and backward movement of seatback with the power supplied to passenger seat control unit.
Sliding motor	Operates forward and backward slide of seat with the power supplied to passenger seat control unit.
Lifting motor (front/rear)*	Operates up and down movement of seat cushion with the power supplied to passenger seat con- trol unit.
Forward switch	Detect folded down or folded up of the seatback.

*: With 8-way power passenger's seat

POWER WALK-IN FUNCTION

POWER WALK-IN FUNCTION : System Diagram



POWER WALK-IN FUNCTION : System Description

INFOID:000000007471903

INFOID:000000007471902

OUTLINE

Automatically slides the passenger seat by operating the power walk-in switch so as to easily allow entry to the rear seat.

Forward Operation

Slides the driver seat to the front end position (sliding limit switch: ON) by operating the power walk-in switch when the seatback is folded down.

The forward operation is stopped by folding the seatback (forward switch: OFF) during the forward operation.

Backward Operation

The seatback is folded up after performing the forward operation of power walk-in function. Slide the driver seat to the backward position before performing the forward operation again by operating the power walk-in switch.

If the manual operation, memory operation, and Intelligent Key interlock operation are performed after performing the forward operation, do not perform the backward operation.

OPERATION PROCEDURE

< SYSTEM DESCRIPTION >

Forward Operation

- 1. Open passenger door.
- 2. Pull the walk-in lever on the upper part of seatback, and then the seatback folds down.
- 3. Press the power walk-in switch.
- 4. Slide the seat to the front end position.

Backward Operation

- 1. Fold up the seatback after performing the forward operation.
- 2. Press the power walk-in switch.
- 3. Slide the seat to the previous position before the forward operation* is performed.
- *: If the seat sliding position before starting the forward operation is more than 177.6 mm (6.992 in) from the \Box front end position, the maximum seat sliding is 177.6 mm (6.992 in).

OPERATION CONDITION

Perform the power walk-in function when the following conditions are satisfied.

Forward Operation

Item	Request status	
Passenger side door	Open	
Passenger side seat belt	Not fastened	0
Power seat switch (sliding)	Not operated	
Seat position (sliding)	Other than front end	
Seatback	Folded down	ŀ

Backward Operation

Item	Request status
Initialize	Done
Passenger side seat belt	Not fastened
Power seat switch (sliding)	Not operated
Seat position (sliding)	The seat sliding position does not move after per- forming the forward operation.
Seatback	Folded up

DETAIL FLOW

Forward Operation

Order	Inputs	Outputs	Control unit condition
1	Forward switch	_	Passenger seat control unit detects that the seat- back is folded down by the signal from the forward switch.
2	Power walk-in switch	_	The operation signal is input to the passenger seat control unit when the power walk-in switch is oper- ated.
3	_	Sliding motor (forward)	Passenger seat control unit operates the seat slid- ing motor forward when it detects that the power walk-in switch is operated.
4	Sliding limit switch	_	Passenger seat control unit stops the seat sliding motor when it detects that the seat sliding reaches the front end position by the sliding limit switch.

Backward Operation

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< SYSTEM DESCRIPTION >

Order	Inputs	Outputs	Control unit condition
1	Forward switch	-	Passenger seat control unit detects that the seat- back is folded up by the signal from the forward switch.
2	Power walk-in switch	_	The operation signal is input to the passenger seat control unit when the power walk-in switch is oper- ated.
3	_	Sliding motor (backward)	Passenger seat control unit operates the sliding motor backward when it detects that the power walk-in switch is operated.
4	Sliding sensor	_	Passenger seat control unit stops the seat sliding motor when the seat sliding position reaches the front position before performing the forward oper- ation by the signal from sliding sensor or when the seat sliding position is 177.6 mm (6.992 in) from the front end position.

SLEEP MODE

- The passenger seat control unit is equipped with the sleep mode to reduce the electric power consumption.
- The sleep mode is activated when all of the following conditions are satisfied.
- 1. When no power seat motors are moving.
- 2. Power walk-in switch turns OFF.

WAKE-UP MODE

The sleep mode is cancelled when any status change is detected in the following items.

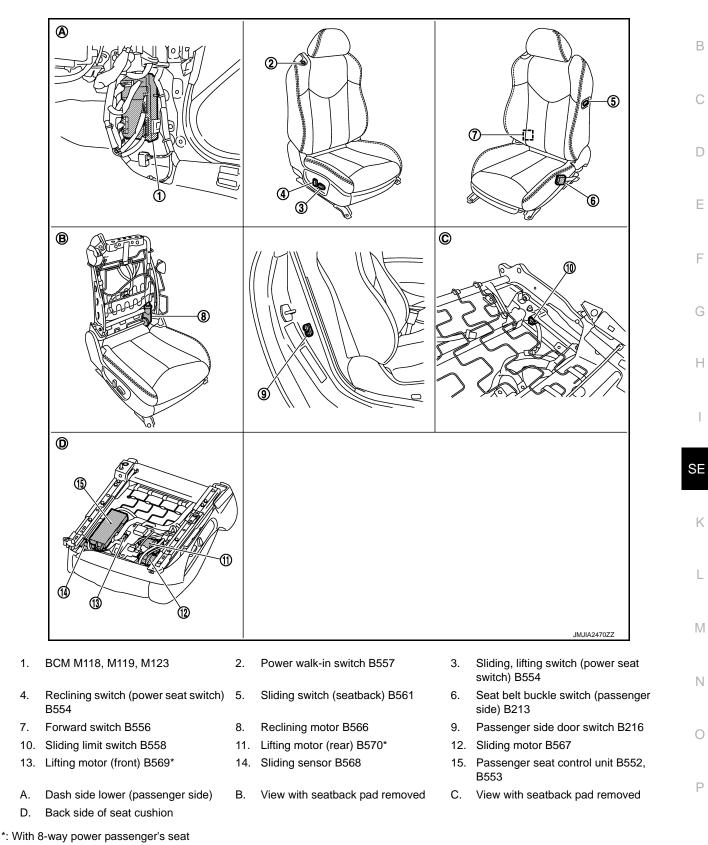
- 1. Power seat switch.
- 2. Power walk-in switch.

< SYSTEM DESCRIPTION >

POWER WALK-IN FUNCTION : Component Parts Location



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POWER WALK-IN FUNCTION : Component Description

CONTROL UNITS

< SYSTEM DESCRIPTION >

Item	Function
Passenger seat control unit	Main unit of power walk-in function

INPUT PARTS

Switches

Item	Function
Passenger side door switch	Detects front door (passenger side) open/close status.
Power walk-in switch	Performs the power walk-in operation by operating the power walk-in switch.
Sliding limit switch	Detects the front end position of seat sliding during the power walk-in function for- ward operation.
Seat belt buckle switch (passenger side)	Detects the seat belt (passenger side) fastening/releasing condition.
Forward switch	Detects the folded up/folded down condition of seatback that is the operation con- dition of power walk-in function.

Sensors

Item	Function
Sliding sensor	Detects the forward/backward position of seat.

OUTPUT PARTS

Item	Function
Sliding motor	Slides the seat forward/backward.

SIDE SUPPORT UNIT

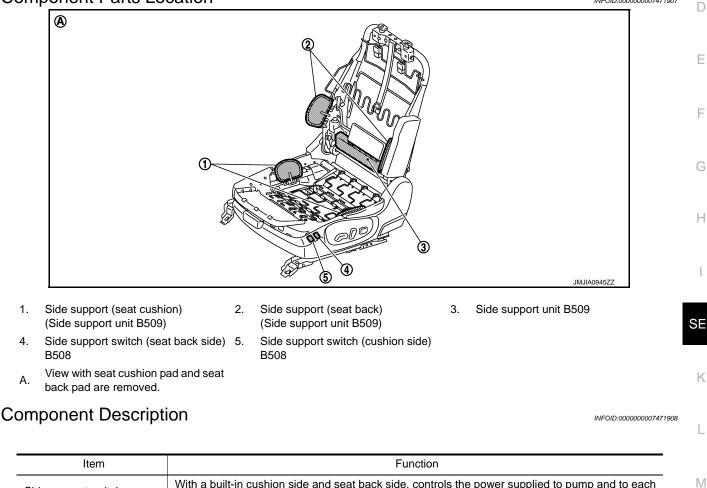
< SYSTEM DESCRIPTION >

SIDE SUPPORT UNIT

System Description

- While operating the side support switch, the pump located inside side support unit operates and adjust the В air pressure in seat cushion and seatback side support.
- It is possible to soften the side support, by allowing some air to escape, by deflating the solenoid located inside side support.
- It is possible to adjust seat cushion and seatback differently while inflating or deflating solenoid located in С side support unit.

Component Parts Location



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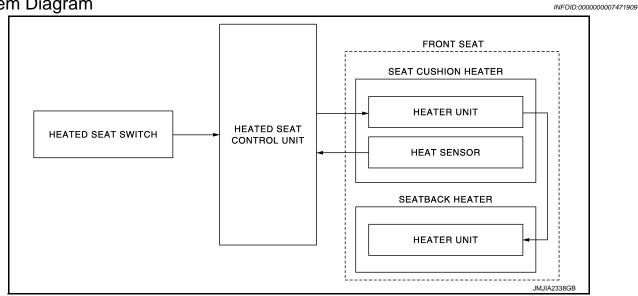
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INFOID:000000007471906

HEATED SEAT

< SYSTEM DESCRIPTION > HEATED SEAT

System Diagram



System Description

INFOID:000000007471910

- Heated seat is activated by heated seat switch while ignition switch is ON, and is equipped with the function to warm seat cushion and seatback.
- Heated seat is equipped with the 6-stage temperature adjustment function that adjusts temperature by operating heated seat switch to the optimal position.
- Heated seat is equipped with a thermostat in heater unit to prevent heater unit overheating.

OPERATION DESCRIPTION

- When operating heated seat switch to any position between 1 and 6 while ignition switch is ON, indicator illuminates, heated seat control unit supplies power supply to heater unit, and warms seat cushion and seatback.
- Heat sensor that is built in seat cushion heater detects seat cushion heater temperature and outputs to heated seat control unit.
- Heated seat control unit monitors the heated seat switch position and heater sensor temperature, and interrupts power supply to heater unit when the heat sensor temperature reaches preset temperature.
- Heated seat control unit adjusts temperature to preset temperature by supplying or interrupting power supply to heater unit.

HEATED SEAT

< SYSTEM DESCRIPTION >

Component Parts Location

INFOID:000000007471911

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Ø В 2 С D 6 Е B 0 3 F 4 (5) Н JMJIA2395ZZ 1. Heated seat switch 2. Seatback heater 3. Seat cushion heater • Driver side • Driver side B542 • Driver side B517, B541 A/T M141 • Passenger side B582 • Passenger side B574, B581 SE M/T M175 • Passenger side A/T M142 M/T M176 Κ Heated seat relay M70 5. Heated seat control unit 4. • Driver side B518 • Passenger side B575 L A. Behind cluster lid C B. Backside of seat cushion **Component Description** INFOID:000000007471912 Μ

Item	Function	
Heated seat switch	 Adjusts heated seat temperature and deactivates heated seat Is equipped to indicator that indicates the operating condition 	
Seat cushion heater	Warms seat cushionContains heater sensor that outputs seat cushion temperature to heated seat control unit	
Seatback heater	Warms seatback	
Heated seat control unit	Controls heated seat temperature and is independently placed in each seat cushion (driver seat and passenger seat)	

LUMBAR SUPPORT

< SYSTEM DESCRIPTION >

LUMBAR SUPPORT

System Description

- Lumbar support can operate regardless of the ignition switch position because battery power is supplied to it at all times.
- While operating the lumbar support switch, lumbar support motor operates which allows forward and backward operation of seatback support.

Component Parts Location

- 1. Lumbar support switch B505
- 2. Lumbar support motor B506

Component Description

INFOID:000000007471915

JMJIA0189ZZ

Item	Function
Lumbar support switch	Controls the power supplied to lumbar support motor.
Lumbar support motor	With the power supplied to lumbar support switch, operates the forward and backward movement of seatback support device.

INFOID:000000007471913

DIAGNOSIS SYSTEM (DRIVER SEAT C/U)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (DRIVER SEAT C/U)

CONSULT Function

INFOID:000000007792155

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The automatic drive positioner system can be checked and diagnosed for component operation using CON-В SULT.

DIAGNOSTIC MODE

Diagnostic mode	Description
SELF-DIAG RESULTS	Performs self-diagnosis for the auto drive positioner system and displays the results.
DATA MONITOR	Displays input signals transmitted from various switches and sensors to driver seat con- trol unit in real time.
CAN DIAG SUPPORT MNTR	The result of transmit/receive diagnosis of CAN communication can be read.
ACTIVE TEST	Drives each output device.
ECU PART NUMBER	Displays part numbers of driver seat control unit.

SELF DIAGNOSTIC RESULTS Refer to ADP-181, "DTC Index".

DATA MONITOR

Monitor Item	Unit	Main Signals	Selection From Menu	Contents	Н
SET SW	"ON/OFF"	×	×	ON/OFF status judged from the setting switch signal.	
MEMORY SW 1	"ON/OFF"	×	×	ON/OFF status judged from the seat memory switch 1 signal.	
MEMORY SW 2	"ON/OFF"	×	×	ON/OFF status judged from the seat memory switch 2 signal.	I
SLIDE SW-FR*3	"ON/OFF"	×	×	ON/OFF status judged from the sliding switch (forward) signal.	
SLIDE SW-RR*3	"ON/OFF"	×	×	ON/OFF status judged from the sliding switch (backward) signal.	SE
RECLN SW-FR*3	"ON/OFF"	×	×	ON/OFF status judged from the reclining switch (forward) signal.	
RECLN SW-RR*3	"ON/OFF"	×	×	ON/OFF status judged from the reclining switch (backward) signal.	Κ
LIFT FR SW-UP*3	"ON/OFF"	×	×	ON/OFF status judged from the lifting switch front (upward) signal.	L
LIFT FR SW-DN* ³	"ON/OFF"	×	×	ON/OFF status judged from the lifting switch front (downward) signal.	L
LIFT RR SW-UP* ³	"ON/OFF"	×	×	ON/OFF status judged from the lifting switch rear (upward) signal.	M
LIFT RR SW-DN* ³	"ON/OFF"	×	×	ON/OFF status judged from the lifting switch rear (downward) signal.	NI
MIR CON SW-UP	"ON/OFF"	×	×	ON/OFF status judged from the mirror switch (upward) signal.	N
MIR CON SW-DN	"ON/OFF"	×	×	ON/OFF status judged from the mirror switch (downward) signal.	
MIR CON SW-RH	"ON/OFF"	×	×	ON/OFF status judged from the door mirror remote control switch (passenger side) signal.	0
MIR CON SW-LH	"ON/OFF"	×	×	ON/OFF status judged from the door mirror remote control switch (driver side) signal.	Р
MIR CHNG SW-R	"ON/OFF"	×	×	ON/OFF status judged from the door mirror remote control switch (switching to right) signal.	
MIR CHNG SW-L	"ON/OFF"	×	×	ON/OFF status judged from the door mirror remote control switch (switching to left) signal.	
TILT SW-UP	"ON/OFF"	×	×	ON/OFF status judged from the tilt switch (upward) signal.	
TILT SW-DOWN	"ON/OFF"	×	×	ON/OFF status judged from the tilt switch (downward) signal.	

DIAGNOSIS SYSTEM (DRIVER SEAT C/U)

< SYSTEM DESCRIPTION >

Monitor Item	Unit	Main Signals	Selection From Menu	Contents
TELESCO SW-FR	"ON/OFF"	×	×	ON/OFF status judged from the telescoping switch (forward) signal.
TELESCO SW-RR	"ON/OFF"	×	×	ON/OFF status judged from the telescoping switch (backward) signal.
FORWARD SW* ³	"ON/OFF"	×	×	ON/OFF status judged from the forward switch signal.
WALK-IN SW* ³	"ON/OFF"	×	×	ON/OFF status judged from the power walk-in switch signal.
FWD LIMIT SW* ³	"ON/OFF"	×	×	ON/OFF status judged from the sliding limit switch signal.
SEAT BELT SW*3	"ON/OFF"	×	×	ON/OFF status judged from the seat belt buckle switch signal.
DETENT SW ^{*1}	"ON/OFF"	×	×	The selector lever position "OFF (P position) / ON (other than the P position)" judged from the detention switch signal.
PARK BRAKE SW ^{*2}	"ON/OFF"	×	×	The parking brake condition "ON (applied) / OFF (release)" judged from the parking brake switch signal.
STARTER SW	"ON/OFF"	×	×	Ignition key switch ON (START, ON) /OFF (ACC, OFF) status judged from the ignition switch signal.
SLIDE PULSE*3	-	_	×	Value (32768) when battery connections are standard. If it moves backward, the value increases. If it moves forward, the value decreases.
RECLN PULS*4	-	_	×	Value (32768) when battery connections are standard. If it moves backward, the value increases. If it moves forward, the value decreases.
LIFT FR PULSE*4	-	_	×	Value (32768) when battery connections are standard. If it moves DOWN, the value increases. If it moves UP, the value decreases.
LIFT RR PULSE*4	-	-	×	Value (32768) when battery connections are standard. If it moves DOWN, the value increases. If it moves UP, the value decreases.
MIR/SEN RH U-D	"V"	-	×	Voltage input from door mirror sensor (passenger side) upward/ downward is displayed.
MIR/SEN RH R-L	"V"	-	×	Voltage input from door mirror sensor (passenger side) leftward/ rightward is displayed.
MIR/SEN LH U-D	"V"	_	×	Voltage input from door mirror sensor (driver side) upward/down- ward is displayed.
MIR/SEN LH R-L	"V"	_	×	Voltage input from door mirror sensor (driver side) leftward/right- ward is displayed.
TILT SEN	" V "	-	×	Voltage input from tilt sensor upward/downward is displayed.
TELESCO SEN	"√"	_	×	Voltage input from telescopic sensor forward/backward is displayed.

^{*1}: M/T models display all item except this item.

 $^{\ast 2}\!\!:$ A/T models display all item except this item.

*3: Only this item is displayed for driver seat without automatic drive positioner system.

*⁴: It is displayed but is not operated for models with driver seat without automatic driver positioner system.

ACTIVE TEST CAUTION: When driving vehicle, never perform active test.

Test item	Description
SEAT SLIDE	Activates/deactivates the sliding motor.
SEAT RECLINING	Activates/deactivates the reclining motor.
SEAT LIFTER FR	Activates/deactivates the lifting motor (front).
SEAT LIFTER RR	Activates/deactivates the lifting motor (rear).

DIAGNOSIS SYSTEM (DRIVER SEAT C/U)

< SYSTEM DESCRIPTION >

Test item	Description	
TILT MOTOR*	Activates/deactivates the tilt motor.	ŀ
TELESCO MOTOR*	Activates/deactivates the telescopic motor.	
MIRROR MOTOR RH*	Activates/deactivates the mirror motor (passenger side).	E
MIRROR MOTOR LH*	Activates/deactivates the mirror motor (driver side).	
MEMORY SW INDCTR*	Turns ON/OFF the memory indicator.	
*: Doos not display without autom	action driver position evetom	(

*: Does not display without automatic driver position system.

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DTC/CIRCUIT DIAGNOSIS U1000 CAN COMM CIRCUIT

Description

INFOID:000000007471918

INFOID-000000007471919

CAN (Controller Area Network) is a serial communication line for real time applications. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Modern vehicle is equipped with many electronic control unit, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN-H, CAN-L) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only.

DTC Logic

DTC DETECTION LOGIC

DTC	Trouble diagnosis name	DTC detecting condition	Possible cause
U1000	CAN COMM CIR- CUIT	 Driver seat control unit cannot communicate to other control units. Driver seat control unit cannot communicate for more than the specified time. 	Harness or connectors (CAN communication line is open or shorted)

DTC CONFIRMATION PROCEDURE

1.STEP 1

Turn ignition switch ON and wait for 3 seconds or more.

>> GO TO 2.

2.STEP 2

Check "Self Diagnostic Result" using CONSULT.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to <u>SE-30, "Diagnosis Procedure"</u>.

NO >> INSPECTION END

Diagnosis Procedure

Refer to LAN-24, "Interview Sheet".

Special Repair Requirement

INFOID:000000007471921

INFOID:000000007471920

Refer to SE-8, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement".

B2112 SLIDING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

B2112 SLIDING MOTOR

Description INFOID:000000007471922 The sliding motor is installed to the seat cushion frame. The sliding motor is activated via the driver seat control unit. • Slides the seat forward/rearward by changing the rotation direction of sliding motor. DTC Logic INFOID:000000007471923 DTC DETECTION LOGIC DTC No. Trouble diagnosis name DTC detecting condition Possible cause The driver seat control unit detects the output of sliding · Driver seat control unit B2112 SEAT SLIDE motor output terminal for 0.1 seconds or more even if · Slide motor harness is shorted the sliding switch is not input DTC CONFIRMATION PROCEDURE **1.**STEP 1 1. Turn ignition switch ON. Check "Self diagnostic result" using CONSULT. 2. Is the DTC detected? YES >> Refer to SE-31, "Diagnosis Procedure". NO >> INSPECTION END Diagnosis Procedure INFOID:000000007471924 **1.**PERFORM DTC CONFIRMATION PROCEDURE 1. Turn ignition switch ON. Check "Self diagnostic result" using CONSULT. 2. Erase the DTC. 3. Perform DTC confirmation procedure. Refer to SE-31, "DTC Logic". 4. Is the DTC displayed again? YES >> GO TO 2. NO >> GO TO 4. 2.check sliding motor circuit (power short) 1. Turn ignition switch OFF. Disconnect sliding motor connector and driver seat control unit connector. 2. 3. Check voltage between sliding motor harness connector and ground. (+) Voltage (V) Sliding motor (-) (Approx.) Connector Terminal 35 0 B525 Ground 42

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

${ m 3.}$ CHECK DRIVER SEAT CONTROL UNIT OUTPUT SIGNAL

1. Connect driver seat control unit connector.

2. Check voltage between driver seat control unit harness connector and ground.

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B2112 SLIDING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

(+) Driver seat control unit		(-)	Voltage (V) (Approx.)
Connector	Terminal		()
B504	35	Ground	0
	42	Cround	Ŭ

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace driver seat control unit. Refer to <u>SE-180, "Removal and Installation"</u>

4. CHECK INTERMITTENT INCIDENT

Check intermittent incident. Refer to <u>GI-43, "Intermittent Incident"</u>.

>> INSPECTION END

B2113 RECLINING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

B2113 RECLINING MOTOR

А Description INFOID:000000007471925 The seat reclining motor is installed to the seatback frame. В The seat reclining motor is activated with the driver seat control unit. Tilts the seatback frontward/rearward by changing the rotation direction of reclining motor. DTC Logic INEOID:000000007471926 DTC DETECTION LOGIC D Trouble diagnosis DTC No. DTC detecting condition Possible cause name The driver seat control unit detects the output of re-· Driver seat control unit B2113 SEAT RECLINING clining motor output terminal for 0.1 seconds or · Reclining motor harness is powmore even if the reclining switch is not input. er shorted DTC CONFIRMATION PROCEDURE F 1.PEFORM DTC CONFIRMATION PROCEDURE 1. Turn ignition switch ON. 2. Check "Self diagnostic result" using CONSULT. Is the DTC detected? >> Refer to SE-33, "Diagnosis Procedure". YES Н >> INSPECTION END NO Diagnosis Procedure INFOID:000000007471927 1.PERFORM DTC CONFIRMATION PROCEDURE 1. Turn ignition switch ON. SE Check "Self diagnostic result" using CONSULT. 2. 3. Erase the DTC. 4. Perform DTC confirmation procedure. Refer to SE-33, "DTC Logic". Is the DTC displayed again? Κ YES >> GO TO 2.

NO >> Check intermittent incident. Refer to <u>GI-43, "Intermittent Incident"</u>.

2. CHECK RECLINING MOTOR CIRCUIT (POWER SHORT)

- 1. Turn ignition switch OFF.
- 2. Disconnect reclining motor and driver seat control unit connector.

3. Check voltage between reclining motor harness connector and ground.

· · · · · · · · · · · · · · · · · · ·	(+)		Voltage (V) (Approx.)	N
Reclining motor		()		IN
Connector	Terminal			
B524	36	Ground	0	0
D024	44	Ground	U	-

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK DRIVER SEAT CONTROL UNIT OUTPUT SIGNAL

1. Connect driver seat control unit connector.

2. Check voltage between driver seat control unit harness connector and ground.

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B2113 RECLINING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

(+) Driver seat control unit		(-)	Voltage (V) (Approx.)
Connector	Terminal		(, , , , , , , , , , , , , , , , , , ,
B504	36 44	Ground	0

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace driver seat control unit. Refer to <u>SE-180, "Removal and Installation"</u>.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

POWEF	R SUPPLY AND C	GROUND CIRCU	ΙТ	
< DTC/CIRCUIT DIAGNOSIS >				
POWER SUPPLY AND G	ROUND CIRCL	JIT		
DRIVER SEAT CONTROL	UNIT		1	A
DRIVER SEAT CONTROL U	JNIT : Diagnosis	Procedure	INFOID:000000007471928	В
NOTE: Do not disconnect the battery nega firmed using CONSULT.		driver seat control uni	t connector until DTC is con-	С
1.CHECK FUSE AND FUSIBLE LI		-		
Check that the following fuse and fu	SIDIE link are not fusing].	[D
Terminal No.	Signal nam	ne	Fuse and fusible link No.	
33	Battery power s	supply	K (40 A)	E
40 Is the inspection result normal?			10 (10 A)	_
are blown. 2.CHECK POWER SUPPLY CIRCU 1. Turn ignition switch OFF. 2. Disconnect driver seat control u	UIT nit connector.		circuit if fuse and fusible link	G
3. Check voltage between driver s	eat control unit harness	s connector and grour	nd.	Η
(+)			Voltage (V)	
Driver seat contro	Terminal	()	(Approx.)	I
Connector	33			
B504	40	Ground	Battery voltage S	E
Is the inspection result normal?				_
YES >> GO TO 3. NO-1 >> Repair or replace harne NO-2 >> Check circuit breaker, a 3. CHECK GROUND CIRCUIT				K
Check continuity between driver sea	t control unit harness o	connector and ground		
Driver seat control	unit		Continuitu	M
Connector	Terminal	Ground	Continuity	
B503	32	Ciouna	Existed	Ν
B504	48			ч
Is the inspection result normal? YES >> INSPECTION END NO >> Repair or replace harne PASSENGER SEAT CONT				0
PASSENGER SEAT CONTR	ROL UNIT : Diagn	osis Procedure	INFOID:000000007471929	Ρ
1.CHECK FUSE AND FUSIBLE LI	NK			
Check that the following fuse is not f	using.			

Revision: 2013 February

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

Terminal No.	Signal name	Fuse No.
40	Battery power supply	10 (10 A)

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace the blown fuse after repairing the affected circuit if a fuse is blown.

2.CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.

2. Disconnect passenger seat control unit connector.

3. Check voltage between passenger seat control unit harness connector and ground.

(+) Passenger seat control unit		(-)	Voltage (V) (Approx.)
Connector	Terminal		(, , , , , , , , , , , , , , , , , , ,
P552	33	Ground	Potton (voltogo
B553	40	Giouna	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.

NO-1 >> Repair or replace harness.

NO-2 >> Check circuit breaker, and replace if NG.

$\mathbf{3.}$ CHECK GROUND CIRCUIT

Check continuity between passenger seat control unit harness connector and ground.

Passenger s	Passenger seat control unit		Continuity
Connector	Terminal	Ground	Continuity
B552	32	Giouna	Existed
B553	48		LAISIEU

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair or replace harness.

HEATED SEAT CONTROL UNIT

HEATED SEAT CONTROL UNIT : Diagnosis Procedure

INFOID:000000007471930

1.CHECK FUSE

Check that the following fuse is not fusing.

Signal name	Fuse No.
Battery power supply	35 (15 A)

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace the blown fuse after repairing the affected circuit if a fuse is blown.

2.CHECK POWER SUPPLY 1

1. Turn ignition switch OFF.

2. Disconnect heated seat control unit connector.

3. Turn ignition switch ON.

4. Check voltage between heated seat control unit harness connector and ground.

< DTC/CIRCUIT DIAGNOSIS >

		(+)					
	Heated se	eat control unit			())	Voltage (V) (Approx.)
	Connector		Terminal	l			
Driver side		B518	60		Grou	Ind	Battery voltage
Passenger side		B575			0.00		Latter) Tenage
the inspection r YES >> GO T NO >> GO T	0 4. 0 3.	RCUIT 1					
	eated seat rela		control unit har	ness coi	nnector an	d heated se	at relay terminal co
	Heated seat cor	ntrol unit		F	leated seat re	elay	Continuity
Co	onnector	Te	erminal	Connect	tor	Terminal	Continuity
Driver side	B518		60	M70		3	Existed
Passenger side	B575					Ŭ	
	esult normal? ir or replace ha ir or replace ha ER SUPPLY 2	arness betwe	60 een heated sea een heated sea unit harness co	at contro	ol unit and	heated seat	Not existed
	(+)						
Не	ated seat control		(-)		Cor	ndition	Voltage (V) (Approx.)
Conn	ector	Terminal					
Driver side	B518					ON	Battery voltage
		66	Ground	H	leated seat switch	OFF	Battery voltage
Passenger side	B575					ON	0
the inspection r							<u> </u>
(ES >> GO T NO >> GO T .CHECK POWE	O 7. O 5. ER SUPPLY C	RCUIT 2					
. Disconnect h	eated seat swi			arness (connector	and heated	seat switch harne

< DTC/CIRCUIT DIAGNOSIS >

	Heated seat control ur	iit	Heated seat switch		Continuity
Con	nector	Terminal	Connector	Terminal	Continuity
Driver side	B518	66	A/T models: M141 M/T models: M175	1	Existed
Passenger side	B575	00	A/T models: M142 M/T models: M176	I	EXISIED

4. Check continuity between heated seat control unit harness connector and ground.

	Heated seat control unit			Continuity
Со	nnector	Terminal	Ground	
Driver side	B518	- 66	Giouna	Not ovisted
Passenger side	B575			Not existed

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

6.CHECK HEATED SEAT SWITCH

Check heated seat switch.

- Driver side: Refer to <u>SE-101, "DRIVER SIDE : Component Inspection"</u>.
- Passenger side: Refer to SE-103, "PASSENGER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 8.

NO >> Replace heated seat switch. Refer to <u>SE-187, "Removal and Installation"</u>.

7. CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.

2. Check continuity between heated seat control unit harness connector and ground.

	Heated seat control unit			Continuity
Cor	nnector	Terminal	Ground	
Driver side	B518	50	Ground	Existed
Passenger side	B575	59		Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair or replace harness.

8.CHECK INTERMITTENT INCIDENT

Check intermittent incident. Refer to GI-43, "Intermittent Incident".

>> INSPECTION END HEATED SEAT SWITCH

HEATED SEAT SWITCH : Diagnosis Procedure

1.CHECK FUSE

Check that the following fuse is not fusing.

 Terminal No.	Signal name	Fuse No.
 5	Ignition power supply	3 (10 A)

Is the inspection result normal?

YES >> GO TO 2.

[DTC/CIRCUIT D						
		e the blown fuse afte	er repairing the	e affected ci	rcuit if a	fuse is blown.	
	CHECK POWER						
	Turn ignition sw	ated seat switch con		ess connecto	or and g	round.	
-		(+)					
-		Heated seat swit	tch			(-)	Voltage (V) (Approx.)
		Connector	Те	erminal			(11 - 7
_	Driver side	A/T models: M1 M/T models: M1		5		Ground	Battery voltage
	Passenger side	A/T models: M1 M/T models: M1		0		Cround	Dattory Voltage
•	Disconnect fuse block (J/B) connector. Check continuity between heated seat switch Heated seat switch						
-		-	eat switch har	ness conne	ctor and Fuse blo		·
•		-	eat switch har	Conne	Fuse blo		 B) harness connector Continuity
-		Heated seat switch	Terminal	Conne	Fuse blo	ock (J/B) Terminal	Continuity
-	Con	Heated seat switch nector			Fuse blo	ock (J/B)	·
-	Con Driver side Passenger side	Heated seat switch nector A/T models: M141 M/T models: M175 A/T models: M142	Terminal 5	Conne M1	Fuse blc	ock (J/B) Terminal 2A	Continuity
-	Con Driver side Passenger side	Heated seat switch nector A/T models: M141 M/T models: M175 A/T models: M142 M/T models: M176	Terminal 5 eat switch har	Conne M1	Fuse blc	ock (J/B) Terminal 2A	Continuity Existed
-	Con Driver side Passenger side Check continuit	Heated seat switch nector A/T models: M141 M/T models: M175 A/T models: M142 M/T models: M176 ty between heated s Heated seat swit Connector	Terminal 5 eat switch har tch	Conne M1	Fuse blc	ock (J/B) Terminal 2A	Continuity
-	Con Driver side Passenger side Check continuit	Heated seat switch nector A/T models: M141 M/T models: M175 A/T models: M176 A/T models: M176 ty between heated s Heated seat swit Connector A/T models: M1 M/T models: M1	Terminal 5 eat switch har tch Te 41 75	M1 ness conne	Fuse blc	ock (J/B) Terminal 2A	Continuity Existed
-	Con Driver side Passenger side Check continuit	Heated seat switch nector A/T models: M141 M/T models: M175 A/T models: M142 M/T models: M176 ty between heated s Heated seat switch Connector A/T models: M1	Terminal 5 eat switch har tch tch 175 42	M1 Thess conne	Fuse blo	ock (J/B) Terminal 2A d ground.	Continuity Existed Continuity
- - - - -	Con Driver side Passenger side Check continuit	Heated seat switch nector A/T models: M141 M/T models: M175 A/T models: M176 A/T models: M176 ty between heated s Heated seat swit Connector A/T models: M1 M/T models: M1 A/T models: M1 M/T models: M1 M/T models: M1	Terminal 5 eat switch har tch Te 41 75 42	M1 Thess conne	Fuse blo	ock (J/B) Terminal 2A d ground.	Continuity Existed Continuity
- - -	Con Driver side Passenger side Check continuit Driver side Passenger side the inspection res 'ES >> GO TO	Heated seat switch nector A/T models: M141 M/T models: M175 A/T models: M176 A/T models: M176 ty between heated seat swit Connector A/T models: M1 A/T model	Terminal 5 eat switch har tch Te 41 75 42	M1 Thess conne	Fuse blo	ock (J/B) Terminal 2A d ground.	Continuity Existed Continuity
	Con Driver side Passenger side Check continuit Driver side Passenger side the inspection res 'ES >> GO TO	Heated seat switch nector A/T models: M141 M/T models: M175 A/T models: M175 A/T models: M142 M/T models: M176 ty between heated s Heated seat swit Connector A/T models: M1 M/T models: M1 A/T models: M1 Sult normal? A. or replace harness.	Terminal 5 eat switch har tch Te 41 75 42	M1 Thess conne	Fuse blo	ock (J/B) Terminal 2A d ground.	Continuity Existed Continuity
I. S 1 Y	Con Driver side Passenger side Check continuit Driver side Passenger side the inspection res (ES >> GO TO IO >> Repair CHECK FUSE B Turn ignition sw	Heated seat switch nector A/T models: M141 M/T models: M175 A/T models: M142 M/T models: M176 ty between heated s Heated seat swi Connector A/T models: M1 M/T models: M1 A/T models: M1 Sult normal? A. or replace harness. BLOCK (J/B)	Terminal 5 eat switch har tch 41 75 42 76	Conne M1 rness conne erminal	Fuse blo	ock (J/B) Terminal 2A d ground. Ground	Continuity Existed Continuity
ι. Υ 1	Con Driver side Passenger side Check continuit Driver side Passenger side the inspection res (ES >> GO TO IO >> Repair CHECK FUSE B Turn ignition sw	Heated seat switch nector A/T models: M141 M/T models: M175 A/T models: M175 A/T models: M142 M/T models: M176 ty between heated s Heated seat swit Connector A/T models: M1 M/T models: M1 A/T models: M1 A/T models: M1 Sult normal? 4. or replace harness. BLOCK (J/B) vitch ON.	Terminal 5 eat switch har tch 41 75 42 76	Conne M1 rness conne erminal	Fuse blo	ock (J/B) Terminal 2A d ground. Ground	Continuity Existed Continuity Not existed
ι. Υ 1	Con Driver side Passenger side Check continuit Driver side Passenger side the inspection res (ES >> GO TO IO >> Repair CHECK FUSE B Turn ignition sw	Heated seat switch nector A/T models: M141 M/T models: M175 A/T models: M142 M/T models: M176 ty between heated seat swit Connector A/T models: M1 M/T models: M1 A/T models: M1 A/T models: M1 A/T models: M1 Sult normal? A. or replace harness. BLOCK (J/B) vitch ON. between fuse block of	Terminal 5 eat switch har tch 41 75 42 76	Conne M1 rness conne erminal	Fuse blo	ock (J/B) Terminal 2A d ground. Ground	Continuity Existed Continuity
ι. Υ 1	Con Driver side Passenger side Check continuit Driver side Passenger side the inspection res (ES >> GO TO IO >> Repair CHECK FUSE B Turn ignition sw	Heated seat switch nector A/T models: M141 M/T models: M175 A/T models: M175 A/T models: M142 M/T models: M176 ty between heated seat swit Connector A/T models: M1 M/T models: M1 A/T models: M1 A/T models: M1 Sult normal? A. or replace harness. BLOCK (J/B) vitch ON. between fuse block (+) Fuse block (J/B)	Terminal 5 eat switch har tch 41 75 42 76	Conne M1 mess conne erminal 5	Fuse blo ctor ctor and k side) a	ock (J/B) Terminal 2A d ground. Ground	Continuity Existed Continuity Not existed Voltage (V)

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace fuse block (J/B).

< DTC/CIRCUIT DIAGNOSIS >

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident. Refer to <u>GI-43, "Intermittent Incident"</u>

>> INSPECTION END

< DTC/CIRCUIT DIAGNOSIS > SI IDING SWITCH

SLIDING SWITC DRIVER SIDE	CH				
DRIVER SIDE : D	escription				INFOID:000000007471932
Sliding switch is equiThe operation signal					
DRIVER SIDE : C	omponent Funct	tion Ch	eck		INFOID:000000007471933
1.CHECK FUNCTION	I				
	n ON. -FR", "SLIDE SW-RR ch signal under the fol			" mode using CON	SULT.
Monitor item		Cor	ndition		Status
SLIDE SW-FR	Sliding switch (for	ward)	Operate		ON
			Release		OFF
SLIDE SW-RR	Sliding switch (ba	ckward)	Operate		ON
Is the indication norma			Release		OFF
	seat switch connector ween power seat swit		s connecto	r and ground.	S
P	(+) ower seat switch		-	()	Voltage (V)
Connector	Termina	al			(Approx.)
B511	11 26		-	Ground	Battery voltage
	WITCH CIRCUIT		harness co	nnector and power	seat switch harness con-
Driver sea	t control unit		Power se	eat switch	
Driver sea	t control unit Terminal	Con	Power so	eat switch Terminal	Continuity

3. Check continuity between driver seat control unit harness connector and ground.

< DTC/CIRCUIT DIAGNOSIS >

	Driver seat	control unit			Continuity
_	Connector	Ter	minal	Ground	Conuntuity
_	B503		11	Ground	Not existed
	B303		26		
<u>Is</u> th	e inspection result norm	al?			
YE NC			nit. Refer to <u>S</u>	E-180, "Removal and Inst	<u>allation"</u> .
3.0	CHECK SLIDING SWITC	Ή			
	eck sliding switch. er to <u>SE-42, "DRIVER SI</u>	DE : Compor	nent Inspectio	<u>n"</u> .	
<u>Is th</u>	e inspection result norm	<u>al?</u>			
YE					
NC	-1 1		Refer to <u>SE-18</u>	33, "Removal and Installat	<u>ion"</u> .
4.0	CHECK INTERMITTENT	INCIDENT			
	eck intermittent incident. er to <u>GI-43, "Intermittent</u>	Incident".			
	>> INSPECTION E	ND			
DR	IVER SIDE : Comp	onent Ins	pection		INFOID:00000000747193
1.0	CHECK SLIDING SWITC	Ή			
	Turn ignition switch OFF				
	Disconnect power seat s Check continuity betwee			nals.	
_	Power seat switc	h		Condition	Continuity
_	Terminal			Condition	Continuity
-					

	11		Backward	Existed
32			Other than above	Not existed
52	26		Forward	Existed
	20		Other than above	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power seat switch. Refer to <u>SE-183. "Removal and Installation"</u>. PASSENGER SIDE

PASSENGER SIDE : Description

• Sliding switch is equipped to the power seat switch on the seat cushion side surface.

• The operation signal is input to the passenger seat control unit when the sliding switch is operated.

PASSENGER SIDE : Component Function Check

1.CHECK FUNCTION

Check seat sliding operation with sliding switch.

Is the indication normal?

YES >> Sliding switch function is OK.

NO >> Refer to <u>SE-43</u>, "PASSENGER SIDE : Diagnosis Procedure".

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INFOID:000000007471937

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< DTC/CIRCUIT DIAGNOSIS >

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000007471938

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1.CHECK SLIDING SWITCH SIGNAL

- 1. Turn ignition switch OFF.
- 2. Check voltage between passenger seat control unit harness connector and ground.

(-	+)	_			Voltogo (V/)
Passenger se	eat control unit	(-)	Condition		Voltage (V) (Approx.)
Connector	Terminal				(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	11			Backward	0
B552	11	Ground	Sliding owitch	Other than above	Battery voltage
D002	00	Ground	Sliding switch Forward 0		0
	26			Other than above	Battery voltage

Is the inspection result normal?

YES >> Sliding switch circuit is OK.

NO >> GO TŎ 2.

2.CHECK SLIDING SWITCH INPUT SIGNAL

1. Disconnect power seat switch connector.

2. Check voltage between power seat switch harness connector and ground.

-	(+)			I
_	Power se	eat switch	()	Voltage (V) (Approx.)	
	Connector	Terminal			
	B554	22	Ground	Battony voltago	
	6554	23	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 3.

3.CHECK SLIDING SWITCH CIRCUIT

- 1. Disconnect sliding switch (seatback) connector.
- 2. Check continuity between sliding switch (seatback) harness connector and power seat switch harness connector.

-	Continuity	Power seat switch		ch (seatback)	Sliding swite	
M	Continuity	Terminal	Connector	Terminal	Connector	
-	Existed	22	B554	22	B561	
	Existed	23	D004	23	1000	
- N						

3. Check continuity between sliding switch (seatback) harness connector and ground.

Sliding swite	ch (seatback)		Continuity	0
Connector	Terminal	Ground	Continuity	0
B561	22	Ground	Not existed	
	23		Not existed	Р

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

4.CHECK SLIDING SWITCH

Check sliding switch. Refer to <u>SE-44, "PASSENGER SIDE : Component Inspection"</u>.

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace power seat switch. Refer to <u>SE-183</u>, "Removal and Installation".

5. CHECK SLIDING SWITCH (SEATBACK)

Check sliding switch (seatback).

Refer to <u>SE-46</u>, "SEATBACK : Component Inspection".

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace sliding switch (seatback). Refer to <u>SE-163, "Exploded View"</u>.

6.CHECK INTERMITTENT INCIDENT

Check intermittent incident. Refer to <u>GI-43. "Intermittent Incident"</u>.

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:000000007471939

1. CHECK SLIDING SWITCH

1. Turn ignition switch OFF.

- 2. Disconnect power seat switch connector.
- 3. Check continuity between power seat switch terminals.

Power se	Power seat switch Terminal		Condition	
Terr				
	22		Forward	Existed
32	22	Oliding owitch	Other than above	Not existed
52	22	- Sliding switch	Backward	Existed
	23		Other than above	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power seat switch. Refer to <u>SE-183, "Removal and Installation"</u>. SEATBACK

SEATBACK : Description

- Sliding switch is equipped on the seatback.
- The operation signal input to passenger seat control unit when sliding switch (seatback) is operated.

SEATBACK : Component Function Check

1.CHECK FUNCTION

Check seat sliding operation with sliding switch (seatback).

Is the inspection result normal?

YES >> Sliding switch (seatback) function is OK.

NO >> Refer to <u>SE-44</u>, "SEATBACK : Diagnosis Procedure".

SEATBACK : Diagnosis Procedure

1.CHECK SLIDING SWITCH (SEATBACK) SIGNAL

1. Turn ignition switch OFF.

2. Check voltage between passenger seat control unit harness connector and ground.

SE-44

INFOID:000000007471940

INFOID:000000007471941

< DTC/CIRCUIT DIAGNOSIS >

Langangera	(+)			ndition	Voltage (V)
Connector	eat control unit	()		nation	(Approx.)
Connector	Terminar			Backward	0
	11			Other than above	Battery voltage
B552		Ground	Sliding switch (seatback)	Forward	
	26		(0000000)	Other than above	0 Battery voltage
the inspection re	sult normal?	<u></u>		Other than above	Dattery voltage
ES >> Sliding O >> GO TO CHECK SLIDIN	switch (seatback) 2. G SWITCH (SEA ⁻	TBACK) CIRCUIT			
	ity between pass			h (seatback) conn onnector and slidir	
Passenç	ger seat control unit		Sliding switch (seat	back)	Continuity
Connector	Termina	al Cor	nnector	Terminal	Continuity
B552	11	F	3561	11	Existed
D332	26	L	5501	26	LAISted
		-	unit harness con	nector and ground	l.
	assenger seat control		_		Continuity
Connecto	<u>'r</u>		Ground		
B552		11 26	_		
the inspection re					
CHECK SLIDIN	or replace harnes G SWITCH (SEA ⁻	FBACK) GROUNI	D CIRCUIT	and ground.	
O >> Repair CHECK SLIDIN leck continuity be	or replace harnes G SWITCH (SEA ⁻ etween sliding swi	TBACK) GROUNI itch (seatback) ha		and ground.	
O >> Repair CHECK SLIDIN leck continuity be	or replace harnes G SWITCH (SEA etween sliding swi Sliding switch (seatba	TBACK) GROUNI itch (seatback) ha ^{ck)}	arness connector a		Continuity
O >> Repair CHECK SLIDIN leck continuity be	or replace harnes G SWITCH (SEA etween sliding swi Sliding switch (seatba	TBACK) GROUNI itch (seatback) ha			Continuity
IO >> Repair CHECK SLIDING teck continuity be Connecto B561 the inspection rep ES >> GO TC IO >> Repair CHECK SLIDING teck sliding switc	or replace harnes G SWITCH (SEA ⁻ etween sliding switch Sliding switch (seatba or sult normal? O 4. or replace harnes G SWITCH (SEA ⁻ h (seatback). EATBACK : Comp sult normal?	TBACK) GROUNI itch (seatback) ha ck) Terminal 32 SS. TBACK)	Ground		
IO >> Repair CHECK SLIDING teck continuity be Connecto B561 the inspection res ES >> GO TO IO >> Repair CHECK SLIDING the inspection res the inspection res ES >> GO TO IO >> Replac	or replace harnes G SWITCH (SEA ⁻ etween sliding swit Sliding switch (seatba or <u>sult normal?</u>) 4. or replace harnes G SWITCH (SEA ⁻ h (seatback). <u>EATBACK : Comp</u> <u>sult normal?</u>) 5.	TBACK) GROUNI itch (seatback) ha ck) Terminal 32 SS. TBACK) ponent Inspection	Ground		

2. Check voltage between passenger seat control unit harness connector and ground.

< DTC/CIRCUIT DIAGNOSIS >

	(+) Passenger seat control unit		Voltage (V) (Approx.)	
Connector	Terminal		(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
B552	11	Ground	Pottony voltago	
D002	26	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace passenger seat control unit. Refer to <u>SE-181, "Removal and Installation"</u>.

6. CHECK INTERMITTENT INCIDENT

Check intermittent incident. Refer to <u>GI-43. "Intermittent Incident"</u>.

>> INSPECTION END

SEATBACK : Component Inspection

INFOID:000000007471943

1. CHECK SLIDING SWITCH

- 1. Turn ignition switch OFF.
- 2. Disconnect sliding switch (seatback) connector.
- 3. Check continuity between sliding switch (seatback) terminals.

	ch (seatback) minal	Condition		Continuity
			Backward	Existed
20	11		Other than above	Not existed
32	26	-	Forward	Existed
	20		Other than above	Not existed
11	23	 Sliding switch (seatback) 	Backward	Not existed
11	23		Other than above	Existed
26	22	1	Forward	Not existed
20	22		Other than above	Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace sliding switch (seatback). Refer to <u>SE-163, "Exploded View"</u>.

RECLINING SWITCH

< DTC/CIRCUIT DIAGNOSIS >
RECLINING SWITCH
DRIVER SIDE

DRIVER SIDE : Description

- Reclining switch is equipped to the power seat switch on the seat cushion side surface.
- The operation signal is input to the driver seat control unit when the reclining switch is operated.

DRIVER SIDE : Component Function Check

1.CHECK FUNCTION

- 1. Turn ignition switch ON.
- 2. Select "RECLN SW-FR", "RECLN SW-RR" in the "Data monitor" mode using CONSULT.
- 3. Check reclining switch signal under the following conditions.

Monitor item	Cor	ndition	Status	
RECLINE SW-FR	Declining switch (forward)	Operate	ON	_
RECLINE SW-FR	Reclining switch (forward)	Release	OFF	F
RECLINE SW-RR	Realining switch (healword)	Operate	ON	
RECLINE SW-RR	Reclining switch (backward)	Release	OFF	G

Is the indication normal?

- YES >> Reclining switch function is OK.
- NO >> Refer to <u>SE-47, "DRIVER SIDE : Diagnosis Procedure"</u>.

DRIVER SIDE : Diagnosis Procedure

1. CHECK RECLINING SWITCH SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect power seat switch connector.
- 3. Check voltage between power seat switch harness connector and ground.

(+)			_
Power s	eat switch	()	Voltage (V) (Approx.)	N
Connector	Terminal		(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
B511	12	Ground	Pottory voltage	L
	27	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK RECLINING SWITCH CIRCUIT

- 1. Disconnect driver seat control unit connector.
- 2. Check continuity between driver seat control unit harness connector and power seat switch harness connector.

Driver seat	t control unit	Power se	eat switch	Continuity	
Connector	Terminal	Connector	Terminal	Continuity	P
B503	12	B511	12	Existed	
0005	27	6311	27	LAISIEU	

3. Check continuity between driver seat control unit harness connector and ground.

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RECLINING SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Driver s	eat control unit		Continuity	
Connector	Terminal	Ground	Continuity	
B503	12	Giouna	Not existed	
B303	27		NOT EXISTED	
Is the inspection result no	mal?			
YES >> Replace drive NO >> Repair or repl		SE-180, "Removal and Inst	allation".	
3.CHECK RECLINING S	WITCH			
Check reclining switch. Refer to <u>SE-48, "DRIVER</u>	SIDE : Component Inspec	tion".		
Is the inspection result no	mal?			
YES >> GO TO 4.				
		183, "Removal and Installati	<u>on"</u> .	
4. CHECK INTERMITTEN	IT INCIDENT			
Check intermittent inciden Refer to <u>GI-43, "Intermitte</u>				
>> INSPECTION	END			
DRIVER SIDE : Con	ponent Inspection		INFOID:00000000747194	
1.CHECK RECLINING S	WITCH			
1. Turn ignition switch O				
 Disconnect power sea Check continuity betw 	t switch connector. een power seat switch terr	ninals.		
Power seat	switch			

Power se	Power seat switch		Condition	
Terr	Terminal		Condition	
	12		Backward	Existed
32	12	Reclining switch	Other than above	Not existed
52	27		Forward	Existed
	21		Other than above	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power seat switch. Refer to <u>SE-183. "Removal and Installation"</u>. PASSENGER SIDE

PASSENGER SIDE : Description

• Reclining switch is equipped to the power seat switch on the seat cushion side surface.

• The operation signal is input to the passenger seat control unit when the reclining switch is operated.

PASSENGER SIDE : Component Function Check

1.CHECK FUNCTION

Check seat reclining operation with reclining switch.

Is the indication normal?

YES >> Reclining switch function is OK.

NO >> Refer to <u>SE-49</u>, "PASSENGER SIDE : Diagnosis Procedure".

INFOID:000000007471948

RECLINING SWITCH

< DTC/CIRCUIT DIAGNOSIS >

PASSENGER SIDE : Diagnosis Procedure

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1.CHECK RECLINING SWITCH SIGNAL

- 1. Turn ignition switch OFF.
- 2. Check voltage between passenger seat control unit harness connector and ground.

(+	+)				
Passenger se	eat control unit	()	Co	ndition	Voltage (V) (Approx.)
Connector	Terminal				(, , , , , , , , , , , , , , , , , , ,
	10			Backward	0
B552	12	Ground	Baalining awitch	Other than above	Battery voltage
D002	07	Ground	Reclining switch	Forward	0
	27			Other than above	Battery voltage

Is the inspection result normal?

YES >> Reclining switch circuit is OK.

NO >> GO TO 2.

2. CHECK RECLINING SWITCH CIRCUIT

1. Disconnect passenger seat control unit connector and power seat switch connector.

2. Check continuity between passenger seat control unit harness connector and power seat switch harness connector.

Passenger s	eat control unit	Power seat switch		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B552	12	- B554 -	12	Existed
8002	27		27	EXISTED

3. Check continuity between passenger seat control unit harness connector and ground.

				0
Passenger se	eat control unit		Continuity	
Connector	Terminal	Ground	Continuity	IZ.
B552	12	Ground	Not existed	K
D332	27		NOT EXISTED	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK RECLINING SWITCH

Check reclining switch.

Refer to <u>SE-50</u>, "PASSENGER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace power seat switch. Refer to <u>SE-183</u>, "Removal and Installation".

4.CHECK PASSENGER SEAT CONTROL UNIT OUTPUT SIGNAL

1. Connect passenger seat control unit connector.

2. Check voltage between passenger seat control unit harness connector and ground.

((+)			
Passenger seat control unit		()	Voltage (V) (Approx.)	
Connector	Terminal		()]]]]]	
B552	12	Ground	Battery voltage	
6332	27	Ground		

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace passenger seat control unit. Refer to <u>SE-181, "Removal and Installation"</u>.

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident. Refer to<u>GI-43, "Intermittent Incident"</u>.

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:000000007471951

1. CHECK RECLINING SWITCH

- 1. Turn ignition switch OFF.
- 2. Disconnect power seat switch connector.
- 3. Check continuity between power seat switch terminals.

Power seat switch		Condition		Continuity
Terr	ninal			Continuity
	12		Backward	Existed
32	12	 Reclining switch 	Other than above	Not existed
32	27		Forward	Existed
			Other than above	Not existed

Is the inspection result normal?

- YES >> INSPECTION END
- NO >> Replace power seat switch. Refer to <u>SE-183, "Removal and Installation"</u>.

< DTC/CIRCUIT DIAG	SNOSIS >		- (- /	
LIFTING SWITC	CH (FRONT)				
DRIVER SIDE					/
DRIVER SIDE : D	escription				INFOID:00000007471952
Lifting switch (front) isThe operation signal					surface.
DRIVER SIDE : C	omponent Funct	ion Ch	neck		INFOID:000000007471953
1. CHECK FUNCTION	l				
	n ON. W-UP", "LIFT FR SW- n (front) signal under t				CONSULT.
Monitor item		Сс	ondition		Status
LIFT FR SW-UP	Lifting switch front	(up)	Operate		ON
	Enting Switch Hone	(up)	Release		OFF
LIFT FR SW-DN	Lifting switch front	(down)	Operate		ON
	Linning owner norm	(donn)	Release		OFF
	· · ·		ss connecto	r and ground.	S
	(+)				
P	ower seat switch			()	Voltage (V)
Connector	Termina	al			(Approx.)
B511	13			Ground	Battery voltage
Is the inspection result					
YES >> GO TO 3. NO >> GO TO 2. 2.CHECK LIFTING SV 1. Disconnect driver s	WITCH (FRONT) CIR	ector.	harness co	nnector and powe	r seat switch harness con-
YES >> GO TO 3. NO >> GO TO 2. 2.CHECK LIFTING SV 1. Disconnect driver s 2. Check continuity b nector.	WITCH (FRONT) CIR	ector.		nnector and powe	r seat switch harness con-
YES >> GO TO 3. NO >> GO TO 2. 2.CHECK LIFTING SV 1. Disconnect driver s 2. Check continuity b nector.	WITCH (FRONT) CIR seat control unit conno etween driver seat co	ector. ntrol unit			r seat switch harness con-

-				Continuity	
-	Connector	Terminal	Connector	Terminal	Continuity
	B503	13	B511	13	Existed
	0303	28		28	Existed

3. Check continuity between driver seat control unit harness connector and ground.

< DTC/CIRCUIT DIAGNOSIS >

Driver seat	control unit			Continuity
Connector	Termina		Ground	Continuity
B503	13		Ground	Not existed
	28			NOT EXISTED
s the inspection result norm	al?			
YES >> Replace driver s NO >> Repair or replac		Refer to <u>SE-</u>	180. "Removal and Insta	allation".
3. CHECK LIFTING SWITC	H (FRONT)			
Check lifting switch (front). Refer to <u>SE-52, "DRIVER SI</u>	DE : Component	Inspection".		
s the inspection result norm	al?			
YES >> GO TO 4. NO >> Replace power s	seat switch. Refe	r to <u>SE-183,</u>	"Removal and Installati	<u>on"</u> .
1. CHECK INTERMITTENT	INCIDENT			
Check intermittent incident. Refer to <u>GI-43, "Intermittent</u>	Incident".			
>> INSPECTION E	ND			
DRIVER SIDE : Comp	onent Inspec	tion		INFOID:00000000747195
1 .CHECK LIFTING SWITC	H (FRONT)			
. Turn ignition switch OFF 2. Disconnect power seat s 3. Check continuity betwee	witch connector.	itch terminal	S.	
Power seat swi	tch		Condition	Continuity
—			Condition	Continuity

Powers	Power seat switch		Condition		
Terr	minal		lation	Continuity	
	13		Down	Existed	
32	15	Lifting switch (front)	Other than above	Not existed	
52	28		Up	Existed	
	20		Other than above	Not existed	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power seat switch. Refer to <u>SE-183. "Removal and Installation"</u>. PASSENGER SIDE

PASSENGER SIDE : Description

• Lifting switch (front) is equipped to the power seat switch on the seat cushion side surface.

• The operation signal is input to the passenger seat control unit when the lifting switch (front) is operated.

PASSENGER SIDE : Component Function Check

1.CHECK FUNCTION

Check seat lifting (front) operation with lifting switch (front).

Is the indication normal?

YES >> Lifting switch (front) function is OK.

NO >> Refer to <u>SE-53, "PASSENGER SIDE : Diagnosis Procedure"</u>.

SE-52

INFOID:000000007471956

< DTC/CIRCUIT DIAGNOSIS >

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000007471958

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1.CHECK LIFTING SWITCH (FRONT) SIGNAL

- 1. Turn ignition switch OFF.
- 2. Check voltage between passenger seat control unit harness connector and ground.

	+)				Voltage (V)	0
Passenger se	eat control unit	()	Con	dition	(Approx.)	C
Connector	Terminal				(- <i>)</i>	
	13			Down	0	D
B552	13	Ground	Lifting switch (front)	Other than above	Battery voltage	
B352	28	Ground		UP	0	
	20			Other than above	Battery voltage	E

Is the inspection result normal?

YES >> Lifting switch (front) circuit is OK.

NO >> GO TO 2.

2.CHECK LIFTING SWITCH (FRONT) CIRCUIT

1. Disconnect passenger seat control unit connector and power seat switch connector.

2. Check continuity between passenger seat control unit harness connector and power seat switch harness connector.

Passenger se	Passenger seat control unit Power seat switch		Continuity	
Connector	Terminal	Connector	Terminal	Continuity
B552	13	B554 –	13	Existed
0002	28		28	

Check continuity between passenger seat control unit harness connector and ground. 3.

Pas	senger seat control unit			
Connector	Terminal	Orrent	Continuity	
B552	13	- Ground	Not existed	K
	28		NOI EXISIED	_

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness. **3.**CHECK LIFTING SWITCH (FRONT)

Check lifting switch (front). Refer to SE-54, "PASSENGER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace power seat switch. Refer to SE-183, "Removal and Installation".

4.CHECK PASSENGER SEAT CONTROL UNIT OUTPUT SIGNAL

1. Connect passenger seat control unit connector.

Check voltage between passenger seat control unit harness connector and ground. 2.

(+)				
Passenger seat control unit		()	Voltage (V) (Approx.)	
Connector	Terminal			
B552	13	Ground	Battery voltage	
DJJ2	28	Ground		

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace passenger seat control unit. Refer to <u>SE-181, "Removal and Installation"</u>.

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident. Refer to <u>GI-43, "Intermittent Incident"</u>.

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:000000007471959

1. CHECK LIFTING SWITCH (FRONT)

- 1. Turn ignition switch OFF.
- 2. Disconnect power seat switch connector.
- 3. Check continuity between power seat switch terminals.

Power seat switch Terminal		Condition		Continuity
				Continuity
32	13 28	- Lifting switch (front)	Down	Existed
			Other than above	Not existed
			Up	Existed
			Other than above	Not existed

Is the inspection result normal?

- YES >> INSPECTION END
- NO >> Replace power seat switch. Refer to <u>SE-183</u>, "Removal and Installation".

LIFTING SWITCH (REAR)

LIFTING SWITCI	H (REAR)				
RIVER SIDE	(<i>'</i>				
RIVER SIDE : De	escription				INFOID:000000007471960
Lifting switch (rear) is of The operation signal is					
RIVER SIDE : Co	mponent Functi	on Ch	eck		INFOID:000000007471961
.CHECK FUNCTION					
	ON. /-UP", "LIFT RR SW- (rear) signal under th				ONSULT.
Monitor item		Со	ndition		Status
			Operate		ON
LIFT RR SW-UP	Lifting switch rear (up)	Release		OFF
LIFT RR SW-DN	Lifting owitch roor (down)	Operate		ON
	Lifting switch rear (down)	Release		OFF
	eat switch connector. een power seat switc		s connector	and ground.	
	(+)		_		
	wer seat switch		()		Voltage (V) (Approx.)
Connector					(Approx.)
	Termina				(Approx.)
B511	14			Ground	(Approx.) Battery voltage
the inspection result n YES >> GO TO 3. NO >> GO TO 2.	14 29 Normal? /ITCH (REAR) CIRCU	JIT		Ground	
the inspection result n YES >> GO TO 3. NO >> GO TO 2. .CHECK LIFTING SW Disconnect driver se	14 29 ormal? /ITCH (REAR) CIRCU eat control unit conne	JIT ctor.			
the inspection result n YES >> GO TO 3. NO >> GO TO 2. CHECK LIFTING SW Disconnect driver se Check continuity be	14 29 Normal? /ITCH (REAR) CIRCU eat control unit conne tween driver seat cor	JIT ctor.		nnector and power s	Battery voltage
 the inspection result n YES >> GO TO 3. NO >> GO TO 2. CHECK LIFTING SW Disconnect driver se Check continuity be nector. 	14 29 Normal? /ITCH (REAR) CIRCU eat control unit conne tween driver seat cor	JIT ctor. ntrol unit	harness co	nnector and power s	Battery voltage
s the inspection result n YES >> GO TO 3. NO >> GO TO 2. CHECK LIFTING SW Disconnect driver se Check continuity be nector.	14 29 ormal? /ITCH (REAR) CIRCU eat control unit conne tween driver seat cor	JIT ctor. ntrol unit Cor	harness cor Power se	nnector and power s	Battery voltage

3. Check continuity between driver seat control unit harness connector and ground.

LIFTING SWITCH (REAR)

< DTC/CIRCUIT DIAGNOSIS >

	Driver seat	t control unit			Continuity
	Connector	Termina	al	Ground	Continuity
	B503	14		Ground	Not existed
	B303	29			NOT EXISTED
ls ti	ne inspection result norm	<u>al?</u>			
YE N(Refer to <u>S</u>	E-180. "Removal and Insta	allation".
3.	CHECK LIFTING SWITC	H (REAR)			
	eck lifting switch (rear). er to <u>SE-56, "DRIVER SI</u>	DE : Componen	t Inspection	<u>n"</u> .	
ls tł	ne inspection result norm	<u>al?</u>			
	S >> GO TO 4.				
N(1 1		er to <u>SE-18</u>	3, "Removal and Installati	<u>on"</u> .
4.	CHECK INTERMITTENT	INCIDENT			
	eck intermittent incident. er to <u>GI-43, "Intermittent</u>	Incident".			
	>> INSPECTION E	ND			
DF	RIVER SIDE : Comp	onent Inspe	ction		INFOID:0000000747196
1.	CHECK LIFTING SWITC	H (REAR)			
1. 2. 3.	Turn ignition switch OFF Disconnect power seat s Check continuity betwee	switch connector		nals.	
-	Power seat swi	itch		Condition	Continuity

Power se	Power seat switch		Condition		
Terminal				Continuity	
	14 29		Down	Existed	
32			Other than above	Not existed	
32		Lifting switch (rear)	Up	Existed	
			Other than above	Not existed	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power seat switch. Refer to <u>SE-183. "Removal and Installation"</u>. PASSENGER SIDE

PASSENGER SIDE : Description

• Lifting switch (rear) is equipped to the power seat switch on the seat cushion side surface.

• The operation signal is input to the passenger seat control unit when the lifting switch (rear) is operated.

PASSENGER SIDE : Component Function Check

1.CHECK FUNCTION

Check seat lifting (rear) operation with lifting switch (rear).

Is the indication normal?

YES >> Lifting switch (rear) function is OK.

NO >> Refer to <u>SE-57</u>, "PASSENGER SIDE : Diagnosis Procedure".

INFOID:000000007471964

LIFTING SWITCH (REAR)

< DTC/CIRCUIT DIAGNOSIS >

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000007471966

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1.CHECK LIFTING SWITCH (REAR) SIGNAL

- 1. Turn ignition switch OFF.
- 2. Check voltage between passenger seat control unit harness connector and ground.

(+) Passenger seat control unit						
		()	Condition		Voltage (V) (Ap- prox.)	
Connector	Terminal				F / //	
B552 29	14		Ground Lifting switch (front)	Down	0	
		Cround		Other than above	Battery voltage	
		Ground		Up	0	
	29			Other than above	Battery voltage	

Is the inspection result normal?

YES >> Llfting switch (front) circuit is OK.

NO >> GO TO 2.

2.CHECK LIFTING SWITCH (REAR) CIRCUIT

1. Disconnect passenger seat control unit connector and power seat switch connector.

2. Check continuity between passenger seat control unit harness connector and power seat switch harness connector.

Passenger s	r seat control unit Power sear switch		Continuity	
Connector	Terminal	Connector	Terminal	Continuity
B552	14	B554	14	Existed
	29	6004	29	Existed

3. Check continuity between passenger seat control unit harness connector and ground.

-	Passenger seat control unit				-
	Connector	Terminal	Oracia d	Continuity	
	B552	14	Ground	Not oxisted	- K
D002	29	Not existe	NOT EXISTED	_	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK LIFTING SWITCH (REAR)

Check lifting switch (rear).

Refer to SE-58, "PASSENGER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace power seat switch. Refer to <u>SE-183</u>, "Removal and Installation".

4.CHECK PASSENGER SEAT CONTROL UNIT OUTPUT SIGNAL

1. Connect passenger seat control unit connector.

2. Check voltage between passenger seat control unit harness connector and ground.

(+)				
Passenger seat control unit		()	Voltage (V) (Approx.)	
Connector	Terminal		()	
B552	14	Ground	Battony voltago	
B002	29	Ground	Battery voltage	

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace passenger seat control unit. Refer to <u>SE-181, "Removal and Installation"</u>.

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident. Refer to <u>GI-43, "Intermittent Incident"</u>.

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:000000007471967

1.CHECK LIFTING SWITCH (REAR)

1. Turn ignition switch OFF.

- 2. Disconnect power seat switch connector.
- 3. Check continuity between power seat switch terminals.

Power seat switch Terminal		Condition		Continuity
				Continuity
32 -	14 29	Lifting switch (rear)	Down	Existed
			Other than above	Not existed
			Up	Existed
			Other than above	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power seat switch. Refer to <u>SE-183</u>, "Removal and Installation".

POWER SEAT SWITCH GROUND CIRCUIT

<pre></pre>		CH GROUND CIRCU	11
POWER SEAT SWI		RCUIT	A
DRIVER SIDE : Diagno	osis Procedure		INFOID:000000007471968
1. CHECK POWER SEAT S		т	В
1. Turn ignition switch OFF			
2. Disconnect power seat s		ector and ground.	C
Power se	eat switch		D
Connector	Terminal	Ground	
B511 Is the inspection result norma	32		Existed
YES >> GO TO 2. NO >> Repair or replace 2. CHECK POWER SEAT S	e harness.	JIT	F
Check lifting switch (rear). Refer to <u>SE-56</u> , "DRIVER SII Is the inspection result normation YES >> GO TO 3. NO >> Replace power s 3. CHECK INTERMITTENT	<u>al?</u> seat switch. Refer to <u>SE-18</u>	<u>n"</u> . 33. "Removal and Installati	G on". H
Check intermittent incident. Refer to <u>GI-43, "Intermittent</u>			1
>> INSPECTION EI PASSENGER SIDE	ND		SE
PASSENGER SIDE : D	Diagnosis Procedure	9	INFOID:00000007471969 K
1. CHECK POWER SEAT S	WITCH GROUND CIRCU	IT	
 Turn ignition switch OFF Disconnect power seat s Check continuity betwee 		ector and ground.	L
	eat switch		Continuity
Connector B554	Terminal 32	Ground	Existed
Is the inspection result norma			EXISTEN
YES-1:When power seat sw YES-2:When all power seat NO >> Repair or replace	vitch does not operate any components do not opera e harness.	ate.>>GO TO 3.	0
2.CHECK POWER SEAT S	WITCH INTERNAL CIRCU	JIT	Р
Check sliding switch. Refer to <u>SE-44, "PASSENGE</u>		pection".	1
Is the inspection result normalYES>> GO TO 3.NO>> Replace power s3.CHECK INTERMITTENT	seat switch. Refer to <u>SE-18</u>	33, "Removal and Installati	<u>on"</u> .

POWER SEAT SWITCH GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

Check intermittent incident. Refer to <u>GI-43, "Intermittent Incident"</u>.

>> INSPECTION END

< DTC/CIRCUIT DIAGNOSIS >	

FORWARD SWITCH DRIVER SIDE

DRIVER SIDE : Description

• Forward switch is installed on the seatback frame.

• Forward switch detects condition of seatback.

DRIVER SIDE : Component Function Check

1.CHECK FUNCTION

- 1. Turn ignition switch ON.
- 2. Select "FORWARD SW" in the "Data Monitor" mode using CONSULT.
- 3. Check the forward switch signal under the following condition.

Test item	Condition		Status	
FORWARD SW	Driver eide easthaak	Folded up	ON	
FORWARD SW	Driver side seatback	Folded down	OFF	

Is the indication normal?

- YES >> Forward switch function is OK.
- NO >> Refer to <u>SE-61, "DRIVER SIDE : Diagnosis Procedure"</u>.

DRIVER SIDE : Diagnosis Procedure

1.CHECK FORWARD SWITCH INPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect forward switch connector.
- 3. Check voltage between forward switch harness connector and ground.

(·	(+)				SE
Forwar	d switch	()	Condition	Voltage (V) (Approx.)	
Connector	Terminal				V
B512	41	Ground	Not in the sleep mode	5	r.

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK FORWARD SWITCH CIRCUIT

1. Disconnect driver seat control unit connector.

2. Check continuity between driver seat control unit harness connector and forward switch harness connector.

					N
 Driver seat	control unit	Forwar	d switch	Continuity	•
 Connector	Terminal	Connector	Terminal	Continuity	
B504	41	B512	41	Existed	0

3. Check continuity between driver seat control unit harness connector and ground.

Driver seat control unit			Continuity	P
Connector	Terminal	Ground Continuity		
B504	41		Not existed	

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>SE-180, "Removal and Installation"</u>

NO >> Repair or replace harness.

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INFOID:000000007471970

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< DTC/CIRCUIT DIAGNOSIS >

3.CHECK FORWARD SWITCH GROUND CIRCUIT

Check continuity between forward switch harness connector and ground.

Forward switch			Continuity	
Connector	Terminal	Ground	Continuity	
B512	32		Existed	

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK FORWARD SWITCH

Check forward switch.

Refer to SE-62, "DRIVER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace forward switch. Refer to <u>SE-163</u>, "Exploded View".

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident. Refer to <u>GI-43, "Intermittent Incident"</u>.

>> INSPECTION END

DRIVER SIDE : Component Inspection

1.CHECK FORWARD SWITCH

1. Turn ignition switch OFF.

2. Disconnect forward switch connector.

3. Check continuity between forward switch terminals.

Forward switch Terminal		Condition		Continuity	
41	52	Differ side seatback	Folded down	Existed	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace forward switch. Refer to <u>SE-163</u>, "Exploded View".

PASSENGER SIDE

PASSENGER SIDE : Description

• Forward switch is installed on seatback frame.

Forward switch detects condition of seatback.

PASSENGER SIDE : Component Function Check

1.CHECK FUNCTION

Check that power walk-in function does not activate when seatback is folded up.

Is the inspection result normal?

YES >> Forward switch function is OK.

NO >> Refer to <u>SE-63. "PASSENGER SIDE : Diagnosis Procedure"</u>.

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< DTC/CIRCUIT DIAGNOSIS >

PASSENGER SIDE : Diagnosis Procedure

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1.CHECK FORWARD SWITCH INPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Check voltage between passenger seat control unit harness connector and ground.

	(+)	-		Voltage (V)	C
Passenger s	eat control unit	(-)	Condition	(Approx.)	C
Connector	Terminal				
B553	41	Ground	Seatback is folded up and not in the sleep mode	5	D
			Other than above	0	

Is the inspection result normal?

YES >> Forward switch circuit is OK.

NO >> GO TO 2.

2. CHECK FORWARD SWITCH CIRCUIT

1. Disconnect passenger seat control unit connector and forward switch connector.

 Check continuity between passenger seat control unit harness connector and forward switch harness connector.

Passenger se	Passenger seat control unit		Forward switch		F
Connector	Terminal	Connector	Terminal	Continuity	
B553	41	B556	41	Existed	

3. Check continuity between passenger seat control unit harness connector and ground.

_	Passenger seat control unit			Continuity	
_	Connector	Terminal	- Continuit	Continuity	SE
_	B553	41		Not existed	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

 ${f 3.}$ FORWARD SWITCH GROUND CIRCUIT

Check continuity between forward switch harness connector and ground.

Forwar	d switch		Continuity
Connector	Terminal	Ground	Continuity
B556	32		Existed
s the inspection result norm	al?		
YES >> GO TO 4.			
NO >> Repair or replace	e harness.		
1. CHECK FORWARD SWI	ТСН		
Check forward switch.			
Refer to <u>SE-64, "PASSENG</u>	<u>ER SIDE : Component Ins</u>	<u>pection"</u> .	
s the inspection result norm	<u>al?</u>		
YES >> GO TO 5.			
NO >> Replace forward	switch. Refer to <u>SE-163.</u>	<u>"Exploded View"</u> .	
D .CHECK PASSENGER SI	EAT CONTROL UNIT OUT	PUT SIGNAL	
1. Connect passenger sea	t control unit connector.		

2. Check voltage between passenger seat control unit harness connector and ground.

< DTC/CIRCUIT DIAGNOSIS >

(+)			
Passenger seat control unit		(-)	Condition	Voltage (V) (Approx.)
Connector	Terminal			
B553	41	Ground	Not in the sleep mode	5

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace passenger seat control unit. Refer to <u>SE-181, "Removal and Installation"</u>.

6.CHECK INTERMITTENT INCIDENT

Check intermittent incident. Refer to <u>GI-43, "Intermittent Incident"</u>.

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:000000007471977

1.CHECK FORWARD SWITCH

1. Turn ignition switch OFF.

- 2. Disconnect forward switch connector.
- 3. Check continuity between forward switch terminals.

Forward switch Terminal		Condition		Continuity	
	41	Fassenger side sealback	Folded down	Existed	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace forward switch. Refer to <u>SE-163, "Exploded View"</u>.

< DTC/CIRCUIT DIAGNOSIS > SEAT BELT BUCKLE SWITCH А DRIVER SIDE DRIVER SIDE : Description INFOID-00000007471978 В Seat belt buckle switch is installed in seat belt buckle. Seat belt buckle switch detects condition of seat belt. **DRIVER SIDE : Component Function Check** INFOID:000000007471979 **1.**CHECK FUNCTION 1. Turn ignition switch ON. Select "SEAT BELT SW" in the "Data Monitor" mode using CONSULT. 2. 3. Check the forward switch signal under the following condition. Test item Condition Status Fastened ON SEAT BELT SW Driver side seat belt OFF Released Is the indication normal? YES >> Seat belt buckle switch (driver side) function is OK. NO >> Refer to SE-65, "DRIVER SIDE : Diagnosis Procedure". DRIVER SIDE : Diagnosis Procedure INFOID:000000007471980 Н 1.CHECK SEAT BELT BUCKLE SWITCH (DRIVER SIDE) INPUT SIGNAL 1. Turn ignition switch OFF. 2. Disconnect seat belt buckle switch (driver side) connector. 3. Check voltage between seat belt buckle switch (driver side) harness connector and ground. SE (+) Voltage (V) Seat belt buckle switch (driver side) (-) Condition (Approx.) Connector Terminal Κ B13 1 Ground 5 Not in the sleep mode Is the inspection result normal? YES >> GO TO 3. L NO >> GO TO 2. **2.**CHECK SEAT BELT BUCKLE SWITCH (DRIVER SIDE) CIRCUIT Μ 1. Disconnect driver seat control unit connector. Check continuity between driver seat control unit harness connector and seat belt buckle switch (driver side) harness connector. Ν Seat belt buckle switch (driver side) Driver seat control unit Continuity Connector Terminal Connector Terminal B503 5 B13 1 Existed 3. Check continuity between driver seat control unit harness connector and ground. Ρ Driver seat control unit Continuity Connector Terminal Ground B503 5 Not existed Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>SE-180, "Removal and Installation"</u>.

NO >> Repair or replace harness.

< DTC/CIRCUIT DIAGNOSIS >

${f 3.}$ CHECK SEAT BELT BUCKLE SWITCH (DRIVER SIDE) GROUND CIRCUIT

Check continuity between seat belt buckle switch (driver side) harness connector and ground.

Seat belt buckle s	switch (driver side)		Continuity	
Connector	Terminal	Ground	Conunaity	
B13	2		Existed	

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK SEAT BELT BUCKLE SWITCH

Check seat belt buckle switch (driver side).

Refer to SE-66, "DRIVER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace seat belt buckle switch (driver side). Refer to <u>SE-163, "Exploded View"</u>.

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident. Refer to <u>GI-43, "Intermittent Incident"</u>.

>> INSPECTION END

DRIVER SIDE : Component Inspection

1.CHECK SEAT BELT BUCKLE SWITCH (DRIVER SIDE)

1. Turn ignition switch OFF.

2. Disconnect seat belt buckle switch (driver side) connector.

3. Check continuity between seat belt buckle switch (driver side) terminals.

Seat belt buckle	Seat belt buckle switch (driver side)		Condition		
Terminal		Condition		Continuity	
1	1 2	Driver side seat belt	Fastened	Not existed	
			Released	Existed	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace seat belt buckle switch (driver side). Refer to <u>SE-163, "Exploded View"</u>. PASSENGER SIDE

PASSENGER SIDE : Description

• Seat belt buckle switch is installed in seat belt buckle.

Seat belt buckle switch detects condition of seat belt.

PASSENGER SIDE : Component Function Check

1.CHECK FUNCTION

Check that power walk-in function does not activate when seat belt is fastened.

Is the inspection result normal?

YES >> Seat belt buckle switch (passenger side) is OK.

NO >> Refer to <u>SE-67. "PASSENGER SIDE : Diagnosis Procedure"</u>.

Revision: 2013 February

INFOID:000000007471982

INFOID-000000007471981

< DTC/CIRCUIT DIAGNOSIS >

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000007471984

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1.CHECK SEAT BELT BUCKLE SWITCH SIGNAL

- 1. Turn ignition switch OFF.
- 2. Check voltage between passenger seat control unit harness connector and ground.

	(+)					
Passenger s	eat control unit	(-) Condition Voltage (V)		(-)	Voltage (V) (Approx.)	
Connector	Terminal			(
B552	5	Ground	Passenger side seat belt is fastened, and not in the sleep mode	5	I	
			Other than above	0		

Is the inspection result normal?

YES >> Seat belt buckle switch (passenger side) circuit is OK.

NO >> GO TO 2.

2.CHECK SEAT BELT BUCKLE SWITCH (PASSENGER SIDE) CIRCUIT

Disconnect passenger seat control unit connector and seat belt buckle switch (passenger side) connector.
 Check continuity between passenger seat control unit harness connector and seat belt buckle switch (passenger side) harness connector.

Passenger se	er seat control unit Seat belt buckle switch (passenger side)		Continuity		
Connector	Terminal	Connector	Terminal	Continuity	
B552	5	B213	1	Existed	

3. Check continuity between passenger seat control unit harness connector and ground.

Passenger se	eat control unit		Continuity	SE	
Connector	Terminal	Ground	Continuity	SE	
B552	5		Not existed		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

$\mathbf{3.}$ CHECK SEAT BELT BUCKLE SWITCH (PASSENGER SIDE) GROUND CIRCUIT

Check continuity between seat belt buckle switch (passenger side) harness connector and ground.

Seat belt buckle swite	ch (passenger side)		Orationity	-		
Connector	Terminal	Ground	Continuity			
B213	2		Existed			
s the inspection result norma	<u> ?</u>			-		
YES >> GO TO 4.						
NO >> Repair or replace	harness.					
CHECK SEAT BELT BUCH	CHECK SEAT BELT BUCKLE SWITCH (PASSENGER SIDE)					
heck seat belt buckle switch						
efer to <u>SE-68. "PASSENGE</u>	R SIDE : Component Insp	pection".				
s the inspection result norma	<u> ?</u>					
YES >> GO TO 5.						
NO >> Replace seat belt	buckle switch (passenge	r side) Refer to SE-163	"Exploded View"			

NO >> Replace seat belt buckle switch (passenger side). Refer to <u>SE-163, "Exploded View"</u>.

 ${f 5.}$ CHECK PASSENGER SEAT CONTROL UNIT OUTPUT SIGNAL

1. Connect passenger seat control unit connector.

2. Check voltage between passenger seat control unit harness connector and ground.

< DTC/CIRCUIT DIAGNOSIS >

((+)			
Passenger se	Passenger seat control unit		Condition	Voltage (V) (Approx.)
Connector	Terminal			
B552	5	Ground	Not in the sleep mode	5

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace passenger seat control unit. Refer to <u>SE-181, "Removal and Installation"</u>.

6.CHECK INTERMITTENT INCIDENT

Check intermittent incident. Refer to <u>GI-43, "Intermittent Incident"</u>.

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:000000007471985

1.CHECK SEAT BELT BUCKLE SWITCH (PASSENGER SIDE)

1. Turn ignition switch OFF.

2. Disconnect seat belt buckle switch (passenger side) connector.

3. Check continuity between seat belt buckle switch (passenger side) terminals.

Seat belt buckle switch (passenger side)		Condition		Continuity	
Terminal					
1	2	Passongor sido soat bolt	Fastened	Not existed	
Ι	Z	Passenger side seat belt	Released	Existed	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace seat belt buckle switch (passenger side). Refer to <u>SE-163, "Exploded View"</u>.

< DTC/CIRCUIT DIAGNOS						
SLIDING LIMIT SW DRIVER SIDE	ITCH					А
DRIVER SIDE : Descr	iption				INFOID:000000007471986	В
 Sliding limit switch is instal Sliding limit switch detects 						
DRIVER SIDE : Comp		U	eck		INFOID:00000007471987	С
1. CHECK FUNCTION			5011		INFOID.00000007471987	
 Turn ignition switch ON. Select "FWD LIMIT SW" Check the sliding limit st 						D
Test item		Con	dition		Status	
			Front edg	e	ON	_
FWD LIMIT SW	Seat sliding		Other tha	n above	OFF	F
Is the indication normal?YES>> Sliding limit switNO>> Refer to SE-69.			s Proced	lure".		G
DRIVER SIDE : Diagn	osis Proced	dure			INFOID:00000007471988	
1.CHECK SLIDING LIMIT						Н
 Turn ignition switch OFF Disconnect sliding limit s Check voltage between 	- switch connecto	or.	s connect	or and ground.		
(+)						SE
Sliding limit swi	tch		Voltage (V) (Approx.)			
Connector	Terminal				(дрргох.)	
B514	4	Grour	nd	Not in the sleep mo	ode 5	K
Is the inspection result norm YES >> GO TO 3. NO >> GO TO 2. 2.CHECK SLIDING LIMIT S 1. Disconnect driver seat of	SWITCH CIRCL					L
			narness c	onnector and slid	ing limit switch harness con-	N
Driver seat contro	ol unit		Sliding	limit switch	Continuity	
Connector	Terminal		nector	Terminal		~
B503 3. Check continuity betwee	4 en driver seat co		514 narness c	4 onnector and grou	Existed	0
	t control unit					Ρ
Connector	Termir	nal	-	Ground	Continuity	
B503	4		-	2.00.00	Not existed	
Is the inspection result norm			1			
YES >> Replace driver s		Refer to S	SE-180 "F	Removal and Insta	allation"	

YES >> Replace driver seat control unit. Refer to <u>SE-180, "Removal and Installation"</u>.

NO >> Repair or replace harness.

< DTC/CIRCUIT DIAGNOSIS >

3.CHECK SLIDING LIMIT SWITCH GROUND CIRCUIT

Check continuity between sliding limit switch harness connector and ground.

Sliding lin	nit switch		Continuity
Connector	Terminal	Ground	Continuity
B514	32		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK SLIDING LIMIT SWITCH

Check sliding limit switch.

Refer to <u>SE-70, "DRIVER SIDE : Component Inspection"</u>.

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace sliding limit switch. Refer to <u>SE-163, "Exploded View"</u>.

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident. Refer to <u>GI-43, "Intermittent Incident"</u>.

>> INSPECTION END

DRIVER SIDE : Component Inspection

1.CHECK SLIDING LIMIT SWITCH

1. Turn ignition switch OFF.

2. Disconnect sliding limit switch connector.

3. Check continuity between sliding limit switch terminals.

Sliding li	Sliding limit switch		Condition	
Terr	minal			Continuity
1	32	Seat sliding	Front edge	Not existed
4	52	Seat situling	Other than above	Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace sliding limit switch. Refer to <u>SE-163, "Exploded View"</u>.

PASSENGER SIDE

PASSENGER SIDE : Description

• Sliding limit switch is installed on seat cushion frame.

• Sliding limit switch detects condition of seat sliding.

PASSENGER SIDE : Component Function Check

1.CHECK FUNCTION

Check whether or not power walk-in function activates normally when power walk-in switch is pressed. <u>Is the inspection result normal?</u>

YES >> Sliding limit switch function is OK.

NO >> Refer to <u>SE-71, "PASSENGER SIDE : Diagnosis Procedure"</u>.

Revision: 2013 February

INFOID:000000007471990

INFOID-00000007471989

< DTC/CIRCUIT DIAGNOSIS > **PASSENGER SIDE : Diagnosis Procedure** INFOID:000000007471992 А 1.CHECK SLIDING LIMIT SWITCH SIGNAL 1. Turn ignition switch OFF. В 2. Check voltage between passenger seat control unit harness connector and ground. (+)Voltage (V) Passenger seat control unit (-) Condition (Approx.) Connector Terminal Sliding position is front edge and not in 5 D the sleep mode B552 4 Ground Other than above 0 Is the inspection result normal? YES >> Sliding switch circuit is OK. NO >> GO TO 2. 2.CHECK SLIDING LIMIT SWITCH CIRCUIT F 1. Disconnect passenger seat control unit connector and sliding limit switch connector. 2. Check continuity between passenger seat control unit harness connector and sliding limit switch harness connector. Passenger seat control unit Sliding limit switch Continuity Н Connector Terminal Connector Terminal B552 4 B558 4 Existed Check continuity between passenger seat control unit harness connector and ground. 3. Passenger seat control unit Continuity Connector Terminal Ground SE B552 4 Not existed Is the inspection result normal? Κ YES >> GO TO 3. NO >> Repair or replace harness. ${f 3.}$ CHECK SLIDING LIMIT SWITCH GROUND CIRCUIT Check continuity between sliding limit switch harness connector and ground. Sliding limit switch Continuity Μ Connector Terminal Ground B558 32 Existed Is the inspection result normal? Ν YES >> GO TO 4. NO >> Repair or replace harness. 4.CHECK SLIDING LIMIT SWITCH Check sliding limit switch. Refer to SE-72, "PASSENGER SIDE : Component Inspection". Is the inspection result normal? YES >> GO TO 5. NO >> Replace sliding limit switch. Refer to SE-163, "Exploded View". ${f 5.}$ CHECK PASSENGER SEAT CONTROL UNIT OUTPUT SIGNAL

1. Connect passenger seat control unit connector.

2. Check voltage between passenger seat control unit harness connector and ground.

< DTC/CIRCUIT DIAGNOSIS >

	(+) Passenger seat control unit		Condition	Voltage (V) (Approx.)
Connector	Terminal			(TT -)
B552	4	Ground	Not in the sleep mode	5

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace passenger seat control unit. Refer to <u>SE-181, "Removal and Installation"</u>.

6.CHECK INTERMITTENT INCIDENT

Check intermittent incident. Refer to <u>GI-43, "Intermittent Incident"</u>.

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:000000007471993

1. CHECK SLIDING LIMIT SWITCH

1. Turn ignition switch OFF.

2. Disconnect sliding limit switch connector.

3. Check continuity between sliding limit switch terminals.

Sliding limit switch		Condition		Continuity
Terminal				
4	32	Seat sliding	Front edge	Not existed
			Other than above	Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace sliding limit switch. Refer to <u>SE-163, "Exploded View"</u>.

DTC/CIRCUIT DIAG	NOSIS >			
OWER WALK-	IN SWITCH			
RIVER SIDE				
RIVER SIDE : D	escription			INFOID:00000007471994
Power walk-in switch The operation signal			en power walk-in switc	ch is operated.
RIVER SIDE : C	omponent Func	tion Check		INFOID:000000007471995
CHECK FUNCTION	•			
	n ON. W" in the "Data Mon valk-in switch signal u			
Test item		Co	ondition	Status
WALK-IN SW	Powery	valk-in switch	Pressed	ON
	Fowerv		Released	OFF
	<u>.</u> <-in switch function is E-73, "DRIVER SIDE	<u>: Diagnosis Pr</u>	ocedure".	
	iagnosis Procec	lure		INFOID:00000007471996
RIVER SIDE : D	-			INFOID:000000007471996
RIVER SIDE : D .CHECK POWER W. Turn ignition switch Disconnect power	ALK-IN SWITCH SIG OFF. walk-in switch conne	GNAL	onnector and ground.	INFOID:00000007471996
RIVER SIDE : D .CHECK POWER W. Turn ignition switch Disconnect power	ALK-IN SWITCH SIG OFF. walk-in switch conne	GNAL	onnector and ground.	
RIVER SIDE : D .CHECK POWER W. Turn ignition switch Disconnect power Check voltage betw	ALK-IN SWITCH SIG OFF. walk-in switch conne veen power walk-in s	GNAL	onnector and ground. (-)	Voltage (V) (Approx.)
RIVER SIDE : D .CHECK POWER W Turn ignition switch Disconnect power Check voltage betw Pow Connector	ALK-IN SWITCH SIG OFF. walk-in switch conne veen power walk-in s (+) ver walk-in switch Termin	SNAL ctor. switch harness c		Voltage (V) (Approx.)
PRIVER SIDE : D CHECK POWER W. Turn ignition switch Disconnect power to Check voltage betw Power Connector B513	ALK-IN SWITCH SIG OFF. walk-in switch connerveen power walk-in s (+) ver walk-in switch Termin 30	SNAL ctor. switch harness c		Voltage (V)
RIVER SIDE : D CHECK POWER W. Turn ignition switch Disconnect power Check voltage betw Pow Connector B513 the inspection result YES >> GO TO 3. NO >> GO TO 2. CHECK POWER W. Disconnect driver s	ALK-IN SWITCH SIG OFF. walk-in switch connerveen power walk-in s (+) ver walk-in switch (+) ver walk-in switch ALK-IN SWITCH CIR seat control unit connerve	SNAL ctor. switch harness c al	(–) Ground	Voltage (V) (Approx.)
RIVER SIDE : D .CHECK POWER W. Turn ignition switch Disconnect power of Check voltage betw Power Connector B513 the inspection result (ES >> GO TO 3. NO >> GO TO 2. .CHECK POWER W. Disconnect driver so Check continuity bo connector.	ALK-IN SWITCH SIG OFF. walk-in switch connerveen power walk-in s (+) ver walk-in switch (+) ver walk-in switch ALK-IN SWITCH CIR seat control unit connerve	SNAL ctor. switch harness c hal RCUIT ector. control unit harn	(–) Ground	Voltage (V) (Approx.) Battery voltage
RIVER SIDE : D .CHECK POWER W. Turn ignition switch Disconnect power of Check voltage betw Power Connector B513 the inspection result (ES >> GO TO 3. NO >> GO TO 2. .CHECK POWER W. Disconnect driver so Check continuity bo connector.	ALK-IN SWITCH SIG OFF. walk-in switch connerveen power walk-in s (+) ver walk-in switch (+) ver walk-in switch Termin 30 normal? ALK-IN SWITCH CIR seat control unit connerver seat of	SNAL ctor. switch harness c hal RCUIT ector. control unit harn	(-) Ground	Voltage (V) (Approx.) Battery voltage
RIVER SIDE : D CHECK POWER W Turn ignition switch Disconnect power Check voltage betw Pow Connector B513 the inspection result TES >> GO TO 3. IO >> GO TO 3. IO >> GO TO 2. CHECK POWER W Disconnect driver so Check continuity b connector.	ALK-IN SWITCH SIG OFF. walk-in switch connerveen power walk-in s (+) ver walk-in switch (+) ver walk-in switch Termin 30 normal? ALK-IN SWITCH CIR seat control unit connerveen driver seat control unit connerve	SNAL ctor. switch harness c al RCUIT sector. control unit harn Powe	(-) Ground ess connector and po	Voltage (V) (Approx.) Battery voltage
RIVER SIDE : D CHECK POWER W Turn ignition switch Disconnect power of Check voltage betw Pow Connector B513 the inspection result (ES >> GO TO 3. IO >> GO TO 3. IO >> GO TO 2. CHECK POWER W Disconnect driver so Check continuity b connector. Driver seat Connector B503	ALK-IN SWITCH SIG OFF. walk-in switch connerveen power walk-in s (+) ver walk-in switch (+) ver walk-in switch Terminal Control unit Terminal 30	SNAL ctor. switch harness c al RCUIT ector. control unit harn Powe Connector B513	(-) Ground ess connector and poor	Voltage (V) (Approx.) Battery voltage
RIVER SIDE : D CHECK POWER W Turn ignition switch Disconnect power Check voltage betw Pow Connector B513 the inspection result (ES >> GO TO 3. NO >> GO TO 2. CHECK POWER W Disconnect driver se Check continuity b connector. Driver seat Connector B503 Check continuity b	ALK-IN SWITCH SIG OFF. walk-in switch connerveen power walk-in s (+) ver walk-in switch (+) ver walk-in switch Terminal Control unit Terminal 30	SNAL ctor. switch harness c al RCUIT ector. control unit harn Powe Connector B513	(-) Ground ess connector and poor r walk-in switch Terminal 30	Voltage (V) (Approx.) Battery voltage
RIVER SIDE : D .CHECK POWER W. Turn ignition switch Disconnect power of Check voltage betw Power Connector B513 the inspection result (ES >> GO TO 3. NO >> GO TO 2. .CHECK POWER W. Disconnect driver so Check continuity b connector. Driver seat Connector B503 Check continuity b	ALK-IN SWITCH SIG OFF. walk-in switch connerveen power walk-in s (+) ver walk-in switch (+) ver walk-in switch Terminal 30 control unit Terminal 30 etween driver seat control control unit	SNAL Ctor. Switch harness c al CCUIT CCUIT Control unit harn Powe Connector B513 Dontrol unit harnes	(-) Ground ess connector and poor r walk-in switch Terminal 30	Voltage (V) (Approx.) Battery voltage

NO >> Repair or replace harness.

< DTC/CIRCUIT DIAGNOSIS >

3.CHECK POWER WALK-IN SWITCH GROUND CIRCUIT

Check continuity between power walk-in switch harness connector and ground.

Power wal	k-in switch		Continuity
Connector	Connector Terminal		Continuity
B513	32		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK POWER WALK-IN SWITCH

Check power walk-in switch.

Refer to <u>SE-74, "DRIVER SIDE : Component Inspection"</u>.

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace power walk-in switch. Refer to <u>SE-163, "Exploded View"</u>.

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident. Refer to <u>GI-43, "Intermittent Incident"</u>.

>> INSPECTION END

DRIVER SIDE : Component Inspection

INFOID:000000007471997

1.CHECK POWER WALK-IN SWITCH

1. Turn ignition switch OFF.

2. Disconnect power walk-in switch connector.

3. Check continuity between power walk-in switch terminals.

Power wa	Power walk-in switch Terminal		Condition	
Terr				
30	32	Power walk-in switch	Pressed	Existed
	52		Released	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power walk-in switch. Refer to <u>SE-163, "Exploded View"</u>.

PASSENGER SIDE

PASSENGER SIDE : Description

• Power walk-in switch is installed on seatback.

• The operation signal is input to passenger seat control unit when power walk-in switch is operated.

PASSENGER SIDE : Component Function Check

1.CHECK FUNCTION

Check whether or not power walk-in function activates normally when power walk-in switch is pressed. <u>Is the indication normal?</u>

YES >> Power walk-in switch function is OK.

NO >> Refer to <u>SE-75, "PASSENGER SIDE : Diagnosis Procedure"</u>.

INFOID:000000007471998

ited.

	E : Diagnosis	Procedui	re		INFOID:000000007472
.CHECK POWER W/	-				
Turn ignition switch Check voltage betw		at control u	nit harness connecto	r and groun	d.
(+)					
Passenger seat c	ontrol unit	(—)	Conditi	on	Voltage (V) (Approx.)
Connector	Terminal			1	
B552	30	Ground	Power walk-in switch	Pressed Released	0 Battery voltage
the inspection result	normal?			Released	Dattery voltage
	ger seat control un	it connecto	r and power walk-in s ol unit harness conne		ector. wer walk-in switch ha
Passenger se	at control unit		Power walk-in switch		
Connector	Terminal	Con	nector Term	inal	Continuity
B552	30	В	557 30)	Existed
Connector B552 the inspection result ES >> GO TO 3.	Termi 30 normal?		Ground		Not existed
NO >> Repair or re					
neck continuity betwe	en power walk-in s	witch harne	ess connector and gro	ound.	
Pov Connector	ver walk-in switch Tern	ninal	Ground		Continuity
B557	3	2			Existed
the inspection result YES >> GO TO 4. NO >> Repair or re CHECK POWER W/ heck power walk-in sv efer to <u>SE-76, "PASSI</u>	eplace harness. ALK-IN SWITCH vitch.	mponent In:	spection".		
the inspection result YES >> GO TO 5. NO >> Replace po		Refer to S	E-163, "Exploded Vie	•w"	
O >> Replace po CHECK PASSENGE				<u></u> .	

1. Connect passenger seat control unit connector.

2. Check voltage between passenger seat control unit harness connector and ground.

< DTC/CIRCUIT DIAGNOSIS >

(Bossonger og	+)	()	Voltage (V)	
Connector	Passenger seat control unit Connector Terminal		(Approx.)	
B552	30	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace passenger seat control unit. Refer to <u>SE-181, "Removal and Installation"</u>.

6.CHECK INTERMITTENT INCIDENT

Check intermittent incident. Refer to <u>GI-43, "Intermittent Incident"</u>.

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:000000007472001

1.CHECK POWER WALK-IN SWITCH

1. Turn ignition switch OFF.

2. Disconnect power walk-in switch connector.

3. Check continuity between power walk-in switch terminals.

Power wa	Power walk-in switch		Condition	
Terr	ninal	Con	anon	Continuity
30	32	Power walk-in switch	Pressed	Existed
	52		Released	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power walk-in switch. Refer to <u>SE-163, "Exploded View"</u>.

DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >	
DOOR SWITCH	A
Description INFOID:000000074720	
Detects passenger side doors open or closed condition.	В
Component Function Check	03
1.CHECK FUNCTION	С
Check that passenger side power walk-in function operates. <u>Is the inspection result normal?</u> YES >> Door switch function is OK. NO >> Refer to <u>SE-77, "Diagnosis Procedure"</u> .	D
Diagnosis Procedure)4
1.CHECK PASSENGER SIDE DOOR SWITCH Check passenger side door switch. Refer to SE-77, "Component Function Check".	F
<u>Is the inspection result normal?</u> YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts.	G
2.CHECK PASSENGER SIDE DOOR SWITCH INPUT SIGNAL	Η

1. Turn ignition switch OFF.

2. Check signal between passenger seat control unit harness connector and ground with oscilloscope.

(+	(+)		(+)			Signal	
Passenger seat control unit		()	Condition	Condition			
Connector	Terminal				(Reference value)		
B552	8	Ground	Passenger side door switch	Pressed	(V) 15 10 5 0 + 10ms PKIB4960J		
				Released	0 V		

Is the inspection result normal?

YES >> Passenger side door switch circuit is OK.

NO >> GO TO 3.

3.CHECK PASSENGER SIDE DOOR SWITCH CIRCUIT

 Disconnect BCM connector, passenger seat control unit connector and passenger side door switch connector.

2. Check continuity between passenger side door switch harness connector and passenger seat control unit harness connector.

Passenger si	Passenger side door switch		Passenger seat control unit		
Connector	Terminal	Connector Terminal		Continuity	
B216	2	B552	8	Existed	

3. Check continuity between passenger side door switch harness connector and ground.

Ν

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Ρ

DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

 Passenger sid	de door switch		Continuity
 Connector Terminal		Ground	Continuity
 B216	2		Not existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

Check intermittent incident. Refer to <u>GI-43, "Intermittent Incident"</u>.

>> INSPECTION END

< DTC/CIRCUIT DIAGNOSIS >

SLIDING SENSOR А DRIVER SIDE DRIVER SIDE : Description INFOID:00000007472005 В • The sliding sensor is installed on the seat slide cushion frame. The pulse signal is transmitted to the driver seat control unit when sliding is operated. • The driver seat control unit counts the pulse and calculates the sliding amount of the seat. DRIVER SIDE : Component Function Check INFOID:000000007472006 **1.**CHECK FUNCTION D 1. Turn ignition switch ON. Select "SLIDE PULSE" in the "Data Monitor" mode using CONSULT. 2. Check sliding sensor signal under the following conditions. 3. Test item Condition Status F Operate (forward) Change (increase)*1 SLIDE PULSE Seat sliding Operate (backward) Change (decrease)*1 Release No change^{*1} ^{*1}: The value at the seat position attained when the battery is connected is considered to be 32768. Is the indication normal? Н YES >> Sliding sensor function is OK. >> Refer to SE-79, "DRIVER SIDE : Diagnosis Procedure". NO DRIVER SIDE : Diagnosis Procedure INFOID:000000007472007 1.CHECK SLIDING SENSOR SIGNAL SE 1. Turn ignition switch OFF. Check signal between sliding sensor harness connector and ground with oscilloscope. 2. (+) Κ Signal Sliding sensor (-) Condition (Reference value) Connector Terminal 10mSec/div M Operate B526 24 Ground Seat sliding Ν 2V/div JMJIA0119ZZ Other than 0 V or 5 V above Is the inspection result normal? YES >> GO TO 2. NO >> GO TO 3. 2.check sliding sensor circuit 1. Disconnect driver seat control unit connector and sliding sensor connector.

2. Check continuity between driver seat control unit harness connector and sliding sensor harness connector.

< DTC/CIRCUIT DIAGNOSIS >

Driver seat	Driver seat control unit		Sliding sensor		
Connector	Terminal	Connector Terminal		Continuity	
B503	24	B526	24	Existed	

3. Check continuity between driver seat control unit harness connector and ground.

Driver seat	control unit		Continuity
Connector	Connector Terminal		Continuity
B503	24		Not existed

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>SE-180, "Removal and Installation"</u>.

NO >> Repair or replace harness.

3.CHECK SLIDING SENSOR POWER SUPPLY

Check voltage between sliding sensor harness connector and ground.

(+)				
Slidin	Sliding sensor Connector Terminal		Voltage (V) (Approx.)	
Connector				
B526	16	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

4. CHECK SLIDING SENSOR POWER SUPPLY CIRCUIT

- 1. Disconnect driver seat control unit connector and sliding sensor connector.
- Check continuity between driver seat control unit harness connector and sliding sensor harness connector.

Driver seat	Driver seat control unit		Sliding sensor		
Connector	Terminal	Connector Terminal		Continuity	
B503	16	B526	16	Existed	

3. Check continuity between driver seat control unit harness connector and ground.

Driver seat	control unit		Continuity
Connector	Terminal	Ground	Continuity
B503	16		Not existed

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>SE-180, "Removal and Installation"</u>.

NO >> Repair or replace harness.

5.CHECK SLIDING SENSOR GROUND CIRCUIT

1. Disconnect driver seat control unit connector and sliding sensor connector.

Check continuity between driver seat control unit harness connector and sliding sensor harness connector.

-	Driver seat control unit		Sliding sensor		Continuity	
-	Connector	Terminal	Connector Terminal		Continuity	
	B503	31	B526	31	Existed	

3. Check continuity between driver seat control unit harness connector and ground.

< DTC/CIRCUIT DIAGNOSIS >

	Driver seat conti	ol unit			
Connec	tor	Terminal		Ground	Continuity
B503	;	31			No existed
ne inspection r	esult normal?				
S >> GO T					
	ir or replace ha				
	NG SENSOR G				
	er seat control u		ol unit harness	connector and g	nround
Check contin	any between a		or anic namess	Connector and g	ground.
	Driver seat conti	ol unit			Continuity
Connec	tor	Terminal		Ground	
B503		31			Existed
ne inspection r					
S >> Repla	ice sliding sens	or. Refer to <u>SE</u>	E-163, "Explode	<u>ed View"</u> . "Demoviel and l	notallation"
) >> Repla		Control unit. Re	eler to <u>SE-180,</u>	"Removal and I	<u>nstallation</u> .
OULINOLI	OIDE				
SSENGER	SIDE : Des	cription			INFOID:00000007472
ne slidina sens	or is installed o	on the seat slid	e cushion fram	ie.	
ne pulse signa	I is transmitted	to the passeng	ger seat control	l unit when slidir	
ne passenger	seat control uni	t counts the pu	ulse and calcula	ates the sliding a	amount of the seat.
SSENGER	SIDE : Con	nponent Fu	nction Chec	·k	INFOID:000000007472
					INFOID.00000001472
					INFOL.000000007472
CHECK FUNC	TION				
CHECK FUNC	TION not power wall				valk-in switch is pressed.
CHECK FUNC eck whether or the indication n	TION not power walł ormal?	k-in function ac			
CHECK FUNC eck whether or ne indication n ES >> Slidin	TION not power walk ormal? g sensor function	c-in function ac	ctivates normall	ly when power w	
CHECK FUNC eck whether or ne indication n S >> Slidin D >> Refer	TION not power wall <u>ormal?</u> g sensor function to <u>SE-81, "PAS</u>	c-in function ac on is OK. SSENGER SID	ctivates normall DE : Diagnosis	ly when power w	valk-in switch is pressed.
CHECK FUNC eck whether or ne indication n S >> Slidin D >> Refer	TION not power walk ormal? g sensor function	c-in function ac on is OK. SSENGER SID	ctivates normall DE : Diagnosis	ly when power w	valk-in switch is pressed.
CHECK FUNC eck whether or ne indication n S >> Slidin S >> Refer SSENGER	TION not power wall <u>ormal?</u> g sensor function to <u>SE-81, "PAS</u>	-in function ac on is OK. SSENGER SID gnosis Proc	ctivates normall DE : Diagnosis	ly when power w	valk-in switch is pressed.
CHECK FUNC eck whether or <u>ne indication n</u> ES >> Slidin D >> Refer SSENGER CHECK SLIDII	TION not power walk ormal? g sensor functio to <u>SE-81, "PAS</u> SIDE : Diaç	-in function ac on is OK. SSENGER SID gnosis Proc	ctivates normall DE : Diagnosis	ly when power w	valk-in switch is pressed.
CHECK FUNC eck whether or <u>ne indication n</u> S >> Slidin D >> Refer SSENGER CHECK SLIDII Turn ignition s	TION not power walk ormal? g sensor function to <u>SE-81, "PAS</u> SIDE : Diag NG SENSOR S switch OFF.	c-in function ac on is OK. SSENGER SID gnosis Proc IGNAL	ctivates normall DE : Diagnosis Cedure	ly when power w Procedure".	valk-in switch is pressed.
CHECK FUNC eck whether or <u>ne indication n</u> S >> Slidin D >> Refer SSENGER CHECK SLIDII Turn ignition s Check signal	TION not power wall <u>ormal?</u> g sensor function to <u>SE-81, "PAS</u> SIDE : Diag NG SENSOR S switch OFF. between passe	c-in function ac on is OK. SSENGER SID gnosis Proc IGNAL	ctivates normall DE : Diagnosis Cedure	ly when power w Procedure".	valk-in switch is pressed.
CHECK FUNC eck whether or <u>ne indication n</u> S >> Slidin D >> Refer SSENGER CHECK SLIDII Turn ignition s Check signal	TION not power walk ormal? g sensor function to <u>SE-81, "PAS</u> SIDE : Diag NG SENSOR S switch OFF. between passe	c-in function ac on is OK. SSENGER SID gnosis Proc IGNAL	ctivates normall	ly when power w <u>Procedure"</u> . s connector and	valk-in switch is pressed.
CHECK FUNC eck whether or <u>ne indication n</u> S >> Slidin D >> Refer SSENGER CHECK SLIDII Turn ignition s Check signal	TION not power walk ormal? g sensor function to <u>SE-81, "PAS</u> SIDE : Diag NG SENSOR S switch OFF. between passed +)	c-in function ac on is OK. SSENGER SID gnosis Proc IGNAL	ctivates normall	ly when power w Procedure".	valk-in switch is pressed.
CHECK FUNC eck whether or <u>ne indication n</u> S >> Slidin D >> Refer SSENGER CHECK SLIDII Turn ignition s Check signal	TION not power walk ormal? g sensor function to <u>SE-81, "PAS</u> SIDE : Diag NG SENSOR S switch OFF. between passe	c-in function ac on is OK. SSENGER SID gnosis Proc IGNAL	ctivates normall	ly when power w <u>Procedure"</u> . s connector and	valk-in switch is pressed.
CHECK FUNC eck whether or <u>ne indication n</u> S >> Slidin D >> Refer SSENGER CHECK SLIDII Turn ignition s Check signal	TION not power walk ormal? g sensor function to <u>SE-81, "PAS</u> SIDE : Diag NG SENSOR S switch OFF. between passed +)	c-in function ac on is OK. SSENGER SID gnosis Proc IGNAL	ctivates normall	ly when power w <u>Procedure"</u> . s connector and	valk-in switch is pressed. INFOID:000000007472 ground with oscilloscope. Signal
CHECK FUNC eck whether or <u>ne indication n</u> S >> Slidin D >> Refer SSENGER CHECK SLIDII Turn ignition s Check signal	TION not power walk ormal? g sensor function to <u>SE-81, "PAS</u> SIDE : Diag NG SENSOR S switch OFF. between passed +)	c-in function ac on is OK. SSENGER SID gnosis Proc IGNAL	ctivates normall	ly when power w <u>Procedure"</u> . s connector and	valk-in switch is pressed. INFOID:000000007472 ground with oscilloscope.
CHECK FUNC eck whether or <u>ne indication n</u> S >> Slidin D >> Refer SSENGER CHECK SLIDII Turn ignition s Check signal	TION not power walk ormal? g sensor function to <u>SE-81, "PAS</u> SIDE : Diag NG SENSOR S switch OFF. between passed +)	c-in function ac on is OK. SSENGER SID gnosis Proc IGNAL	ctivates normall	ly when power w <u>Procedure"</u> . s connector and	valk-in switch is pressed.
CHECK FUNC eck whether or <u>ne indication n</u> S >> Slidin D >> Refer SSENGER CHECK SLIDII Turn ignition s Check signal	TION not power walk ormal? g sensor function to <u>SE-81, "PAS</u> SIDE : Diag NG SENSOR S switch OFF. between passed +)	c-in function ac on is OK. SSENGER SID gnosis Proc IGNAL	ctivates normall	ly when power w <u>Procedure</u> ". s connector and ondition	valk-in switch is pressed.
CHECK FUNC eck whether or <u>ne indication n</u> S >> Slidin D >> Refer SSENGER CHECK SLIDII Turn ignition s Check signal (Passenger se Connector	TION not power walk ormal? g sensor function to <u>SE-81</u> , "PAS SIDE : Diag NG SENSOR S switch OFF. between passed +) tat control unit Terminal	c-in function ac on is OK. <u>SSENGER SIE</u> gnosis Proc IGNAL IGNAL (-)	ctivates normall	ly when power w <u>Procedure</u> ". s connector and ondition	valk-in switch is pressed.
CHECK FUNC eck whether or <u>ne indication n</u> S >> Slidin D >> Refer SSENGER CHECK SLIDII Turn ignition s Check signal (Passenger se Connector	TION not power walk ormal? g sensor function to <u>SE-81</u> , "PAS SIDE : Diag NG SENSOR S switch OFF. between passed +) tat control unit Terminal	c-in function ac on is OK. <u>SSENGER SIE</u> gnosis Proc IGNAL IGNAL (-)	ctivates normall	ly when power w Procedure". s connector and ondition Operate	valk-in switch is pressed. INFOID:000000007472 ground with oscilloscope.
CHECK FUNC eck whether or <u>ne indication n</u> S >> Slidin D >> Refer SSENGER CHECK SLIDII Turn ignition s Check signal (Passenger se Connector	TION not power walk ormal? g sensor function to <u>SE-81</u> , "PAS SIDE : Diag NG SENSOR S switch OFF. between passed +) tat control unit Terminal	c-in function ac on is OK. <u>SSENGER SIE</u> gnosis Proc IGNAL IGNAL (-)	ctivates normall	ly when power w <u>Procedure</u> ". s connector and ondition	valk-in switch is pressed.

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NO >> GO TO 2.

2. CHECK SLIDING SENSOR CIRCUIT

- 1. Disconnect passenger seat control unit connector and sliding sensor connector.
- Check continuity between passenger seat control unit harness connector and sliding sensor harness connector.

Passenger se	Passenger seat control unit		Sliding sensor	
Connector	Terminal	Connector	Terminal	Continuity
B552	24	B568	24	Existed

3. Check continuity between passenger seat control unit harness connector and ground.

Passenger se	eat control unit		Continuity	
Connector	Connector Terminal		Continuity	
B552	24		Not existed	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK SLIDING SENSOR POWER SUPPLY

- 1. Connect passenger seat control unit connector.
- 2. Check voltage between sliding sensor harness connector and ground.

	(+) Sliding sensor Connector Terminal		Voltage (V) (Approx.)	
Connector			() ()	
B568	16	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

4. CHECK SLIDING SENSOR POWER SUPPLY CIRCUIT

1. Disconnect passenger seat control unit connector.

 Check continuity between passenger seat control unit harness connector and sliding sensor harness connector.

Passenger se	Passenger seat control unit		Sliding sensor		
Connector	Terminal	Connector Terminal		Continuity	
B552	16	B568	16	Existed	

3. Check continuity between passenger seat control unit harness connector and ground.

Passenger se	eat control unit		Continuity	
Connector	Connector Terminal		Continuity	
B552	16		Not existed	

Is the inspection result normal?

YES >> Replace passenger seat control unit. Refer to <u>SE-181, "Removal and Installation"</u>.

NO >> Repair or replace harness.

5.CHECK SLIDING SENSOR GROUND CIRCUIT

1. Disconnect passenger seat control unit connector.

 Check continuity between passenger seat control unit harness connector and sliding sensor harness connector.

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	at control unit	Sliding	sensor	- Continuity
Connector	Terminal	Connector	Terminal	Continuity
B552	31	B568	31	Existed
Check continuity be	tween passenger se	eat control unit harnes	s connector and gro	ound.
Passen	ger seat control unit			Continuity
Connector Terminal Ground				
B552	31			Not existed
he inspection result n	ormal?			
′ES >> GO TO 6.				
IO >> Repair or re				
CHECK SLIDING SE	NSOR GROUND			
Connect passenger				
Check continuity be	tween passenger se	eat control unit harnes	s connector and gro	ound.
Passen	ger seat control unit			
Connector	Termin	nal	Ground	Continuity
B552	31			Existed
he inspection result n	ormal2			
	ssenger seat contro	I unit. Refer to <u>SE-181</u>	<u>/iew"</u> . I, "Removal and Ins	tallation".
	ssenger seat contro	l unit. Refer to <u>SE-181</u>	I, "Removal and Ins	tallation".
	ssenger seat contro	l unit. Refer to <u>SE-181</u>	I, "Removal and Ins	tallation".
	ssenger seat contro	l unit. Refer to <u>SE-181</u>	I, "Removal and Ins	tallation".
	ssenger seat contro	l unit. Refer to <u>SE-181</u>	I, "Removal and Ins	<u>tallation"</u> .
	ssenger seat contro	l unit. Refer to <u>SE-181</u>	I, "Removal and Ins	<u>tallation"</u> .
NO >> Replace pas	ssenger seat contro	l unit. Refer to <u>SE-181</u>	I, "Removal and Ins	<u>tallation"</u> .
	ssenger seat contro	l unit. Refer to <u>SE-181</u>	I, "Removal and Ins	<u>tallation"</u> .
	ssenger seat contro	l unit. Refer to <u>SE-181</u>	I, "Removal and Ins	<u>tallation"</u> .
	ssenger seat contro	l unit. Refer to <u>SE-181</u>	I, "Removal and Ins	<u>tallation"</u> .
	ssenger seat contro	l unit. Refer to <u>SE-181</u>	I, "Removal and Ins	<u>tallation"</u> .
	ssenger seat contro	l unit. Refer to <u>SE-181</u>	I, "Removal and Ins	<u>tallation"</u> .
	ssenger seat contro	l unit. Refer to <u>SE-181</u>	I, "Removal and Ins	<u>tallation"</u> .
	ssenger seat contro	l unit. Refer to <u>SE-181</u>	I, "Removal and Ins	<u>tallation"</u> .
	ssenger seat contro	l unit. Refer to <u>SE-181</u>	I, "Removal and Ins	<u>tallation"</u> .
	ssenger seat contro	l unit. Refer to <u>SE-181</u>	I, "Removal and Ins	<u>tallation"</u> .
	ssenger seat contro	l unit. Refer to <u>SE-181</u>	I, "Removal and Ins	<u>tallation"</u> .
	ssenger seat contro	l unit. Refer to <u>SE-181</u>	I, "Removal and Ins	<u>tallation"</u> .

< DTC/CIRCUIT DIAGNOSIS >

SLIDING MOTOR DRIVER SIDE

DRIVER SIDE : Description

- The seat sliding motor is installed to the seat cushion frame.
- The seat sliding motor is activated with the driver seat control unit.
- The seat is slid forward/backward by changing the rotation direction of sliding motor.

DRIVER SIDE : Component Function Check

1.CHECK FUNCTION

- 1. Turn ignition switch ON.
- 2. Select "SEAT SLIDE" in the "Active Test" mode using CONSULT.
- 3. Check sliding motor operation.

Test item		Description	
	OFF		Stop
SEAT SLIDE	FR Seat sliding	Seat sliding	Forward
	RR		Backward

Is the operation of relevant parts normal?

- YES >> Sliding motor function is OK.
- NO >> Refer to <u>SE-84, "DRIVER SIDE : Diagnosis Procedure"</u>.

DRIVER SIDE : Diagnosis Procedure

INFOID:000000007472013

1. CHECK SLIDING MOTOR POWER SUPPLY

- 1. Turn ignition switch OFF.
- 2. Disconnect sliding motor connector.
- 3. Check voltage between sliding motor harness connector and ground.

	(+) Sliding motor		С	ondition	Voltage (V) (Approx.)
Connector	Terminal				
	35			Forward	Battery voltage
B525		Ground	Slide switch	Other than above	0
B020				Backward	Battery voltage
	42			Other than above	0

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK SLIDING MOTOR CIRCUIT

1. Disconnect driver seat control unit connector.

2. Check continuity between sliding motor harness connector and driver seat control unit harness connector.

Slidin	Sliding motor Driver seat control unit		Continuity	
Connector	Terminal	Connector	Terminal	Continuity
B525	35	B504	35	Existed
0020	42	6304	42	EXISTED

3. Check continuity between driver seat control unit harness connector and ground.

INFOID:000000007472011

< DTC/CIRCUIT DIAGNOSIS >

Driver seat	control unit		
Connector	Terminal	Ground	Continuity
	35	Ground	Net evieted
B504	42		Not existed
sthe inspection result normal YES >> Replace driver s NO >> Repair or replace I.CHECK SLIDING MOTOR check sliding motor. the inspection result normal the inspection result normal YES >> GO TO 4. NO >> Replace sliding result normal YES >> GO TO 4. NO >> Replace sliding result normal YES >> GO TO 4. NO >> Replace sliding result normal .CHECK INTERMITTENT Check intermittent incident. cefer to GI-43, "Intermittent STORE SIDE : Comp .CHECK SLIDING MOTOR Sthe inspection result normal YES >> GO TO 2. NO >> Repair or replace .CHECK SLIDING MOTOR .CHECK SLIDING MOTOR .CHECK SLIDING MOTOR	al? eat control unit. Refer to Set arness. R DE : Component Inspection al? motor. Refer to <u>SE-163, "E</u> INCIDENT INCIDENT Incident". ND onent Inspection R-1 tor for foreign objects, and al? e seat cushion frame (slidi R-2	Exploded View".	allation".
 Turn ignition switch OFF Disconnect sliding motor Supply sliding motor terr 		and check operation.	
Item	Ten	minal	Operation
	(+)	(-)	
Sliding motor	35	42	Forward
	42	35	Backward
s the inspection result normal YES >> INSPECTION EI NO >> Replace sliding r PASSENGER SIDE PASSENGER SIDE : E The seat sliding motor is in The seat sliding motor is ac The seat sliding motor is ac PASSENGER SIDE : C	ND motor. Refer to <u>SE-163, "E</u> Description stalled to the seat cushior ctivated with the passenge ckward by changing the ro	n frame. er seat control unit. tation direction of sliding m	INFOID:00000007472016 Notor.
1.CHECK SLIDING MOTOR Check sliding operation with			
Is the inspection result norma			

< DTC/CIRCUIT DIAGNOSIS >

YES >> Sliding motor function is OK.

NO >> Refer to <u>SE-86</u>, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000007472017

1.CHECK SLIDING MOTOR POWER SUPPLY

1. Turn ignition switch OFF.

2. Disconnect sliding motor connector.

3. Check voltage between sliding motor harness connector and ground.

(+) Sliding motor		()	0	Condition	
Connector	Terminal	*			(Approx.)
	25			Forward	Battery voltage
DE67	35 B567	Ground	Slide switch	Other than above	0
6307				Backward	Battery voltage
	42			Other than above	0

Is the inspection result normal?

YES >> GO TO 3. NO >> GO TO 2.

2. CHECK SLIDING MOTOR CIRCUIT

1. Disconnect passenger seat control unit connector.

2. Check continuity between sliding motor harness connector and passenger seat control unit harness connector.

Slidin	g motor	Passenger seat control unit		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B567	35	B553	35	Existed
DJ07	42	0000	42	Existed

3. Check continuity between passenger seat control unit harness connector and ground.

Passenger se	Passenger seat control unit		Continuity
Connector	Terminal	Ground	Continuity
B553	35	Ground	Not existed
	42		NOT EXISTED

Is the inspection result normal?

YES >> Replace passenger seat control unit. Refer to <u>SE-181, "Removal and Installation"</u>.

NO >> Repair or replace harness.

3.CHECK SLIDING MOTOR

Check sliding motor.

Refer to SE-87, "PASSENGER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace sliding motor. Refer to <u>SE-163, "Exploded View"</u>.

4. CHECK INTERMITTENT INCIDENT

Check intermittent incident. Refer to <u>GI-43, "Intermittent Incident"</u>.

>> INSPECTION END

< DTC/CIRCUIT DIAGNOSIS >	
PASSENGER SIDE : Component Inspection	
1. CHECK SLIDING MOTOR-1	A
Visually check the sliding motor for foreign objects, and check that the sliding motor is not broken.	P
Is the inspection result normal?	D
YES >> GO TO 2. NO >> Repair or replace seat cushion frame (sliding motor).	C
2.CHECK SLIDING MOTOR-2	0
 Turn ignition switch OFF. Disconnect sliding motor connector. Supply sliding motor terminals with battery voltage and check operation. 	D

Item	Terr	ninal	Operation	E
item	(+)	()	Operation	
Sliding motor	35	42	Forward	
Sliding motor	42	35	Backward	F

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace sliding motor. Refer to <u>SE-163, "Exploded View"</u>.

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< DTC/CIRCUIT DIAGNOSIS >

RECLINING MOTOR DRIVER SIDE

DRIVER SIDE : Description

- The seat reclining motor is installed to the seatback frame.
- The seat reclining motor is activated with the driver seat control unit.
- The seatback is reclined forward/backward by changing the rotation direction of reclining motor.

DRIVER SIDE : Component Function Check

1. CHECK RECLINING MOTOR FUNCTION

Check reclining operation with power seat switch.

Is the inspection result normal?

YES >> Reclining motor function is OK.

NO >> Refer to <u>SE-88, "DRIVER SIDE : Diagnosis Procedure"</u>.

DRIVER SIDE : Diagnosis Procedure

INFOID:000000007472021

INFOID-000000007472019

INFOID:000000007472020

1.CHECK RECLINING MOTOR POWER SUPPLY

- 1. Turn ignition switch OFF.
- 2. Disconnect reclining motor connector.
- 3. Check voltage between reclining motor harness connector and ground.

(+) Reclining motor		()		Condition	
Connector	Terminal				(Approx.)
	26			Forward	Battery voltage
B524	36	Ground	Reclining switch	Other than above	0
D324	44			Backward	Battery voltage
	44			Other than above	0

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK RECLINING MOTOR CIRCUIT

- 1. Disconnect driver seat control unit connector.
- Check continuity between reclining motor harness connector and driver seat control unit harness connector.

Reclini	Reclining motor Driver seat control unit		Continuity	
Connector	Terminal	Connector	Terminal	Continuity
B524	36	R504	36	Existed
0024	44	B504	44	LAISTER

3. Check continuity between reclining motor harness connector and ground.

Reclinir	Reclining motor		Continuity
Connector	Terminal	Ground	Continuity
B524	36	Ground	Not existed
6524	44		NUL EXISIEU

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>SE-180, "Removal and Installation"</u>.

NO >> Repair or replace harness.

SE-88

< DTC/CIRCUIT DIAGNOS	ilS >		
3. CHECK RECLINING MO	TOR		
Check reclining motor.			
Refer to <u>SE-89, "DRIVER SI</u> Is the inspection result norm	DE : Component Inspection".		
YES >> GO TO 4.			
NO >> Replace reclinin	g motor. Refer to <u>SE-163, "E</u>	<u>xploded View"</u> .	
1. CHECK INTERMITTENT	INCIDENT		
Check intermittent incident.	1 1 40		
efer to GI-43, "Intermittent	Incident".		
>> INSPECTION E	ND		
ORIVER SIDE : Comp	onent Inspection		INFOID:00000007472022
CHECK RECLINING MO			
	otor for foreign objects, and c	beck that the reclining m	otor is not broken
s the inspection result norm	• •	neck that the recliming h	
YES >> GO TO 2.			
	e seatback frame (reclining n	notor).	
CHECK RECLINING MO			
 Turn ignition switch OFF Disconnect reclining mo 			
	erminals with battery voltage	and check operation.	
	T a	-1	
Item	Termin (+)	(-)	Operation
	36	44	Forward
Reclining motor	44	36	Backward
the inspection result norm	al?		
YES >> INSPECTION E			
NO >> Replace reclinin ASSENGER SIDE	g motor. Refer to <u>SE-163, "E</u>	xploded View".	
ASSENGER SIDE : I	Jescription		INFOID:00000007472023
	installed to the seatback fram		
	activated with the passenger prward/backward by changing		roclining motor
ASSENGER SIDE (Component Function C	-	-
	Component Function C	-	INFOID:000000007472024
		-	-
CHECK RECLINING MO	TOR FUNCTION th power seat switch.	-	-
.CHECK RECLINING MO heck reclining operation wi	TOR FUNCTION th power seat switch. al?	-	-
CHECK RECLINING MO heck reclining operation wi the inspection result norm YES >> Reclining motor	TOR FUNCTION th power seat switch. <u>al?</u> function is OK.	Sheck	-
CHECK RECLINING MO theck reclining operation wi the inspection result norm YES >> Reclining motor NO >> Refer to <u>SE-89</u> ,	TOR FUNCTION th power seat switch. <u>al?</u> function is OK. <u>"PASSENGER SIDE : Diagne</u>	Sheck	-
CHECK RECLINING MO Check reclining operation wi s the inspection result norm YES >> Reclining motor NO >> Refer to <u>SE-89</u> , PASSENGER SIDE : I	TOR FUNCTION th power seat switch. <u>al?</u> function is OK. <u>"PASSENGER SIDE : Diagno</u> Diagnosis Procedure	Sheck	INFOID:000000007472024
CHECK RECLINING MO Check reclining operation wi s the inspection result norm YES >> Reclining motor NO >> Refer to <u>SE-89</u> , PASSENGER SIDE : I	TOR FUNCTION th power seat switch. <u>al?</u> function is OK. "PASSENGER SIDE : Diagno Diagnosis Procedure TOR POWER SUPPLY	Sheck	INFOID:000000007472024
CHECK RECLINING MO check reclining operation wi the inspection result norm YES >> Reclining motor NO >> Refer to <u>SE-89</u> . PASSENGER SIDE : I	TOR FUNCTION th power seat switch. <u>al?</u> function is OK. <u>"PASSENGER SIDE : Diagno</u> Diagnosis Procedure TOR POWER SUPPLY	Sheck	INFOID:000000007472024

SE-89

< DTC/CIRCUIT DIAGNOSIS >

(+) Reclining motor		(–) Con		ndition	Voltage (V) (Approx.)	
Connector	Terminal				(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	20			Forward	Battery voltage	
DECC	36 B566	Ground	De clinin e covitate	Other than above	0	
8000			Reclining switch	Backward	Battery voltage	
	44			Other than above	0	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK RECLINING MOTOR CIRCUIT

1. Disconnect passenger seat control unit connector.

2. Check continuity between reclining motor harness connector and passenger seat control unit harness connector.

Reclini	ng motor	Passenger seat control unit		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B566	36	B553	36	Existed
6300	44	6333	44	

3. Check continuity between reclining motor harness connector and ground.

Reclinir	Reclining motor		Continuity
Connector	Terminal	Ground	Continuity
B566	36 44		Not existed

Is the inspection result normal?

YES >> Replace passenger seat control unit. Refer to <u>SE-181, "Removal and Installation"</u>.

NO >> Repair or replace harness.

3.CHECK RECLINING MOTOR

Check reclining motor.

Refer to SE-90, "PASSENGER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace reclining motor. Refer to <u>SE-163, "Exploded View"</u>.

4.CHECK INTERMITTENT INCIDENT

Check intermittent incident. Refer to <u>GI-43, "Intermittent Incident"</u>.

>> INSPECTION END

PASSENGER SIDE : Component Inspection

1.CHECK RECLINING MOTOR-1

Visually check the sliding motor for foreign objects, and check that the reclining motor is not broken. Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace seatback frame (reclining motor).

2. CHECK RECLINING MOTOR-2

< DTC/CIRCUIT DIAGNOSIS >

- 1. Turn ignition switch OFF.
- 2. Disconnect reclining motor connector.
- 3. Supply reclining motor terminals with battery voltage and check operation.

ltem	Terminal		Operation	В
item	(+)	(-)	Operation	
De clinin e rector	36	44	Forward	
Reclining motor	44	36	Backward	С

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace reclining motor. Refer to <u>SE-163, "Exploded View"</u>.

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SE-91

< DTC/CIRCUIT DIAGNOSIS >

LIFTING MOTOR (FRONT) DRIVER SIDE

DRIVER SIDE : Description

- The lifting motor (front) is installed to the seat slide cushion frame.
- The lifting motor (front) is activated with the driver seat control unit.
- The lifter (front) is moved upward/downward by changing the rotation direction of lifting motor (front).

DRIVER SIDE : Component Function Check

1.CHECK LIFTING MOTOR (FRONT) FUNCTION

Check lifting operation with power seat switch.

Is the inspection result normal?

- YES >> Lifting motor (front) function is OK.
- NO >> Refer to <u>SE-92</u>, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE : Diagnosis Procedure

1.CHECK LIFTING MOTOR (FRONT) POWER SUPPLY

- 1. Turn ignition switch OFF.
- 2. Disconnect lifting motor (front) connector.
- 3. Check voltage between lifting motor (front) harness connector and ground.

(+) Lifting motor (front)		(–) Con		dition	Voltage (V) (Approx.)
Connector	Terminal				(TT -)
	27			Downward	Battery voltage
B528	37	Oracinad		Other than above	0
D320	45	Ground	Lifting switch (front)	Upward	Battery voltage
	45			Other than above	0

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK LIFTING MOTOR (FRONT) CIRCUIT

- 1. Disconnect driver seat control unit connector.
- Check continuity between lifting motor (front) harness connector and driver seat control unit harness connector.

Lifting m	otor (front)	Driver seat control unit		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B528	37	B504	37	Existed
6320	45	6504	45	LAISIEU

3. Check continuity between lifting motor (front) harness connector and ground.

Lifting mo	Lifting motor (front)		Continuity
Connector	Terminal	Ground	Continuity
B528	37		Not existed
B320	45		NOT EXISTED

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>SE-180, "Removal and Installation"</u>.

NO >> Repair or replace harness.

SE-92

INFOID:000000007472027

INFOID:000000007472028

< C	DTC/CIRCUIT DIAGNOS	IS >		
3.	CHECK LIFTING MOTOF	R (FRONT)		
Ch	eck lifting motor (front).			
	ter to <u>SE-93, "DRIVER SI</u> he inspection result norm:	DE : Component Inspectior	<u>1"</u> .	
	ES >> GO TO 4.			
N		otor (front). Refer to <u>SE-16</u>	3, "Exploded View".	
	CHECK INTERMITTENT	INCIDENT		
	eck intermittent incident. fer to <u>GI-43, "Intermittent</u>	ncident".		
	>> INSPECTION E			
DF	RIVER SIDE : Comp	onent Inspection		INFOID:000000007472030
1.	CHECK LIFTING MOTOF	R (FRONT) -1		
	•		s, and check that the lifting	g motor (front) is not broken.
	he inspection result norm	<u>al?</u>		
Y N	ES >> GO TO 2. O >> Repair or replace	e seat cushion frame (lifting	g motor).	
2.	CHECK LIFTING MOTOF	R (FRONT) -2		
1.	Turn ignition switch OFF			
2. 3.	Disconnect lifting motor Supply lifting motor (fron	(front) connector. t) terminals with battery vol	Itage and check operation	l.
-				
	ltem	Term (+)	ninal (-)	Operation
-		37	45	Downward
	Lifting motor (front)	45	37	Upward
	he inspection result norm			
Y N	ES >> INSPECTION El	ND lotor (front). Refer to <u>SE-16</u>	3 "Exploded View"	
	SSENGER SIDE		<u>, Exploded view</u> .	
PA	SSENGER SIDE : [Description		INFOID:00000007472031
		-	abian frama	
• T	he lifting motor (front) is a	nstalled to the seat slide cu ctivated with the passenge	r seat control unit.	
		pward/downward by chang	_	of lifting motor (front).
PA	SSENGER SIDE : (Component Function	Check	INFOID:000000007472032
1.	CHECK LIFTING MOTOF	R (FRONT) FUNCTION		
	eck lifting operation with p			
	he inspection result norm			
	ES >> Lifting motor (fro O >> Refer to <u>SE-93,</u>	nt) function is OK. "PASSENGER SIDE : Diag	nosis Procedure".	
PA	SSENGER SIDE : [Diagnosis Procedure		INFOID:000000007472033
1.	CHECK LIFTING MOTOF	R (FRONT) POWER SUPP	LY	
1.	Turn ignition switch OFF			

3. Check voltage between lifting motor (front) harness connector and ground.

SE-93

< DTC/CIRCUIT DIAGNOSIS >

	(+) Lifting motor (front)		Con	dition	Voltage (V) (Approx.)
Connector	Terminal				(
	27	Ground	Lifting switch (front)	Downward	Battery voltage
P560	B569 45			Other than above	0
B309				Upward	Battery voltage
				Other than above	0

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK LIFTING MOTOR (FRONT) CIRCUIT

1. Disconnect passenger seat control unit connector.

2. Check continuity between lifting motor (front) harness connector and passenger seat control unit harness connector.

Lifting m	otor (front)	Passenger seat control unit		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B569	37	B553	37	Existed
B309	45	- B000	45	Existed

3. Check continuity between lifting motor (front) harness connector and ground.

Lifting mo	Lifting motor (front)		Continuity
Connector	Terminal	Ground	Continuity
B569	37	Ground	Not existed
	45		NOT EXISTED

Is the inspection result normal?

YES >> Replace passenger seat control unit. Refer to <u>SE-181, "Removal and Installation"</u>.

NO >> Repair or replace harness.

3.CHECK LIFTING MOTOR (FRONT)

Check lifting motor (front).

Refer to <u>SE-94, "PASSENGER SIDE : Component Inspection"</u>.

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace lifting motor (front). Refer to <u>SE-163, "Exploded View"</u>.

4.CHECK INTERMITTENT INCIDENT

Check intermittent incident. Refer to <u>GI-43, "Intermittent Incident"</u>.

>> INSPECTION END

PASSENGER SIDE : Component Inspection

1.CHECK LIFTING MOTOR (FRONT) -1

Visually check the lifting motor (front) for foreign objects, and check that the lifting motor (front) is not broken. Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace seat cushion frame (lifting motor).

2. CHECK LIFTING MOTOR (FRONT) -2

< DTC/CIRCUIT DIAGNOSIS >

- 1. Turn ignition switch OFF.
- 2. Disconnect lifting motor (front) connector.

3. Supply lifting motor (front) terminals with battery voltage and check operation.

ltem	Terr	Operation	В	
item	(+)	(-)	Operation	
Lifting motor (front)	37	45	Downward	
Lifting motor (front)	45	37	Upward	С

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace lifting motor (front). Refer to <u>SE-163, "Exploded View"</u>.

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< DTC/CIRCUIT DIAGNOSIS >

LIFTING MOTOR (REAR) DRIVER SIDE

DRIVER SIDE : Description

- The lifting motor (rear) is installed to the seat slide cushion frame.
- The lifting motor (rear) is activated with the driver seat control unit.
- The seat lifter (rear) is moved upward/downward by changing the rotation direction of lifting motor (rear).

DRIVER SIDE : Component Function Check

1.CHECK LIFTING MOTOR (REAR) FUNCTION

Check lifting operation with power seat switch.

Is the inspection result normal?

- YES >> Lifting motor (rear) function is OK.
- NO >> Refer to <u>SE-96, "DRIVER SIDE : Diagnosis Procedure"</u>.

DRIVER SIDE : Diagnosis Procedure

1.CHECK LIFTING MOTOR (REAR) POWER SUPPLY

- 1. Turn ignition switch OFF.
- 2. Disconnect lifting motor (rear) connector.
- 3. Check voltage between lifting motor (rear) harness connector and ground.

	(+) Lifting motor (rear)		Condition		Voltage (V) (Approx.)	
Connector	Terminal					
	20		Lifting switch (rear)	Upward	Battery voltage	
B530	38	Ground		Other than above	0	
B330	39	Ground		Downward	Battery voltage	
	39			Other than above	0	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK LIFTING MOTOR (REAR) CIRCUIT

- 1. Disconnect driver seat control unit connector.
- Check continuity between lifting motor (rear) harness connector and driver seat control unit harness connector.

Lifting m	otor (rear)	Driver seat control unit		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B530	38	B504	38	Existed
B030	39	B304	39	Existed

3. Check continuity between lifting motor (rear) harness connector and ground.

Lifting m	Lifting motor (rear)		Continuity
Connector	Terminal	Ground	Continuity
B530	38	Ground	Not existed
B530	39		NUL EXISIEU

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>SE-180, "Removal and Installation"</u>.

NO >> Repair or replace harness.

SE-96

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INFOID:000000007472036

	S >			
3. CHECK LIFTING MOTOR	(REAR)			Δ
Check lifting motor (rear). Refer to SE-97, "DRIVER SI	DE : Component Inspection'	' <u>.</u>	_	A
Is the inspection result norma		-		В
YES >> GO TO 4. NO >> Replace lifting m	otor (rear). Refer to <u>SE-163</u>	"Exploded View"		
4.CHECK INTERMITTENT	. ,			С
Check intermittent incident.	-			0
Refer to GI-43. "Intermittent I	<u>ncident"</u> .			D
>> INSPECTION EN	۱D			D
DRIVER SIDE : Compo			INFOID:000000007472038	Е
1. CHECK LIFTING MOTOR	(REAR) -1			
Visually check the lifting moto	or (rear) for foreign objects,	and check that the lifting	motor (rear) is not broken.	F
Is the inspection result norma	<u>al?</u>			
YES >> GO TO 2. NO >> Repair or replace	e seat cushion frame (lifting	motor).		G
2. CHECK LIFTING MOTOR	(REAR) -2			
1. Turn ignition switch OFF.				Н
 Disconnect lifting motor (Supply lifting motor (rear) terminals with battery volta	age and check operation.		
	Termir			
Item	(+)	(-)	Operation	
		(-)		
Lifting motor (roor)	38	39	Upward	SE
Lifting motor (rear)	38 39		Upward Downward	SE
Is the inspection result norma	38 39 al?	39	· · · · · · · · · · · · · · · · · · ·	
Is the inspection result norma YES >> INSPECTION EN NO >> Replace lifting m	38 39 al? VD	39	· · · · · · · · · · · · · · · · · · ·	SE
Is the inspection result norma YES >> INSPECTION EN	38 39 al? VD	39	· · · · · · · · · · · · · · · · · · ·	
Is the inspection result norma YES >> INSPECTION EN NO >> Replace lifting m	38 39 Al? ND otor (rear).	39	· · · · · · · · · · · · · · · · · · ·	
Is the inspection result normal YES >> INSPECTION EN NO >> Replace lifting m PASSENGER SIDE PASSENGER SIDE : D • The lifting motor (rear) is interval	38 39 ND otor (rear). Description stalled to the seat slide cust	39 38 nion frame.	Downward	K
Is the inspection result normal YES >> INSPECTION EN NO >> Replace lifting m PASSENGER SIDE PASSENGER SIDE : E • The lifting motor (rear) is int • The lifting motor (rear) is an	38 39 al? ND otor (rear). Description stalled to the seat slide cush ctivated with the passenger	39 38 nion frame. seat control unit.	Downward	
Is the inspection result normal YES >> INSPECTION EN NO >> Replace lifting m PASSENGER SIDE PASSENGER SIDE : D • The lifting motor (rear) is int • The lifting motor (rear) is act • The seat lifter (rear) is move	38 39 al? ND otor (rear). Description stalled to the seat slide cush ctivated with the passenger ed upward/downward by ch	39 38 nion frame. seat control unit. anging the rotation direct	Downward INFOID:000000007472039	K L M
Is the inspection result normal YES >> INSPECTION EN NO >> Replace lifting m PASSENGER SIDE PASSENGER SIDE : D • The lifting motor (rear) is in: • The lifting motor (rear) is ac • The seat lifter (rear) is move PASSENGER SIDE : O	38 39 al? ND otor (rear). Description stalled to the seat slide cush ctivated with the passenger ed upward/downward by ch Component Function (39 38 nion frame. seat control unit. anging the rotation direct	Downward	K
Is the inspection result normal YES >> INSPECTION EN NO >> Replace lifting m PASSENGER SIDE PASSENGER SIDE : D • The lifting motor (rear) is int • The lifting motor (rear) is act • The seat lifter (rear) is move	38 39 al? ND otor (rear). Description stalled to the seat slide cush ctivated with the passenger ed upward/downward by ch Component Function ((REAR) FUNCTION	39 38 nion frame. seat control unit. anging the rotation direct	Downward INFOID:000000007472039	K L M
Is the inspection result normal YES >> INSPECTION EN NO >> Replace lifting m PASSENGER SIDE PASSENGER SIDE : D • The lifting motor (rear) is int • The lifting motor (rear) is move • The seat lifter (rear) is move PASSENGER SIDE : C 1.CHECK LIFTING MOTOR Check lifting operation with p Is the inspection result normal	38 39 al? ND otor (rear). Description stalled to the seat slide cush ctivated with the passenger ed upward/downward by ch Component Function ((REAR) FUNCTION ower seat switch. al?	39 38 nion frame. seat control unit. anging the rotation direct	Downward INFOID:000000007472039	K L N
Is the inspection result normal YES >> INSPECTION EN NO >> Replace lifting m PASSENGER SIDE PASSENGER SIDE : D • The lifting motor (rear) is int • The lifting motor (rear) is move PASSENGER SIDE : C 1.CHECK LIFTING MOTOR Check lifting operation with p Is the inspection result normal YES >> Lifting motor (rear)	38 39 al? ND otor (rear). Description stalled to the seat slide cush ctivated with the passenger ed upward/downward by ch Component Function ((REAR) FUNCTION ower seat switch. al?	39 38 nion frame. seat control unit. anging the rotation direct Check	Downward INFOID:000000007472039	K L N
Is the inspection result normal YES >> INSPECTION EN NO >> Replace lifting m PASSENGER SIDE PASSENGER SIDE : D • The lifting motor (rear) is int • The lifting motor (rear) is move PASSENGER SIDE : C 1.CHECK LIFTING MOTOR Check lifting operation with p Is the inspection result normal YES >> Lifting motor (rear)	38 39 al? ND otor (rear). Description stalled to the seat slide cush ctivated with the passenger ed upward/downward by ch Component Function ((REAR) FUNCTION ower seat switch. al? ur) function is OK. PASSENGER SIDE : Diagr	39 38 nion frame. seat control unit. anging the rotation direct Check	Downward INFOID:000000007472039	K L M N
Is the inspection result normal YES >> INSPECTION EN NO >> Replace lifting m PASSENGER SIDE PASSENGER SIDE : D • The lifting motor (rear) is int • The lifting motor (rear) is now • The seat lifter (rear) is move PASSENGER SIDE : C 1.CHECK LIFTING MOTOR Check lifting operation with p Is the inspection result normal YES >> Lifting motor (rea NO >> Refer to SE-97, "	38 39 al? ND otor (rear). Description stalled to the seat slide cush ctivated with the passenger ed upward/downward by ch Component Function ((REAR) FUNCTION ower seat switch. al? ur) function is OK. 'PASSENGER SIDE : Diagr Diagnosis Procedure	39 38 nion frame. seat control unit. anging the rotation direct Check	Downward INFOID:000000007472039 ion of lifting motor (rear). INFOID:000000007472040	K L M N

SE-97

< DTC/CIRCUIT DIAGNOSIS >

(+) Lifting motor (rear)		(–) Conc		dition	Voltage (V) (Approx.)
Connector	Terminal				(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	38	Ground	Lifting quitch (rear)	Upward	Battery voltage
BE70				Other than above	0
B570 39	Ground	Lifting switch (rear)	Downward	Battery voltage	
	39			Other than above	0

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK LIFTING MOTOR (REAR) CIRCUIT

1. Disconnect passenger seat control unit connector.

2. Check continuity between lifting motor (rear) harness connector and passenger seat control unit harness connector.

Lifting m	otor (rear)	Passenger seat control unit		Continuity	
Connector	Terminal	Connector Terminal		Continuity	
B570	38	B553	38	Evicted	
6570	39	D000	39	Existed	

3. Check continuity between lifting motor (rear) unit harness connector and ground.

Lifting m	Lifting motor (rear)		Continuity
Connector	Terminal	Ground	Continuity
B570	38	Ground	Not existed
B570	39		NOT EXISTED

Is the inspection result normal?

YES >> Replace passenger seat control unit. Refer to <u>SE-181, "Removal and Installation"</u>.

NO >> Repair or replace harness.

3.CHECK LIFTING MOTOR (REAR)

Check lifting motor (rear).

Refer to SE-98. "PASSENGER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace lifting motor (rear). Refer to <u>SE-163, "Exploded View"</u>.

4.CHECK INTERMITTENT INCIDENT

Check intermittent incident. Refer to <u>GI-43, "Intermittent Incident"</u>.

>> INSPECTION END

PASSENGER SIDE : Component Inspection

1.CHECK LIFTING MOTOR (REAR) -1

Visually check the lifting motor (rear) for foreign objects, and check that the lifting motor (rear) is not broken. Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace seat cushion frame (lifting motor).

2. CHECK LIFTING MOTOR (REAR) -2

< DTC/CIRCUIT DIAGNOSIS >

- 1. Turn ignition switch OFF.
- 2. Disconnect lifting motor (rear) connector.

3. Supply lifting motor (rear) terminals with battery voltage and check operation.

ltem	Terr	Operation	В	
item	(+)	(-)	Operation	
	38	39	Up	
Lifting motor (rear)	39	38	Down	С

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace lifting motor (rear). Refer to <u>SE-163, "Exploded View"</u>.

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< DTC/CIRCUIT DIAGNOSIS >

HEATED SEAT SWITCH DRIVER SIDE

DRIVER SIDE : Description

Adjusts heated seat temperature and deactivates heated seat.

DRIVER SIDE : Component Function Check

1.CHECK FUNCTION

Check that heated seat warms to preset temperature when operating heated seat switch to the optimal position.

Is the inspection result normal?

- YES >> Heated seat switch function is OK.
- NO >> Refer to <u>SE-100, "DRIVER SIDE : Diagnosis Procedure"</u>.

DRIVER SIDE : Diagnosis Procedure

1.CHECK HEATED SEAT CONTROL UNIT INPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect heated seat control unit connector.
- 3. Turn ignition switch ON.
- 4. Check voltage between heated seat control unit harness connector and ground.

(+ Heated seat		()	Co	ndition	Voltage (V) (Approx.)
Connector	Terminal				(********
				OFF	0
	1 ()		1 (Min. temperature)	12.24	
		2	12.33		
B518	67	Ground	Heated seat switch position	3	12.49
		position	poonon	4	12.63
				5	12.76
				6 (Max. temperature)	12.90

Is the inspection result normal?

YES >> Heated seat switch circuit is OK.

NO >> GO TO 2.

2. CHECK HEATED SEAT SWITCH CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect heated seat switch connector.
- 3. Check continuity between heated seat switch harness connector and heated seat control unit harness connector.

Heated s	eat switch	Heated seat control unit		Continuity	
Connector	Terminal	Connector Terminal		Continuity	
A/T models: M141 M/T models: M175	2	B518	67	Existed	

4. Check continuity between heated seat switch harness connector and ground.

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INFOID:000000007472044

< DTC/CIRCUIT DIAGNOSIS >

Heated s	eat switch		Continuity
Connector	Terminal	Ground	Continuity
A/T models: M141 M/T models: M175	2		Not existed
s the inspection result norm	<u>al?</u>		
YES >> GO TO 3. NO >> Repair or replace			
$B.CHECK HEATED SEAT S$	SWITCH		
Check heated seat switch. Refer to <u>SE-101, "DRIVER S</u>	SIDE : Component Inspecti	<u>on"</u> .	
s the inspection result norm	al?		
 YES >> GO TO 4. NO >> Replace heated seat switch. Refer to <u>SE-187</u>, "Removal and Installation". 			
		87, Removal and Installa	<u>ition</u> .
1. CHECK INTERMITTENT	INCIDENT		
Check intermittent incident.	Incident"		
Refer to <u>GI-43, "Intermittent</u>	<u>incident</u> .		
>> INSPECTION EI	ND		
DRIVER SIDE : Comp	onent Inspection		INFOID:00000007472046
CHECK FRONT HEATED	-		
 Turn ignition switch OFF Disconnect heated seat Check resistance between 		ninals.	

Heate	Heated seat switch		Condition		Resistance	SE
Connector	Teri	minal	Condition		(KΩ) (Approx.)	
		4		ON	0	
	I		OFF	∞	- N	
			1 (Min. temperature)	2.400	_	
A/T models: M141	5		Heated seat switch position	2	1.800	L
M/T models: M175	Э	2		3	1.200	_
				4	0.910	-
				5	0.620	M
				6 (Max. temperature)	0.348	_

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace heated seat switch. Refer to <u>SE-187, "Removal and Installation"</u>. PASSENGER SIDE

PASSENGER SIDE : Description

Adjusts heated seat temperature and deactivates heated seat.

PASSENGER SIDE : Component Function Check

1.CHECK FUNCTION

Check that heated seat warms to preset temperature when operating heated seat switch to the optimal position.

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INFOID:000000007472048

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< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> Heated seat switch function is OK.

NO >> Refer to <u>SE-102</u>, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000007472049

1.CHECK HEATED SEAT CONTROL UNIT INPUT SIGNAL

1. Turn ignition switch OFF.

2. Disconnect heated seat control unit connector.

3. Turn ignition switch ON.

4. Check voltage between heated seat control unit harness connector and ground.

(+ Heated seat		()	Co	ndition	Voltage (V) (Approx.)
Connector	Terminal	•			(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
				OFF	0
				1 (Min. temperature)	12.24
		Ground	Heated seat switch position	2	12.33
B575	67			3	12.49
			pooldon	4	12.63
				5	12.76
				6 (Max. temperature)	12.90

Is the inspection result normal?

YES >> Heated seat switch circuit is OK.

NO >> GO TO 2.

2.CHECK HEATED SEAT SWITCH CIRCUIT

1. Turn ignition switch OFF.

2. Disconnect heated seat switch connector.

3. Check continuity between heated seat switch harness connector and heated seat control unit harness connector.

Heated s	eat switch	Heated sea	t control unit	Continuity
Connector	Terminal	Connector	Terminal	Continuity
A/T models: M142 M/T models: M176	2	B575	67	Existed

4. Check continuity between heated seat switch harness connector and ground.

Heated se	eat switch		Continuity
Connector	Terminal	Ground	Continuity
A/T models: M142 M/T models: M176	2		Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK HEATED SEAT SWITCH

Check heated seat switch.

Refer to <u>SE-103</u>, "PASSENGER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace heated seat switch. Refer to <u>SE-187, "Removal and Installation"</u>.

4.CHECK INTERMITTENT INCIDENT

< DTC/CIRCUIT DIAGNOSIS >

Check intermittent incident. Refer to GI-43, "Intermittent Incident". А >> INSPECTION END В **PASSENGER SIDE : Component Inspection** INFOID:000000007472050 1.CHECK FRONT HEATED SEAT SWITCH С 1. Turn ignition switch OFF. 2. Disconnect heated seat switch connector. 3. Check resistance between heated seat switch terminals. D Heated seat switch Resistance Condition (KΩ) Connector Terminal Ε (Approx.) ON 0 1 OFF ∞ F 2.400 1 (Min. temperature) 2 1.800 A/T models: M142 Heated seat switch 5 3 1.200 M/T models: M176 position 2 4 0.910 5 0.620 Н 6 (Max. tempera-0.348 ture) Is the inspection result normal? >> INSPECTION END YES NO >> Replace heated seat switch. Refer to SE-187, "Removal and Installation".

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HEATED SEAT RELAY

< DTC/CIRCUIT DIAGNOSIS >

HEATED SEAT RELAY

Description

Power is supplied to the heated seat using ignition power supply control.

Component Function Check

1.CHECK FUNCTION

Check that heated seat warms to preset temperature when operating heated seat switch to the optimal position.

Is the inspection result normal?

- YES >> Heated seat relay function is OK.
- NO >> Refer to <u>SE-104, "Diagnosis Procedure"</u>

Diagnosis Procedure

INFOID:000000007472053

1.CHECK HEATED SEAT RELAY POWER SUPPLY

- 1. Turn ignition switch OFF.
- 2. Disconnect heated seat relay.
- 3. Turn ignition switch ON.
- 4. Check voltage between heated seat relay terminal connector and ground.

(+) Heated seat relay		(-)	Voltage (V) (Approx.)	
Connector	Terminal	(*****		
M70	2	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK HEATED SEAT RELAY POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.

2. Disconnect fuse block (J/B) connector.

3. Check continuity between heated seat relay terminal connector and fuse block (J/B) harness connector.

Heated	seat relay	Fuse bl	ock (J/B)	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M70	2	M1	2A	Existed

4. Check continuity between heated seat relay terminal connector and ground.

Heated seat relay			Continuity	
Connector	Terminal	Ground	Continuity	
M70	2		Not existed	

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

${ m 3.}$ CHECK HEATED SEAT RELAY GROUND CIRCUIT

1. Turn ignition switch OFF.

2. Check continuity between heated seat relay terminal connector and ground.

INFOID:000000007472051

HEATED SEAT RELAY

< DTC/CIRCUIT DIAGNOSIS >

Heated s	seat relay		Continuity
Connector	Terminal	Ground	Continuity
M70	1		Existed
Is the inspection result norma	al?		
YES >> GO TO 4.			
NO >> Repair or replace			
4. CHECK HEATED SEAT F	RELAY		
Check heated seat relay. Refer to <u>SE-105, "Componen</u>	at Inspection"		
Is the inspection result norm			
YES >> Heated seat rela			
NO >> Replace heated			
5. CHECK INTERMITTENT	INCIDENT		
Check intermittent incident.	le side stil		
Refer to <u>GI-43, "Intermittent</u>	<u>incident</u>		
>> INSPECTION E	ND		
Component Inspection	I		INFOID:00000007472054
1.CHECK HEATED SEAT F	RELAY		
 Turn ignition switch OFF Disconnect heated seat 			

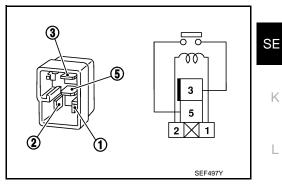
3. Check continuity between heated seat relay terminals.

	seat relay minal	Condition	Continuity
3	5	12 V direct current supply between termi- nals 1 and 2.	Existed
		No current supply	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace heated seat relay.



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HEAT SENSOR

< DTC/CIRCUIT DIAGNOSIS >

HEAT SENSOR DRIVER SIDE

DRIVER SIDE : Description

Detects seat cushion heater temperature and outputs to heated seat control unit.

DRIVER SIDE : Component Function Check

1.CHECK FUNCTION

Check that heated seat warms to preset temperature when operating heated seat switch to the optimal position.

Is the inspection result normal?

YES >> Heat sensor function is OK.

NO >> Refer to <u>SE-106, "DRIVER SIDE : Diagnosis Procedure"</u>

DRIVER SIDE : Diagnosis Procedure

INFOID:000000007472057

INFOID:00000007472055

INFOID:000000007472056

1.CHECK HEAT SENSOR INPUT SIGNAL

1. Turn ignition switch ON.

2. Check voltage between heated seat control unit harness connector and ground.

(+ Heated seat		(-)	Condition	on	Voltage (V) (Approx.)
Connector	Terminal	1			(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
				OFF	0
				1 (Min. temperature)	10.87 – 11.02
				2	10.93 – 11.07
B518	69	Ground	Heated seat switch position	3	11.04 – 11.17
				4	11.13 – 11.26
				5	11.22 – 11.34
				6 (Max. temperature)	11.31 – 11.43

NOTE:

Voltage is repeated within the value shown as per the following list depending on heater unit temperature. Is the inspection result normal?

YES >> heat sensor is OK.

NO >> GO TO 2.

2. CHECK HEAT SENSOR CIRCUIT

1. Turn ignition switch OFF.

2. Disconnect heated seat control unit connector and seat cushion heater connector.

3. Check continuity between heated seat control unit harness connector and seat cushion heater harness connector.

Heated sea	t control unit	Seat cush	nion heater	Continuity
Connector	Terminal	Connector	Terminal	Continuity
B518	69	B517	69	Existed

4. Check continuity between heated seat control unit harness connector and ground.

Heated sea	t control unit		Continuity
Connector	Terminal	Ground	Continuity
B518	69		Not existed

Is the inspection result normal?

HEAT SENSOR

	•		×	
< DTC/CIRCUIT DIAGN	√OSIS >			
YES >> GO TO 3. NO >> Repair or re	nlace harness			
B. CHECK HEAT SENS	•	v		
		-1		
 Turn ignition switch Turn heated seat sw 				
	een seat cushion hea	ater harness conne	ctor and ground.	
	(.)			
Soci	(+) t cushion heater		()	Voltage (V)
Connector	Termina	al	(-)	(Approx.)
B517	66		Ground	Battery voltage
the inspection result n			Cround	Dattory Voltage
YES >> GO TO 5.				
NO >> GO TO 4.				
.CHECK HEAT SENS	OR POWER SUPPL	Y CIRCUIT		
Turn ignition switch	OFF			
	seat switch connecto	r		
	tween heated seat of		s connector and sea	t cushion heater h
connector.	tween neated seat t			
Heated seat	control unit	Seat cu	shion heater	Continuity
Connector	Terminal	Connector	Terminal	
B518	66	B517	66	Existed
Check continuity be	tween heated seat co	ontrol unit harness	connector and grour	nd.
	 			
	d seat control unit			Continuity
Connector	Termina		Ground	Not ovisted
B518	66			Not existed
the inspection result n	<u>ormal?</u>			
YES >> GO TO 6. NO >> Repair or re	place harness.			
CHECK HEAT SENS				
heck heat sensor. Refe		R SIDE : Compone	ent Inspection".	
the inspection result n				
YES >> GO TO 6.				
•	at cushion heater. Re	efer to <u>SE-166, "Re</u>	moval and Installatio	<u>n"</u> .
CHECK INTERMITTE	ENT INCIDENT			
heck intermittent incide	ent.			
efer to <u>GI-43, "Intermit</u> t	tent Incident"			
>> INSPECTIO				
ORIVER SIDE : Co	mponent Inspec	ction		INF0ID:00000
CHECK HEAT SENS	OR			
	shion heater connect	or.		

3. Check resistance between seat cushion heater terminals.

HEAT SENSOR

< DTC/CIRCUIT DIAGNOSIS >

Seat cushion heater Terminal		Condition	Resistance (KΩ)	
		Condition	(Approx.)	
66	69	When heat sensor temperature is 25°C (77°F)	9.9 – 10.1	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace seat cushion heater. Refer to <u>SE-163. "Exploded View"</u>.

PASSENGER SIDE

PASSENGER SIDE : Description

Detects seat cushion heater temperature and outputs to heated seat control unit.

PASSENGER SIDE : Component Function Check

1.CHECK FUNCTION

Check that heated seat warms to preset temperature when operating heated seat switch to the optimal position.

Is the inspection result normal?

YES >> Heat sensor function is OK.

NO >> Refer to <u>SE-108</u>, "PASSENGER SIDE : Diagnosis Procedure"

PASSENGER SIDE : Diagnosis Procedure

1. CHECK HEAT SENSOR INPUT SIGNAL

1. Turn ignition switch ON.

2. Check voltage between heated seat control unit harness connector and ground.

(+)		()	Condition		Voltage (V) (Approx.)
Heated seat control unit					
Connector	Terminal	ţ			(, ,pp, ox.)
B575	69	Ground	Heated seat switch position	OFF	0
				1 (Min. temperature)	10.87 – 11.02
				2	10.93 - 11.07
				3	11.04 – 11.17
				4	11.13 – 11.26
				5	11.22 – 11.34
				6 (Max. temperature)	11.31 – 11.43

NOTE:

Voltage is repeated within the value shown as per the following list depending on heater unit temperature. Is the inspection result normal?

YES >> heat sensor is OK.

NO >> GO TO 2.

2.check heat sensor circuit

1. Turn ignition switch OFF.

2. Disconnect heated seat control unit connector and seat cushion heater connector.

3. Check continuity between heated seat control unit harness connector and seat cushion heater harness connector.

INFOID:000000007472061

INFOID:000000007472059

HEAT SENSOR

< DTC/CIRCUIT DIAGNOSIS >

Heated sea	at control unit		Seat cush	nion heater		
Connector	Terminal	Conn	ector	Terminal		Continuity
B575	69	B5	74	69		Existed
Check continuity b	etween heated seat c	control unit	harness co	onnector and gro	ound.	
Heat	ed seat control unit					Continuity
Connector	Termina	al		Ground		Continuity
B575	69					Not existed
CHECK HEAT SEN Turn ignition switch Turn heated seat s	eplace harness. SOR POWER SUPPI n ON. witch ON.					
Check voltage bet	ween seat cushion he	ater harnes	ss connect	tor and ground.		
	(+)					Voltage (V)
	at cushion heater			()		(Approx.)
Connector	Termina	al		One ward	-	
B574 the inspection result	66			Ground	Ва	attery voltage
Turn ignition switch	SOR POWER SUPPL		Г			
CHECK HEAT SEN Turn ignition switch Disconnect heated	n OFF.	or.		connector and s	eat cush	nion heater h
CHECK HEAT SEN Turn ignition switch Disconnect heated Check continuity b connector.	OFF. seat switch connecto	or.	t harness	connector and s	eat cush	
CHECK HEAT SEN Turn ignition switch Disconnect heated Check continuity b connector.	n OFF. seat switch connecto etween heated seat	or.	t harness Seat cush		eat cush	nion heater ha
CHECK HEAT SEN Turn ignition switch Disconnect heated Check continuity b connector. Heated sea	n OFF. seat switch connecto etween heated seat	or. control unit	t harness Seat cush ector	nion heater	eat cush	
CHECK HEAT SEN Turn ignition switch Disconnect heated Check continuity b connector. Heated sea Connector B575	n OFF. seat switch connecto etween heated seat at control unit Terminal	Dr. control unit Conn B5	t harness Seat cush ector 74	nion heater Terminal 66		Continuity
CHECK HEAT SEN Turn ignition switch Disconnect heated Check continuity b connector. Heated sea Connector B575 Check continuity b Heat	n OFF. seat switch connector etween heated seat at control unit Terminal 66 etween heated seat control unit	or. control unit Conn B5 control unit	t harness Seat cush ector 74 harness co	nion heater Terminal 66 Donnector and gro		Continuity
CHECK HEAT SEN Turn ignition switch Disconnect heated Check continuity b connector. Heated sea Connector B575 Check continuity b Heat Connector	n OFF. seat switch connector etween heated seat at control unit Terminal 66 etween heated seat control unit Terminal	or. control unit Conn B5 control unit	t harness Seat cush ector 74 harness co	nion heater Terminal 66	ound.	Continuity Existed Continuity
CHECK HEAT SEN Turn ignition switch Disconnect heated Check continuity b connector. Heated sea Connector B575 Check continuity b Heat Connector B575	n OFF. seat switch connector etween heated seat at control unit Terminal 66 etween heated seat control unit red seat control unit 66	or. control unit Conn B5 control unit	t harness Seat cush ector 74 harness co	nion heater Terminal 66 Donnector and gro	ound.	Continuity Existed
CHECK HEAT SEN Turn ignition switch Disconnect heated Check continuity b connector. Heated sea Connector B575 Check continuity b Heat Connector B575 the inspection result ES >> GO TO 6. O >> Repair or r CHECK HEAT SEN	at control unit Terminal 66 etween heated seat of red seat control unit 166 etween heated seat of red seat control unit 66 normal? eplace harness. SOR fer to <u>SE-110, "PASS</u>	or. control unit Conn B5 control unit al	t harness Seat cush ector 74 harness co	nion heater Terminal 66 Dnnector and gro Ground	bund.	Continuity Existed Continuity
CHECK HEAT SEN Turn ignition switch Disconnect heated Check continuity b connector. Heated sea Connector B575 Check continuity b Heat Connector B575 the inspection result ES >> GO TO 6. IO >> Repair or r CHECK HEAT SEN eck heat sensor. Re the inspection result ES >> GO TO 6. IO >> Repair or seattle Connector Seattle Check heat sensor. Re the inspection result ES >> GO TO 6. IO >> Repair or seattle Check heat sensor. Re the inspection result	at control unit Terminal 66 etween heated seat etween heated seat 66 etween heated seat etween heated seat etween heated seat red seat control unit 66 etween heated seat ed seat control unit 66 normal? eplace harness. SOR fer to <u>SE-110, "PASS</u> normal? eat cushion heater. Re	or. control unit Conn B5 control unit al	t harness Seat cush ector 74 harness co	nion heater Terminal 66 Donnector and gro Ground	bund.	Continuity Existed Continuity
CHECK HEAT SEN Turn ignition switch Disconnect heated Check continuity b connector. Heated sea Connector B575 Check continuity b Heat Connector B575 the inspection result ES >> GO TO 6. O >> Repair or r CHECK HEAT SEN eck heat sensor. Re the inspection result ES >> GO TO 6.	at control unit Terminal 66 etween heated seat etween heated seat 66 etween heated seat etween heated seat red seat control unit Terminal 66 etween heated seat red seat control unit 66 normal? eplace harness. SOR fer to <u>SE-110, "PASS</u> normal? eat cushion heater. Re rENT INCIDENT	or. control unit Conn B5 control unit al	t harness Seat cush ector 74 harness co	nion heater Terminal 66 Donnector and gro Ground	bund.	Continuity Existed Continuity

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:000000007472062

1.CHECK HEAT SENSOR

- Turn ignition switch OFF.
 Disconnect seat cushion heater connector.
- 3. Check resistance between seat cushion heater terminals.

Seat cush	nion heater		Resistance
Terr	minal	Condition	(KΩ) (Approx.)
66	69	When heat sensor temperature is 25°C (77°F)	9.9 – 10.1

NOTE:

Resistance value changes according to temperature.

- Is the inspection result normal?
- YES >> INSPECTION END

NO >> Replace seat cushion heater. Refer to <u>SE-163, "Exploded View"</u>.

		CUSH	ION HEA	IER			
< DTC/CIRCUIT DIA SEAT CUSHIO							
DRIVER SIDE							
	.						
DRIVER SIDE : D	Description					INFOID:000000007472063	
Warms the seat cushi	on.						
DRIVER SIDE : C	Component Funct	ion Che	eck			INFOID:000000007472064	
	N						
Check that heated sea	at warms to preset ten	nperature	when opera	ting he	ated seat switch	to the optimal posi-	
s the inspection resul	t normal?						
YES >> Seat cush	nion heater function is (-					
_	SE-111, "DRIVER SIDE	-	sis Procedur	<u>e"</u> .			
DRIVER SIDE : D	Diagnosis Procedu	lre				INFOID:000000007472065	
1. CHECK SEAT CUS	SHION HEATER INPU	T SIGNAL					
I. Turn ignition swite	h OFF.						
 Disconnect seat of 	cushion heater connect	or.					
 Turn ignition swite Check voltage bet 	tween seat cushion he	ater harne	ss connecto	or and g	ground.		
					-		
(+) Seat cushior	n heater	(-)		Cond	lition	Voltage (V)	
Connector	Terminal	(-)		Cona		(Approx.)	
					Operates	0 – Battery voltage	
B517	68 G	Ground	Heated seat	-	Other than above	0	S
NOTE:				I			ľ
Voltage is repeate s the inspection resul	ed within the value show	wn as per	the following	g list de	epending on hea	ter unit temperature.	
YES >> GO TO 3.							
NO >> GO TO 2.							
CHECK SEAT CUS	SHION HEATER CIRC	UIT					
I. Turn ignition swite							
	d seat control unit con between seat cushion			ootor o	and booted cost	control unit harnoss	
connector.	between seat cushion	nealer na		ecioi a	ind heated seat		
Cost su	abian baatar			a a netral s			
Connector	shion heater Terminal	Con	Heated seat		Terminal	Continuity	
B517	68		518		68	Existed	
	between seat cushion			ctor an			
			1		-		
	eat cushion heater					Continuity	
Connector	Termina	ai	G	Ground			

	Seat cusr	nion neater		Continuity	
C	Connector	Terminal	Ground	Continuity	Р
	B517	68		Not existed	
La de la la ser a s	1	- 10		·	

Is the inspection result normal?

YES >> Replace heated seat control unit. Refer to <u>SE-182, "Removal and Installation"</u>. >> Repair or replace harness.

NO

3.CHECK SEAT CUSHION HEATER

< DTC/CIRCUIT DIAGNOSIS >

Check seat cushion heater. Refer to SE-112, "DRIVER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace seat cushion heater. Refer to <u>SE-163, "Exploded View"</u>.

4.CHECK SEAT CUSHION HEATER GROUND CIRCUIT

Check continuity between seat cushion heater harness connector and ground.

Seat cush	ion heater		Continuity	
 Connector Terminal		Ground	Continuity	
 B517	59		Existed	

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident. Refer to GI-43, "Intermittent Incident"

>> INSPECTION END

DRIVER SIDE : Component Inspection

1.CHECK SEAT CUSHION HEATER

1. Turn ignition switch OFF.

2. Disconnect seat cushion heater connector and seatback heater connector.

3. Check resistance between seat cushion heater terminals.

	Seat cushion heater Terminal			Resistance
			Condition	(Ω) (Approx.)
	59 68		When heat sensor temperature is 20°C (68°F)	2.6 - 3.0

NOTE:

Resistance value changes according to temperature.

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace seat cushion heater. Refer to <u>SE-163, "Exploded View"</u>. PASSENGER SIDE

PASSENGER SIDE : Description

Warms the seat cushion.

PASSENGER SIDE : Component Function Check

1.CHECK FUNCTION

Check that heated seat warms to preset temperature when operating heated seat switch to the optimal position.

Is the inspection result normal?

YES >> Seat cushion heater function is OK.

NO >> Refer to <u>SE-112</u>, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

1.CHECK FRONT SEAT CUSHION HEATER INPUT SIGNAL

INFOID-00000007472069

INFOID:000000007472067

INFOID:000000007472066

INFOID:000000007472068

< DTC/CIRCUIT DIAGNOSIS >

Check voltage b							
(+		(`		Conditi	ion	Voltage (V)
Seat cush Connector	Terminal	(-	-)		Conditi	ION	(Approx.)
Connector	Terminar				0	Operates	0 – Battery volt
B574	68	Gro	und	Heated seat	t —	Other than above	
e inspection res S >> GO TO >> GO TO CHECK SEAT CO Turn ignition sw Disconnect hear	3. 2. JSHION HEATER	CIRCUI	T ctor.				
	cushion heater			Heated seat	t control un	it	
				Tiealeu Seal			Continuity
Connector	Terminal		Conne			erminal	Continuity
B574	Terminal 68 y between seat cu	shion he	Conne B57	ector 75	Te	erminal 68	Continuity Existed
B574 Check continuity Connector	68	Terminal	Conne B57	ector 75 ness conne	Te	erminal 68	Existed
B574 Check continuity Connector B574 he inspection res	68 y between seat cu Seat cushion heater	Terminal 68	Conne B57 eater harn	ector 75 ness conne (Te ector and Ground	ground.	Existed Continuity Not existed
B574 Check continuity Connector B574 he inspection res ES >> Replace O >> Repair of CHECK SEAT Cl eck seat cushion fer to <u>SE-114, "P4</u> he inspection res ES >> GO TO O >> Replace	68 y between seat cu Seat cushion heater ult normal? e heated seat cont or replace harness JSHION HEATER heater. ASSENGER SIDE ult normal? 4. e seat cushion heater	Terminal 68 rol unit. F : Compo	Conner B57 Pater harn Refer to S Conent Inspection	ector 75 hess conne 6 SE-182, "R pection".	Te ector and Ground	erminal 68 ground. and Installation	Existed Continuity Not existed
B574 Check continuity Connector B574 he inspection res ES >> Replace O >> Repair of CHECK SEAT Cl eck seat cushion fer to <u>SE-114, "P4</u> he inspection res ES >> GO TO O >> Replace	68 y between seat cu Seat cushion heater ult normal? heated seat cont or replace harness JSHION HEATER heater. ASSENGER SIDE ult normal? 4. e seat cushion heater JSHION HEATER	Terminal 68 rol unit. F : Compo	Conner B57 Pater harn Refer to S Conent Inspection	ector 75 hess conne 6 SE-182, "R pection".	Te ector and Ground	erminal 68 ground. and Installation	Existed Continuity Not existed
B574 Check continuity Connector B574 he inspection res ES >> Replace O >> Repair of CHECK SEAT Cl eck seat cushion fer to <u>SE-114</u> , "P/ he inspection res ES >> GO TO O >> Replace CHECK SEAT Cl Turn ignition sw	68 y between seat cu Seat cushion heater ult normal? heated seat cont or replace harness JSHION HEATER heater. ASSENGER SIDE ult normal? 4. e seat cushion heater JSHION HEATER	Terminal 68 rol unit. F	Conner B57 Pater harn Refer to S Conent Insp Par to SE-1 ND CIRCU	ector 75 hess conne 6 SE-182, "R pection". 163, "Explo UIT	Te ector and Ground Removal a	erminal 68 ground. and Installation N".	Existed Continuity Not existed
B574 Check continuity Connector B574 he inspection res ES >> Replace O >> Repair of CHECK SEAT Cl eck seat cushion fer to <u>SE-114</u> , "P/ he inspection res ES >> GO TO O >> Replace CHECK SEAT Cl Turn ignition sw	68 y between seat cu Seat cushion heater ult normal? heated seat cont or replace harness JSHION HEATER heater. ASSENGER SIDE ult normal? 4. e seat cushion heat JSHION HEATER itch OFF.	Terminal 68 rol unit. F	Conner B57 Pater harn Refer to S Conent Insp Par to SE-1 ND CIRCU	ector 75 hess conne 6 SE-182, "R pection". 163, "Explo UIT	Te ector and Ground Removal a	erminal 68 ground. and Installation N".	Existed Continuity Not existed
B574 Check continuity Connector B574 he inspection res ES >> Replace O >> Repair of CHECK SEAT Cl eck seat cushion fer to <u>SE-114</u> , "P/ he inspection res ES >> GO TO O >> Replace CHECK SEAT Cl Turn ignition sw	68 y between seat cu Seat cushion heater ult normal? heated seat cont or replace harness JSHION HEATER heater. ASSENGER SIDE ult normal? 4. e seat cushion heater JSHION HEATER itch OFF. y between seat cu Seat cushion heater	Terminal 68 rol unit. F	Conner B57 Pater harn Refer to S Conent Insp Par to SE-1 ND CIRCU	ector 75 hess conne 0 SE-182, "R pection". 163, "Explo UIT hess conne	Te ector and Ground Removal a	erminal 68 ground. and Installation N".	Existed Continuity Not existed

NO >> Repair or replace harness.

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

< DTC/CIRCUIT DIAGNOSIS >

Refer to GI-43, "Intermittent Incident"

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:000000007472070

1.CHECK SEAT CUSHION HEATER

- 1. Turn ignition switch OFF.
- 2. Disconnect seat cushion heater connector and seatback heater connector.
- 3. Check resistance between seat cushion heater terminals.

Seat cush	nion heater		Resistance	
Terr	minal	Condition	(Ω) (Approx.)	
59	68	When heat sensor temperature is 20°C (68°F)	2.6 - 3.0	

NOTE:

Resistance value changes according to temperature.

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace seat cushion heater. Refer to <u>SE-163, "Exploded View"</u>.

SEATBACK HEATER

		SE	ATBACK HEATER		
< DTC/CIRCUI	T DIAGNOSIS	_			
SEATBACH					А
DRIVER SI	JE				
DRIVER SID	E : Descrip	tion		INFOID:000000007472071	В
Warms the seat	cushion.				
DRIVER SID	E : Compo	nent Funct	tion Check	INFOID:000000007472072	С
1.CHECK FUN	ICTION				
Check that heat tion.	ed seat warms	s to preset ten	nperature when operating heated seat sw	itch to the optimal posi-	D
Is the inspection	n result normal	<u>?</u>			
	atback heater fu		E : Diagnosis Procedure".		Е
DRIVER SID			-	INFOID:000000007472073	
1.CHECK SEA	-				F
	n switch OFF.				
2. Disconnect	seatback heat		ator terminala		G
J. Check lesis		I SEALDACK HEA			
	Seatback heater		Condition	Resistance (Ω)	Н
Connector	Tern	ninal		(Approx.)	
B542	1	2	When heat sensor temperature is 20°C (68°F)	4.0 - 4.7	
NOTE: Resistance	value changes	according to	temperature.		
Is the inspection	-	-			SE
			efer to <u>SE-163, "Exploded View"</u> . to <u>SE-163, "Exploded View"</u> .		
PASSENGE		neater. Refer			К
PASSENGE	R SIDE : De	escription		INFOID:000000007472074	
Warms the seat	cushion.	·			L
PASSENGE	R SIDE : Co	omponent	Function Check	INFOID:000000007472075	
1.CHECK FUN		·			M
	ed seat warms	s to preset ten	nperature when operating heated seat sw	itch to the optimal posi-	
tion. Is the inspectior	rosult pormal	2			Ν
	atback heater fu	_			
			SIDE : Diagnosis Procedure".		0
PASSENGE	R SIDE : Di	agnosis Pr	ocedure	INF0ID:00000007472076	
1. CHECK SEA	TBACK HEAT				Р
1. Turn ignitio		=R			
•	n switch OFF. seatback heat				

3. Check resistance between seatback heater terminals.

SEATBACK HEATER

< DTC/CIRCUIT DIAGNOSIS >

Seatback heater				Resistance	
Connector	Terminal		Condition	(Ω) (Approx.)	
B582	1 2		When heat sensor temperature is 20°C (68°F)	4.0 - 4.7	

NOTE:

Resistance value changes according to temperature.

Is the inspection result normal?

YES >> Replace seat cushion heater. Refer to <u>SE-163, "Exploded View"</u>.

NO >> Replace seatback heater. Refer to <u>SE-163, "Exploded View"</u>.

< DTC/CIRCUIT DIAGNOS	HEATED SEAT SV	VITCH INDICATOR	
HEATED SEAT SW DRIVER SIDE			
DRIVER SIDE : Descr	iption		INFOID:00000007472077
Illuminates the indicator that	indicates the operating sta	atus of heated seat.	
DRIVER SIDE : Comp	onent Function Che	eck	INFOID:000000007472078
1.CHECK FUNCTION			
	al? tch indicator function is Of , "DRIVER SIDE : Diagnos	κ.	
1.CHECK HEATED SEAT S			INFOID:00000007472079
 Turn ignition switch OFF Disconnect heated seat 	switch connector.	ess connector and ground	
Heated s	eat switch Terminal	-	Continuity
A/T models: M141 M/T models: M175	6	Ground	Existed
Is the inspection result norm YES >> Replace heated NO >> Repair or replac PASSENGER SIDE	seat switch. Refer to SE-1	87. "Removal and Installa	tion".
PASSENGER SIDE : I	Description		INF01D:00000007472080
Illuminates the indicator that PASSENGER SIDE : 0			INFOID:00000007472081
1.CHECK FUNCTION			
Check that the related indica <u>Is the inspection result norm</u> YES >> Heated seat swi			o ON.
NO >> Refer to <u>SE-117</u>	, "PASSENGER SIDE : Dia	agnosis Procedure".	
PASSENGER SIDE : I 1.CHECK HEATED SEAT S	-		INFOID:000000007472082
 Turn ignition switch OFF Disconnect heated seat 	switch connector.	ess connector and ground	
Heated s	eat switch	_	Continuity
Connector A/T models: M142	Terminal	Ground	
M/T models: M176	6		Existed

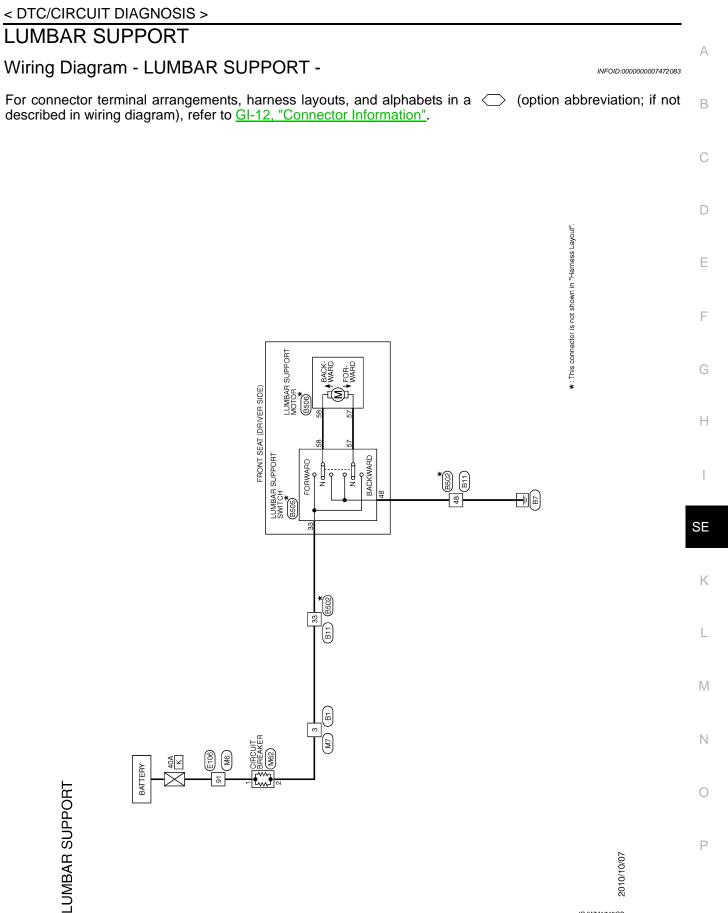
Is the inspection result normal?

HEATED SEAT SWITCH INDICATOR

< DTC/CIRCUIT DIAGNOSIS >

>> Replace heated seat switch. Refer to <u>SE-187, "Removal and Installation"</u>. >> Repair or replace harness. YES

NO



JCJWM1745GB

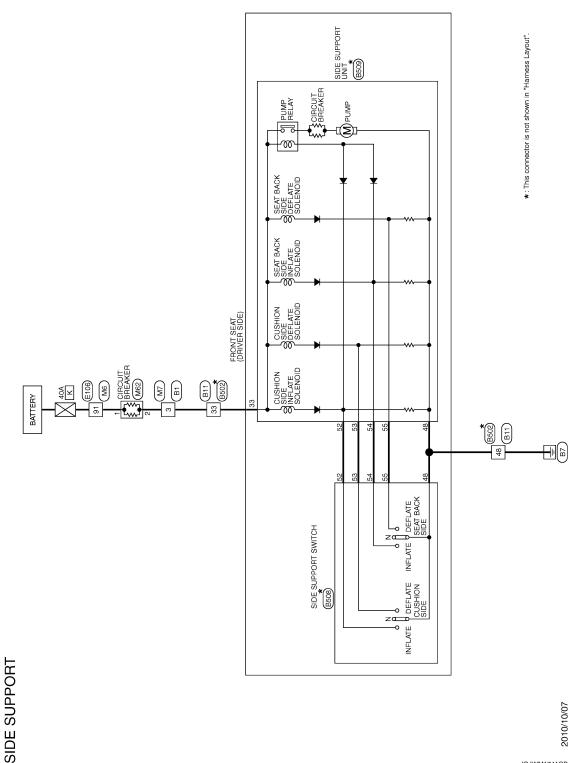
< DTC/CIRCUIT DIAGNOSIS >

SIDE SUPPORT

Wiring Diagram - SIDE SUPPORT -

INFOID:000000007472084

For connector terminal arrangements, harness layouts, and alphabets in a 🔿 (option abbreviation; if not described in wiring diagram), refer to GI-12, "Connector Information".



JCJWM1741GB

DRIVER SEAT CONTROL UNIT (WITHOUT AUTOMATIC DRIVE POSITIONER) < ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION DRIVER SEAT CONTROL UNIT (WITHOUT AUTOMATIC DRIVE POSI-TIONER)

Reference Value

INFOID:000000007472085

А

В

VALUES ON THE DIAGNOSIS TOOL

CONSULT MONITOR ITEM

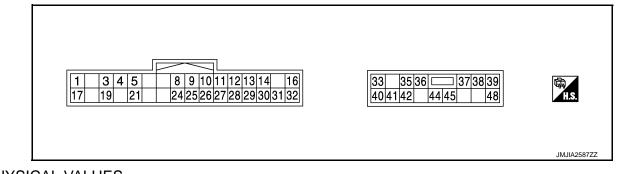
Monitor Item	Con	dition	Value/Status	
SLIDE SW-FR	Cliding owitch (front)	Operate	ON	
SLIDE SW-FR	Sliding switch (front)	Release	OFF	
SLIDE SW-RR	Sliding owitch (rear)	Operate	ON	
	Sliding switch (rear)	Release	OFF	
FORWARD SW	Seat back	Folded down	ON	
FORWARD SW	Seal Dack	Other than above	OFF	
WALK-IN SW	Power walk-in switch	Pressed	ON	
WALK-IN SW		Other than above	OFF	
FWD LIMIT SW	Soat sliding	Front edge	ON	
	Seat sliding	Other than above	OFF	
SEAT BELT SW	Seat belt	Front edge	ON	
SEAT BEET SW	Searbeit	Other than above	OFF	
DETENT SW ^{*1}	A/T selector lever	P position	OFF	
DETENT SW	AVI Selector level	Other than above	ON	
PARK BRAKE SW ^{*2}	Parking brake	Applied	ON	
PARK BRAKE SW	Faiking blake	Release	OFF	00
		Forward	The numeral value decreases *3	
SLIDE PULSE	Seat sliding	Backward	The numeral value increases *3	
		Other than above	No change to numeral value ^{*3}	

*1: A/T model

*2: M/T model

*3: The value at the position attained when the battery is connected is regarded as 32768.

TERMINAL LAYOUT



SE-121

PHYSICAL VALUES

L

Μ

Ν

Ρ

< ECU DIAGNOSIS INFORMATION >

	nal No. color)	Description				
(+)	()	Signal name	Input/ Out- put	Condition		Voltage (V) (Approx.)
3 (R/Y)	—	CAN-H	—	-	_	—
4	Ground	Sliding limit switch	Input	Seat sliding front ed	ge	0
(O/B)	Croana	signal	mput	Other than above*		5
5	Oracia	Seat belt buckle	I	Ignition switch OFF tened*	and seat belt fas-	5
(L)	Ground	switch signal (driver side)	Input	Ignition switch ON a	nd seat belt released	Battery voltage
		, 		Other than above		0
11 (BR)	Ground	Sliding switch back- ward signal	Input	Sliding switch	Operate (backward)	0
(2.1)		inal a olginal			Release	Battery voltage
12 (SB)	Ground	Reclining switch backward signal	Input	Reclining switch	Operate (backward)	0
(56)		backward Signal			Release	Battery voltage
13 (LG/R)	Ground	Lifting switch (front) downward signal	Input	Lifting switch (front)	Operate (downward)	0
		downward signal		(nonc)	Release	Battery voltage
14 (G/B)	Ground	Lifting switch (rear) downward signal	Input	Lifting switch (rear)	Operate (downward)	0
(G/B)		uownwaru signai			Release	Battery voltage
16 (O)	Ground	Sensor power supply	Out- put	_	_	Battery voltage
19 (V)	_	CAN-L	_	_	_	_
24 (R)	Ground	Sliding sensor signal	Input	Seat sliding	Operate	10mSec/div 10mSec/div 2V/div JMJIA0119ZZ
					Stop	0 or 5
26 (Y)	Ground	Sliding switch for- ward signal	Input	Sliding switch	Operate (forward)	0
(.)					Release	Battery voltage
27 (R/G)	Ground	Reclining switch for- ward signal	Input	Reclining switch	Operate (forward)	0
(Release	Battery voltage
28 (W/B)	Ground	Lifting switch (front) upward signal	Input	Seat lifting switch (front)	Operate (upward)	0
()				(··-··)	Release	Battery voltage
29	Ground	Lifting switch (rear)	Input	Seat lifting switch (rear)	Operate (upward)	0
(P/L)		upward signal				

	nal No. color)	Description	Description				-		
(+)	()	Signal name	Input/ Out- put	Condition				Voltage (V) (Approx.)	
30	Ground	Power walk-in switch	Input	Power walk-in	Pressed	0	_		
(P)	Croana	signal	mput	switch	Other than above	Battery voltage	_		
31 (GR)	Ground	Sensor ground	_		-	0			
32 (B/W)	Ground	Ground (signal)	—		-	0	_		
33 (R)	Ground	Power source (C/B)	Input	-	_	Battery voltage			
35 (W/R)	Ground	Sliding motor forward output	Out- put	Seat sliding	Operate (forward)	Battery voltage			
(**/15)			Pui		Release	0			
36 (G/Y)	Ground	Reclining motor for- ward output signal	Out- put	Seat reclining	Operate (forward)	Battery voltage			
			pui		Release	0	_		
37 (G/W)	Ground	Lifting motor (front) downward output	Out- put	Seat lifting (front)	Operate (downward)	Battery voltage	_		
(6/11)		downward odiput	put		Stop	0	-		
38 (L/Y)	Ground	Lifting motor (rear) upward output	Out-	Seat lifting (rear)	Operate (upward)	Battery voltage	-		
(L/T)		upward output	put		Stop	0	-		
39 (R/B)	Ground	Lifting motor (rear) downward output	Out- put	Seat lifting (rear)	Operate (downward)	Battery voltage	-		
(17,0)		downward odiput	put		Stop	0	-		
40 (R/W)	Ground	Power source (Fuse)	Input	-	_	Battery voltage	-		
41	Ground	Forward switch sig-	Input	Seatback is folded	down	0	_		
(Y/G)		nal	mput	Other than above*		5			
42 (W)	Ground	Sliding motor back- ward output	Out- put	Seat sliding	Operate (backward)	Battery voltage			
(**)			Pui		Stop	0			
44 (P)	Ground	Reclining motor backward output	Out- put	Seat reclining	Operate (backward)	Battery voltage	_		
(1)			pui		Stop	0			
45 (L/R)	Ground	Lifting motor (front) upward output	Out- put	Seat lifting (front)	Operate (upward)	Battery voltage	_		
			Put		Stop	0			
48 (B)	Ground	Ground (power)	—	-	-	0			

*: Not in the sleep mode.

Wiring Diagram - POWER SEAT SYSTEM FOR DRIVER SIDE (WITHOUT AUTO-

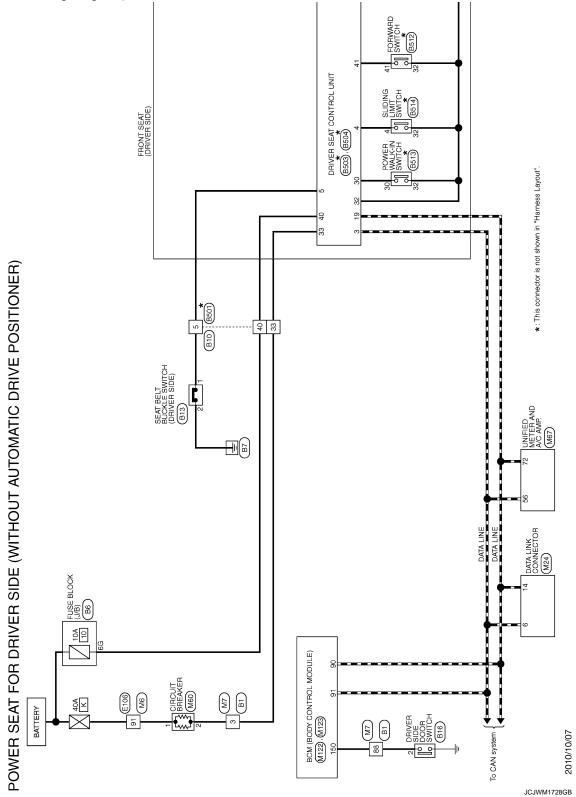
Ρ

< ECU DIAGNOSIS INFORMATION >

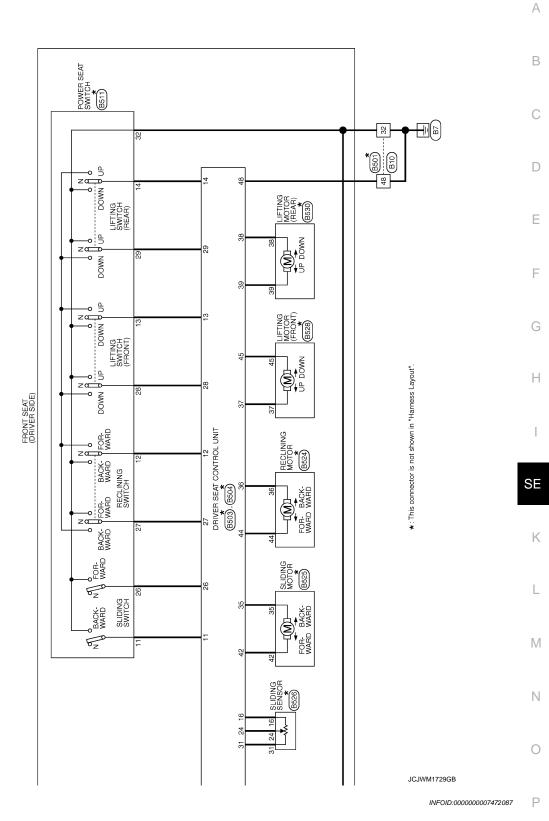
MATIC DRIVE POSITIONER) -

INFOID:000000007472086

For connector terminal arrangements, harness layouts, and alphabets in a \bigcirc (option abbreviation; if not described in wiring diagram), refer to <u>GI-12, "Connector Information"</u>.



DRIVER SEAT CONTROL UNIT (WITHOUT AUTOMATIC DRIVE POSITIONER) < ECU DIAGNOSIS INFORMATION >



The fail-safe mode may be activated if the following symptoms are observed.

Fail-Safe

< ECU DIAGNOSIS INFORMATION >

Operating in fail-safe mode	Malfunction Item	Related DTC	Diagnosis
	CAN communication* ¹	U1000	With ADP: ADP-48, "DTC Logic"
	CAN communication	01000	Without ADP: <u>ADP-48, "DTC</u> <u>Logic"</u>
Only manual functions operate normally.	Tilt sensor	B2118	ADP-53, "DTC Logic"
	Telescopic sensor	B2119	ADP-56, "DTC Logic"
	Detent switch	B2126	ADP-59, "DTC Logic"
	Parking brake switch	B2127	ADP-61, "DTC Logic"
Only manual functions, except door mirror, operate normally.	UART communication	B2128	ADP-63, "DTC Logic"
Only manual functions, except seat sliding, operate normally.	Seat sliding output*1	B2112	ADP-49, "DTC Logic"
Only manual functions, except seat reclining, operate normally.	Seat reclining output*1	B2113	ADP-51, "DTC Logic"

*1: Driver seat without automatic driver positioner system display.

DTC Index

INFOID:000000007472088

CONSULT	Tim	ing ^{*1}		
display	Current mal- function	Previous mal- function	Item	Reference page
CAN COMM CIRCUIT* ²	0	1-39	CAN communication	With ADP: ADP-48, "DTC Logic"
[U1000]	, i i i i i i i i i i i i i i i i i i i	1.00		Without ADP: ADP-48, "DTC Logic"
SEAT SLIDE* ²	0	1-39	Seat slide motor output	With ADP: ADP-49, "DTC Logic"
[B2112]		1-55		Without ADP: ADP-49, "DTC Logic"
SEAT RECLINING* ² [B2113]	0	1-39	Seat reclining motor output	ADP-51, "DTC Logic"
TILT SENSOR [B2118]	0	1-39	Tilt sensor input	ADP-53, "DTC Logic"
TELESCO SENSOR [B2119]	0	1-39	Telescopic sensor input	ADP-56, "DTC Logic"
DETENT SW [B2126]	0	1-39	Detention switch condition	ADP-59, "DTC Logic"
PARKING BRAKE [B2127]	0	1-39	Parking brake switch condition	ADP-61, "DTC Logic"
UART COMM [B2128]	0	1-39	UART communication	ADP-63, "DTC Logic"

*1:

< ECU DIAGNOSIS INFORMATION >

• 0: Current malfunction is present

• 1-39: Displayed if any previous malfunction is present when current condition is normal. The numeral value increases by one at each IGN ON to OFF cycle from 1 to 39. The counter remains at 39 even if the number of cycles exceeds it. However, the counter is reset to 1 if any malfunction is detected again, the normal operation is resumed and the ignition switch is turned from OFF to ON.

*²: Driver seat without automatic driver positioner system display.

SE

Κ

L

Μ

Ν

0

Ρ

В

С

D

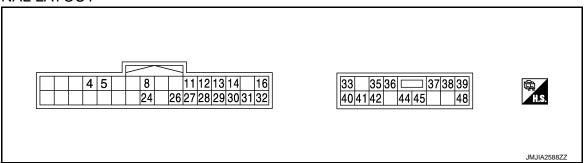
< ECU DIAGNOSIS INFORMATION >

PASSENGER SEAT CONTROL UNIT

Reference Value

INFOID:000000007472089

TERMINAL LAYOUT



PHYSICAL VALUES

	nal No. color)	Description		Con	dition	Voltage (V)
(+)	()	Signal name	Input/ Output	Con		(Approx.)
4	Ground	Sliding limit switch	Input	Seat sliding front ed	dge	0
(O/B)	Cround	signal	mput	Other than above*		5
_		Seat belt buckle		Ignition switch OFF tened*	and seat belt fas-	5
5 (L)	Ground	switch signal (pas- senger side)	Input	Ignition switch ON a leased	and seat belt re-	Battery voltage
				Other than above		0
					Open	0
8 (LG)	Ground	Passenger side door switch signal	Input	Passenger door	Closed	(V) 10 5 0 + 10ms PKIB4960J
11 (BR)	Ground	Sliding switch back- ward signal	Input	Sliding switch	Operate (backward)	0
		Ward olghar			Release	Battery voltage
12 (SB)	Ground	Reclining switch backward signal	Input	Reclining switch	Operate (backward)	0
(00)		backward Signal			Release	Battery voltage
13 (LG/R)	Ground	Lifting switch (front) downward signal	Input	Lifting switch (front)	Operate (downward)	0
(LG/R)		downward signal		(ITOTIL)	Release	Battery voltage
14 (G/B)	Ground	Lifting switch (rear) downward signal	Input	Lifting switch (rear)	Operate (downward)	0
(0,0)		downward signal		(ioui)	Release	Battery voltage
16 (O)	Ground	Sensor power supply	Output		_	Battery voltage

PASSENGER SEAT CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

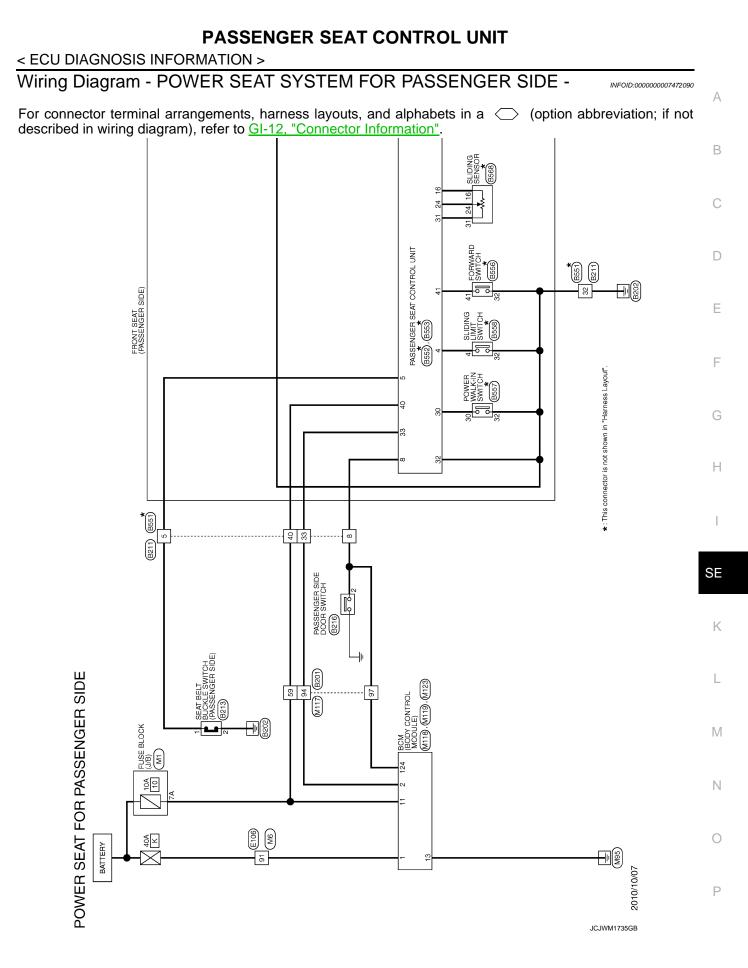
	nal No. color)	Description		Condition		Voltage (V)	А
(+)	()	Signal name	Input/ Output	Condition		(Approx.)	_
24 (R)	Ground	Sliding sensor signal	Input	Seat sliding	Operate	10mSec/div	B C D
					Stop	0 or 5	
26 (Y)	Ground	Sliding switch for- ward signal	Input	Sliding switch	Operate (forward)	0	E
(-)					Release	Battery voltage	
27 (R/G)	Ground	Reclining switch for- ward signal	Input	Reclining switch	Operate (forward)	0	F
. ,					Release	Battery voltage	
28 (W/B)	Ground	Lifting switch (front) upward signal	Input	Seat lifting switch (front)	Operate (upward)	0	G
· · /		1 5			Release	Battery voltage	
29 (P/L)	Ground	Lifting switch (rear) upward signal	Input	Seat lifting switch (rear)	Operate (upward)	0	Н
(.,,_)				()	Release	Battery voltage	
30 (P)	Ground	Power walk-in switch signal	Input	Power walk-in switch	Pressed Other than above	0 Battery voltage	
31 (GR)	Ground	Sensor ground	_			0	SE
32 (B/W)	Ground	Ground (signal)	_	-	_	0	
33 (R)	Ground	Power source (C/B)	Input	-	_	Battery voltage	K
35	Ground	Sliding motor for-	Output	Seat sliding	Operate (forward)	Battery voltage	L
(W/R)		ward output	•	Ū.	Release	0	
36 (G/Y)	Ground	Reclining motor for- ward output signal	Output	Seat reclining	Operate (forward)	Battery voltage	M
(6/1)		ward output signal			Release	0	
37 (G/W)	Ground	Lifting motor (front) downward output	Output	Seat lifting (front)	Operate (downward)	Battery voltage	Ν
(0/11)		downward output			Stop	0	
38 (L/Y)	Ground	Lifting motor (rear) upward output	Output	Seat lifting (rear)	Operate (upward)	Battery voltage	0
()					Stop	0	
39 (R/B)	Ground	Lifting motor (rear) downward output	Output	Seat lifting (rear)	Operate (downward)	Battery voltage	Ρ
					Stop	0	
40 (R/W)	Ground	Power source (Fuse)	Input	-	_	Battery voltage	
41 (Y/G)	Ground	Forward switch sig- nal	Input	Seatback is folded Other than above*	down	0 5	

PASSENGER SEAT CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

	nal No. e color)	Description		Condition		Voltage (V)	
(+)	()	Signal name	Input/ Output	Con		(Approx.)	
42 (W)	Ground	Sliding motor back- ward output	Output	Seat sliding	Operate (backward)	Battery voltage	
(VV)		ward output			Stop	0	
44 (P)	Ground	Reclining motor backward output	Output Seat reclining	Operate (backward)	Battery voltage		
(Г)		backwaru ouipui			Stop	0	
45 (L/R)	Ground	Lifting motor (front)	Output	Seat lifting (front)	Operate (upward)	Battery voltage	
(L/K)		upwaru output			Stop	0	
48 (B)	Ground	Ground (power)	—	_		0	

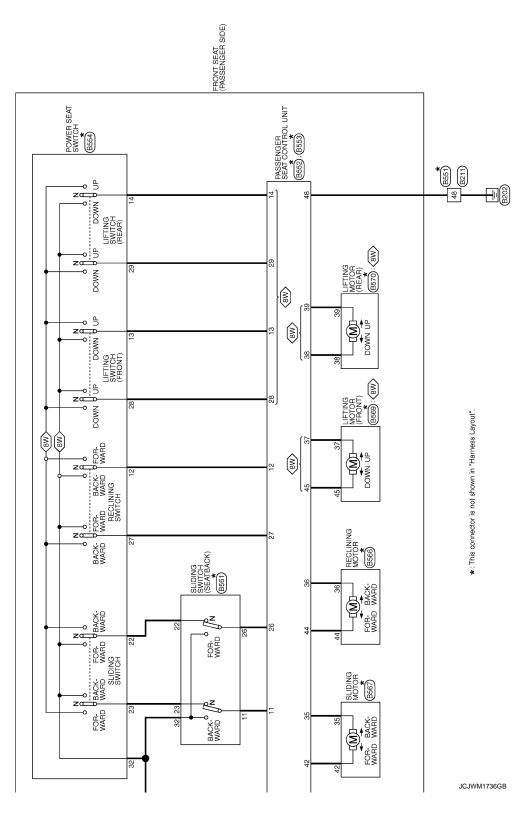
*: Not in the sleep mode.



PASSENGER SEAT CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >





HEATED SEAT CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

HEATED SEAT CONTROL UNIT

Reference Value

INFOID:000000007472091 **TERMINAL LAYOUT** ЪП 67 59 69 68 66 60 JMJIA2339ZZ

PHYSICAL VALUES

	nal No. e color)	Description		Condition		Voltage (V)														
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)														
59 (B)	Ground	Ground	_	Ignition switch O	N	0	_													
60	Ground	IGN power supply	loput	Ignition switch	OFF or ACC	0	-													
(Y)	Ground	IGN power supply	Input	Ignition Switch	ON	Battery voltage	_													
66	Ground	Heated seat operation sig-	Input	Heated seat	Operate	Battery voltage	_													
(B)	Ground	nal	input	nealed seal	Other than above	0	_													
					OFF	0	-													
					1 (Min. temperature)	12.24	-													
					2	12.33														
67 (W)	Ground	Heated seat switch signal	Input	Heated seat switch	3	12.49	_													
()				SWITCH	4	12.63	_													
																			5	12.76
					6 (Max. temperature)	12.90	_													
68	Oneveral	Seat cushion heater pow-	Outrast		Operate	0 – Battery voltage*	-													
(R/W)	Ground	er supply	Output	Heated seat	Other than above	0	-													
					OFF	0	_													
					1 (Min. temperature)	10.87 – 11.02*	-													
					2	10.93 – 11.07*	_													
69 (R)	Ground	Heat sensor signal	Input	Heated seat switch	3	11.04 – 11.17*	_													
('')				Culton	4	11.13 – 11.26*	_													
					5	11.22 – 11.34*	-													
					6 (Max. temperature)	11.31 – 11.43*	-													

*: Voltage is repeated within the value shown as per the following list depending on heater unit temperature.

Ρ

А

В

С

D

Ε

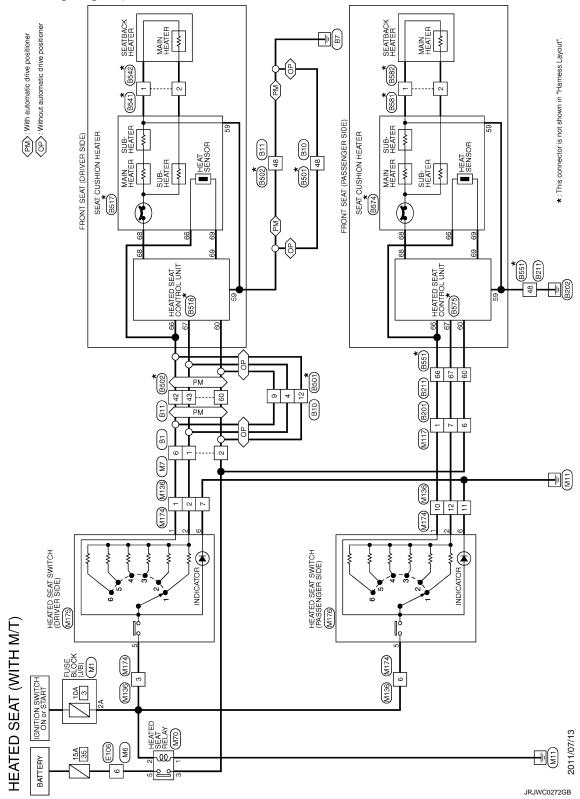
HEATED SEAT CONTROL UNIT

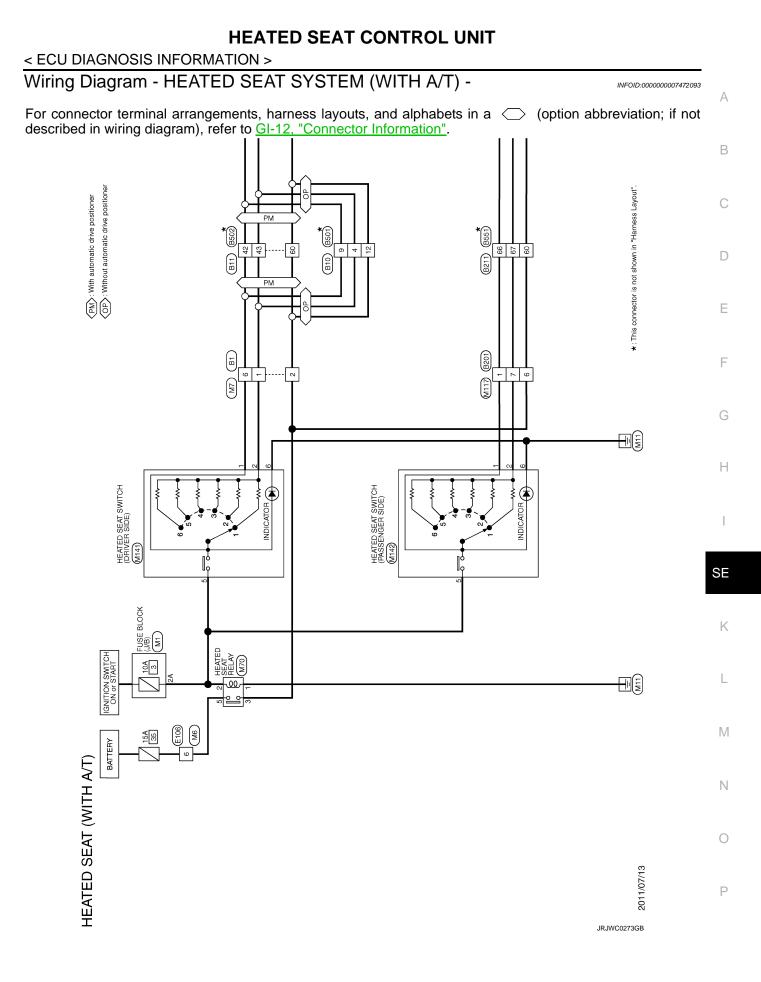
< ECU DIAGNOSIS INFORMATION >

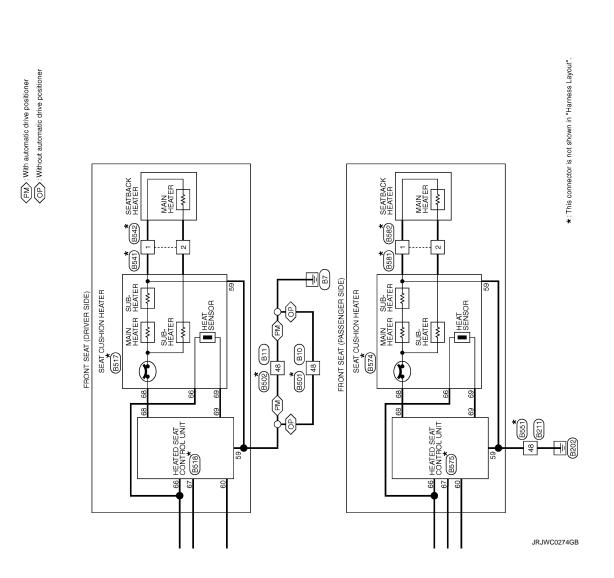
Wiring Diagram - HEATED SEAT SYSTEM (WITH M/T) -

INFOID:000000007472092

For connector terminal arrangements, harness layouts, and alphabets in a \bigcirc (option abbreviation; if not described in wiring diagram), refer to <u>GI-12, "Connector Information"</u>.







ALL COMPONENTS OF POWER SEAT DO NOT OPERATE < SYMPTOM DIAGNOSIS >	
SYMPTOM DIAGNOSIS	
ALL COMPONENTS OF POWER SEAT DO NOT OPERATE DRIVER SIDE	A
DRIVER SIDE : Diagnosis Procedure	07472094
1. CHECK POWER SUPPLY CIRCUIT AND GROUND CIRCUIT	С
Check power supply circuit and ground circuit. Refer to <u>SE-35, "DRIVER SEAT CONTROL UNIT : Diagnosis Procedure"</u> . Is the inspection result normal?	D
YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts.	F
2.CHECK POWER SEAT SWITCH GROUND CIRCUIT	E
Check power seat switch ground circuit. Refer to <u>SE-59, "DRIVER SIDE : Diagnosis Procedure"</u> .	F
<u>Is the inspection result normal?</u> YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts.	G
3. CONFIRM THE OPERATION	G
Check the operation again. <u>Is the result normal?</u> YES >> Check intermittent incident. Refer to <u>GI-43, "Intermittent Incident"</u> .	Н
NO >> GO TO 1. PASSENGER SIDE	I
PASSENGER SIDE : Diagnosis Procedure	07472095 SE
1. CHECK POWER SUPPLY AND GROUND CIRCUIT	
Check power supply and ground circuit. Refer to <u>SE-35, "PASSENGER SEAT CONTROL UNIT : Diagnosis Procedure"</u> . Is the inspection result normal?	K
YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts.	L
2.CHECK POWER SEAT SWITCH GROUND CIRCUIT	
Check power seat switch ground circuit. Refer to <u>SE-59, "PASSENGER SIDE : Diagnosis Procedure"</u> .	Μ
<u>Is the inspection result normal?</u> YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts.	Ν
3. CONFIRM THE OPERATION	
Check the operation again.	0
<u>Is the result normal?</u> YES >> Check intermittent incident. Refer to <u>GI-43, "Intermittent Incident"</u> . NO >> GO TO 1.	Ρ

POWER SEAT SWITCH (PASSENGER SIDE) DOES NOT OPERATE ANY COM-PONENTS

< SYMPTOM DIAGNOSIS >

POWER SEAT SWITCH (PASSENGER SIDE) DOES NOT OPERATE ANY COMPONENTS

Diagnosis Procedure

INFOID:000000007472096

1.CHECK POWER SEAT SWITCH GROUND CIRCUIT

Check power seat switch ground circuit. Refer to <u>SE-59</u>, "PASSENGER SIDE : Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Check the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-43. "Intermittent Incident".

NO >> GO TO 1.

SLIDING FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >	
SLIDING FUNCTION DOES NOT OPERATE	٨
DRIVER SIDE	А
DRIVER SIDE : Diagnosis Procedure	В
1.CHECK SLIDING MECHANISM	
Check for the following.Mechanism deformation or pinched foreign materials.Interference with other parts because of poor installation.	С
<u>Is the inspection result normal?</u> YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts.	D
2.CHECK SLIDING SWITCH	_
Check sliding switch. Refer to <u>SE-41, "DRIVER SIDE : Component Function Check"</u> .	E
Is the inspection result normal?	F
YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts.	
3. CHECK SLIDING MOTOR	G
Check sliding motor. Refer to <u>SE-84, "DRIVER SIDE : Component Function Check"</u> .	Н
<u>Is the inspection result normal?</u> YES >> GO TO 4.	
NO >> Repair or replace the malfunctioning parts. 4.CONFIRM THE OPERATION	
Check the operation again.	
Is the result normal? YES >> Check intermittent incident. Refer to <u>GI-43, "Intermittent Incident"</u> . NO >> GO TO 1. PASSENGER SIDE	SE K
PASSENGER SIDE : Diagnosis Procedure	
1.CHECK SLIDING OPERATION	L
Check sliding operation. Which sliding switch is malfunctioning? Both sides>>GO TO 2.	M
Seatback side>>GO TO 4. Power seat switch side>>GO TO 5.	Ν
2. CHECK SLIDING MECHANISM	
Check for the following.Mechanism deformation or pinched foreign materials.Interference with other parts because of poor installation.	0
Is the inspection result normal?	Р
YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts.	1
3. CHECK SLIDING MOTOR	
Check sliding motor. Refer to <u>SE-85, "PASSENGER SIDE : Component Function Check"</u> .	
Is the inspection result normal?	

SLIDING FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.CHECK SLIDING SWITCH (SEATBACK)

Check sliding switch (seatback).

Refer to <u>SE-44, "SEATBACK : Component Function Check"</u>.

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace the malfunctioning parts.

5. CHECK SLIDING SWITCH

Check sliding switch.

Refer to SE-42, "PASSENGER SIDE : Component Function Check".

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace the malfunctioning parts.

6.CONFIRM THE OPERATION

Check the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".

NO >> GO TO 1.

RECLINING FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >	
RECLINING FUNCTION DOES NOT OPERATE	
DRIVER SIDE	
DRIVER SIDE : Diagnosis Procedure	INF0ID:000000007472099
1.CHECK RECLINING MECHANISM	
 Check for the following. Mechanism deformation or pinched foreign materials. Interference with other parts because of poor installation. Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 	
2.CHECK RECLINING SWITCH	
Check reclining switch. Refer to <u>SE-47</u> , "DRIVER SIDE : Component Function Check". Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts. 3. CHECK FORWARD SWITCH	
Check forward switch.	
Refer to <u>SE-61, "DRIVER SIDE : Component Function Check"</u> . <u>Is the inspection result normal?</u> YES >> GO TO 4.	
NO >> Repair or replace the malfunctioning parts. 4.CHECK RECLINING MOTOR	
Check reclining motor. Refer to <u>SE-88</u> , " <u>DRIVER SIDE</u> : <u>Component Function Check</u> ". <u>Is the inspection result normal?</u> YES >> GO TO 5. NO >> Repair or replace the malfunctioning parts. 5. CONFIRM THE OPERATION	
Check the operation again.	
<u>Is the result normal?</u> YES >> Check intermittent incident. Refer to <u>GI-43, "Intermittent Incident"</u> . NO >> GO TO 1. PASSENGER SIDE	
PASSENGER SIDE : Diagnosis Procedure	INFOID:000000007472100
1.CHECK RECLINING MECHANISM	
Check for the following.Mechanism deformation or pinched foreign materials.Interference with other parts because of poor installation.	
Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2.CHECK RECLINING SWITCH	
Check reclining switch. Refer to <u>SE-48, "PASSENGER SIDE : Component Function Check"</u> . Is the inspection result normal?	

RECLINING FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK FORWARD SWITCH

Check forward switch.

Refer to <u>SE-62, "PASSENGER SIDE : Component Function Check"</u>.

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.CHECK RECLINING MOTOR

Check reclining motor.

Refer to SE-89, "PASSENGER SIDE : Component Function Check".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5.CONFIRM THE OPERATION

Check the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to <u>GI-43, "Intermittent Incident"</u>.

NO >> GO TO 1.

LIFTING FUNCTION DOES NOT OPERATE FRONT	A
FRONT : Diagnosis Procedure	7472101 B
1.CHECK LIFTING MECHANISM	
Check for the following.Mechanism deformation or pinched foreign materials.Interference with other parts because of poor installation.	C
<u>Is the inspection result normal?</u> YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts.	C
2.CHECK LIFTING SWITCH (FRONT)	_
Check lifting switch (front).	E
 Driver side: Refer to <u>SE-51, "DRIVER SIDE : Component Function Check"</u>. Passenger side: Refer to <u>SE-52, "PASSENGER SIDE : Component Function Check"</u>. <u>Is the inspection result normal?</u> 	F
YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts.	G
3. CHECK LIFTING MOTOR (FRONT)	
 Check lifting motor (front). Driver side: Refer to <u>SE-92, "DRIVER SIDE : Component Function Check"</u>. Passenger side: Refer to <u>SE-93, "PASSENGER SIDE : Component Function Check"</u>. 	ŀ
<u>Is the inspection result normal?</u> YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts.	I
4.CONFIRM THE OPERATION	SE
Check the operation again.	
<u>Is the result normal?</u> YES >> Check intermittent incident. Refer to <u>GI-43. "Intermittent Incident"</u> . NO >> GO TO 1. REAR	K
REAR : Diagnosis Procedure	'472 102
1.CHECK LIFTING MECHANISM	N
Check for the following.Mechanism deformation or pinched foreign materials.Interference with other parts because of poor installation.	
Is the inspection result normal?	Ν
YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2.CHECK LIFTING SWITCH (REAR)	C
Check lifting switch (rear).	
 Driver side: Refer to <u>SE-55, "DRIVER SIDE : Component Function Check"</u>. Passenger side: Refer to <u>SE-56, "PASSENGER SIDE : Component Function Check"</u>. 	F
<u>Is the inspection result normal?</u> YES >> GO TO 3.	
NO >> Repair or replace the malfunctioning parts.	
3.CHECK LIFTING MOTOR (REAR)	
Check lifting motor (rear).	

Revision: 2013 February

LIFTING FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

• Driver side: Refer to <u>SE-96, "DRIVER SIDE : Component Function Check"</u>.

Passenger side: Refer to <u>SE-97, "PASSENGER SIDE : Component Function Check"</u>.

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.CONFIRM THE OPERATION

Check the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".

NO >> GO TO 1.

POWER WALK-IN FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >			
POWER WALK-IN FUNCTION DOES NOT OPERATE			
DRIVER SIDE			
DRIVER SIDE : Diagnosis Procedure	В		
1. CHECK SEAT SLIDING OPERATION			
Check seat sliding operation.	С		
Is the inspection result normal?	0		
YES >> GO TO 2. NO >> Refer to <u>SE-139, "DRIVER SIDE : Diagnosis Procedure"</u> .	_		
2. PERFORM INITIALIZATION PROCEDURE	D		
1. Perform initialization procedure. Refer to <u>SE-8, "SYSTEM INITIALIZATION : Special Repair Requirement"</u> .	Е		
 Check power walk-in function. Refer to <u>SE-11, "POWER WALK-IN FUNCTION : System Description"</u>. 			
Is the inspection result normal?	F		
YES >> Power walk-in function is normal. NO >> GO TO 3.			
3. CHECK POWER WALK-IN SWITCH	G		
Check power walk-in switch.			
Refer to <u>SE-73, "DRIVER SIDE : Component Function Check"</u> . Is the inspection result normal?	Н		
YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts.			
4.CHECK SEAT BELT BUCKLE SWITCH			
Check seat belt buckle switch.			
Refer to <u>SE-65, "DRIVER SIDE : Component Function Check"</u> . Is the inspection result normal?	SE		
YES $>>$ GO TO 5.			
NO >> Repair or replace the malfunctioning parts.	Κ		
5. CHECK FORWARD SWITCH			
Check forward switch.	L		
Refer to <u>SE-61, "DRIVER SIDE : Component Function Check"</u> . Is the inspection result normal?			
YES >> GO TO 6.	в. Л		
NO >> Repair or replace the malfunctioning parts.	Μ		
6.CHECK SLIDING LIMIT SWITCH			
Check sliding limit switch. Refer to <u>SE-69, "DRIVER SIDE : Component Function Check"</u> .	Ν		
Is the inspection result normal?			
YES >> GO TO 7. NO >> Repair or replace the malfunctioning parts.	0		
7. CHECK DRIVER SIDE DOOR SWITCH			
Check driver side door switch.	Ρ		
Refer to SE-77, "Component Function Check"			
<u>Is the inspection result normal?</u> YES >> GO TO 8.			
NO >> Repair or replace the malfunctioning parts.			
8. CHECK SLIDING SENSOR			

POWER WALK-IN FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

Check sliding sensor. Refer to SE-79, "DRIVER SIDE : Component Function Check". Is the inspection result normal? YES >> GO TO 9. NO >> Repair or replace the malfunctioning parts. 9.confirm the operation Check the operation again. Refer to SE-11, "POWER WALK-IN FUNCTION : System Description". Is the result normal? YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident". NO >> Replace driver seat control unit. Refer to SE-180, "Removal and Installation". PASSENGER SIDE PASSENGER SIDE : Diagnosis Procedure INFOID:000000007472104 1. CHECK SEAT SLIDING OPERATION Check seat sliding operation. Is the inspection result normal? YES >> GO TO 2. NO >> Refer to SE-139, "PASSENGER SIDE : Diagnosis Procedure". 2.PERFORM INITIALIZATION PROCEDURE 1 Perform initialization procedure. Refer to SE-8, "SYSTEM INITIALIZATION : Special Repair Requirement". 2. Check power walk-in function. Refer to SE-11, "POWER WALK-IN FUNCTION : System Description". Is the inspection result normal? YES >> Power walk-in function is normal. NO >> GO TO 3. ${f 3.}$ CHECK POWER WALK-IN SWITCH Check power walk-in switch. Refer to SE-74, "PASSENGER SIDE : Component Function Check". Is the inspection result normal? YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts. **4.**CHECK SEAT BELT BUCKLE SWITCH Check seat belt buckle switch. Refer to SE-66, "PASSENGER SIDE : Component Function Check". Is the inspection result normal? YES >> GO TO 5. NO >> Repair or replace the malfunctioning parts. 5.CHECK FORWARD SWITCH Check forward switch. Refer to SE-62, "PASSENGER SIDE : Component Function Check". Is the inspection result normal? YES >> GO TO 6. NO >> Repair or replace the malfunctioning parts. **6.**CHECK SLIDING LIMIT SWITCH Check sliding limit switch.

Refer to <u>SE-70. "PASSENGER SIDE : Component Function Check"</u>.

Is the inspection result normal?

POWER WALK-IN FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >	
YES >> GO TO 7. NO >> Repair or replace the malfunctioning parts.	A
7. CHECK PASSENGER SIDE DOOR SWITCH	
Check passenger side door switch. Refer to <u>SE-77, "Component Function Check"</u>	В
Is the inspection result normal?	
YES >> GO TO 8. NO >> Repair or replace the malfunctioning parts.	С
8. CHECK SLIDING SENSOR	
Check sliding sensor. Refer to <u>SE-79, "DRIVER SIDE : Component Function Check"</u> .	D
Is the inspection result normal?	
YES >> GO TO 9. NO >> Repair or replace the malfunctioning parts.	E
9. CONFIRM THE OPERATION	
Check the operation again. Refer to <u>SE-11, "POWER WALK-IN FUNCTION : System Description"</u> .	—— F
Is the result normal?	G
 YES >> Check intermittent incident. Refer to <u>GI-43, "Intermittent Incident"</u>. NO >> Replace passenger seat control unit. Refer to <u>SE-181, "Removal and Installation"</u>. 	0
	Н

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< SYMPTOM DIAGNOSIS >

HEATED SEAT DOES NOT OPERATE BOTH SIDES

BOTH SIDES : Diagnosis Procedure

INFOID:000000007472105

1.CHECK HEATED SEAT SWITCH POWER SUPPLY

Check heated seat switch power supply. Refer to <u>SE-38, "HEATED SEAT SWITCH : Diagnosis Procedure"</u>.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK HEATED SEAT RELAY

Check heated seat relay. Refer to <u>SE-104, "Component Function Check"</u>.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

 ${f 3.}$ CHECK HEATED SEAT CONTROL UNIT POWER SUPPLY AND GROUND CIRCUIT

Check heated seat switch power supply and ground circuit. Refer to <u>SE-36, "HEATED SEAT CONTROL UNIT : Diagnosis Procedure"</u>.

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to <u>GI-43, "Intermittent Incident"</u>.

NO >> GO TO 1.

DRIVER SIDE

DRIVER SIDE : Diagnosis Procedure

INFOID:000000007472106

1.CHECK HEATED SEAT SWITCH POWER SUPPLY

Check heated seat switch power supply.

Refer to <u>SE-38. "HEATED SEAT SWITCH : Diagnosis Procedure"</u>.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK HEATED SEAT CONTROL UNIT POWER SUPPLY AND GROUND CIRCUIT

Check heated seat switch power supply and ground circuit.

Refer to SE-36. "HEATED SEAT CONTROL UNIT : Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK HEATED SEAT SWITCH

Check heated seat switch.

Refer to <u>SE-100</u>, "DRIVER SIDE : Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

HEATED SEAT DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >	
4.CHECK SEAT CUSHION HEATER	Δ
Check seat cushion heater.	A
Refer to <u>SE-111, "DRIVER SIDE : Component Function Check"</u> . <u>Is the inspection result normal?</u>	
YES >> GO TO 5.	В
NO >> Repair or replace the malfunctioning parts.	
5.CONFIRM THE OPERATION	С
Confirm the operation again.	
<u>Is the inspection result normal?</u> YES >> Check intermittent incident. Refer to <u>GI-43, "Intermittent Incident"</u> .	D
NO >> GO TO 1.	
PASSENGER SIDE	Е
PASSENGER SIDE : Diagnosis Procedure	
1.CHECK HEATED SEAT SWITCH POWER SUPPLY	F
Check heated seat switch power supply.	
Refer to SE-38, "HEATED SEAT SWITCH : Diagnosis Procedure".	G
<u>Is the inspection result normal?</u> YES >> GO TO 2.	0
NO >> Repair or replace the malfunctioning parts.	
2.CHECK HEATED SEAT CONTROL UNIT POWER SUPPLY AND GROUND CIRCUIT	Н
Check heated seat switch power supply and ground circuit. Refer to <u>SE-36</u> , "HEATED SEAT CONTROL UNIT : Diagnosis Procedure".	
Is the inspection result normal?	
YES >> GO TO 3.	
NO >> Repair or replace the malfunctioning parts.	SE
3.CHECK HEATED SEAT SWITCH	
Check heated seat switch. Refer to <u>SE-101, "PASSENGER SIDE : Component Function Check"</u> .	Κ
Is the inspection result normal?	
YES >> GO TO 4.	L
NO >> Repair or replace the malfunctioning parts. 4. CHECK SEAT CUSHION HEATER	
Check seat cushion heater.	Μ
Refer to <u>SE-112, "PASSENGER SIDE : Component Function Check"</u> .	IVI
Is the inspection result normal?	
YES >> GO TO 5. NO >> Repair or replace the malfunctioning parts.	Ν
5. CONFIRM THE OPERATION	
Confirm the operation again.	0
Is the inspection result normal?	
YES >> Check intermittent incident. Refer to <u>GI-43, "Intermittent Incident"</u> . NO >> GO TO 1.	Ρ

SEATBACK HEATER ONLY DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

SEATBACK HEATER ONLY DOES NOT OPERATE DRIVER SIDE

INFOID:000000007472108

INFOID:000000007472109

1.CHECK SEATBACK HEATER

Check seatback heater. Refer to <u>SE-115, "DRIVER SIDE : Component Function Check"</u>.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.confirm the operation

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to <u>GI-43, "Intermittent Incident"</u>.

NO >> GO TO 1.

PASSENGER SIDE

PASSENGER SIDE : Diagnosis Procedure

1.CHECK SEATBACK HEATER

Check seatback heater. Refer to <u>SE-115, "PASSENGER SIDE : Component Function Check"</u>.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to <u>GI-43, "Intermittent Incident"</u>.

NO >> GO TO 1.

CANNOT ADJUST HEATED SEAT TEMPERATURE	
<u>< SYMPTOM DIAGNOSIS ></u> CANNOT ADJUST HEATED SEAT TEMPERATURE DRIVER SIDE	
DRIVER SIDE : Diagnosis Procedure	INFOID:000000007472110
1. CHECK HEATED SEAT SWITCH	
Check heated seat switch. Refer to SE-100, "DRIVER SIDE : Component Function Check". Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2.CHECK HEAT SENSOR	
Z. CHECK HEAT SENSOR Check heat sensor. Refer to SE-106, "DRIVER SIDE : Description". Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts. 3.CONFIRM THE OPERATION	
Confirm the operation again. Is the inspection result normal? YES >> Check intermittent incident. Refer to <u>GI-43, "Intermittent Incident"</u> . NO >> Replace heated seat control unit. Refer to <u>SE-182, "Removal and Installation"</u> . PASSENGER SIDE	
PASSENGER SIDE : Diagnosis Procedure	INFOID:000000007472111
1.CHECK HEATED SEAT SWITCH Check heated seat switch. Refer to <u>SE-101, "PASSENGER SIDE : Component Function Check"</u> . <u>Is the inspection result normal?</u> YES >> GO TO 2.	
NO >> Repair or replace the malfunctioning parts. 2.CHECK HEAT SENSOR	
Check heat sensor. Refer to <u>SE-108</u> , "PASSENGER SIDE : Diagnosis Procedure". <u>Is the inspection result normal?</u> YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts.	
3. CONFIRM THE OPERATION	
Confirm the operation again. Is the inspection result normal? YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident". NO >> Replace heated seat control unit. Refer to SE-182, "Removal and Installation".	
-,	

HEATED SEAT SWITCH INDICATOR DOES NOT TURN ON

< SYMPTOM DIAGNOSIS >

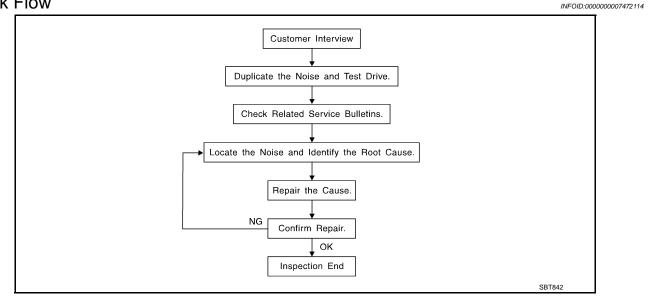
HEATED SEAT SWITCH INDICATOR DOES NOT TURN ON DRIVER SIDE

DRIVER SIDE : Diagnosis Procedure	INFOID:000000007472112
1.CHECK HEATED SEAT SWITCH INDICATOR	
Check heated seat switch indicator. Refer to <u>SE-117, "DRIVER SIDE : Component Function Check"</u> .	
Is the inspection result normal?	
YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts.	
2.CONFIRM THE OPERATION	
Confirm the operation again.	
Is the inspection result normal?	
YES >> Check intermittent incident. Refer to <u>GI-43, "Intermittent Incident"</u> .	
NO >> GO TO 1. PASSENGER SIDE	
FASSENGER SIDE	
DASSENCED SIDE : Diagnosis Dropoduro	
PASSENGER SIDE : Diagnosis Procedure	INFOID:000000007472113
1.CHECK HEATED SEAT SWITCH INDICATOR	INFOID:000000007472113
1.CHECK HEATED SEAT SWITCH INDICATOR Check heated seat switch indicator.	INFOID:000000007472113
1.CHECK HEATED SEAT SWITCH INDICATOR Check heated seat switch indicator. Refer to <u>SE-117, "PASSENGER SIDE : Component Function Check"</u> .	INFOID:000000007472113
1.CHECK HEATED SEAT SWITCH INDICATOR Check heated seat switch indicator. Refer to <u>SE-117, "PASSENGER SIDE : Component Function Check"</u> . Is the inspection result normal?	INFOID:000000007472113
1.CHECK HEATED SEAT SWITCH INDICATOR Check heated seat switch indicator. Refer to <u>SE-117, "PASSENGER SIDE : Component Function Check"</u> . Is the inspection result normal? YES >> GO TO 2.	INFOID:000000007472113
1.CHECK HEATED SEAT SWITCH INDICATOR Check heated seat switch indicator. Refer to SE-117, "PASSENGER SIDE : Component Function Check". Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts.	INFOID:000000007472113
$\label{eq:1.1} \begin{array}{l} 1. \text{CHECK HEATED SEAT SWITCH INDICATOR} \\ \hline \text{Check heated seat switch indicator.} \\ \text{Refer to } \underline{\text{SE-117, "PASSENGER SIDE : Component Function Check".}} \\ \hline \text{Is the inspection result normal?} \\ \hline \text{YES} & >> \text{GO TO 2.} \\ \hline \text{NO} & >> \text{Repair or replace the malfunctioning parts.} \\ \hline 2. \text{CONFIRM THE OPERATION} \end{array}$	INFOID:000000007472113
1.CHECK HEATED SEAT SWITCH INDICATOR Check heated seat switch indicator. Refer to SE-117, "PASSENGER SIDE : Component Function Check". Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2.CONFIRM THE OPERATION Confirm the operation again.	INFOID:000000007472113
1.CHECK HEATED SEAT SWITCH INDICATOR Check heated seat switch indicator. Refer to SE-117, "PASSENGER SIDE : Component Function Check". Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2.CONFIRM THE OPERATION Confirm the operation again. Is the inspection result normal?	INFOID:000000007472113
1.CHECK HEATED SEAT SWITCH INDICATOR Check heated seat switch indicator. Refer to SE-117, "PASSENGER SIDE : Component Function Check". Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2.CONFIRM THE OPERATION Confirm the operation again.	INFOID:000000007472113
1.CHECK HEATED SEAT SWITCH INDICATOR Check heated seat switch indicator. Refer to SE-117, "PASSENGER SIDE : Component Function Check". Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2.CONFIRM THE OPERATION Confirm the operation again. Is the inspection result normal? YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".	INFOID:000000007472113

< SYMPTOM DIAGNOSIS >

SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow



CUSTOMER INTERVIEW

Interview the customer if possible, to determine the conditions that exist when the noise occurs. Use the Diagnostic Worksheet during the interview to document the facts and conditions when the noise occurs and any of customer's comments; refer to <u>SE-157</u>, "Diagnostic Worksheet". This information is necessary to duplicate the conditions that exist when the noise occurs.

- The customer may not be able to provide a detailed description or the location of the noise. Attempt to obtain all the facts and conditions that exist when the noise occurs (or does not occur).
- If there is more than one noise in the vehicle, perform a diagnosis and repair the noise that the customer is concerned about. This can be accomplished by performing a cruise test on the vehicle with the customer.
- After identifying the type of noise, isolate the noise in terms of its characteristics. The noise characteristics SE are provided so the customer, service adviser and technician are all speaking the same language when defining the noise.
- Squeak (Like tennis shoes on a clean floor)
 Squeak characteristics include the light contact/fast movement/brought on by road conditions/hard surfaces
 a higher pitch noise/softer surfaces = lower pitch noises/edge to surface = chirping
- Creak (Like walking on an old wooden floor)
 Creak characteristics include firm contact/slow movement/twisting with a rotational movement/pitch dependent on materials/often brought on by activity.
- Rattle (Like shaking a baby rattle) Rattle characteristics include the fast repeated contact/vibration or similar movement/loose parts/missing clip or fastener/incorrect clearance.
- Knock (Like a knock on a door)
 Knock characteristics include hollow sounding/sometimes repeating/often brought on by driver action.
- Tick (Like a clock second hand)
 Tick characteristics include gentle contacting of light materials/loose components/can be caused by driver action or road conditions.
- Thump (Heavy, muffled knock noise) Thump characteristics include softer knock/dead sound often brought on by activity.
- Buzz (Like a bumblebee)
 Buzz characteristics include high frequency rattle/firm contact.
- Often the degree of acceptable noise level will vary depending up on the person. A noise that a technician may judge as acceptable may be very irritating to the customer.
- Weather conditions, especially humidity and temperature, may have a great effect on noise level.

DUPLICATE THE NOISE AND TEST DRIVE

If possible, drive the vehicle with the customer until the noise is duplicated. Note any additional information on the Diagnostic Worksheet regarding the conditions or location of the noise. This information can be used to duplicate the same conditions when the repair is reconfirmed.

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< SYMPTOM DIAGNOSIS >

If the noise can be duplicated easily during the test drive, to help identify the source of the noise, try to duplicate the noise with the vehicle stopped by doing one or all of the following:

- 1) Close a door.
- 2) Tap or push/pull around the area where the noise appears to be coming from.
- 3) Rev the engine.
- 4) Use a floor jack to recreate vehicle "twist".
- 5) At idle, apply engine load (electrical load, half-clutch on M/T models, drive position on A/T models).
- 6) Raise the vehicle on a hoist and hit a tire with a rubber hammer.
- Drive the vehicle and attempt to duplicate the conditions the customer states exist when the noise occurs.
- If it is difficult to duplicate the noise, drive the vehicle slowly on an undulating or rough road to stress the vehicle body.

CHECK RELATED SERVICE BULLETINS

After verifying the customer concern or symptom, check ASIST for Technical Service Bulletins (TSBs) related to that concern or symptom.

If a TSB relates to the symptom, follow the procedure to repair the noise.

LOCATE THE NOISE AND IDENTIFY THE ROOT CAUSE

- 1. Narrow down the noise to a general area. To help pinpoint the source of the noise, use a listening tool (Chassis ear: J-39570, Engine ear and mechanics stethoscope).
- 2. Narrow down the noise to a more specific area and identify the cause of the noise by:
- Removing the components in the area that is are suspected to be the cause of the noise. Do not use too much force when removing clips and fasteners, otherwise clips and fastener can be broken or lost during the repair, resulting in the creation of new noise.
- Tapping or pushing/pulling the component that is are suspected to be the cause of the noise. Do not tap or push/pull the component with excessive force, otherwise the noise will be eliminated only temporarily.
- Feeling for a vibration by hand by touching the component(s) that is are suspected to be the cause of the noise.
- Placing a piece of paper between components that are suspected to be the cause of the noise.
- Looking for loose components and contact marks. Refer to <u>SE-155</u>, "Inspection Procedure".

REPAIR THE CAUSE

- If the cause is a loose component, tighten the component securely.
- If the cause is insufficient clearance between components:
- Separate components by repositioning or loosening and retightening the component, if possible.
- Insulate components with a suitable insulator such as urethane pads, foam blocks, felt cloth tape or urethane tape. A Nissan Squeak and Rattle Kit (J-43980) is available through the authorized Nissan Parts Department.

CAUTION:

Never use excessive force as many components are constructed of plastic and may be damaged. NOTE:

Always check with the Parts Department for the latest parts information.

The following materials are contained in the Nissan Squeak and Rattle Kit (J-43980). Each item can be ordered separately as needed.

URETHANE PADS [1.5 mm (0.059 in) thick]

Insulates connectors, harness, etc.

76268-9E005: 100 \times 135 mm (3.94 \times 5.31 in)/76884-71L01: 60 \times 85 mm (2.36 \times 3.35 in)/76884-71L02:15 \times 25 mm (0.59 \times 0.98 in)

INSULATOR (Foam blocks)

Insulates components from contact. Can be used to fill space behind a panel.

73982-9E000: 45 mm (1.77 in) thick, 50×50 mm (1.97 \times 1.97 in)/73982-

50Y00: 10 mm (0.39 in) thick, 50×50 mm (1.97 \times 1.97 in)

INSULATOR (Light foam block)

80845-71L00: 30 mm (1.18 in) thick, 30×50 mm (1.18 \times 1.97in)

FELT CLOTHTAPE

Used to insulate where movement does not occur. Ideal for instrument panel applications. 68370-4B000: 15 \times 25 mm (0.59 \times 0.98 in) pad/68239-13E00: 5 mm (0.20 in) wide tape roll

The following materials, not found in the kit, can also be used to repair squeaks and rattles. UHMW (TEFLON) TAPE

< S	YMPTOM DIAGNOSIS >	
	ulates where slight movement is present. Ideal for instrument panel applications.	
Use	ICONE GREASE ed in place of UHMW tape that is be visible or does not fit. Will only last a few months. ICONE SPRAY	A
Use	ed when grease cannot be applied.	В
	CT TAPE ed to eliminate movement.	D
	INFIRM THE REPAIR	
	nfirm that the cause of a noise is repaired by test driving the vehicle. Operate the vehicle under the same	С
	nditions as when the noise originally occurred. Refer to the notes on the Diagnostic Worksheet.	
Ins	spection Procedure	D
Ref	fer to Table of Contents for specific component removal and installation information.	
INS	STRUMENT PANEL	Е
Mo	st incidents are caused by contact and movement between:	
1.	The cluster lid A and instrument panel	_
2.	Acrylic lens and combination meter housing	F
3.	Instrument panel to front pillar garnish	
4.	Instrument panel to windshield	G
5.	Instrument panel mounting pins	0
6.	Wiring harnesses behind the combination meter	
7.	A/C defroster duct and duct joint These incidents can usually be located by tapping or moving the components to duplicate the noise or by	Н
	pressing on the components while driving to stop the noise. Most of these incidents can be repaired by	
	applying felt cloth tape or silicon spray (in hard to reach areas). Urethane pads can be used to insulate wiring harness. CAUTION:	I
	Never use silicone spray to isolate a squeak or rattle. If the area is saturated with silicone, the recheck of repair becomes impossible.	SE
CF	NTER CONSOLE	ΟL
-	mponents to pay attention to include:	
1.	Shifter assembly cover to finisher	Κ
2.	A/C control unit and cluster lid C	
3.	Wiring harnesses behind audio and A/C control unit	
The	e instrument panel repair and isolation procedures also apply to the center console.	L
DO	ORS	
Pay	y attention to the following:	M
1.	Finisher and inner panel making a slapping noise	
2.	Inside handle escutcheon to door finisher	
3.	Wiring harnesses tapping	Ν
4.	Door striker out of alignment causing a popping noise on starts and stops	
ma	pping or moving the components or pressing on them while driving to duplicate the conditions can isolate ny of these incidents. The areas can usually be insulated with felt cloth tape or insulator foam blocks from Nissan Squeak and Rattle Kit (J-43980) to repair the noise.	0
TR	UNK	_
	nk noises are often caused by a loose jack or loose items put into the trunk by the customer. addition look for the following:	Ρ
1.	Trunk lid dumpers out of adjustment	
2.	Trunk lid striker out of adjustment	

- 3. The trunk lid torsion bars knocking together
- 4. A loose license plate or bracket

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Most of these incidents can be repaired by adjusting, securing or insulating the item(s) or component(s) causing the noise.

SUNROOF/HEADLINING

Noises in the sunroof/headlining area can often be traced to one of the following:

- 1. Sunroof lid, rail, linkage or seals making a rattle or light knocking noise
- 2. Sunvisor shaft shaking in the holder
- 3. Front or rear windshield touching headlining and squeaking

Again, pressing on the components to stop the noise while duplicating the conditions can isolate most of these incidents. Repairs usually consist of insulating with felt cloth tape.

SEATS

When isolating seat noise it's important to note the position the seats in and the load placed on the seat when the noise occurs. These conditions should be duplicated when verifying and isolating the cause of the noise. Cause of seat noise include:

- 1. Headrest rods and holder
- 2. A squeak between the seat pad cushion and frame
- 3. The rear seatback lock and bracket

These noises can be isolated by moving or pressing on the suspected components while duplicating the conditions under which the noise occurs. Most of these incidents can be repaired by repositioning the component or applying urethane tape to the contact area.

UNDERHOOD

Some interior noise may be caused by components under the hood or on the engine wall. The noise is then transmitted into the passenger compartment.

Causes of transmitted underhood noise include:

- 1. Any component mounted to the engine wall
- 2. Components that pass through the engine wall
- 3. Engine wall mounts and connectors
- 4. Loose radiator mounting pins
- 5. Hood bumpers out of adjustment
- 6. Hood striker out of adjustment

These noises can be difficult to isolate since they cannot be reached from the interior of the vehicle. The best method is to secure, move or insulate one component at a time and test drive the vehicle. Also, engine RPM or load can be changed to isolate the noise. Repairs can usually be made by moving, adjusting, securing, or insulating the component causing the noise.

< SYMPTOM DIAGNOSIS >

Diagnostic Worksheet



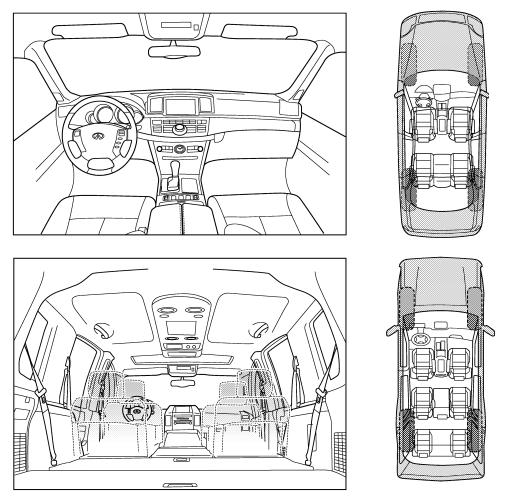
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

Dear Infiniti Customer:

We are concerned about your satisfaction with your Infiniti vehicle. Repairing a squeak or rattle sometimes can be very difficult. To help us fix your Infiniti right the first time, please take a moment to note the area of the vehicle where the squeak or rattle occurs and under what conditions. You may be asked to take a test drive with a service consultant or technician to ensure we confirm the noise you are hearing.

I. WHERE DOES THE NOISE COME FROM? (circle the area of the vehicle)

The illustrations are for reference only, and may not reflect the actual configuration of your vehicle.



Continue to page 2 of the worksheet and briefly describe the location of the noise or rattle. In addition, please indicate the conditions which are present when the noise occurs.

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< SYMPTOM DIAGNOSIS >

SQUEAK & RATTLE DIAGNOSTIC WORKSHEET - page 2

Briefly describe the location where the noise occurs:

II. WHEN DOES IT OCCUR? (please check the boxes that apply)				
 anytime 1st time in the morning only when it is cold outside only when it is hot outside 	 after sitting out in the rain when it is raining or wet dry or dusty conditions other: 			
III. WHEN DRIVING:	IV. WHAT TYPE OF NOISE			
 through driveways over rough roads over speed bumps only about mph on acceleration coming to a stop on turns: left, right or either (circle) with passengers or cargo other: after driving miles or minu 	 squeak (like tennis shoes on a clean floor) creak (like walking on an old wooden floor) rattle (like shaking a baby rattle) knock (like a knock at the door) tick (like a clock second hand) thump (heavy, muffled knock noise) buzz (like a bumble bee) 			

TO BE COMPLETED BY DEALERSHIP PERSONNEL

Test Drive Notes:

	YES	NO	Initials of person performing
Vehicle test driven with customer - Noise verified on test drive - Noise source located and repaired - Follow up test drive performed to confirm repair			
		me:	

< PRECAUTION > PRECAUTION PRECAUTIONS

Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the "SRS AIR BAG" and "SEAT BELT" of this Service Manual.

WARNING:

Always observe the following items for preventing accidental activation.

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see "SRS AIR BAG".
- Never use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

PRECAUTIONS WHEN USING POWER TOOLS (AIR OR ELECTRIC) AND HAMMERS

WARNING:

Always observe the following items for preventing accidental activation.

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, never use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.

Precaution for Battery Service

Before disconnecting the battery, lower both the driver and passenger windows. This will prevent any interference between the window edge and the vehicle when the door is opened/closed. During normal operation, the window slightly raises and lowers automatically to prevent any window to vehicle interference. The automatic window function will not work with the battery disconnected.

Service Notice

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- When removing or installing various parts, place a cloth or padding onto the vehicle body to prevent scratches.
- Handle trim, molding, instruments, grille, etc. carefully during removing or installing. Be careful not to oil or damage them.
- Apply sealing compound where necessary when installing parts.
- When applying sealing compound, be careful that the sealing compound does not protrude from parts.
- When replacing any metal parts (for example body outer panel, members, etc.), be sure to take rust prevention measures.

Precaution for Work

- When removing or disassembling each component, be careful not to damage or deform it. If a component may be subject to interference, be sure to protect it with a shop cloth.
- When removing (disengaging) components with a screwdriver or similar tool, be sure to wrap the component with a shop cloth or vinyl tape to protect it.
- Protect the removed parts with a shop cloth and keep them.

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PRECAUTIONS

< PRECAUTION >

- Replace a deformed or damaged clip.
- If a part is specified as a non-reusable part, always replace it with new one.
- Be sure to tighten bolts and nuts securely to the specified torque.
- After re-installation is completed, be sure to check that each part works normally.
- Follow the steps below to clean components.
- Water soluble foul: Dip a soft cloth into lukewarm water, and wring the water out of the cloth to wipe the fouled area.
 - Then rub with a soft and dry cloth.
- Oily foul: Dip a soft cloth into lukewarm water with mild detergent (concentration: within 2 to 3%), and wipe the fouled area.

Then dip a cloth into fresh water, and wring the water out of the cloth to wipe the detergent off. Then rub with a soft and dry cloth.

- Do not use organic solvent such as thinner, benzene, alcohol, and gasoline.
- For genuine leather seats, use a genuine leather seat cleaner.

PREPARATION

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PREPARATION PREPARATION

Special Service Tool

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The actual shapes of Kent-Moore tools may differ from those of special service tools illustrated here.

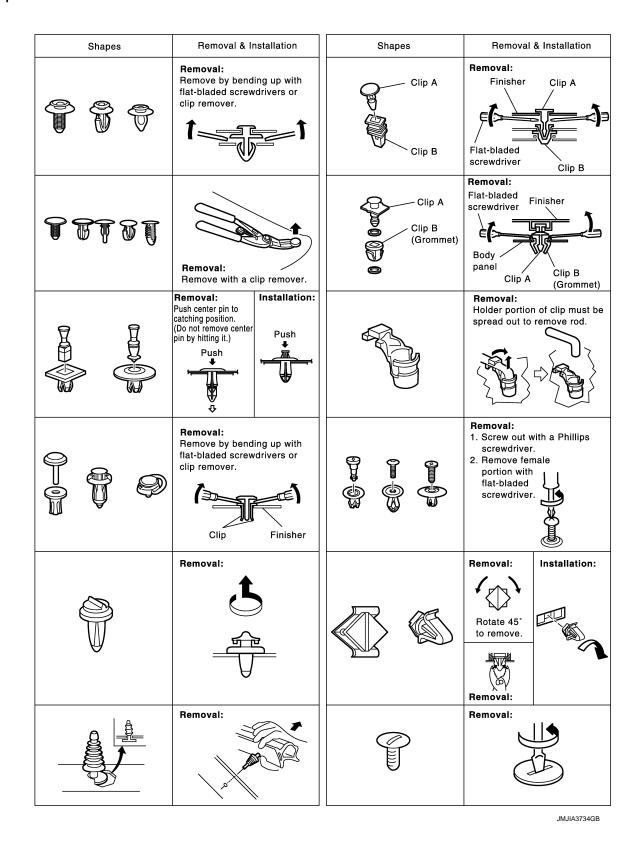
Tool number (Kent-Moore No.) Tool name		Description	
(J39570) Chassis ear	SIIA0993E	Locates the noise	D E
(J43980) NISSAN Squeak and Rattle Kit	SIIA0994E	Repairs the cause of noise	G
Commercial Service Too	Ι	INFOID:00000007472122	I
Т	ool name	Description	SE

Tool name		Description	
Engine ear	SIIA0995E	Locates the noise	L SE
Remover tool	JMKIA3050ZZ	Removes the clips, pawls and metal clips	M
Hook and pick tool	JMJIA0490ZZ	Removes the snap pins	P

< PREPARATION > CLIP LIST

Clip List

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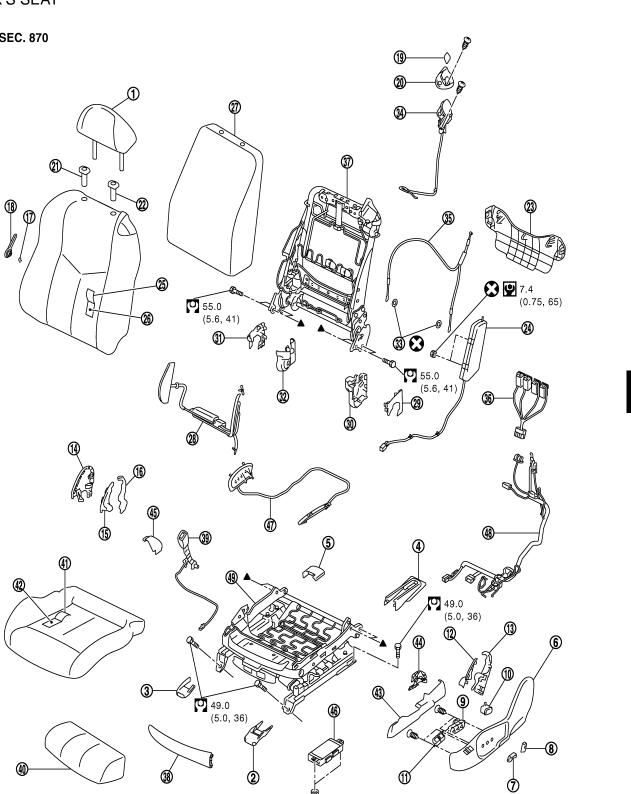
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REMOVAL AND INSTALLATION FRONT SEAT

Exploded View

DRIVER'S SEAT

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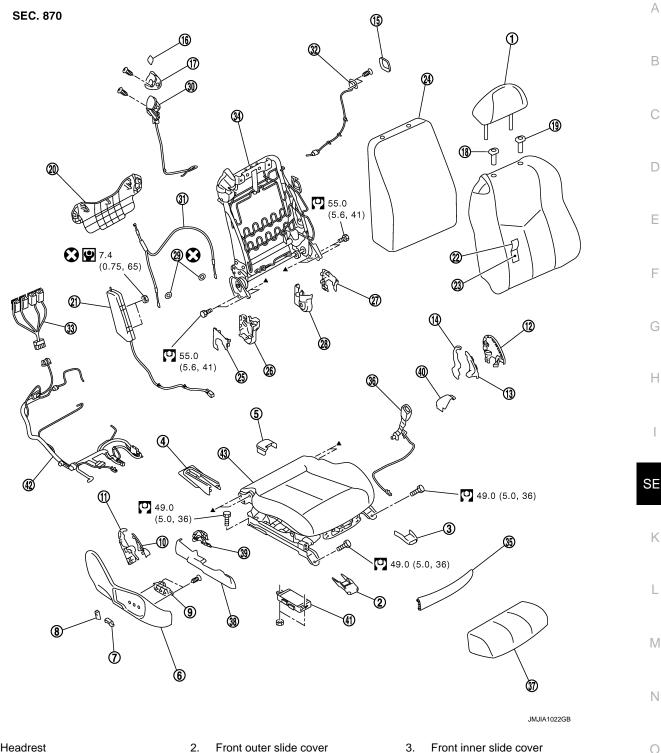
< REMOVAL AND INSTALLATION >

1.	Headrest	2.	Front outer slide cover
4.	Rear outer slide cover	5.	Rear inner slide cover
7.	Seat slide and lifter switch knob	8.	Seat reclining switch knob
10.	Lumbar support switch	11.	Side support switch
13.	Seat cushion outer finisher inside (rear)	14.	Seat cushion inner finisher
16.	Seat cushion inner finisher inside (rear)	17.	Snap ring
19.	Walk-in lever cap	20.	Walk-in lever upper escutcheon
22.	Headrest holder (locked)	23.	Seatback lower panel
25.	Seatback trim	26.	Seatback pad
28.	Seatback side support bag and unit	29.	Reclining device outer cover (out- side)
31.	Reclining device inner cover (out- side)	32.	Reclining device inner cover (inside
34.	Walk-in lever	35.	Reclining device wire
37.	Seatback frame	38.	Seat cushion front finisher
40.	Seat cushion pad (front)	41.	Seat cushion trim
43.	Seat slide outer finisher (outside)	44.	Seat slide outer finisher (inside)
46.	Seat control unit	47.	Seat cushion side support bag
49.	Seat cushion frame		
Refe	er to <u>GI-4, "Components"</u> for symbols i	n the	figure.

PASSENGER'S SEAT

3.	Front	inner	slide	cover
J.	1 IOIII		Silue	COVEL

- 6. Seat cushion outer finisher
- 9. Seat control switch
- 12. Seat cushion outer finisher inside (front)
- 15. Seat cushion inner finisher inside (front)
- 18. Lumbar support lever knob
- 21. Headrest holder (free)
- 24. Side air bag module
- 27. Seatback silencer
- 30. Reclining device outer cover (inside)
- ver (inside) 33. Push nut
 - 36. Reclining and slide relay
 - 39. Seat belt buckle
 - 42. Seat cushion pad
 - 45. Seat slide inner finisher
 - 48. Seat harness



- 1. Headrest
- Rear outer slide cover 4.
- Seat slide and lifter switch knob 7.
- 10. Seat cushion outer finisher inside (front)
- 13. Seat cushion inner finisher inside (front)
- 16. Walk-in lever cap
- 19. Headrest holder (locked)
- 22. Seatback trim

- 2. Front outer slide cover
- 5. Rear inner slide cover
- Seat reclining switch knob 8.
- 11. Seat cushion outer finisher inside (rear)
- 14. Seat cushion inner finisher inside (rear)
- 17. Walk-in lever upper escutcheon
- 20. Seatback lower panel
- 23. Seatback pad

- Front inner slide cover Seat cushion outer finisher Seat control switch
- Seat cushion inner finisher 12. Ρ
- 15. Slide switch escutcheon
- 18. Headrest holder (free)
- 21. Side air bag module
- 24. Seatback silencer

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< REMOVAL AND INSTALLATION >

- 25. Reclining device outer cover (outside)
- 28. Reclining device inner cover (inside) 29. Push nut
- 31. Reclining device wire
- 34. Seatback frame
- 37. Seat cushion pad (front)
- 40. Seat slide inner finisher
- 43. Seat cushion assembly

Refer to GI-4, "Components" for symbols in the figure.

Removal and Installation

REMOVAL

CAUTION:

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When removing and installing, use shop cloths to protect parts from damage.

- Remove the headrest. 1.
- Remove the front slide cover.
- Front outer slide cover a.
 - Slide the seat to the rearmost position.

• Slide the seat to the rearmost position.

• Pull up the front edge of the front slide cover to release the pawls.

• Pull up the front edge of the front slide cover to release the

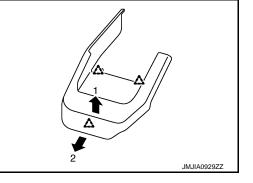
Slide the front slide cover forward to release the pawls.

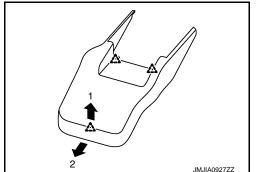
2 : Pawl

Front inner slide cover

pawls.

1 : Pawl



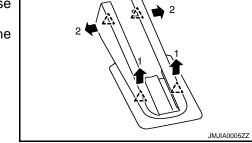


Remove the mounting bolts on the front side of the front seat.

· Slide the front slide cover forward to release the pawls.

- 4. Remove the rear slide cover.
- Rear outer slide cover a.
 - Slide the seat to the foremost position.
 - Pull up the rear edge of the rear outer slide cover to release the pawls.
 - Open the front end of the rear outer slide cover to release the pawls.

∠____: Pawl



- 26. Reclining device outer cover (inside) 27. Reclining device inner cover (outside)
 - 30. Walk-in lever
 - 33. Reclining and slide relay
 - 36. Seat belt buckle
 - 39. Seat slide outer finisher (inside)
 - 42. Seat harness

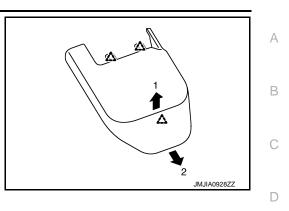
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- 32. Slide switch (seatback) 35. Seat cushion front finisher
- 38. Seat slide outer finisher (outside)
- 41. Seat control unit

< REMOVAL AND INSTALLATION >

- b. Rear inner slide cover
 - Slide the seat to the foremost position.
 - Pull up the rear edge of the rear inner slide cover to release the pawls.
 - Slide the rear inner slide cover rearward to release the pawls.

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- 5. Remove the mounting bolts on the rear side of the front seat.
- 6. Set seatback in a standing position.
- Disconnect harness connector under the seat and remove harness securing clips.
 CAUTION: Before removal, turn ignition switch OFF, disconnect battery negative terminal and then wait for at least 3 minutes.
- 8. Remove seat from the vehicle.

When removing and installing, use shop cloths to protect parts from damage.

INSTALLATION

CAUTION:

Install in the reverse order of removal.

CAUTION:

- Before installation, turn ignition switch OFF, disconnect battery negative terminal and then wait for at least 3 minutes.
- Clamp the harness in position.

NOTE:

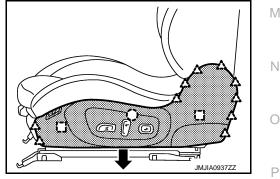
After installing the front seat, perform additional service when removing battery negative terminal.(With automatic drive positioner model) Refer to <u>ADP-9</u>, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGA-<u>TIVE TERMINAL : Special Repair Requirement</u>". (Without automatic drive positioner model) Refer to <u>SE-8</u>, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement".

Disassembly and Assembly

SEATBACK

Disassembly

- 1. Remove the seat cushion outer finisher.
 - Remove the metal clips, clips and pawls, and then pull out seat cushion outer finisher.
 - (]) : Clip []] : Metal clip
 - 八 : Pawl
 - Disconnect the seat control switch, lumbar support switch and side support switch harness connector.

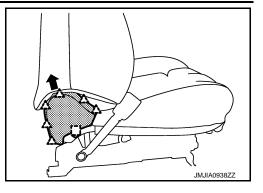


• Remove the seat cushion outer finisher inside (front, rear).

< REMOVAL AND INSTALLATION >

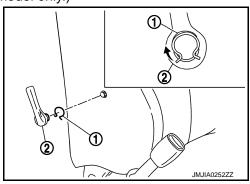
- 2. Remove the seat cushion inner finisher.
 - Remove the seat cushion inner finisher inside (front, rear) by releasing the metal clip and pull it up together with the cover.
 - Remove the seat cushion inner finisher inside (front, rear) from the seat cushion inner finisher by releasing the pawls.

[_]	: Metal clip
$\hat{\}$: Pawl



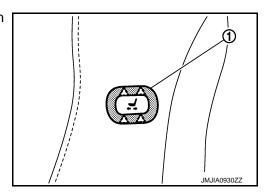
3. Remove the lumbar support lever knob.(Manual lumbar support model only.) Pull snap ring (1) upward, and remove lumbar support lever

knob (2) from seatback frame.Using a hook and pick tool.

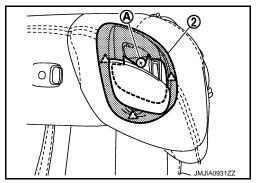


- 4. Remove the seatback trim and seatback pad.
 - Remove the pawls, and then pull out slide switch escutcheon (1).

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- Remove the walk-in lever cap.
- Remove the screw (A) and pawls, and then walk-in lever upper escutcheon (2).



2 : Pawl

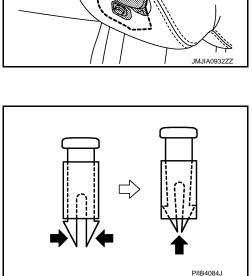
< REMOVAL AND INSTALLATION >

• Remove the screw (B), and then pull the seatback trim from the walk-in lever (3) and walk-in lever lower escutcheon.

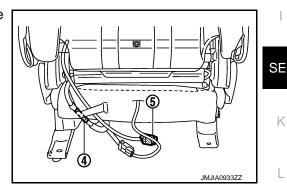
- Remove the seatback retainer, and then open the fastener.
- Remove the headrest holder. CAUTION:

Before installing headrest holder check its orientation. (front/rear and right/left)

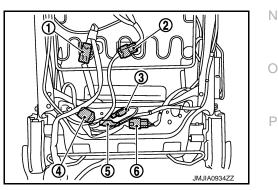
- Remove the seatback lower panel.
- Remove the side air bag module.
- Remove the side support hose joint (4) located backside the seat cushion.(Side support model only.)
- Disconnect the seatback heater unit harness connector (5).



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- Remove the seatback trim and seatback pad from the seatback frame.
- Remove the hog rings, and separate the seatback trim and seatback pad.
- Remove the seatback silencer.
- 6. Disconnect the harness connectors.
 - Disconnect the side support unit harness connector (1) and remove the harness clamp.(Side support model only.)
 - Disconnect the reclining and slide relay harness connector (2) and remove the harness clamp.
 - Disconnect the power walk-in switch harness connector (3).
 - Disconnect the forward switch harness connector (4).
 - Disconnect the lumbar support motor harness connector (5) and remove the harness clamp.(Power lumbar support model only.)
 - Disconnect the reclining motor harness connector (6) and remove the harness clamp.
 - · Disconnect the slide switch (seatback) harness connector. (Passenger's seat only)
- 7. Remove the side support bag and unit. (Side support model only.)



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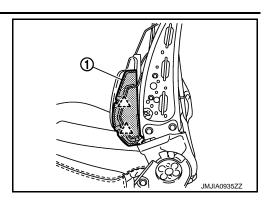
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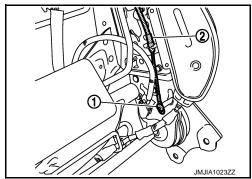
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< REMOVAL AND INSTALLATION >

- Remove the pawls, and then remove side support bag (1).
- Remove the side support unit.
 - : Pawl



- 8. Remove the seatback frame. Remove the seatback frame mounting bolt (A).
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- 9. Remove the reclining device outer cover (front, rear).
- 10. Remove the reclining device inner cover (front, rear).
- 11. Remove the reclining device wire.
 - Remove the push nut (1).
 - Remove the reclining device wire (2) from the seatback frame and walk-in lever.



12. Remove the walk-in lever.

Assembly

Assemble in the reverse order of disassembly.

CAUTION:

Install the hog rings of seatback trim in position, and then securely connect the trim or trim cord with the pad side wire.

SEAT CUSHION

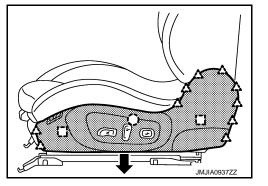
Disassembly

CAUTION:

- Never disassemble front passenger seat cushion assembly.
- Always replace as an assembly.
- For front passenger seat service parts, refer to the service part catalogue.
- 1. Remove the seat cushion outer finisher.

< REMOVAL AND INSTALLATION >

- Remove the metal clips, clips and pawls, and then pull out seat cushion outer finisher.
 - () : Clip
 - : Metal clip
 - 八 : Pawl



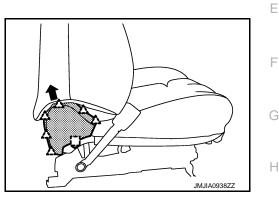
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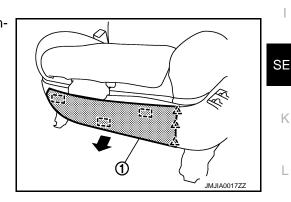
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- Disconnect the seat control switch, lumbar support switch and side support switch harness connector.
- Remove the seat cushion outer finisher inside (front, rear).
- 2. Remove the seat cushion inner finisher.
 - Remove the seat cushion inner finisher inside (front, rear) by releasing the metal clip and pull it up together with the cover.
 - Remove the seat cushion inner finisher inside (front, rear) from the seat cushion inner finisher by releasing the pawls.

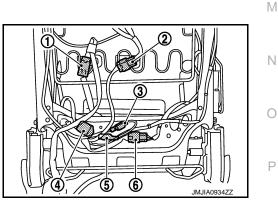
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	: Pawl



- Remove the seat cushion front finisher. Remove the metal clips, and then pull out seat cushion front finisher (1).
 - : Metal clip
 - 八:Pawl

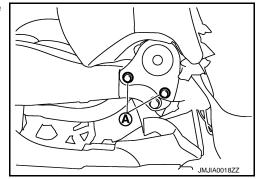


- 4. Remove the seatback assembly.
 - Remove the seatback lower panel.
 - Disconnect the side support unit harness connector (1) and remove the harness clamp.(Side support model only.)
 - Disconnect the reclining and slide relay harness connector (2) and remove the harness clamp.
 - Disconnect the power walk-in switch harness connector (3).
 - Disconnect the forward switch harness connector (4).
 - Disconnect the lumbar support motor harness connector (5) and remove the harness clamp.(Power lumbar support model only.)
 - Disconnect the reclining motor harness connector (6) and remove the harness clamp.
 - Disconnect the slide switch (seatback) harness connector. (Passenger's seat only)
 - Remove the side support hose joint located backside the seat cushion.(Side support model only.)
 - Remove the seat cushion retainer, and then side air bag harness clamp and seatback heater unit harness connector.

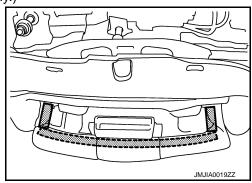


< REMOVAL AND INSTALLATION >

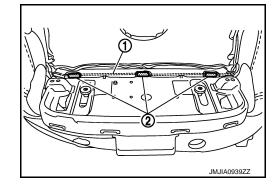
• Remove the seatback mounting bolts (A), and then remove the seatback assembly.



- 5. Remove the seat cushion pad (front). (Thigh extension model only.)
 - Remove the retainer.
 - Remove the seat cushion pad (front).



- 6. Remove the seat cushion trim and seat cushion pad.
 - Remove the seat cushion trim wire (1) from the hook (2).



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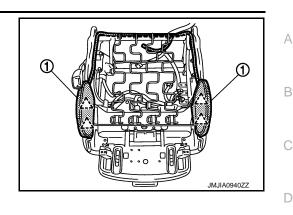
- Remove the seat cushion retainer.
- Disconnect the seat cushion heater unit harness connector.
- Remove the hog rings, and separate the seat cushion trim and seat cushion pad.
- 7. Remove the side support bag.(Side support model only.)

• Remove the clips (A).(Thigh extension model only.)

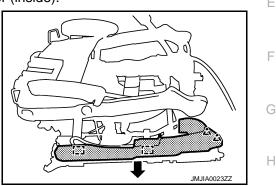
• Remove the hose clamp.

< REMOVAL AND INSTALLATION >

- Remove the pawls, and then remove side support bag (1).
 - 2 : Pawl



- Remove the seat slide outer finisher. 8.
 - Remove the metal clip and pawls, and then pull out seat slide outer finisher (outside).
 - Remove the metal clip, and then pull out seat slide outer finisher (inside).
 - : Metal clip



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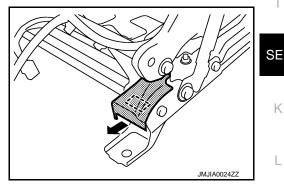
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- Remove the seat slide inner finisher. 9. Remove the metal clip, and then pull out seat slide inner finisher.
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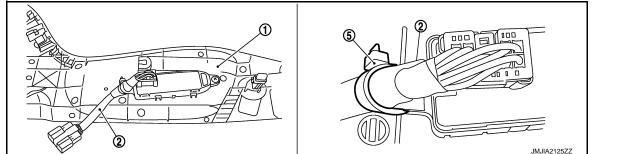


Assembly

Assemble in the reverse order of disassembly. 1. **CAUTION:**

Install the hog rings of seat cushion trim in position, and then securely connect the trim or trim cord with the pad side wire.

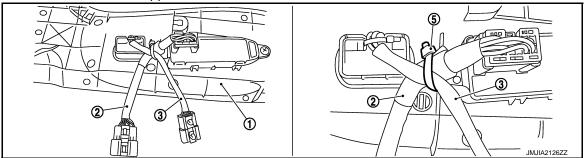
- 2. Front seat switch harness layout.
- Normal seat without lumbar support switch a.



Fix seat control harness (2) to seat cushion outer finisher (1) boss using a self locking band (5) as shown in the figure.

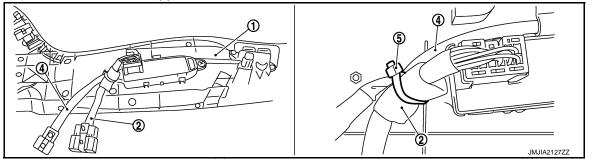
< REMOVAL AND INSTALLATION >

b. Normal seat with lumbar support switch



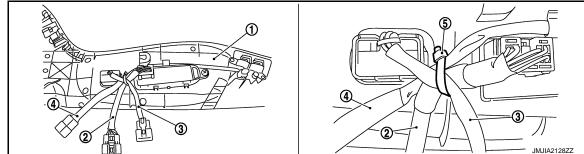
Locate lumbar support switch harness (3) in the forehand position, cross seat control harness (2), and fix to seat cushion outer finisher (1) boss using a self locking band (5) as shown in the figure.

c. Sport seat without lumbar support switch



Locate side support switch harness (4) in the upper position of seat control harness (2) and fix to seat cushion outer finisher (1) boss using a self locking band (5) as shown in the figure.

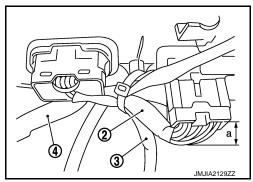
d. Sport seat with lumbar support switch



Locate side support switch harness (4) in the upper position of seat control harness (2). Locate lumbar support switch harness (3) crossing in the forehand position, and fix to seat cushion outer finisher (1) boss using a self locking band (5) as shown in the figure.

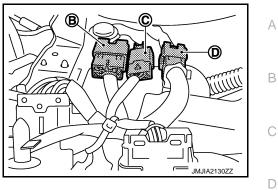
CAUTION:

- Adjust and fix that the ejected length (a) of harness is 10 mm (0.39 in) or less from the backside of connector for the seat control harness (2) switch side.
- Fix lumbar support switch harness (3) and side support switch harness (4) without slack.



< REMOVAL AND INSTALLATION >

• Locate lumbar support switch harness crossing in the upper position, fix seat control harness connector (B), lumbar support switch harness connector (C), and side support harness connector (D) as shown in the figure.



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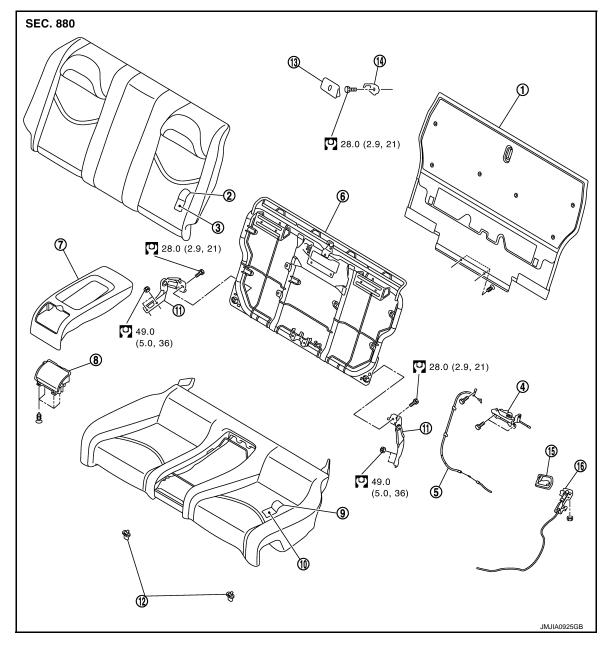
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Revision: 2013 February

REAR SEAT

Exploded View

REAR SEAT



- Seatback board 1.
- Seatback lock assembly 4.
- Center tray 7.
- 10. Seat cushion pad
- 13. Seat striker cover
- 16. Seatback control cable

Refer to <u>GI-4, "Components"</u> for symbols in the figure.

Removal and Installation

REMOVAL **CAUTION:**

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Seatback trim 2.

5.

- Cup holder 8.
- 11. Seatback side bracket

Seatback lock cable

SE-176

14. Seat striker

- Seatback pad 3.
- 6. Seatback frame
- 9. Seat cushion trim
- 12. Seat cushion hook
- 15. Seat control lever escutcheon

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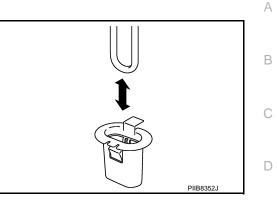
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REAR SEAT

< REMOVAL AND INSTALLATION >

When removing and installing, use shop cloths to protect parts from damage.

- 1. Remove the seat cushion.
 - Pull the seat cushion up, and then remove the seat cushion from the seat cushion hook.
 - Remove the seat cushion from the vehicle.



2. Remove the seatback.	E
 Remove the seatback control cable. Refer to <u>SE-179, "Removal and Installation"</u>. Remove the seatback mounting bolt. Remove the seatback frame the vehicle. 	F
 3. Remove the seatback side bracket. • Remove the seatback side bracket mounting nuts. • Remove the seatback side bracket from the vehicle. 	F
 4. Remove the seat striker. • Remove the seat striker cover. • Remove the seat striker mounting bolt. 	G
INSTALLATION Install in the reverse order of removal. CAUTION:	Н
When removing and installing, use shop cloths to protect parts from damage.	I
Diagonamphy and Anonmphy	

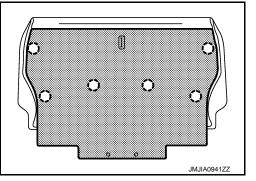
Disassembly and Assembly

SEATBACK	

Disassembly

1. Remove the seatback board. Remove the clips.

([^]) : Clip



- 2. Remove the seatback trim and seatback pad.
 - Remove the hog rings, and remove the seatback retainer.
 - Remove the hog rings to separate the seatback trim and seatback pad.
- 3. Remove the seatback lock cable.
 - Remove the mounting bolt and cable clamp.
 - Remove the seatback lock cable from the seatback frame.
- 4. Remove the seatback lock assembly.
 - Remove the seatback lock assembly mounting bolt.
 - Remove the seatback lock assembly from the seatback frame.

Assembly

Assemble in the reverse order of disassembly.

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REAR SEAT

< REMOVAL AND INSTALLATION >

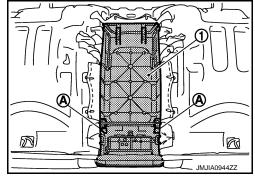
CAUTION:

Install the hog rings of seatback trim in position, and then securely connect the trim or trim cord with the seatback frame.

SEAT CUSHION

Disassembly

- 1. Remove the center tray.
 - Remove the clips (Å) from the seat cushion backside, and then remove pawls when pulling the center tray (1).



- Remove the center tray from the seat cushion assembly.
- 2. Remove the seat cushion trim and seat cushion pad. Remove the hog rings to separate the seat cushion trim and seat cushion pad.

Assembly

Assemble in the reverse order of disassembly.

CAUTION:

Install the hog rings of seat cushion trim in position, and then securely connect the trim or trim cord with the seat cushion pad wire.

SEATBACK CONTROL CABLE

< REMOVAL AND INSTALLATION >

SEATBACK CONTROL CABLE

Exploded View

Refer to SE-176, "Exploded View".

Removal and Installation

REMOVAL

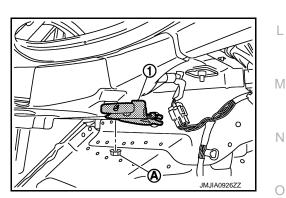
- 1. Remove the trunk front finisher upper. Refer to INT-29, "Removal and Installation".
- 2. Remove the seatback control cable.
 - Fold the seatback before.
 - Remove the clips (A), and then pull up the seatback lower part.

• Remove the seatback control cable (1) from the seatback frame.

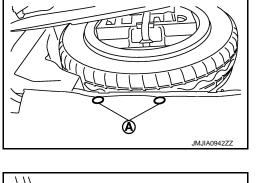
- Remove the seatback control cable mounting nut (A).
- Remove the seatback control cable (1) from the vehicle.

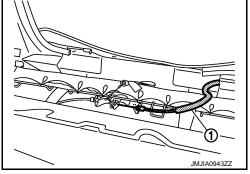
INSTALLATION

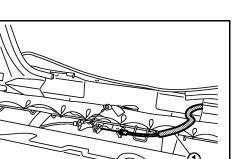
Install in the reverse order of removal.



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DRIVER SEAT CONTROL UNIT

< REMOVAL AND INSTALLATION >

DRIVER SEAT CONTROL UNIT

Exploded View

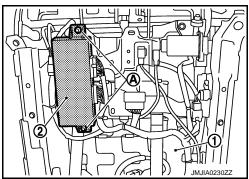
Refer to SE-163, "Exploded View".

Removal and Installation

REMOVAL

When removing and installing, use shop cloths to protect parts from damage.

- 1. Remove driver seat (1). Refer to <u>SE-166, "Removal and Installa-</u>
- 2. Remove mounting bolts (A).
- 3. Remove driver seat control unit (2).



INSTALLATION Install in the reverse order of removal. CAUTION: Always clamp the harness to the right place. INFOID:000000007472132

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PASSENGER SEAT CONTROL UNIT

< REMOVAL AND INSTALLATION > PASSENGER SEAT CONTROL UNIT		
Exploded View	INFOID:000000007472134	А
Refer to <u>SE-163, "Exploded View"</u> . Removal and Installation	INFOID:000000007472135	В
REMOVAL CAUTION: When removing and installing, use shop cloths to protect parts from damage.		С
NOTE: The same procedure is performed for driver side. Refer to <u>SE-180, "Removal and Installation"</u> .		D
INSTALLATION Install in the reverse order of removal. CAUTION:		Е
Always clamp the harness to the right place.		F
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HEATED SEAT CONTROL UNIT

< REMOVAL AND INSTALLATION >

HEATED SEAT CONTROL UNIT

Exploded View

Refer to SE-163, "Exploded View".

Removal and Installation

REMOVAL

When removing and installing, use shop cloths to protect parts from damage.

- 1. Remove the front seat.
- 2. Disconnect heated seat control unit connector.
- Remove the heated seat control unit from the heated seat control unit stay. Refer to <u>SE-163</u>, "Exploded <u>View</u>".

INSTALLATION Install in the reverse order of removal. CAUTION: Always clamp the harness to the right place. INFOID:000000007472136

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POWER SEAT SWITCH

Removal and Installation

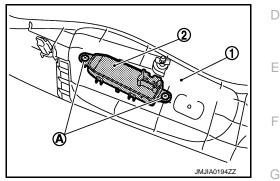
REMOVAL

CAUTION:

When removing and installing, use shop cloths to protect parts from damage. NOTE:

The same procedure is performed for driver side and passenger side.

- 1. Remove the seat cushion outer finisher (1). Refer to <u>SE-166.</u> <u>"Removal and Installation"</u>.
- 2. Remove the screws (A).
- 3. Remove the power seat switch (2) from the seat cushion outer finisher.



INSTALLATION Install in the reverse order of removal. CAUTION: Always clamp the harness to the right place.

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SLIDING SWITCH SEATBACK

SEATBACK : Removal and Installation

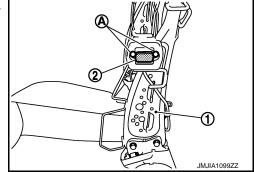
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REMOVAL

CAUTION:

When removing and installing, use shop cloths to protect parts from damage.

- 1. Remove seatback pad. Refer to <u>SE-166. "Removal and Installa-</u> tion".
- 2. Remove screws (A).
- 3. Disconnect seat sliding switch (seatback) connector.
- Remove seat sliding switch (seatback) (2) from seatback frame (1).



INSTALLATION Install in the reverse order of removal. CAUTION: Always clamp the harness to the right place.

SIDE SUPPORT SWITCH

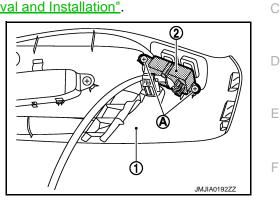
Removal and Installation

REMOVAL

CAUTION:

When removing and installing, use shop cloths to protect parts from damage.

- 1. Remove seat cushion outer finisher (1). Refer to <u>SE-166. "Removal and Installation"</u>.
- 2. Remove screws (A).
- 3. Remove side support switch (2) from seat cushion outer finisher.



INSTALLATION Install in the reverse order of removal. CAUTION: Always clamp the harness to the right place.

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LUMBAR SUPPORT SWITCH

Removal and Installation

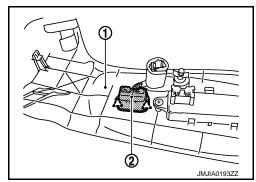
REMOVAL

CAUTION:

When removing and installing, use shop cloths to protect parts from damage.

- 1. Remove seat cushion outer finisher (1). Refer to <u>SE-166.</u> <u>"Removal and Installation"</u>
- 2. Remove lumbar support switch (2).

∠____: Pawl



INSTALLATION Install in the reverse order of removal. CAUTION: Always clamp the harness to the right place.

HEATED SEAT SWITCH

< REMOVAL AND INSTALLATION >

HEATED SEAT SWITCH

Exploded View

Refer to IP-35, "A/T MODELS : Exploded View" (A/T models) or IP-40, "M/T MODELS : Exploded View" (M/T В models).

Removal and Installation

REMOVAL

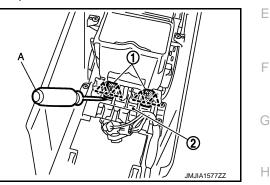
CAUTION: When removing and installing, use shop cloths to protect from damage.

- 1. Remove the console body assembly. Refer to IP-36, "A/T MODELS : Removal and Installation" (A/Y models) or IP-41, "M/T MODELS : Removal and Installation" (M/T models).
- Remove heated seat switch (1) from switch bracket (2) with 2. remover tool (A).

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NOTE:

The same procedure is performed for passenger side.



INSTALLATION

Install in the reverse order of removal.

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