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BASIC INSPECTION	А
DIAGNOSIS AND REPAIR WORK FLOW	
Work Flow	В
DETAILED FLOW	
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	E
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.	
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 "COMPONENT DIAGNOSIS"	
Perform the diagnosis with "Component diagnosis" of the applicable system.	I
>> GO TO 5.	SE
5. REPAIR OR REPLACE THE MALFUNCTIONING PARTS	9L
Repair or replace the specified malfunctioning parts.	K
>> GO TO 6.	
6.FINAL CHECK	I
Check that malfunctions are not reproduced when obtaining the malfunction information from the customer, referring to the symptom inspection result in step 2.	
Are the malfunctions corrected? YES >> INSPECTION END	Μ
NO $>>$ GO TO 3.	
	Ν
	_
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INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

INSPECTION AND ADJUSTMENT ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Description

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

1.SYSTEM INITIALIZATION

Perform system initialization. Refer to <u>SE-8, "SYSTEM INITIALIZATION : Description"</u>.

>> Work end.

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Description

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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

1.SYSTEM INITIALIZATION

Perform system initialization. Refer to <u>SE-8, "SYSTEM INITIALIZATION : Description"</u>.

>> 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.

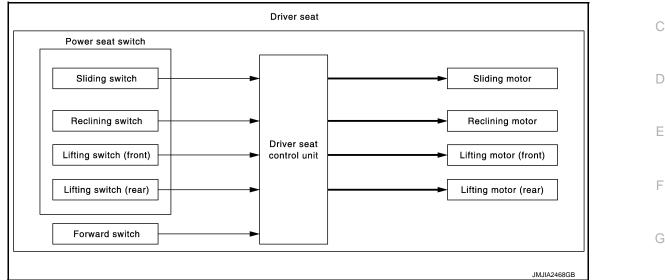
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< SYSTEM DESCRIPTION >

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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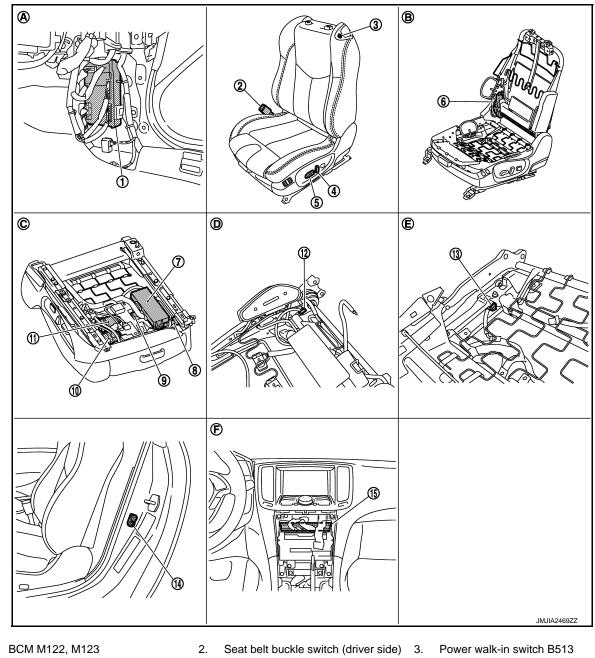
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< SYSTEM DESCRIPTION >

POWER SEAT FUNCTION : Component Parts Location

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- 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

- 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.
- 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:000000006451432

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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 F 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.

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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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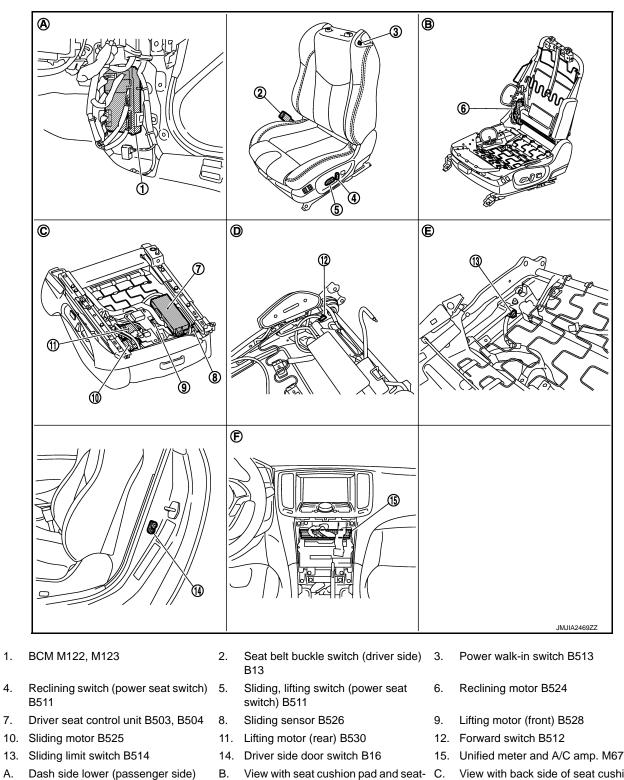
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< SYSTEM DESCRIPTION >

POWER WALK-IN FUNCTION : Component Parts Location

INFOID:000000006451435



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.

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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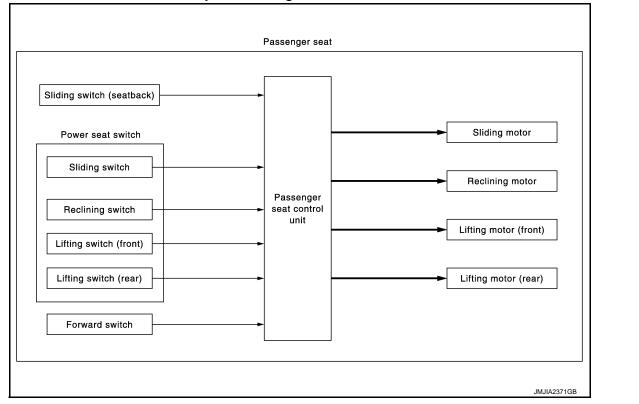
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< SYSTEM DESCRIPTION >

POWER SEAT FOR PASSENGER SIDE POWER SEAT FUNCTION

POWER SEAT FUNCTION : System Diagram



POWER SEAT FUNCTION : System Description

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INFOID:00000006451437

- 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.

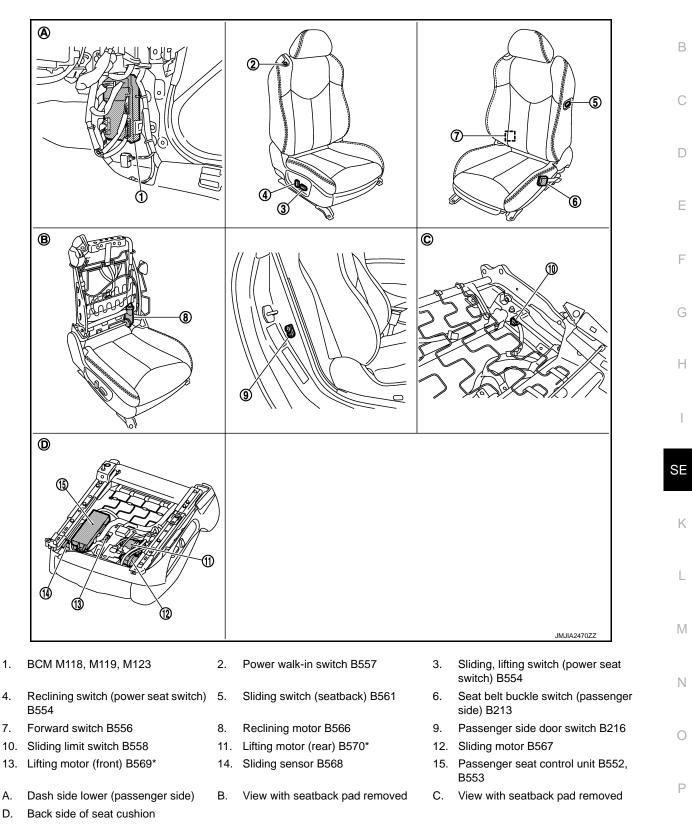
- 1. Power seat switch and sliding switch (seatback).
- 2. Power walk-in switch.

< 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

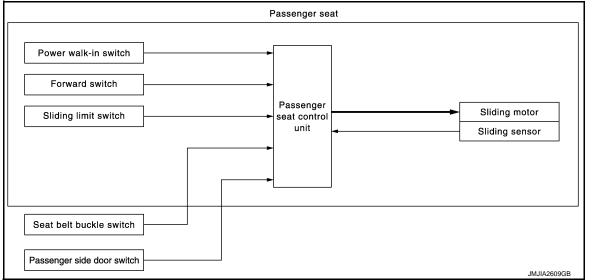
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Item	Function	
BCM	The power received from battery to passenger seat control unit is supplied at all times.	
Passenger seat control unit	Operates each motor with the signal from the power seat switch and sliding switch (seatback).	
Power seat switch	Built-in reclining switch, sliding switch, and lifting switch, transmits operation signal to passenger 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:000000006451442

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.

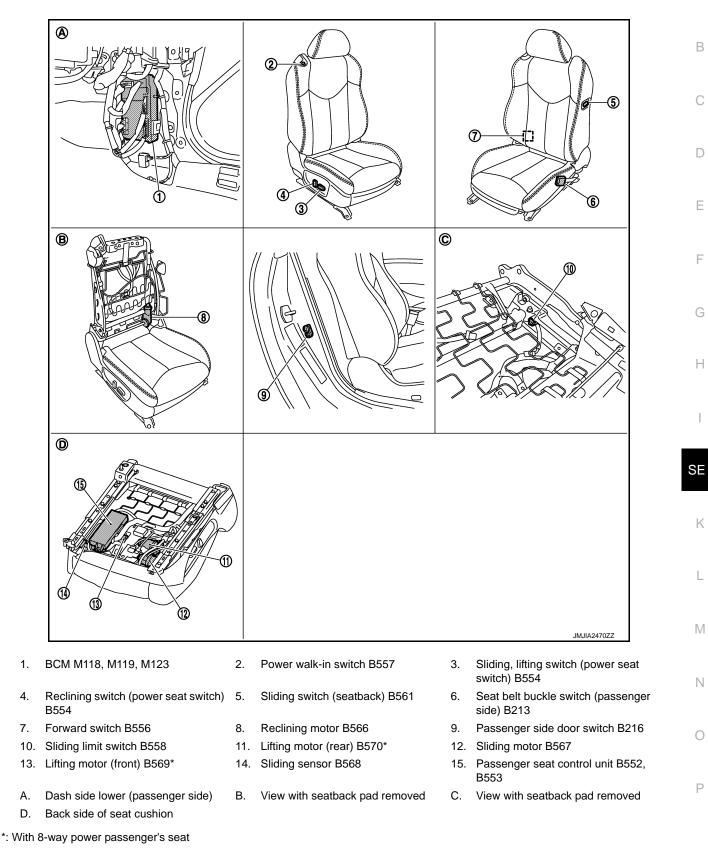
- 1. Power seat switch.
- 2. Power walk-in switch.

< SYSTEM DESCRIPTION >

POWER WALK-IN FUNCTION : Component Parts Location



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POWER WALK-IN FUNCTION : Component Description

CONTROL UNITS

SE-21

< 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

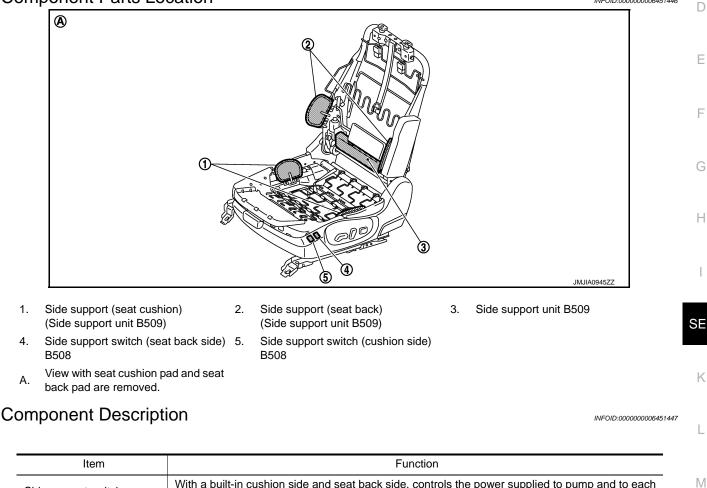
< SYSTEM DESCRIPTION >

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



Item	Function				
Side support switch	With a built-in cushion side and seat back side, controls the power supplied to pump and to each solenoid.				
Side support unit	Built-in pump, pump relay and solenoid, operates when pressing ON/OFF on side support switch.				

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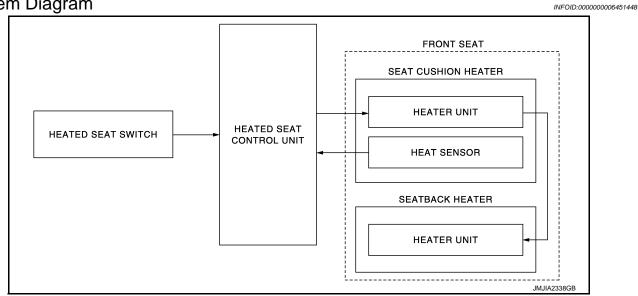
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INFOID:000000006451445

HEATED SEAT

< SYSTEM DESCRIPTION > HEATED SEAT

System Diagram



System Description

INFOID:000000006451449

- 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:000000006451450

А A В 2 С D ര 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:000000006451451 Μ

Item	Function				
Heated seat switch	Adjusts heated seat temperature and deactivates heated seatIs equipped to indicator that indicates the operating condition				
Seat cushion heater	 Warms seat cushion Contains heater sensor that outputs seat cushion temperature to heated seat control unit 	0			
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)	P			

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.

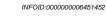
Component Parts Location

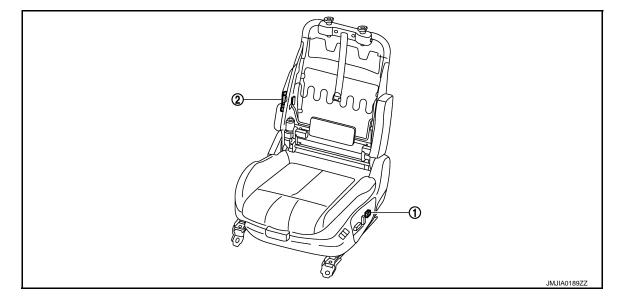
- 1. Lumbar support switch B505
- 2. Lumbar support motor B506

Component Description

INFOID:000000006451454

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.		





DIAGNOSIS SYSTEM (DRIVER SEAT C/U)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (DRIVER SEAT C/U)

Diagnosis Description

The power seat system can be checked and diagnosed for component operation with CONSULT-III. **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	Drive each output device.		
ECU PART NUMBER	Displays part numbers of driver seat control unit parts.		

CONSULT-III Function

SELF DIAGNOSTIC RESULTS Refer to ADP-200, "DTC Index".

DATA MONITOR

		N.4	Selection	
Monitor Item	Unit	Main Signals	From Menu	Contents
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.
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.
RECLN SW-FR	"ON/OFF"	×	×	ON/OFF status judged from the reclining switch (forward) signal.
RECLN SW-RR	"ON/OFF"	×	×	ON/OFF status judged from the reclining switch (backward) signal.
LIFT FR SW-UP	"ON/OFF"	×	×	ON/OFF status judged from the lifting switch front (upward) signal.
LIFT FR SW-DN	"ON/OFF"	×	×	ON/OFF status judged from the lifting switch front (down-ward) signal.
LIFT RR SW-UP	"ON/OFF"	×	×	ON/OFF status judged from the lifting switch rear (upward) signal.
LIFT RR SW-DN	"ON/OFF"	×	×	ON/OFF status judged from the lifting switch rear (down-ward) signal.
MIR CON SW-UP	"ON/OFF"	×	×	ON/OFF status judged from the mirror switch (upward) signal.
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.
MIR CON SW-LH	"ON/OFF"	×	×	ON/OFF status judged from the door mirror remote control switch (driver side) signal.

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DIAGNOSIS SYSTEM (DRIVER SEAT C/U)

< SYSTEM DESCRIPTION >

Monitor Item	Unit	Main Signals	Selection From Menu	Contents
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.
TELESCO SW-FR	"ON/OFF"	×	×	ON/OFF status judged from the telescoping switch (for- ward) signal.
TELESCO SW-RR	"ON/OFF"	×	×	ON/OFF status judged from the telescoping switch (back-ward) 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 backle switch signal.
DETENT SW ^{*1}	"ON/OFF"	×	×	The selector lever position "OFF (P position) / ON (other than 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 PULSE	_	_	×	Value (32768) when battery connections are standard. If it moves backward, the value increases. If it moves forward, the value decreases.
LIFT FR PULSE	_	_	×	Value (32768) when battery connections are standard. If it moves DOWN, the value increases. If it moves UP, the value decreases.
LIFT RR PULSE	_	_	×	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) up- ward/downward is displayed.
MIR/SEN RH R-L	"V"	_	×	Voltage input from door mirror sensor (passenger side) left- ward/rightward is displayed.
MIR/SEN LH U-D	"V"	_	×	Voltage input from door mirror sensor (driver side) upward/ downward is displayed.
MIR/SEN LH R-L	"V"	_	×	Voltage input from door mirror sensor (driver side) leftward/ rightward is displayed.
TILT SEN	"V"	_	×	Voltage input from tilt sensor upward/downward is displayed.
TELESCO SEN	"V"	_	×	Voltage input from telescopic sensor forward/backward is displayed.

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

*2: A/T models display all item except this item.

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

DIAGNOSIS SYSTEM (DRIVER SEAT C/U)

< SYSTEM DESCRIPTION >

ACTIVE TEST CAUTION:

When driving vehicle, do not 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).	
TILT MOTOR	Activates/deactivates the tilt motor.	
TELESCO MOTOR	Activates/deactivates the telescopic motor.	
MIRROR MOTOR RH	Activates/deactivates the mirror motor (passenger side).	
MIRROR MOTOR LH	Activates/deactivates the mirror motor (driver side).	
MEMORY SW INDCTR	Turns ON/OFF the memory indicator.	

*: Driver seat without automatic driver position system display only "SEAT SLIDE".

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DTC/CIRCUIT DIAGNOSIS U1000 CAN COMM CIRCUIT

Description

INFOID:000000006451457

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

INFOID:000000006451458

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-III.

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:000000006451460

INFOID:00000006451459

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

B2112 SLIDING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

B2112 SLIDING MOTOR

Description INFOID:00000006451461 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:000000006451462 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-III. 2. Is the DTC detected? >> Refer to SE-31, "Diagnosis Procedure". YES NO >> INSPECTION END Diagnosis Procedure INFOID:00000006451463 **1.**PERFORM DTC CONFIRMATION PROCEDURE 1. Turn ignition switch ON. Check "Self diagnostic result" using CONSULT-III. 2. SE 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. Check voltage between sliding motor harness connector and ground. 3. (+) 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. А

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B2112 SLIDING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

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

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace driver seat control unit. Refer to <u>SE-205, "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:00000006451464 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 INFOID:000000006451465 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-III. Is the DTC detected? >> Refer to SE-33, "Diagnosis Procedure". YES Н >> INSPECTION END NO Diagnosis Procedure INFOID:00000006451466 1.PERFORM DTC CONFIRMATION PROCEDURE 1. Turn ignition switch ON. SE Check "Self diagnostic result" using CONSULT-III. 2.

- 3. Erase the DTC.
- 4. Perform DTC confirmation procedure. Refer to <u>SE-33, "DTC Logic"</u>.

Is the DTC displayed again?

YES	>> GO TO 2.	
NO	>> Check intermittent incident. Refer to GI-43.	"Intermittent Incident".

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.

	(+) Reclining motor		Voltage (V) (Approx.)	
Reclin				N
Connector	Terminal			
B524	36	Ground	0	0
B324	44	Giouna	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-205, "Removal and Installation"</u>.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

PC	WER	SUPPLY AND	GROUND CIR	CUIT
< DTC/CIRCUIT DIAGNOSI	S >			
POWER SUPPLY AN	ND GF	ROUND CIRC	UIT	
DRIVER SEAT CONTI	ROLL	JNIT		A
DRIVER SEAT CONTR		NIT : Diagnosis	Procedure	INFOID:00000006451467
NOTE: Do not disconnect the battery firmed using CONSULT-III. 1.CHECK FUSE AND FUSIE	•		e driver seat control	unit connector until DTC is con-
Check that the following fuse	and fusi	ble link are not fusi	ng.	
Terminal No.		Signal n	ame	Fuse and fusible link No.
33		Datta		K (40 A)
40		Battery powe	er supply	10 (10 A)
YES >> GO TO 2. NO >> Replace the blow are blown. 2.CHECK POWER SUPPLY 1. Turn ignition switch OFF. 2. Disconnect driver seat co	CIRCU	IT	r repairing the affec	ted circuit if fuse and fusible link
3. Check voltage between d			ess connector and g	round. H
	(+) at control (unit	(-)	Voltage (V)
Connector		Terminal		(Approx.)
		33	Orecurs d	
B504		40	Ground	Battery voltage SE
Is the inspection result norma YES >> GO TO 3. NO-1 >> Repair or replace NO-2 >> Check circuit brea 3. CHECK GROUND CIRCU	harness aker, and IT	d replace if NG.	s connector and gro	L und
Check continuity between any	lei seal		s connector and gro	und.
Driver seat	control un			Continuity
Connector		Terminal	Ground	
B503		32		Existed
B504	10	48		
Is the inspection result norma YES >> INSPECTION EN NO >> Repair or replace PASSENGER SEAT C	ID harness			0
PASSENGER SEAT CO	ONTRO	OL UNIT : Diag	nosis Procedu	P
1.CHECK FUSE AND FUSIE		К		
Check that the following fuse	is not fu	sing.		

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)
Connector	Terminal	-	(Approx.)
B553	33	Ground	Pottony voltago
D000	40	Ground	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.

3.CHECK GROUND CIRCUIT

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

Passenger s	eat 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:000000006451469

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 s	eat control unit			(-)	Voltage (V) (Approx.)	
	Connector		Terminal			(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Driver side		B518	60	G	ound	Battery voltage	
Passenger side		B575	00		ound	Dattery Voltage	
the inspection r							
/ES >> GO Τ NO >> GO Τ							
.CHECK POWE							
Turn ignition							
Disconnect h	eated seat rela						
Check continu nector.	uity between h	eated seat c	ontrol unit harne	ss connector a	and heated se	eat relay terminal co	
necioi.							
	Heated seat cor	ntrol unit		Heated sea	t relay	Continuity	
	onnector	Te	erminal C	onnector	Terminal	Continuity	
Driver side	B518		60	M70	3	Existed	
Passenger side	B575						
Check contin	uity between h	eated seat c	ontrol unit harne	ss connector a	and ground.		
	Heated s	eat control unit					
	Connector		Terminal			Continuity	
Driver side		B518		Gr	ound		
Passenger side		B575	60			Not existed	
the inspection r	esult normal?						
			een heated seat				
-	-	arness betwe	en heated seat	control unit an	d heated sea	it relay.	
.CHECK POWE							
heck voltage be	ween heated	seat control	unit harness con	nector and gro	und.		
	(+)						
He	ated seat control	unit	()	с	ondition	Voltage (V)	
Conn	ector	Terminal				(Approx.)	
	5540				ON	Battery voltage	
Driver side	B518			Heated seat	OFF	0	
	Deze	- 66	Ground	switch	ON	Battery voltage	
D	B575				OFF	0	
Passenger side	2010						
Passenger side the inspection r							
the inspection r (ES >> GO T	esult normal? O 7.						
the inspection r YES >> GO T NO >> GO T	esult normal? O 7. O 5.						
the inspection r (ES >> GO T	esult normal? O 7. O 5.	IRCUIT 2					
the inspection r (ES >> GO T NO >> GO T .CHECK POWE	esult normal? O 7. O 5. ER SUPPLY C switch OFF.						
the inspection r (ES >> GO T NO >> GO T .CHECK POWE Turn ignition s Disconnect he	esult normal? O 7. O 5. ER SUPPLY C switch OFF. eated seat swi	tch connecto		ness connecto	r and heated	d 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
Cor	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-213, "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							
$\begin{array}{c} N(2 \\ 2 \\ 1 \\ 1 \\ 2 \\ 3 \\ 4 \\ - \\ - \\ - \\ - \\ - \\ - \\ - \\ - \\ -$	Disconnect hea Turn ignition sw	Turn ignition switch OFF. Disconnect heated seat switch connector. Turn ignition switch ON. Check voltage between heated seat switch harness connector and ground.						
-		(+)						
-		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	
		e block (J/B) connec						
-		Heated seat switch	eat switch har	ness conne	ctor and Fuse blo		3) harness connecto	
•		-	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 Te 41 75 42	M1 Thess conne	Fuse blc	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 blc	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 blc	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 blc	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	H				
DRIVER SIDE : D	escription				INFCID:00000006451471
Sliding switch is equipThe operation signal	oped to the power set is input to the driver s	seat control	unit when		
DRIVER SIDE : C	omponent Func	tion Che	CK		INFOID:000000006451472
1. CHECK FUNCTION					
	n ON. FR", "SLIDE SW-RR ch signal under the fo			" mode using CONS	SULT-III.
Monitor item		Conc	dition		Status
SLIDE SW-FR	Sliding switch (for	ward)	Operate		ON
		waru)	Release		OFF
SLIDE SW-RR	Sliding switch (ba	ckward)	Operate		ON
	(,	Release		OFF
	seat switch connecto veen power seat swit		connecto	r and ground.	S
	(+)				Voltage (V)
Connector	Termin	al		()	(Approx.)
B511	11 26			Ground	Battery voltage
	WITCH CIRCUIT		arness co	nnector and power s	seat switch harness con-
Driver seat	t control unit		Power se	eat switch	
		1			
Connector	Terminal	Conn	ector	Terminal	- Continuity
Connector B503	1	Conn B5		Terminal 11 26	Continuity Existed

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

< DTC/CIRCUIT DIAGNOSIS >

	Driver seat	t control unit			Continuity
Co	nnector	Ter	minal	Ground	Continuity
	B503		11	Ground	Not existed
	6303		26		INDI EXISIEU
Is the inspect	on result norm	al?			
			nit.Refer to <mark>S</mark>	E-205, "Removal and Inst	<u>allation"</u> .
-	epair or replac				
3. CHECK S	LIDING SWITC	H			
Check sliding					
	<u>2, "DRIVER SI</u>	-	nent Inspectio	<u>n"</u> .	
Is the inspect	on result norm	<u>al?</u>			
	O TO 4.				
4			Refer to <u>SE-20</u>	09, "Removal and Installati	<u>on"</u> .
4.CHECK IN	ITERMITTENT	INCIDENT			
Check intermi					
Refer to GI-43	<u>3, "Intermittent</u>	Incident".			
>> 11	SPECTION E	ND			
DRIVER S	IDE : Comp	onent Ins	pection		INFOID:0000000645147
1.CHECK S	LIDING SWITC	:H			
	ion switch OFF ct power seat s		ctor		
	ntinuity betwee			nals.	
	,	•			
	Power seat switc	h		Condition	Continuity
	Terminal			Condition	Continuity
			1	D	F : ()

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

Is the inspection result normal?

YES >> INSPECTION END

>> Replace power seat switch. Refer to SE-209, "Removal and Installation". NO 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 SE-43, "PASSENGER SIDE : Diagnosis Procedure".

SE-42

INFOID:000000006451475

< DTC/CIRCUIT DIAGNOSIS >

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000006451477

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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.

(-	+)				
Passenger se	at control unit	()	Condition	Voltage (V) (Approx.)	
Connector	Terminal				(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	11			Backward	0
B552	11	Ground	Sliding owitch	Other than above	Battery voltage
6002	20	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
P561	22	Ground	Not existed	
B561	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-209</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-188, "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:000000006451478

1.CHECK SLIDING SWITCH

1. Turn ignition switch OFF.

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

	eat switch minal	Cor	ndition	Continuity
	22		Forward	Existed
32		Sliding switch	Other than above	Not existed
52	00		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-209, "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:000000006451479

INFOID:000000006451480

< DTC/CIRCUIT DIAGNOSIS >

+)	:4			Condition		Voltage (V)
		(—)		Condition		(Approx.)
Iermir	nai			Dealguerd		0
11					ahaya	-
		Ground			above	
26					abovo	
Image: sender sear control unit (-) Condition (Approx.) ector Terminal (-) Condition (Approx.) 52 11 Ground Sliding switch (seatback) Backward 0 52 0 Other than above Battery voltage						
switch (sea 2. 3 SWITCH senger sea y between	atback) (SEATE	3ACK) CIRCUI	r and sliding sw			
tor.						
er seat contro	ol unit		Sliding switch (se	eatback)		Continuity
	Terminal	Co	nnector	Terminal		Continuity
			B561			Existed
	26			26		
y between	passen	ger seat contro	I unit harness co	onnector and	ground	
-	t control u					Continuity
		Ground				
						Not existed
3. or replace 3 SWITCH	harness (SEATE	BACK) GROUN		or and ground		
lidina switch	(seatback	.)				
		•	Grou	und		Continuity
		32		-		Existed
4. or replace S SWITCH	harness (SEATE					
	at control un Termin 11 26 20 20 20 20 20 20 20 20 20 20 20 20 20	eat control unit Terminal 11 26 ult normal? switch (seatback) o 2. SWITCH (SEATE senger seat control y between passer ctor. er seat control unit 11 26 y between passen ssenger seat control u sult normal? 3. or replace harness S SWITCH (SEATE tween sliding switch liding switch (seatback ult normal? 4. or replace harness	teat control unit (-) Terminal (-) 11 Ground 26 Ground 28 Ground 29 Ground 20 Ground 20 Ground 21 Ground 26 Ground 26 Ground 27 SWITCH (SEATBACK) CIRCUIT senger seat control unit connector Senger seat control unit connector 29 Detween passenger seat control 20 11 26 Ground 21 26 26 Ground 20 11 26 Ground 27 Ground 28 Ground 29 Detween passenger seat control 30 Ground 21 26 21 11 26 Ground 20 Ground 21 11 26 Ground 28 Ground 29 Ground 20	at control unit (-) Terminal Ground 11 Ground 26 Sliding switch (seatback) wilt normal? switch (seatback) circuit is OK. 2. SWITCH (SEATBACK) CIRCUIT senger seat control unit connector and sliding switch (seatback) y between passenger seat control unit harness control 11 B561 26 B561 27 B561 28 Ground 11 B561 26 Ground 27 B561 28 Ground 29 B561 20 Ground 21 B561 26 Ground 27 Ground 28 Terminal 29 Ground 20 Ground 21 Ground 23 Ground 24 Terminal 26 Ground 27 SWITCH (SEATBACK) GROUND CIRCUIT tween sliding switch (seatback) harness connector Ground 32 Groun	at control unit (-) Condition Image: Terminal Image: Terminal Backward 26 Ground Sliding switch (seatback) Backward 26 Other than Forward Other than 26 Switch (seatback) Forward Other than 26 SWITCH (SEATBACK) CIRCUIT Senger seat control unit connector and sliding switch (seatback) Seatback) 28 SWITCH (SEATBACK) CIRCUIT Senger seat control unit connector and sliding switch (seatback) Image: Terminal 29 between passenger seat control unit arness connector and store are seat control unit Image: Terminal Image: Terminal 11 26 B561 11 26 9 between passenger seat control unit harness connector and senger seat control unit Image: Terminal Image: Terminal 11 26 Image: Terminal Image: Terminal Image: Terminal 11 26 Sore replace harness. SWITCH (SEATBACK) GROUND CIRCUIT Image: Terminal 30 Image: Terminal Image: Terminal Image: Terminal Image: Terminal Image: Terminal 32 Image: Terminal Image: Terminal	Lat control unit (-) Condition Image: Terminal Image: Terminal <t< td=""></t<>

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	Battery voltage
	26		

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace passenger seat control unit. Refer to <u>SE-206, "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:000000006451482

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)	C	Condition	
Teri	minal			
	11		Backward	Existed
32	11		Other than above	Not existed
52	26	_	Forward	Existed
	20	 Sliding switch (seatback) 	Other than above	Not existed
11	23		Backward	Not existed
11	23		Other than above	Existed
26	22	_	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-188, "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.
- Select "RECLN SW-FR", "RECLN SW-RR" in the "Data monitor" mode using CONSULT-III. 2.
- 3. Check reclining switch signal under the following conditions.

Monitor item	Cor	Condition		
RECLINE SW-FR	Baclining owitch (forward)	Operate	ON	_
RECLINE SW-FR	Reclining switch (forward)	Release	OFF	F
RECLINE SW-RR	Badining owitch (bad/word)	Operate	ON	
RECLINE SW-RR	Reclining switch (backward)	Release	OFF	G

Is the indication normal?

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

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.

	(+)			_
Powers	Power seat switch		Voltage (V) (Approx.)	K
Connector	Terminal		()	
B511	12	Ground	Pottor voltago	L
	27	Giouna	Battery voltage	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.check reclining switch circuit

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

Driver seat	control unit Power seat switch		Power seat switch		
Connector	Terminal	Connector	Terminal	Continuity	P
B503	12	B511	12	Existed	
0000	27		27	LAISIEU	

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

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INFOID:000000006451483

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RECLINING SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Driver sea	t control unit		Continuity
Connector	Terminal	Ground	Continuity
B503	12	Ground	Not existed
6303	27		NOT EXISTED
Is the inspection result norm	al?		
		SE-205, "Removal and Insta	allation".
NO >> Repair or replace			
3.CHECK RECLINING SW	/ITCH		
Check reclining switch. Refer to <u>SE-48, "DRIVER S</u>	IDE : Component Inspec	tion".	
Is the inspection result norm			
YES >> GO TO 4.			
NO >> Replace power	seat switch. Refer to SE	-209, "Removal and Installati	<u>on"</u> .
4. CHECK INTERMITTENT	INCIDENT		
Check intermittent incident. Refer to <u>GI-43, "Intermittent</u>	Incident"		
	incident.		
>> INSPECTION E	ND		
DRIVER SIDE : Comp	onent Inspection		INFOID:0000000645148
			IIVF012.0000000045146
1.CHECK RECLINING SW	/ITCH		
1. Turn ignition switch OFI	Ξ.		
2. Disconnect power seat			
3. Check continuity betwee	en power seat switch ter	minals.	
Power seat sw	itch		

Power se	eat switch	Condition Continu		Continuity
Terr	minal			Continuity
	12		Backward	Existed
32	12	Baclining owitch	Other than above	Not existed
32	27	Reclining switch	Forward	Existed
	27		Other than above	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power seat switch. Refer to <u>SE-209, "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".

SE-48

INFOID:000000006451487

RECLINING SWITCH

< DTC/CIRCUIT DIAGNOSIS >

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000006451489

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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 seat control unit Connector Terminal		(–) Condition		Voltage (V)	С
					(Approx.)	
	40			Backward	0	D
B552	12	One word	Declining owitch	Other than above	Battery voltage	
B002	27	Ground	Reclining switch	Forward	0	
_	27			Other than above	Battery voltage	E

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	6004	27	

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

					02
-	Passenger se	eat control unit		Continuity	
-	Connector	Terminal	Ground	Continuity	LZ.
-	B552	12	Giouna	Not existed	K
_	D352	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-209</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		Battory voltago	
6332	27	Giound	Battery voltage	

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace passenger seat control unit. Refer to <u>SE-206, "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:000000006451490

1. CHECK RECLINING 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		Condition	
Terr	minal		onation	Continuity
	12		Backward	Existed
32	12	- Reclining switch	Other than above	Not existed
52	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-209</u>, "Removal and Installation".

	C/CIRCUIT DIAG					
	TING SWITC	H (FRONT)				
DRI	VER SIDE					
DRI	VER SIDE : D	escription				INFOID:00000006451491
• Lift	ing switch (front) is	s equipped to the pow	/er seat s	witch on the	e seat cushion side s	surface.
		is input to the driver s				
DRI	VER SIDE : C	omponent Funct	tion Ch	eck		INFOID:00000006451492
1 .c	HECK FUNCTION					
	Furn ignition switch					
2. 3	Select "LIFT FR SV	V-UP", "LIFT FR SW-				ONSULT-III.
3. (Check lifting switch	n (front) signal under t	the follow	ing conditio	ns.	
	Monitor item		Co	ndition		Status
	IFT FR SW-UP	Lifting switch front	(up)	Operate		ON
			(4)	Release		OFF
LI	IFT FR SW-DN	Lifting switch from	t (down)	Operate		ON
	e indication normal			Release		OFF
1. c		iagnosis Proced				INFOID:000000006451493
2. [Disconnect power a	seat switch connecto veen power seat swit		s connecto	r and ground.	S
_		(+)				
	Po	ower seat switch			(—)	Voltage (V) (Approx.)
	Connector	Termin	al			
	B511	13			Ground	Battery voltage
Is the	e inspection result					
YES NO	6 >> GO TO 3.	<u>norman</u>				
2. c	HECK LIFTING SV	VITCH (FRONT) CIR	CUIT			
1. [2. (Disconnect driver s	seat control unit conn	ector.	harness co	nnector and power s	seat switch harness con-
	Driver seat	control unit		Power se	eat switch	
	Connector	Terminal	Co	nnector	Terminal	- Continuity
	B503	13	F	3511	13	Existed

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

28

B503

B511

Existed

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< DTC/CIRCUIT DIAGNOSIS >

Driver seat	control unit			Continuity
Connector	Termina	al	Ground	Continuity
B503	13		Ground	Not existed
B303	28			NUT EXISTED
s the inspection result norma	al?			
YES >> Replace driver s NO >> Repair or replace		Refer to <u>S</u>	E-205, "Removal and Insta	tallation".
3. CHECK LIFTING SWITC	H (FRONT)			
Check lifting switch (front). Refer to <u>SE-52, "DRIVER SI</u>	DE : Componen	t Inspectio	<u>'n"</u> .	
is the inspection result norma	al?			
YES >> GO TO 4.				
NO >> Replace power s	seat switch. Refe	er to <u>SE-20</u>	<u>09, "Removal and Installati</u>	<u>ion"</u> .
4. CHECK INTERMITTENT	INCIDENT			
Check intermittent incident. Refer to <u>GI-43, "Intermittent</u>	Incident".			
>> INSPECTION EI	ND			
DRIVER SIDE : Comp	onent Inspec	ction		INFOID:00000000
1. CHECK LIFTING SWITC	H (FRONT)			
 Turn ignition switch OFF Disconnect power seat s Check continuity betwee 	witch connector		nals.	
Power seat swi	tch			

Power se	Power seat switch		Condition	
Terr	ninal	Cor		Continuity
	13		Down	Existed
32	10	Lifting quitch (front)	Other than above	Not existed
52	28	Lifting switch (front)	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-209. "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>.

Revision: 2011 December

SE-52

INFOID:000000006451495

< DTC/CIRCUIT DIAGNOSIS >

PASSENGER SIDE : Diagnosis Procedure

INFOID:00000006451497

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1.CHECK LIFTING SWITCH (FRONT) SIGNAL

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

(+) Passenger seat control unit		(–) Condition				
				dition	Voltage (V) (Approx.)	
Connector	Terminal				(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	13			Down	0	
B552	13	Ground	Lifting out tob (front)	Other than above	Battery voltage	
D002	20	Ground	Lifting switch (front)	UP	0	
28				Other than above	Battery voltage	

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	eat control unit	Power seat switch		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
P552	13	P554	13	Existed	
B552	28	B554	28		

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

-	Passenger s	eat control unit			-
-	Connector	Terminal	Ground	Continuity	
	B552	13	Ground	Not existed	- K
	D002	28		NOT EXISTED	

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-209, "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	
B002	28	Ground		

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace passenger seat control unit. Refer to <u>SE-206, "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:000000006451498

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

Is the inspection result normal?

- YES >> INSPECTION END
- NO >> Replace power seat switch. Refer to <u>SE-209</u>, "Removal and Installation".

LIFTING SWITCH (REAR)

< DTC/CIRCUIT DIAGNOSIS >

LIFTING SWITC DRIVER SIDE	[,] H (REAR)				
	·				
DRIVER SIDE : D	escription				INFOID:00000006451499
Lifting switch (rear) isThe operation signal is					
DRIVER SIDE : C	omponent Funct	tion Ch	eck		INFOID:00000006451500
1.CHECK FUNCTION					
	n ON. W-UP", "LIFT RR SW n (rear) signal under tl				CONSULT-III.
Monitor item		Co	ondition		Status
		(Operate		ON
LIFT RR SW-UP	Lifting switch rear	(up)	Release		OFF
LIFT RR SW-DN	Lifting switch rear	(down)	Operate		ON
	Litting Switch real	(down)	Release		OFF
	seat switch connector ween power seat switch		ss connecto	r and ground.	
	(+)				Voltage (V)
Pc	ower seat switch		_	(-)	(Approx.)
Connector	Termina	al			
B511	14				
	20			Ground	Battery voltage
Is the inspection result	29 normal?			Ground	Battery voltage
YES >> GO TO 3. NO >> GO TO 2.	normal?	UIT	_	Ground	Battery voltage
YES >> GO TO 3. NO >> GO TO 2. 2.CHECK LIFTING SV 1. Disconnect driver s	normal? NITCH (REAR) CIRC	ector.			Battery voltage
YES >> GO TO 3. NO >> GO TO 2. 2.CHECK LIFTING SV 1. Disconnect driver s 2. Check continuity be nector.	normal? NITCH (REAR) CIRC	ector.	harness co		seat switch harness con-
 NO >> GO TO 2. 2.CHECK LIFTING SV 1. Disconnect driver s 2. Check continuity be nector. 	normal? NITCH (REAR) CIRC seat control unit conne etween driver seat co	ector. Introl unit	harness co	nnector and power	
YES >> GO TO 3. NO >> GO TO 2. 2.CHECK LIFTING SV 1. Disconnect driver s 2. Check continuity be nector. Driver seat	normal? NITCH (REAR) CIRC seat control unit conne etween driver seat co	ector. ontrol unit Co	harness co Power se	nnector and power	seat switch harness con-

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

LIFTING SWITCH (REAR)

< DTC/CIRCUIT DIAGNOSIS >

Driver seat	control unit		Continuity
Connector	Terminal	Ground	Continuity
B503	14	Ground	Not existed
	29		Notexisted
s the inspection result norm	al?		
YES >> Replace driver s NO >> Repair or replac		to <u>SE-205, "Removal and Insta</u>	allation".
$\mathbf{B}.$ CHECK LIFTING SWITC	H (REAR)		
Check lifting switch (rear). Refer to <u>SE-56, "DRIVER SI</u>	DE : Component Inspe	ection".	
s the inspection result norm	al?		
YES >> GO TO 4. NO >> Replace powers	seat switch. Refer to <u>S</u>	E-209, "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 Inspection		INFOID:0000000645150
CHECK LIFTING SWITC	H (REAR)		
. Turn ignition switch OFF 2. Disconnect power seat s 3. Check continuity betwee	witch connector.	erminals.	
Power seat swi	tch	Condition	Continuity

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power seat switch. Refer to <u>SE-209. "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".

LIFTING SWITCH (REAR)

< DTC/CIRCUIT DIAGNOSIS >

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000006451505

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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 se	Passenger seat control unit		(–) Conditi		dition Voltage (V) (Ap- prox.)	
Connector	Terminal				F,	
	14			Down	0	
B552	14	Ground	Lifting switch (front)	Other than above	Battery voltage	
	20	Ground	Lining Switch (Holit)	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	eat control unit	Power se	ear switch	Continuity
Connector	Terminal	Connector	Terminal	Continuity
B552	14	B554	14	Existed
B332	29	6004	29	Existed

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

 Passenger se	eat control unit			-
 Connector	Terminal	Ground	Continuity	17
 B552	14	Ground	Not existed	- K
D352	29		NOI EXISIEU	_

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-209</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 se	Passenger seat control unit		Voltage (V) (Approx.)	
Connector	Terminal		(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
B552	14	Ground	Battery voltage	
6332	29	Giound	Dattery Voltage	

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace passenger seat control unit. Refer to <u>SE-206, "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:000000006451506

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 se	Power seat switch		Condition	
Terr	minal		nation	Continuity
	14		Down	Existed
32	14		Other than above	Not existed
32	29	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-209</u>, "Removal and Installation".

POWER SEAT SWITCH GROUND CIRCUIT

	OWER SEAT SWITC	H GROUND CIRCU	ИТ
< DTC/CIRCUIT DIAGNOS	-		
POWER SEAT SWI	I CH GROUND CI	RCUIT	Ą
DRIVER SIDE : Diagno	osis Procedure		INFOID:000000006451507
1. CHECK POWER SEAT S	WITCH GROUND CIRCU	Т	
 Turn ignition switch OFF. Disconnect power seat s Check continuity betwee 		ector and ground.	C
Power se	eat switch		Continuity
Connector	Terminal	Ground	Continuity
B511	32		Existed
Is the inspection result normal YES >> GO TO 2. NO >> Repair or replace 2. CHECK POWER SEAT S Check lifting switch (rear).	e harness.	JIT	F
Refer to <u>SE-56, "DRIVER SII</u> <u>Is the inspection result norma</u> YES >> GO TO 3.	al? seat switch. Refer to <u>SE-20</u>		G ion". H
Check intermittent incident. Refer to <u>GI-43. "Intermittent I</u> >> INSPECTION Ef PASSENGER SIDE			SE
PASSENGER SIDE : [Diagnosis Procedure)	INFOID:000000006451508
1.CHECK POWER SEAT S	WITCH GROUND CIRCU	Т	
 Turn ignition switch OFF. Disconnect power seat s Check continuity betwee 		ector and ground.	
Power se	eat switch		Continuity
Connector	Terminal	Ground	
B554	32		Existed
Is the inspection result normal YES-1:When power seat sw YES-2:When all power seat NO >> Repair or replace 2.CHECK POWER SEAT S	vitch does not operate any components do not opera e harness.	ate.>>GO TO 3.	C
Check sliding switch. Refer to <u>SE-44, "PASSENGE</u>			P
Is the inspection result norma YES >> GO TO 3.	al? seat switch. Refer to <u>SE-20</u>		<u>ion"</u> .

POWER SEAT SWITCH GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

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

>> INSPECTION END

		FORWARD SV		
COTC/CIRCUIT DIAG	NOSIS >			
FORWARD SWI	ТСН			
DRIVER SIDE				
DRIVER SIDE : De	escription			
	•			INFOID:000000006451509
Forward switch is inst Forward switch detect				
		_		
RIVER SIDE : Co				INFOID:000000006451510
.CHECK FUNCTION				
	SW" in the "Data	a Monitor" mode usi ler the following con		
Test item		Co	ondition	Status
	Drii	ver side seatback	Folded up	ON
FORWARD SW		er side sealback	Folded down	OFF
YES >> Forward sw NO >> Refer to <u>S</u> RIVER SIDE : Di .CHECK FORWARD	iagnosis Proe SWITCH INPUT	SIDE : Diagnosis Pro Cedure	ocedure".	INFOID:000000006451511
 YES >> Forward sw NO >> Refer to S RIVER SIDE : Di .CHECK FORWARD Turn ignition switch Disconnect forward 	E-61, "DRIVER S iagnosis Prod SWITCH INPUT OFF. Switch connector	SIDE : Diagnosis Pro cedure SIGNAL		INFOID:00000006451511
YES >> Forward sw NO >> Refer to S RIVER SIDE : Di CHECK FORWARD Turn ignition switch Disconnect forward	E-61, "DRIVER S iagnosis Prod SWITCH INPUT OFF. d switch connector veen forward swi	SIDE : Diagnosis Pro cedure SIGNAL rr.		
YES >> Forward sw NO >> Refer to <u>S</u> RIVER SIDE : Di .CHECK FORWARD Turn ignition switch Disconnect forward Check voltage betw (+) Forward	E-61, "DRIVER S iagnosis Prod SWITCH INPUT OFF. d switch connecto veen forward swi	SIDE : Diagnosis Pro cedure SIGNAL rr.		INFOID:00000006451511 Voltage (V) (Approx.)
<pre>/ES >> Forward sw NO >> Refer to S RIVER SIDE : Di .CHECK FORWARD Turn ignition switch Disconnect forward Check voltage betw (+) Forward</pre>	E-61, "DRIVER S iagnosis Prod SWITCH INPUT OFF. d switch connector veen forward swi) switch Terminal	SIDE : Diagnosis Pro Cedure SIGNAL or. tch harness connect	cor and ground.	Voltage (V) (Approx.)
YES >> Forward sw NO >> Refer to <u>S</u> RIVER SIDE : Di .CHECK FORWARD Turn ignition switch Disconnect forward Check voltage betw (+) Forward Connector B512	E-61, "DRIVER S iagnosis Prod SWITCH INPUT OFF. d switch connector veen forward swi) switch Terminal 41	SIDE : Diagnosis Pro cedure SIGNAL pr. tch harness connect	or and ground.	Voltage (V)
YES >> Forward sw NO >> Refer to S RIVER SIDE : Di .CHECK FORWARD Turn ignition switch Disconnect forward Check voltage betw (+) Forward Connector B512 the inspection result YES >> GO TO 3. NO >> GO TO 2. .CHECK FORWARD Disconnect driver s	E-61, "DRIVER S iagnosis Prod SWITCH INPUT OFF. d switch connector veen forward swi) switch Terminal 41 normal? SWITCH CIRCL seat control unit of	SIDE : Diagnosis Pro Cedure SIGNAL or. tch harness connect (-) Ground	cor and ground.	Voltage (V) (Approx.) 5
YES >> Forward sw NO >> Refer to S RIVER SIDE : Di .CHECK FORWARD Turn ignition switch Disconnect forward Check voltage betw (+) Forward Connector B512 the inspection result YES >> GO TO 3. NO >> GO TO 2. .CHECK FORWARD Disconnect driver s Check continuity be tor.	E-61, "DRIVER S iagnosis Prod SWITCH INPUT OFF. d switch connector veen forward swi) switch Terminal 41 normal? SWITCH CIRCL seat control unit of	SIDE : Diagnosis Pro Cedure SIGNAL or. tch harness connect (-) Ground	cor and ground.	Voltage (V) (Approx.) 5
NO >> Refer to S RIVER SIDE : Di CHECK FORWARD Turn ignition switch Disconnect forward Check voltage betw (+) Forward Connector B512 the inspection result YES >> GO TO 3. NO >> GO TO 2. CHECK FORWARD Disconnect driver s Check continuity be tor.	E-61, "DRIVER S iagnosis Prod SWITCH INPUT OFF. d switch connector veen forward swi) switch 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SIDE : Diagnosis Pro Cedure SIGNAL or. tch harness connect (-) Ground	or and ground. Condition Not in the sleep mode	Voltage (V) (Approx.) 5

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

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>SE-205, "Removal and Installation"</u>

NO >> Repair or replace harness.

< 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-188, "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 FORWARD SWITCH

1. Turn ignition switch OFF.

2. Disconnect forward switch connector.

3. Check continuity between forward switch terminals.

Forwar	Forward switch Terminal		Condition	
Terr				
41	32	Driver side seatback	Folded up	Not existed
41	52	Differ side seatback	Folded down	Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace forward switch. Refer to <u>SE-188, "Exploded View"</u>.

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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INFOID:000000006451513

< DTC/CIRCUIT DIAGNOSIS >

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000006451515

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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	at control unit	Forwar	d switch	Continuity	ŀ
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	Ground	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 replac	e harness.		
1. CHECK FORWARD SWI	ТСН		
Check forward switch.			
Refer to <u>SE-64, "PASSENGI</u>	ER SIDE : Component Ins	pection".	
<u>s the inspection result norm</u>	<u>al?</u>		
YES >> GO TO 5.			
NO >> Replace forward	switch. Refer to <u>SE-188.</u>	<u>"Exploded View"</u> .	
CHECK PASSENGER SE	EAT CONTROL UNIT OUT	PUT SIGNAL	
Connect passenger sea	t control unit connector.	91	

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			
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-206, "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:000000006451516

1.CHECK FORWARD SWITCH

1. Turn ignition switch OFF.

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

Forwar	d switch	Condition		Continuity	
Ter	minal				
32	41	Passenger side seatback	Folded up	Not existed	
	41	Fassenger side sealback	Folded down	Existed	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace forward switch. Refer to <u>SE-188, "Exploded View"</u>.

< DTC/CIRCUIT DIAGNOSIS > SEAT BELT BUCKLE SWITCH А DRIVER SIDE DRIVER SIDE : Description INFOID:00000006451517 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:000000006451518 **1.**CHECK FUNCTION 1. Turn ignition switch ON. Select "SEAT BELT SW" in the "Data Monitor" mode using CONSULT-III. 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:000000006451519 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 M 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 Driver seat control unit Seat belt buckle switch (driver side) 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-205, "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	Continuity
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-188, "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) Terminal		Condition	
Terr				
1	2	Driver side seat belt	Fastened	Not existed
I	2	Driver side seat beit	Released	Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace seat belt buckle switch (driver side). Refer to <u>SE-188, "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: 2011 December

INFOID:000000006451521

INFOID:00000006451520

< DTC/CIRCUIT DIAGNOSIS >

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000006451523

А

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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) (Approx.)	С
	Connector	Terminal			(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	B552	5	Ground	Passenger side seat belt is fastened, and not in the sleep mode	5	D
				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 seat control unit		Seat belt buckle sw	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	
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 swit	Seat belt buckle switch (passenger side) Continuity					
Connector	Terminal	Ground	Continuity	M		
B213	2		Existed			
Is the inspection result norma	<u> ?</u>			N		
YES >> GO TO 4.						
NO >> Repair or replace						
4.CHECK SEAT BELT BUC	KLE SWITCH (PASSENG	ER SIDE)		0		
Check seat belt buckle switch						
Refer to SE-68. "PASSENGE	R SIDE : Component Ins	<u>pection"</u> .				
Is the inspection result norma	<u>l?</u>			P		
YES >> GO TO 5.						
NO >> Replace seat bel	t buckle switch (passenge	er side) Refer to SE-188	"Exploded View"			

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	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-206, "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:000000006451524

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
Terr	minal	Condit	Condition	
1	2	Passenger side seat belt	Fastened	Not existed
I	2		Released	Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace seat belt buckle switch (passenger side). Refer to <u>SE-188, "Exploded View"</u>.

< DTC/CIRCUIT DIAG						
SLIDING LIMIT S	SWITCH					А
DRIVER SIDE : De	scription				INFOID:000000006451525	В
 Sliding limit switch is in Sliding limit switch determination 						
DRIVER SIDE : Co		•	k			С
1.CHECK FUNCTION			n		INFOID:000000006451526	
1. Turn ignition switch	ON					D
 Select "FWD LIMIT Check the sliding lin 	SW" in the "Data M					E
Test item		Condit	on		Status	
	Front edge ON			ON	_	
FWD LIMIT SW	Seat sliding	C	Other than above		OFF	F
Is the indication normal?	-					
	switch function is C -69, "DRIVER SIDE		Procoduro"			G
_		-	Procedure			
DRIVER SIDE : Dia	agnosis Proced	dure			INFOID:000000006451527	Н
1. CHECK SLIDING LIN	IT SWITCH INPUT	SIGNAL				
1. Turn ignition switch	OFF.					
2. Disconnect sliding li	mit switch connecto					
3. Check voltage betwe	een sliding limit swi	tch harness c	onnector and groui	nd.		
(+)						SE
Sliding limi	t switch	()	Condi	tion	Voltage (V) (Approx.)	
Connector	Terminal				(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	LZ.
B514	4	Ground	Not in the sl	eep mode	5	K
Is the inspection result n YES >> GO TO 3. NO >> GO TO 2.	ormal?					L
2.CHECK SLIDING LIN	IIT SWITCH CIRCU	JIT				
1. Disconnect driver se			mess connector an	d sliding lim	it switch harpass oon	M
2. Check continuity be nector.	tween unver sear of				it switch hamess con-	
-			Sliding limit switch			Ν
nector.		Connec	Sliding limit switch	ninal	Continuity	Ν
nector. Driver seat o	control unit		tor Terr	ninal		
nector. Driver seat of Connector	control unit Terminal 4	Connect B514	tor Terr	4	Continuity	
nector. Driver seat of Connector B503 3. Check continuity be	control unit Terminal 4	Connect B514	tor Terr	4	Continuity	N O P
nector. Driver seat of Connector B503 3. Check continuity be	control unit Terminal 4 tween driver seat co	Connec B514 Ontrol unit har	tor Terr	4	Continuity	0
nector. Driver seat of Connector B503 3. Check continuity be Driver	control unit Terminal 4 tween driver seat co	Connec B514 Ontrol unit har	ness connector and	4	Continuity Existed	

YES >> Replace driver seat control unit. Refer to <u>SE-205, "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-188, "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 limit switch Terminal		Condition Continu	
	32		Front edge	Not existed
4	32	Seat sliding	Other than above	Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace sliding limit switch. Refer to <u>SE-188</u>, "Exploded View".

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>.

INEOID:000000006451528

INFOID:000000006451529

< DTC/CIRCUIT DIAGNOSIS > **PASSENGER SIDE : Diagnosis Procedure** INFOID:000000006451531 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-188, "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.

SE-71

< DTC/CIRCUIT DIAGNOSIS >

(+) Passenger seat control unit		()	Condition	Voltage (V) (Approx.)
Connector	Connector Terminal			
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-206, "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:000000006451532

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		
Terminal		Con	ulion	Continuity	
1	4 32 Seat sliding	Soot cliding	Front edge	Not existed	
4	52	Seat sliding	Other than above	Existed	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace sliding limit switch. Refer to <u>SE-188, "Exploded View"</u>.

COTC/CIRCUIT DIAG	NOSIS >			
POWER WALK-	IN SWITCH			
DRIVER SIDE				
DRIVER SIDE : De	escription			INFOID:00000006451533
Power walk-in switch The operation signal i			nower welk in ewitch	is operated
	•			ris operated.
DRIVER SIDE : Co	Smponent Fund	Clion Check		INFOID:00000006451534
.CHECK FUNCTION				
	ON. W" in the "Data Mor alk-in switch signal			
Test item		Con	dition	Status
	Dowor	walk-in switch	Pressed	ON
WALK-IN SW	Power	waik-in switch	Released	OFF
	? -in switch function is E-73, "DRIVER SID		cedure".	
	agnosis Proce	-		INFOID:00000006451535
יער איז				
		.		
.CHECK POWER WA		GNAL		
CHECK POWER WA	OFF. valk-in switch conne	ector.	nnector and ground.	
CHECK POWER WA	OFF. valk-in switch conne	ector.	nnector and ground.	
CHECK POWER WA	OFF. valk-in switch conne veen power walk-in s	ector.	nnector and ground.	Voltage (V) (Approx.)
CHECK POWER WA	OFF. valk-in switch conne veen power walk-in s (+)	ector. switch harness cor		Voltage (V) (Approx.)
CHECK POWER WA	OFF. walk-in switch connerveen power walk-in source (+) ////////////////////////////////////	ector. switch harness cor		=
CHECK POWER WA	OFF. valk-in switch connerveen power walk-in source (+) ver walk-in switch ver walk-in switch Termi 30 normal? ALK-IN SWITCH CIF eat control unit conr	ector. switch harness cor nal RCUIT nector.	(–) Ground	(Approx.)
CHECK POWER WA	OFF. valk-in switch connerveen power walk-in solution (+) ////////////////////////////////////	ector. switch harness cor nal RCUIT nector. control unit harnes	(–) Ground	(Approx.) Battery voltage
CHECK POWER WA	OFF. valk-in switch connerveen power walk-in solution (+) ////////////////////////////////////	ector. switch harness cor nal RCUIT nector. control unit harnes	(-) Ground	(Approx.) Battery voltage
CHECK POWER WA Turn ignition switch Disconnect power w Check voltage betw Pow Connector B513 the inspection result of YES >> GO TO 3. NO >> GO TO 2. CHECK POWER WA Disconnect driver s Check continuity be connector. Driver seat Connector B503	OFF. valk-in switch connerveen power walk-in set (+) ver walk-in switch (+) ver walk-in switch Termia 30 ALK-IN SWITCH CIF eat control unit conrect etween driver seat control unit Terminal 30	RCUIT nal RCUIT nector. control unit harnes Power v Connector B513	(-) Ground ss connector and pow valk-in switch Terminal 30	(Approx.) Battery voltage wer walk-in switch harness Continuity Existed
CHECK POWER WA Turn ignition switch Disconnect power w Check voltage betw Pow Connector B513 the inspection result of YES >> GO TO 3. NO >> GO TO 2. CHECK POWER WA Disconnect driver s Check continuity be connector. Driver seat Connector B503	OFF. valk-in switch connerveen power walk-in set (+) ver walk-in switch (+) ver walk-in switch Termia 30 ALK-IN SWITCH CIF eat control unit conrect etween driver seat control unit Terminal 30	RCUIT nal RCUIT nector. control unit harnes Power v Connector B513	(-) Ground ss connector and pov valk-in switch	(Approx.) Battery voltage wer walk-in switch harness Continuity Existed
CHECK POWER WA	OFF. valk-in switch connerveen power walk-in set (+) ver walk-in switch (+) ver walk-in switch Termia 30 ALK-IN SWITCH CIF eat control unit conrect etween driver seat control unit Terminal 30	RCUIT nal RCUIT nector. control unit harnes Power v Connector B513	(-) Ground ss connector and pow valk-in switch Terminal 30	(Approx.) Battery voltage wer walk-in switch harness Continuity Existed nd.
CHECK POWER WA Turn ignition switch Disconnect power w Check voltage betw Connector B513 the inspection result of YES >> GO TO 3. NO >> GO TO 3. NO >> GO TO 2. CHECK POWER WA Disconnect driver s Check continuity be connector. Driver seat Connector B503 Check continuity be connector B503 Check continuity B503 Check contin	OFF. valk-in switch connerveen power walk-in service of the servi	Action in the sector is writch harness con switch harness con an	(-) Ground ss connector and pow valk-in switch Terminal 30	(Approx.) Battery voltage wer walk-in switch harness Continuity Existed

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 walk-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-188, "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:000000006451536

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 walk-in switch		Condition		Continuity	
Terr	minal	Condition		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-188, "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:000000006451537

INFOID:000000006451538

< DTC/CIRCUIT DIAGNOSIS > **PASSENGER SIDE : Diagnosis Procedure** INFOID:00000006451539 А 1.CHECK POWER WALK-IN 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 Pressed 0 D B552 30 Ground Power walk-in switch Released Battery voltage Is the inspection result normal? YES >> Power walk-in switch circuit is OK. NO >> GO TO 2. 2.CHECK POWER WALK-IN SWITCH CIRCUIT 1. Disconnect passenger seat control unit connector and power walk-in switch connector. Check continuity between passenger seat control unit harness connector and power walk-in switch har-2. ness connector. Passenger seat control unit Power walk-in switch Continuity Connector Terminal Connector Terminal Н B552 30 B557 30 Existed 3. Check continuity between passenger seat control unit harness connector and ground. Passenger seat control unit Continuity Connector Terminal Ground SE B552 30 Not existed Is the inspection result normal? YES >> GO TO 3. Κ NO >> Repair or replace harness. ${f 3.}$ CHECK POWER WALK-IN SWITCH GROUND CIRCUIT Check continuity between power walk-in switch harness connector and ground. L Power walk-in switch Continuity Connector Terminal Ground M B557 32 Existed Is the inspection result normal? Ν YES >> GO TO 4. NO >> Repair or replace harness. 4.CHECK POWER WALK-IN SWITCH Check power walk-in switch. Refer to SE-76, "PASSENGER SIDE : Component Inspection". Is the inspection result normal? Ρ YES >> GO TO 5. NO >> Replace power walk-in switch. Refer to <u>SE-188</u>, "Exploded View". ${f 5}.$ CHECK PASSENGER SEAT CONTROL UNIT OUTPUT

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		()	Voltage (V) (Approx.)
Connector	Terminal		(, , , , , , , , , , , , , , , , , , ,
B552	30	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace passenger seat control unit. Refer to <u>SE-206, "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:000000006451540

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 walk-in switch		Condition		Continuity
Terr	minal			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-188, "Exploded View"</u>.

DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >	
DOOR SWITCH	A
Description	~
Detects passenger side doors open or closed condition.	В
Component Function Check	
1.CHECK FUNCTION	С
Check that passenger side power walk-in function operates. Is the inspection result normal? YES >> Door switch function is OK. NO >> Refer to SE-77, "Diagnosis Procedure". Diagnosis Procedure INFOID:00000006451543	D
1. CHECK PASSENGER SIDE DOOR SWITCH	
Check passenger side door switch. Refer to <u>SE-77, "Component Function Check"</u> .	F
Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts.	G
2.CHECK PASSENGER SIDE DOOR SWITCH INPUT SIGNAL	Н

1. Turn ignition switch OFF.

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

(+)				e
Passenger sea	at control unit	(—)	Condition		Signal (Reference value)
Connector	Terminal				
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.

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DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

 Passenger side 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:000000006451544 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:00000006451545 **1.**CHECK FUNCTION D 1. Turn ignition switch ON. Select "SLIDE PULSE" in the "Data Monitor" mode using CONSULT-III. 2. 3. Check sliding sensor signal under the following conditions. 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. NO >> Refer to SE-79, "DRIVER SIDE : Diagnosis Procedure". DRIVER SIDE : Diagnosis Procedure INFOID:000000006451546 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	Connector Terminal	
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-205</u>, "Removal and Installation".

NO >> Repair or replace harness.

3.CHECK SLIDING SENSOR POWER SUPPLY

Check voltage between sliding sensor harness connector and ground.

(+)			Voltage (V) (Approx.)
	Sliding sensor		
Connector	Terminal		
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	Connector Terminal		Continuity	
B503	16		Not existed	

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>SE-205, "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	Continuity		
-	Connector	Terminal	Connector Terminal		Continuity	
	B503	31	B526	31	Existed	

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

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	Driver seat cont	rol unit			
Connect		Terminal		Ground	Continuity
B503		31			No existed
the inspection re	esult normal?				
ES >> GO TO	D 6.				
•	r or replace ha				
CHECK SLIDIN	IG SENSOR G	ROUND			
Connect drive			l unit harness	connector and g	nound
	Driver seat cont				Continuity
Connect	or	Terminal		Ground	
B503		31			Existed
the inspection re		5 4 4 65			
		or. Refer to <u>SE</u>		<u>ed View"</u> . "Removal and li	nstallation"
ASSENGER			<u>DE 200,</u>	Ternoval and h	<u>Installation</u> .
	-				
ASSENGER	SIDE : Des	cription			INFOID:0000000645
The sliding sens	or is installed o	on the seat slide	e cushion fram	e.	
The pulse signal	is transmitted	to the passeng	er seat control	unit when slidir	
The passenger s	seat control un	t counts the pul	lse and calcula	ates the sliding a	amount of the seat.
	SIDE : Con	nnonent Fur	nction Chec		INFOID:0000000645
ASSENGER		ipononit i ui		'n	INI 012.000000045
				'n	NY 012.0000000043
CHECK FUNC	TION	•			
CHECK FUNC	TION not power wall	•			valk-in switch is pressed.
CHECK FUNC neck whether or the indication no	TION not power wall <u>prmal?</u>	 k-in function act 			
CHECK FUNC neck whether or the indication no 'ES >> Sliding	TION not power wall <u>ormal?</u> g sensor functi	 k-in function act on is OK. 	tivates normall	y when power w	
CHECK FUNC neck whether or the indication no (ES >> Sliding NO >> Refer	TION not power wall <u>ormal?</u> g sensor functi to <u>SE-81, "PAS</u>	k-in function act on is OK.	tivates normall E : Diagnosis	y when power w	valk-in switch is pressed.
CHECK FUNC neck whether or the indication no (ES >> Sliding IO >> Refer	TION not power wall <u>ormal?</u> g sensor functi to <u>SE-81, "PAS</u>	k-in function act on is OK.	tivates normall E : Diagnosis	y when power w	valk-in switch is pressed.
CHECK FUNC neck whether or the indication no (ES >> Sliding IO >> Refer ASSENGER	TION not power wall ormal? g sensor functi to <u>SE-81, "PAS</u> SIDE : Dia(-in function act on is OK. SSENGER SIDI gnosis Proc	tivates normall E : Diagnosis	y when power w	
CHECK FUNC neck whether or the indication no ES >> Sliding O >> Refer	TION not power wall ormal? g sensor functi to <u>SE-81, "PAS</u> SIDE : Diag	-in function act on is OK. SSENGER SIDI gnosis Proc	tivates normall E : Diagnosis	y when power w	valk-in switch is pressed.
CHECK FUNC neck whether or the indication no (ES >> Sliding (S) >> Refer ASSENGER CHECK SLIDIN Turn ignition s	TION not power wall ormal? g sensor functi to <u>SE-81, "PAS</u> SIDE : Diag NG SENSOR S witch OFF.	 k-in function act on is OK. SSENGER SIDI GNOSIS Proc IGNAL 	tivates normall E : Diagnosis edure	y when power w Procedure".	valk-in switch is pressed.
CHECK FUNC neck whether or the indication no (ES >> Sliding (S) >> Refer ASSENGER .CHECK SLIDIN Turn ignition s	TION not power wall <u>ormal?</u> g sensor functi to <u>SE-81, "PAS</u> SIDE : Diag NG SENSOR S witch OFF. petween passe	 k-in function act on is OK. SSENGER SIDI GNOSIS Proc IGNAL 	tivates normall E : Diagnosis edure	y when power w Procedure".	valk-in switch is pressed.
CHECK FUNC heck whether or the indication no (ES >> Sliding NO >> Refer ASSENGER .CHECK SLIDIN Turn ignition s Check signal b	TION not power wall ormal? g sensor functi to <u>SE-81, "PAS</u> SIDE : Diag NG SENSOR S witch OFF. petween passe	 k-in function act on is OK. SSENGER SIDI GNOSIS Proc IGNAL 	tivates normall E : Diagnosis edure rol unit harness	y when power w Procedure".	valk-in switch is pressed.
CHECK FUNC neck whether or the indication no (ES >> Sliding IO >> Refer ASSENGER CHECK SLIDIN Turn ignition s Check signal b	TION not power wall ormal? g sensor functi to <u>SE-81, "PAS</u> SIDE : Diag NG SENSOR S witch OFF. petween passe	 k-in function act on is OK. SSENGER SIDI gnosis Proc IGNAL Inger seat contr 	tivates normall E : Diagnosis edure rol unit harness	y when power w <u>Procedure"</u> . s connector and	valk-in switch is pressed. INFOID:00000000045 ground with oscilloscope.
CHECK FUNC heck whether or the indication no (ES >> Sliding NO >> Refer ASSENGER .CHECK SLIDIN Turn ignition s Check signal b (+ Passenger sea	TION not power wall <u>ormal?</u> g sensor functi- to <u>SE-81, "PAS</u> SIDE : Diag NG SENSOR S witch OFF. petween passe	 k-in function act on is OK. SSENGER SIDI gnosis Proc IGNAL Inger seat contr 	tivates normall E : Diagnosis edure rol unit harness	y when power w <u>Procedure"</u> . s connector and	valk-in switch is pressed. INFOID:00000000645 ground with oscilloscope.
CHECK FUNC heck whether or the indication no (ES >> Sliding NO >> Refer ASSENGER .CHECK SLIDIN Turn ignition s Check signal b (+ Passenger sea	TION not power wall <u>ormal?</u> g sensor functi- to <u>SE-81, "PAS</u> SIDE : Diag NG SENSOR S witch OFF. petween passe	 k-in function act on is OK. SSENGER SIDI gnosis Proc IGNAL Inger seat contr 	tivates normall E : Diagnosis edure rol unit harness	y when power w <u>Procedure"</u> . s connector and	valk-in switch is pressed.
CHECK FUNC heck whether or the indication no YES >> Sliding NO >> Refer ASSENGER CHECK SLIDIN Turn ignition s Check signal b (+ Passenger sea	TION not power wall <u>ormal?</u> g sensor functi- to <u>SE-81, "PAS</u> SIDE : Diag NG SENSOR S witch OFF. petween passe	 k-in function act on is OK. SSENGER SIDI gnosis Proc IGNAL Inger seat contr 	tivates normall E : Diagnosis edure rol unit harness	y when power w <u>Procedure"</u> . s connector and	valk-in switch is pressed.
CHECK FUNC heck whether or the indication no (ES >> Sliding IO >> Refer ASSENGER CHECK SLIDIN Turn ignition s Check signal b (+ Passenger sea Connector	TION not power wall ormal? g sensor functi to <u>SE-81, "PAS</u> SIDE : Diag NG SENSOR S witch OFF. between passe	<pre>c-in function act on is OK. SSENGER SIDI gnosis Proc IGNAL onger seat contr</pre>	tivates normall E : Diagnosis edure rol unit harness	y when power w <u>Procedure"</u> . s connector and	valk-in switch is pressed.
CHECK FUNC heck whether or the indication no (ES >> Sliding NO >> Refer ASSENGER .CHECK SLIDIN Turn ignition s Check signal b (+ Passenger sea	TION not power wall <u>ormal?</u> g sensor functi- to <u>SE-81, "PAS</u> SIDE : Diag NG SENSOR S witch OFF. petween passe	 k-in function act on is OK. SSENGER SIDI gnosis Proc IGNAL Inger seat contr 	tivates normall E : Diagnosis edure rol unit harness	y when power w <u>Procedure</u> ". s connector and ndition	valk-in switch is pressed.
CHECK FUNC heck whether or the indication no (ES >> Sliding NO >> Refer ASSENGER .CHECK SLIDIN Turn ignition s Check signal t (+ Passenger sea Connector	TION not power wall ormal? g sensor functi to <u>SE-81, "PAS</u> SIDE : Diag NG SENSOR S witch OFF. between passe	<pre>c-in function act on is OK. SSENGER SIDI gnosis Proc IGNAL onger seat contr</pre>	tivates normall E : Diagnosis edure rol unit harness	y when power w <u>Procedure</u> ". s connector and ndition	valk-in switch is pressed. INFOID:000000000645 ground with oscilloscope. Signal (Reference value)
CHECK FUNC heck whether or the indication no (ES >> Sliding NO >> Refer ASSENGER .CHECK SLIDIN Turn ignition s Check signal t (+ Passenger sea Connector	TION not power wall ormal? g sensor functi to <u>SE-81, "PAS</u> SIDE : Diag NG SENSOR S witch OFF. between passe	<pre>c-in function act on is OK. SSENGER SIDI gnosis Proc IGNAL onger seat contr</pre>	tivates normall E : Diagnosis edure rol unit harness	y when power w Procedure". s connector and ndition Operate	valk-in switch is pressed.
CHECK FUNC neck whether or the indication no ES >> Sliding IO >> Refer ASSENGER CHECK SLIDIN Turn ignition s Check signal f (+ Passenger sea Connector	TION not power wall ormal? g sensor functi to <u>SE-81, "PAS</u> SIDE : Diag NG SENSOR S witch OFF. between passe	<pre>c-in function act on is OK. SSENGER SIDI gnosis Proc IGNAL onger seat contr</pre>	tivates normall E : Diagnosis edure rol unit harness	y when power w <u>Procedure</u> ". s connector and ndition	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	eat control unit	Sliding	sensor	Continuity	
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	Terminal	Ground	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		Voltage (V) (Approx.)	
Connector	Terminal		() ()	
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 sea	at control unit		Continuity	
Connector	Terminal	Ground	Continuity	
B552	16		Not existed	

Is the inspection result normal?

YES >> Replace passenger seat control unit. Refer to <u>SE-206, "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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	t control unit	Sliding	g sensor	Continuity
Connector	Terminal	Connector	Terminal	Continuity
B552	31	B568	31	Existed
Check continuity bet	ween passenger se	eat control unit harnes	ss connector and gro	ound.
Passeng	er seat control unit			_
Connector	Termin	al	Ground	Continuity
B552	31			Not existed
the inspection result ne	ormal?	1	1	
YES >> GO TO 6.				
NO >> Repair or rep				
CHECK SLIDING SEI	NSOR GROUND			
Connect passenger				
Check continuity bet	ween passenger se	eat control unit harnes	ss connector and gro	bund.
Passend	er seat control unit			
Connector	Termin	al	Ground	Continuity
B552	31			Existed
the inspection result ne	ormal?			

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< 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-III.
- 3. Check sliding motor operation.

Tes	titem	Description	
	OFF		Stop
SEAT SLIDE	FR	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:000000006451552

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		Condition		Voltage (V) (Approx.)
Connector	Terminal				(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	25			Forward	Battery voltage
DEDE	35 B525	Ground	Clide owitch	Other than above	0
B020			Slide switch	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	g 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:000000006451550

INFOID:000000006451551

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Driver seat	control unit		
Connector	Terminal		Continuity
	35	Ground	
B504	42	-	Not existed
s the inspection result norma YES >> Replace driver so NO >> Repair or replace CHECK SLIDING MOTOR Check sliding motor.	eat control unit. Refer to Second s	E-205. "Removal and Inst	allation".
Refer to <u>SE-85, "DRIVER SI</u>	DE : Component Inspectio	<u>on"</u> .	
	notor. Refer to <u>SE-188, "E</u>	xploded View".	
4.CHECK INTERMITTENT	INCIDENT		_
Check intermittent incident. Refer to <u>GI-43, "Intermittent I</u>	ncident".		
>> INSPECTION EN	ND		
DRIVER SIDE : Compo	onent Inspection		INFOID:00000006451553
1.CHECK SLIDING MOTOR			
Visually check the sliding mo	• ·	d check that the sliding mo	tor is not broken.
Is the inspection result norma YES >> GO TO 2.	<u>al :</u>		
NO >> Repair or replace	e seat cushion frame (slidi	ng motor).	
2. CHECK SLIDING MOTOR	R-2		
 Turn ignition switch OFF. Disconnect sliding motor Supply sliding motor tern 		and check operation.	
14	Ten	minal	Or continu
Item -	(+)	(–)	Operation
Sliding motor	35	42	Forward
	42	35	Backward
PASSENGER SIDE	ND notor. Refer to <u>SE-188, "E</u>	Exploded View".	
PASSENGER SIDE : D	Description		INFOID:0000000645155
 The seat sliding motor is in: The seat sliding motor is ac The seat is slid forward/bac 	tivated with the passenge	er seat control unit.	notor.
PASSENGER SIDE : C	Component Functior	n Check	INFOID:0000000645155
1.CHECK SLIDING MOTOR	CIRCUIT		
Check sliding operation with			
Is the inspection result norma	<u>al :</u>		

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YES >> Sliding motor function is OK.

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

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000006451556

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		(-)	C	ondition	Voltage (V) (Approx.)	
Connector	Terminal				(
	35			Forward	Battery voltage	
B567	35	Ground	Slide switch	Other than above	0	
B307	42	Ground		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		or 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	eat 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-206, "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-188, "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	Λ
1.CHECK SLIDING MOTOR-1	~
Visually check the sliding motor for foreign objects, and check that the sliding motor is not broken.	В
Is the inspection result normal?	
YES >> GO TO 2. NO >> Repair or replace seat cushion frame (sliding motor).	0
2.CHECK SLIDING MOTOR-2	C
1. Turn ignition switch OFF.	
 Disconnect sliding motor connector. Supply sliding motor terminals with battery voltage and check operation. 	D

ltem	Terr	minal	Operation	E
nem	(+)	(-)	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-188, "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

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 Connector Terminal		()	Condition		Voltage (V) (Approx.)
	26		Reclining switch	Forward	Battery voltage
B524	36	Ground		Other than above	0
B324	4.4			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	ng motor	Driver seat control unit		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B524	36	B504	36	Existed
6524	44	6504	44	

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

Reclini	ing motor		Continuity
Connector	Terminal	Ground	Continuity
B524	36	Ground	Not existed
D324	44		NUL EXISIEU

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>SE-205, "Removal and Installation"</u>.

NO >> Repair or replace harness.

SE-88

INFOID:000000006451558

INFOID:00000006451559

INF0ID:000000006451560

< DTC/CIRCUIT DIAGNOS			
3. CHECK RECLINING MO ^{\cdot}	TOR		
Check reclining motor.		"	
s the inspection result norm	DE : Component Inspection		
YES >> GO TO 4.			
· ·	g motor. Refer to <u>SE-188, "E</u>	Exploded View".	
1. CHECK INTERMITTENT	INCIDENT		
Check intermittent incident. Refer to <u>GI-43, "Intermittent</u>	Incident".		
>> INSPECTION E	ND		
DRIVER SIDE : Comp	onent Inspection		INFOID:00000006451561
1. CHECK RECLINING MO ⁻	TOR-1		
/isually check the sliding mc	otor for foreign objects, and c	check that the reclining m	otor is not broken.
s the inspection result norm	al?	-	
YES >> GO TO 2. NO >> Repair or replace	e seatback frame (reclining r	motor)	
2. CHECK RECLINING MO			
1. Turn ignition switch OFF			
 Disconnect reclining more Supply reclining motor te 	tor connector. erminals with battery voltage	and chack aparation	
	similars with battery voltage		
Item	Termir		Operation
	(+)	(-)	Forward
Reclining motor	44	36	Backward
s the inspection result norm	al?		
YES >> INSPECTION E			
	g motor. Refer to <u>SE-188, "E</u>	Exploded View".	
PASSENGER SIDE	g motor. Refer to <u>SE-188, "E</u>	Exploded View".	
PASSENGER SIDE	g motor. Refer to <u>SE-188, "E</u>	Exploded View".	INF0ID:000000008451562
PASSENGER SIDE PASSENGER SIDE : [• The seat reclining motor is	g motor. Refer to <u>SE-188. "E</u> Description installed to the seatback fra	ime.	INFOID:000000008451562
PASSENGER SIDE PASSENGER SIDE : [• The seat reclining motor is • The seat reclining motor is	g motor. Refer to <u>SE-188. "E</u> Description installed to the seatback fra activated with the passenge	me. er seat control unit.	
PASSENGER SIDE PASSENGER SIDE : [• The seat reclining motor is • The seat reclining motor is • The seatback is reclined for	g motor. Refer to <u>SE-188. "E</u> Description installed to the seatback fra activated with the passenge orward/backward by changing	me. er seat control unit. g the rotation direction of	
PASSENGER SIDE PASSENGER SIDE : [• The seat reclining motor is • The seat reclining motor is • The seatback is reclined fo PASSENGER SIDE : (g motor. Refer to <u>SE-188. "E</u> Description installed to the seatback fra activated with the passenge orward/backward by changing Component Function (me. er seat control unit. g the rotation direction of	reclining motor.
PASSENGER SIDE PASSENGER SIDE : [• The seat reclining motor is • The seat reclining motor is • The seatback is reclined fo PASSENGER SIDE : (1.CHECK RECLINING MO	g motor. Refer to <u>SE-188. "E</u> Description installed to the seatback fra activated with the passenge orward/backward by changing Component Function (TOR FUNCTION	me. er seat control unit. g the rotation direction of	reclining motor.
PASSENGER SIDE PASSENGER SIDE : I • The seat reclining motor is • The seat reclining motor is • The seatback is reclined fo PASSENGER SIDE : (1.CHECK RECLINING MO Check reclining operation with	g motor. Refer to <u>SE-188. "E</u> Description installed to the seatback fra activated with the passenge orward/backward by changing Component Function (TOR FUNCTION th power seat switch.	me. er seat control unit. g the rotation direction of	reclining motor.
PASSENGER SIDE PASSENGER SIDE : [• The seat reclining motor is • The seat reclining motor is • The seatback is reclined for PASSENGER SIDE : (1.CHECK RECLINING MO Check reclining operation with the inspection result normal YES >> Reclining motor	g motor. Refer to <u>SE-188. "E</u> Description installed to the seatback fra activated with the passenge orward/backward by changing Component Function (TOR FUNCTION th power seat switch. <u>al?</u> function is OK.	ime. er seat control unit. g the rotation direction of Check	reclining motor.
PASSENGER SIDE PASSENGER SIDE : I • The seat reclining motor is • The seat reclining operation with the inspection result normality is the in	g motor. Refer to <u>SE-188. "E</u> Description installed to the seatback fra activated with the passenge orward/backward by changing Component Function (TOR FUNCTION th power seat switch. <u>al?</u> function is OK. <u>"PASSENGER SIDE : Diagn</u>	ime. er seat control unit. g the rotation direction of Check	reclining motor.
PASSENGER SIDE PASSENGER SIDE : I • The seat reclining motor is • The seat reclining motor is • The seatback is reclined fo PASSENGER SIDE : (1.CHECK RECLINING MO Check reclining operation with Is the inspection result normation YES >> Reclining motor NO >> Refer to <u>SE-89</u> , PASSENGER SIDE : [g motor. Refer to <u>SE-188. "E</u> Description installed to the seatback fra activated with the passenge orward/backward by changing Component Function (TOR FUNCTION th power seat switch. <u>al?</u> function is OK. <u>"PASSENGER SIDE : Diagn</u> Diagnosis Procedure	ime. er seat control unit. g the rotation direction of Check	reclining motor.
PASSENGER SIDE PASSENGER SIDE : [• The seat reclining motor is • The seat reclining motor is • The seatback is reclined fo PASSENGER SIDE : (1.CHECK RECLINING MO Check reclining operation with Is the inspection result normal YES >> Reclining motor	g motor. Refer to <u>SE-188. "E</u> Description installed to the seatback fra activated with the passenge orward/backward by changing Component Function (TOR FUNCTION th power seat switch. <u>al?</u> function is OK. <u>"PASSENGER SIDE : Diagn</u> Diagnosis Procedure	ime. er seat control unit. g the rotation direction of Check	reclining motor.
PASSENGER SIDE PASSENGER SIDE : I • The seat reclining motor is • The seat reclining motor is • The seatback is reclined fo PASSENGER SIDE : (1.CHECK RECLINING MO Check reclining operation with Is the inspection result normation YES >> Reclining motor NO >> Refer to <u>SE-89</u> , PASSENGER SIDE : [g motor. Refer to <u>SE-188. "E</u> Description installed to the seatback fra activated with the passenge orward/backward by changing Component Function (TOR FUNCTION th power seat switch. <u>al?</u> function is OK. <u>"PASSENGER SIDE : Diagn</u> Diagnosis Procedure TOR POWER SUPPLY	ime. er seat control unit. g the rotation direction of Check	reclining motor.

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< DTC/CIRCUIT DIAGNOSIS >

(+) Reclining motor		(–) Con		ndition	Voltage (V) (Approx.)
Connector	Terminal				(
	20			Forward	Battery voltage
DECC	36		Ground Re	Declining owitch	Other than above
8000	B566 44		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	Reclining motor		Passenger seat control unit	
Connector	Terminal	Connector	Terminal	Continuity
B566	36	B553	36	Existed
B300	44	6000	44	Existed

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

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

Is the inspection result normal?

YES >> Replace passenger seat control unit. Refer to <u>SE-206, "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-188, "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

INFOID:000000006451565

< DTC/CIRCUIT DIAGNOSIS >

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

Item	Terr	minal	Operation	В	
liem	(+)	(-)	Operation		
Declining motor	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-188, "Exploded View"</u>.

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< 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)		(–) Conc		dition	Voltage (V) (Approx.)
Connector	Terminal				(+ P + e + i)
	B528 45	Ground	Lifting switch (front)	Downward	Battery voltage
DE20				Other than above	0
D320				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 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	
B320	45	6304	45	Existed	

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

Lifting me	Lifting motor (front)		Continuity	
Connector	Terminal	Ground	Continuity	
B528	37	Ground	Not existed	
	45			

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>SE-205, "Removal and Installation"</u>.

NO >> Repair or replace harness.

SE-92

INFOID:000000006451566

INFOID:00000006451567

INFOID:000000006451568

< [TC/CIRCUIT DIAGNOS	IS >		
_	CHECK LIFTING MOTOF			
Ch	eck lifting motor (front).			
	fer to <u>SE-93, "DRIVER SI</u> he inspection result norm	DE : Component Inspection	<u>r"</u> .	
	ES >> GO TO 4.			
N		otor (front). Refer to <u>SE-18</u>	8, "Exploded View".	
	CHECK INTERMITTENT	INCIDENT		
	eck intermittent incident. fer to <u>GI-43, "Intermittent</u>	Incident".		
	>> INSPECTION EI			
DF	RIVER SIDE : Comp	onent Inspection		INFOID:00000006451569
1.	CHECK LIFTING MOTOF	R (FRONT) -1		
			, and check that the lifting	motor (front) is not broken.
	he inspection result norma ES >> GO TO 2.	<u>al?</u>		
N		e seat cushion frame (lifting	ı motor).	
2.	CHECK LIFTING MOTOF	R (FRONT) -2		
1. 2.	Turn ignition switch OFF Disconnect lifting motor	(front) connector		
2. 3.		t) terminals with battery vol	tage and check operation	
-		Term	inal	
	ltem	(+)	(-)	Operation
-	Lifting motor (front)	37	45	Downward
-		45	37	Upward
	he inspection result norma ES >> INSPECTION EI			
Ν	O >> Replace lifting m	otor (front). Refer to <u>SE-18</u>	8, "Exploded View".	
PA	SSENGER SIDE			
PA	SSENGER SIDE : [Description		INFOID:00000006451570
		nstalled to the seat slide cu		
		ctivated with the passenge pward/downward by chang		of lifting motor (front).
		Component Function		INFOID:00000006451571
		•		
	CHECK LIFTING MOTOR			
	eck lifting operation with p he inspection result norm			
Y	ES >> Lifting motor (fro	nt) function is OK.		
N		PASSENGER SIDE : Diag		
PA	SSENGER SIDE : [Diagnosis Procedure		INFOID:00000006451572
1.	CHECK LIFTING MOTOF	R (FRONT) POWER SUPPL	_Y	
1.	Turn ignition switch OFF			
2. 3.	Disconnect lifting motor Check voltage between	(front) connector. lifting motor (front) harness	connector and around.	

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

SE-93

< DTC/CIRCUIT DIAGNOSIS >

	(+) Lifting motor (front)		(-) Co		Voltage (V) (Approx.)
Connector	Terminal				(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	27	Ground	Lifting quitch (front)	Downward	Battery voltage
P560	37			Other than above	0
B309	B569 45		Lifting switch (front)	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 m	Lifting motor (front)		Continuity
Connector	Terminal	Ground	Continuity
B569	37	Ground	Not existed
B309	45		Not existed

Is the inspection result normal?

YES >> Replace passenger seat control unit. Refer to <u>SE-206, "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-188, "Exploded View"</u>.

4.CHECK INTERMITTENT INCIDENT

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

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:000000006451573

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.

Item	Terr	ninal	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-188, "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)		(–) Cond		Voltage (V) (Approx.)
Connector	Terminal	*			(· · · · · · · · · · · · · · · · · · ·
	20	Ground	Lifting switch (rear)	Upward	Battery voltage
P520	38			Other than above	0
6000	B530 39			Downward	Battery voltage
				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		
B530	38	B504	38	Existed
B030	39	B304	39	Existed

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

Lifting m	otor (rear)		Continuity
Connector	Terminal	Ground	Continuity
B530	38	Ground	Not existed
B330	39		NUL EXISIEU

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>SE-205, "Removal and Installation"</u>.

NO >> Repair or replace harness.

SE-96

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INFOID:000000006451576

	IS >			
3. CHECK LIFTING MOTOR	R (REAR)		Λ	Д
Check lifting motor (rear). Refer to <u>SE-97, "DRIVER SI</u>	DE : Component Inspection"		<i>Г</i>	~
Is the inspection result norm			E	В
YES >> GO TO 4. NO >> Replace lifting m	notor (rear). Refer to <u>SE-188</u>	"Exploded View"		
4.CHECK INTERMITTENT		, <u>Exploded view</u> .	C	С
Check intermittent incident.				
Refer to <u>GI-43, "Intermittent</u>	Incident".		Г	
>> INSPECTION E	ND		L	
DRIVER SIDE : Comp	onent Inspection		INFOID:00000006451577	E
1. CHECK LIFTING MOTOR	R (REAR) -1			
Visually check the lifting mot	or (rear) for foreign objects, a	and check that the lifting	motor (rear) is not broken.	F
<u>Is the inspection result norm</u> YES >> GO TO 2.	al?			
	e seat cushion frame (lifting	motor).	0	G
2. CHECK LIFTING MOTOR	R (REAR) -2			
 Turn ignition switch OFF Disconnect lifting motor 			ŀ	Η
	r) terminals with battery volta	age and check operation.		
	Termir	nal		
Item			Operation	
nom	(+)	()	operation	
	(+) 38	(–) 39	Upward	Ξ
Lifting motor (rear)	38 39			
Lifting motor (rear)	38 39 al?	39	Upward SE Downward	
Lifting motor (rear) <u>Is the inspection result norm</u> YES >> INSPECTION E NO >> Replace lifting m	38 39 al? ND	39	Upward SE Downward	
Lifting motor (rear) <u>Is the inspection result norm</u> YES >> INSPECTION E NO >> Replace lifting m PASSENGER SIDE	38 39 al? ND notor (rear).	39	Upward SE Downward	
Lifting motor (rear) <u>Is the inspection result norm</u> YES >> INSPECTION E NO >> Replace lifting m	38 39 al? ND notor (rear).	39	Upward SE Downward	
Lifting motor (rear) <u>Is the inspection result norm</u> YES >> INSPECTION E NO >> Replace lifting m PASSENGER SIDE PASSENGER SIDE : I • The lifting motor (rear) is in	38 39 ND notor (rear). Description nstalled to the seat slide cush	39 38 nion frame.	Upward Downward	K
Lifting motor (rear) <u>Is the inspection result norm</u> YES >> INSPECTION E NO >> Replace lifting m PASSENGER SIDE PASSENGER SIDE : I • The lifting motor (rear) is in • The lifting motor (rear) is a	38 39 al? ND notor (rear). Description istalled to the seat slide cush ctivated with the passenger s	39 38 nion frame. seat control unit.	Upward Downward K INFOID:000000006451578	
Lifting motor (rear) Is the inspection result norm YES >> INSPECTION E NO >> Replace lifting m PASSENGER SIDE PASSENGER SIDE : I • The lifting motor (rear) is in • The lifting motor (rear) is a • The seat lifter (rear) is mov	38 39 al? ND hotor (rear). Description stalled to the seat slide cush ctivated with the passenger s red upward/downward by cha	39 38 nion frame. seat control unit. anging the rotation direct	Upward Downward	K L M
Lifting motor (rear) <u>Is the inspection result norm</u> YES >> INSPECTION E NO >> Replace lifting m PASSENGER SIDE PASSENGER SIDE : I • The lifting motor (rear) is in • The lifting motor (rear) is a	38 39 al? ND notor (rear). Description Installed to the seat slide cush ctivated with the passenger s red upward/downward by cha Component Function C	39 38 nion frame. seat control unit. anging the rotation direct	Upward Downward	K
Lifting motor (rear) Is the inspection result norm YES >> INSPECTION E NO >> Replace lifting m PASSENGER SIDE PASSENGER SIDE : I • The lifting motor (rear) is in • The lifting motor (rear) is a • The seat lifter (rear) is mov PASSENGER SIDE : (38 39 al? ND notor (rear). Description Installed to the seat slide cush ctivated with the passenger s red upward/downward by cha Component Function C R (REAR) FUNCTION	39 38 nion frame. seat control unit. anging the rotation direct	Upward Downward	K L M
Lifting motor (rear) Is the inspection result norm YES >> INSPECTION E NO >> Replace lifting m PASSENGER SIDE PASSENGER SIDE : I • The lifting motor (rear) is in • The lifting motor (rear) is a • The seat lifter (rear) is mov PASSENGER SIDE : O 1.CHECK LIFTING MOTOR Check lifting operation with p Is the inspection result norm	38 39 al? ND notor (rear). Description istalled to the seat slide cush ctivated with the passenger s red upward/downward by cha Component Function C R (REAR) FUNCTION power seat switch. al?	39 38 nion frame. seat control unit. anging the rotation direct	Upward Downward INFOID:00000006451578	K L M
Lifting motor (rear) Is the inspection result norm YES >> INSPECTION E NO >> Replace lifting m PASSENGER SIDE PASSENGER SIDE : I • The lifting motor (rear) is in • The lifting motor (rear) is a • The seat lifter (rear) is mov PASSENGER SIDE : O 1.CHECK LIFTING MOTOR Check lifting operation with p Is the inspection result norm YES >> Lifting motor (rear)	38 39 al? ND notor (rear). Description istalled to the seat slide cush ctivated with the passenger s red upward/downward by cha Component Function C R (REAR) FUNCTION power seat switch. al?	39 38 nion frame. seat control unit. anging the rotation direct Check	Upward Downward	K L M
Lifting motor (rear) Is the inspection result norm YES >> INSPECTION E NO >> Replace lifting m PASSENGER SIDE PASSENGER SIDE : I • The lifting motor (rear) is in • The lifting motor (rear) is a • The seat lifter (rear) is mov PASSENGER SIDE : O 1.CHECK LIFTING MOTOR Check lifting operation with p Is the inspection result norm YES >> Lifting motor (rear)	38 39 al? ND notor (rear). Description istalled to the seat slide cush ctivated with the passenger s red upward/downward by cha Component Function C R (REAR) FUNCTION power seat switch. al? ar) function is OK. "PASSENGER SIDE : Diagn	39 38 nion frame. seat control unit. anging the rotation direct Check	Upward Downward	K M N
Lifting motor (rear) Is the inspection result norm YES >> INSPECTION E NO >> Replace lifting m PASSENGER SIDE PASSENGER SIDE : I • The lifting motor (rear) is in • The lifting motor (rear) is a • The seat lifter (rear) is mov PASSENGER SIDE : (1.CHECK LIFTING MOTOR Check lifting operation with p Is the inspection result norm YES >> Lifting motor (rear) NO >> Refer to SE-97,	38 39 al? ND notor (rear). Description istalled to the seat slide cush ctivated with the passenger s ved upward/downward by cha Component Function C R (REAR) FUNCTION power seat switch. al? ar) function is OK. "PASSENGER SIDE : Diagn Diagnosis Procedure	39 38 nion frame. seat control unit. anging the rotation direct Check	Upward Downward	K M N
Lifting motor (rear) Is the inspection result norm YES >> INSPECTION E NO >> Replace lifting m PASSENGER SIDE PASSENGER SIDE : I • The lifting motor (rear) is in • The lifting motor (rear) is a • The seat lifter (rear) is mov PASSENGER SIDE : I 1.CHECK LIFTING MOTOR Check lifting operation with p Is the inspection result norm YES >> Lifting motor (rear) NO >> Refer to SE-97, PASSENGER SIDE : I	38 39 al? ND notor (rear). Description istalled to the seat slide cush ctivated with the passenger s yed upward/downward by cha component Function C Component Function C R (REAR) FUNCTION power seat switch. al? ar) function is OK. "PASSENGER SIDE : Diagn Diagnosis Procedure R (REAR) POWER SUPPLY	39 38 nion frame. seat control unit. anging the rotation direct Check	Upward Downward	K M N

SE-97

< DTC/CIRCUIT DIAGNOSIS >

(+) Lifting motor (rear)		()	Condition		Voltage (V) (Approx.)
Connector	Terminal				(. + F)
	38	Ground	Lifting quitch (roor)	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	Existed
6370	39	6000	39	Existed

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

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

Is the inspection result normal?

YES >> Replace passenger seat control unit. Refer to <u>SE-206, "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-188, "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

INFOID:000000006451581

< 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	ninal	Operation	В
item	(+)	()	Operation	
Lifting motor (rear)	38	39	Up	
	39	38	Down	С

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace lifting motor (rear). Refer to <u>SE-188, "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 control unit		(-) C		ndition	Voltage (V) (Approx.)
Connector	Terminal				(/ () () () () () () () () () () () () ()
			OFF	0	
		Ground	Heated seat switch position	1 (Min. temperature)	12.24
				2	12.33
B518	67			3	12.49
				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 seat 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:000000006451583

INFOID:00000006451584

< 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	e harness.			
3.CHECK HEATED SEAT S	SWITCH			
Check heated seat switch. Refer to <u>SE-101, "DRIVER S</u>	NDE : Component Inspecti	on"		
s the inspection result norma		<u>on</u> .		
YES >> GO TO 4.				
· ·	seat switch. Refer to SE-2	13, "Removal and Installa	<u>tion"</u> .	
1. CHECK INTERMITTENT	INCIDENT			
Check intermittent incident.	1 1 J 20			
Refer to <u>GI-43, "Intermittent</u>	Incident".			
>> INSPECTION EI	ND			
DRIVER SIDE : Comp	onent Inspection		INFOID:00000006451585	
1.CHECK FRONT HEATED	•			
 Turn ignition switch OFF Disconnect heated seat Check resistance between 		ninals.		

Heate	d seat switch		Condition		Resistance	SE						
Connector	Ter	minal	Condi		(KΩ) (Approx.)							
		4		ON	0							
		1		OFF	∞	- N						
			-	1 (Min. temperature)	2.400	_						
A/T models: M141	5	-	-	F	F	F			Heated aget quitch position	2	1.800	L
M/T models: M175	Э	2	Heated seat switch position	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-213, "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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< 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:000000006451588

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 control unit		()	Condition		Voltage (V) (Approx.)
Connector	Terminal	•			(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		Ground		OFF	0
				1 (Min. temperature)	12.24
				2	12.33
B575	67		Heated seat switch position	3	12.49
				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		trol 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-213, "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:000000006451589 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 1 (Min. temperature) 2.400 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-213, "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:000000006451592

INFOID:00000006451590

INFOID:000000006451591

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

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

Heated s	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.

HEATED SEAT RELAY

< DTC/CIRCUIT DIAGNOSIS >

Heated	Heated seat relay		Continuity
Connector	Terminal	Ground	Continuity
M70	1	-	Existed
Is the inspection result norm	al?	· · · · ·	
YES >> GO TO 4.			
NO >> Repair or replac			
4. CHECK HEATED SEAT F	RELAY		
Check heated seat relay.			
Refer to <u>SE-105, "Compone</u>			
Is the inspection result norm			
YES >> Heated seat rela NO >> Replace heated			
5. CHECK INTERMITTENT	•		
	INCIDENT		
Check intermittent incident.	Incident"		
Refer to <u>GI-43, "Intermittent</u>	Incident		
>> INSPECTION E	ND		
Component Inspectior	n		
Component inspection	1		INFOID:00000006451593
1.CHECK HEATED SEAT	RELAY		
1. Turn ignition switch OFF			
2. Disconnect heated seat	relay.		

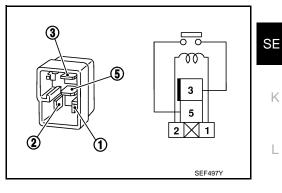
3. Check continuity between heated seat relay terminals.

	seat relay ninal	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:000000006451596

INFOID:00000006451594

INFOID:000000006451595

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 control unit		(–) Condition		on	Voltage (V) (Approx.)
Connector	Terminal	-			(//pp/ox.)
				OFF	0
				1 (Min. temperature)	10.87 – 11.02
				2	10.93 – 11.07
B518	69	Ground	Ground Heated seat switch position 3	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 seat control unit		Seat cushion 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 DIAG	NOSIS >		•	
YES >> GO TO 3. NO >> Repair or re	eplace harness.			
3.CHECK HEAT SENS	•	v		
 Turn ignition switch Turn heated seat system 	ON.		tor and ground	
			tor and ground.	
	(+)			Voltage (V)
	at cushion heater		(-)	(Approx.)
Connector	Termina		<u> </u>	
B517 Is the inspection result I	66		Ground	Battery voltage
YES $>>$ GO TO 5. NO $>>$ GO TO 4. 4.CHECK HEAT SENS		Y CIRCUIT		
3. Check continuity be connector.		control unit harness		t cushion heater harness
	t control unit		hion heater	
Connector	Terminal	Connector	Terminal	
B518	66	B517	66	Existed
4. Check continuity be	etween heated seat co	ontrol unit harness c	connector and groun	d.
Heate	ed seat control unit			
Connector	Termina	I	Ground	Continuity
B518	66			Not existed
Is the inspection result i	normal?			
YES >> GO TO 6. NO >> Repair or re	eplace harness.			
5.CHECK HEAT SENS	•			
Check heat sensor. Ref		R SIDE : Compone	nt Inspection"	
Is the inspection result i				
YES >> GO TO 6.				
•	eat cushion heater. Re	ter to <u>SE-191, "Rem</u>	noval and Installation	<u>n"</u> .
6.CHECK INTERMITT				
Check intermittent incid Refer to <u>GI-43</u> , "Intermit				
<u></u>				
>> INSPECTIO	ON END			
DRIVER SIDE : Co	omponent Inspec	tion		INFOID:00000006451597
1.CHECK HEAT SENS	SOR			
1. Turn ignition switch				
2. Disconnect seat cu	shion heater connector	or.		

3. Check resistance between seat cushion heater terminals.

HEAT SENSOR

< DTC/CIRCUIT DIAGNOSIS >

Seat cush	ion heater		Resistance	
Tern	ninal	Condition	(KΩ) (Approx.)	
66	69	When heat sensor temperature is 25°C (77°F)	9.9 – 10.1	
NOTE: Resistance va	0	according to temperature.		

YES >> INSPECTION END

NO >> Replace seat cushion heater. Refer to <u>SE-188, "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

INFOID:000000006451600

INFOID:000000006451598

INFOID:000000006451599

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	1			(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
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.

HEAT SENSOR

< DTC/CIRCUIT DIAGNOSIS >

Heated sea	t control unit		Seat cushio	n heater	0
Connector	Terminal	Conn	ector	Terminal	Continuity
B575	69	B5	574	69	Existed
Check continuity be	etween heated seat o	control unit	harness cor	nector and grou	ınd.
Heat	ed seat control unit				Continuity
Connector	Termin	al	Gi	round	
B575	69				Not existed
CHECK HEAT SEN Turn ignition switch Turn heated seat s	eplace harness. SOR POWER SUPPI o ON.		ss connecto	r and ground.	
Check voltage betv	(+)				
Se	at cushion heater			(-)	Voltage (V)
Connector	Termin	al			(Approx.)
B574	66		G	round	Battery voltage
ES >> GO TO 5. O >> GO TO 4. CHECK HEAT SEN Turn ignition switch Disconnect heated	seat switch connecto	or.			
 YES >> GO TO 5. NO >> GO TO 4. CHECK HEAT SENS Turn ignition switch Disconnect heated 	SOR POWER SUPPI	or.		onnector and se	at cushion heater
YES >> GO TO 5. NO >> GO TO 4. CHECK HEAT SENS Turn ignition switch Disconnect heated Check continuity b connector.	SOR POWER SUPPI	or.			
ES >> GO TO 5. IO >> GO TO 4. CHECK HEAT SEN Turn ignition switch Disconnect heated Check continuity b connector.	SOR POWER SUPPL OFF. seat switch connecto etween heated seat	or.	t harness co Seat cushio		at cushion heater
ES >> GO TO 5. O >> GO TO 4. CHECK HEAT SEN Turn ignition switch Disconnect heated Check continuity b connector. Heated sea Connector B575	SOR POWER SUPPL OFF. seat switch connecto etween heated seat t control unit Terminal 66	Dr. control unit Conn B5	t harness co Seat cushio lector	n heater Terminal 66	Continuity Existed
YES >> GO TO 5. NO >> GO TO 4. CHECK HEAT SEN Turn ignition switch Disconnect heated Check continuity b connector. Heated sea Connector B575	SOR POWER SUPPI OFF. seat switch connecto etween heated seat t control unit Terminal	Dr. control unit Conn B5	t harness co Seat cushio lector	n heater Terminal 66	Continuity Existed
(ES) >> GO TO 5. NO >> GO TO 4. .CHECK HEAT SEN: Turn ignition switch Disconnect heated Check continuity b connector. Heated sea Connector B575 Check continuity b	SOR POWER SUPPL OFF. seat switch connecto etween heated seat t control unit Terminal 66	or. control unit Conn B5 control unit	t harness co Seat cushio lector 74 harness cor	n heater Terminal 66	Continuity Existed
YES >> GO TO 5. NO >> GO TO 4. .CHECK HEAT SENS Turn ignition switch Disconnect heated Check continuity b connector. Heated sease Connector B575 Check continuity b Heated sease Heated sease Check continuity b Heated sease Heated sease Heated sease Connector B575 Check continuity b Heated sease Heate Check continuity b	SOR POWER SUPPL OFF. seat switch connecto etween heated seat t control unit Terminal 66 etween heated seat control unit	or. control unit Conn B5 control unit	t harness co Seat cushio lector 74 harness cor	n heater Terminal 66 nnector and grou	Continuity Existed
ES >> GO TO 5. IO >> GO TO 4. CHECK HEAT SEN Turn ignition switch Disconnect heated Check continuity b connector. Heated sea Connector B575 Check continuity b Heat Connector Heat	SOR POWER SUPPI OFF. seat switch connecto etween heated seat t control unit Terminal 66 etween heated seat of ed seat control unit Terminal 66	or. control unit Conn B5 control unit	t harness co Seat cushio lector 74 harness cor	n heater Terminal 66 nnector and grou	Continuity Existed Ind. Continuity
(ES) >> GO TO 5. NO >> GO TO 4. .CHECK HEAT SEN: Turn ignition switch Disconnect heated Check continuity b connector. Heated sea Connector B575 Check continuity b Connector B575 the inspection result (ES) >> GO TO 6. NO >> Repair or r .CHECK HEAT SENS heck heat sensor. Re the inspection result (ES) >> GO TO 6.	SOR POWER SUPPI OFF. seat switch connecto etween heated seat tt control unit Terminal 66 etween heated seat of ed seat control unit Ced seat control unit 66 normal? eplace harness. SOR fer to <u>SE-110, "PASS</u> normal?	Dr. control unit Conn B5 control unit al	t harness co Seat cushio lector 74 harness cor Gi	n heater Terminal 66 Innector and grou round	Continuity Existed Ind. Continuity Not existed
(ES) >> GO TO 5. NO >> GO TO 4. .CHECK HEAT SEN: Turn ignition switch Disconnect heated Check continuity b connector. Heated sea Connector B575 Check continuity b Connector B575 the inspection result (ES) >> GO TO 6. NO >> Repair or r .CHECK HEAT SENS heck heat sensor. Re the inspection result (ES) >> GO TO 6.	SOR POWER SUPPI OFF. seat switch connector etween heated seat t control unit Terminal 66 etween heated seat of ed seat control unit Cel seat control unit 66 etween heated seat of ed seat control unit 66 normal? eplace harness. SOR fer to <u>SE-110, "PASS</u> normal? eat cushion heater. Re	Dr. control unit Conn B5 control unit al	t harness co Seat cushio lector 74 harness cor Gi	n heater Terminal 66 Innector and grou round	Continuity Existed Ind. Continuity Not existed

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:000000006451601

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	ninal	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-188, "Exploded View"</u>.

< [DTC/CIRCUIT DIAG		CUSH	ION HEA	IER				
	EAT CUSHION								
DF	RIVER SIDE								A
DF	RIVER SIDE : D	escription						INFOID:00000006451602	В
Wa	arms the seat cushio	n.							D
DF	RIVER SIDE : C	omponent Funct	ion Che	eck				INFOID:00000006451603	С
1.	CHECK FUNCTION	1							0
Ch tioi		t warms to preset ten	nperature	when opera	ating he	eated seat s	witch	to the optimal posi-	D
	the inspection result	normal?							
		on heater function is (E-111, "DRIVER SIDE		sis Procedu	<u>re"</u> .				E
DF	RIVER SIDE : D	iagnosis Procedu	ure					INFOID:000000006451604	
1		HION HEATER INPU							F
1. 2. 3. 4.	Turn ignition switch Disconnect seat cu Turn ignition switch	n OFF. ushion heater connect	or.		or and	ground.			G
-	(+)								Н
-	Seat cushion	heater	()		Cond	dition		Voltage (V) (Approx.)	
-	Connector	Terminal							
	B517	68 G	Fround	Heated sea	t	Operates Other than at	ove	0 – Battery voltage 0	
Y N	the inspection result ES >> GO TO 3. O >> GO TO 2.			the followir	ıg list d				SE K
Ζ.		HION HEATER CIRC	UIT						L
1. 2. 3.		n OFF. I seat control unit con between seat cushion		irness conr	nector a	and heated	seat	control unit harness	Μ
-	Seat cus	hion heater		Heated seat	t control	unit		Continuity	N
-	Connector	Terminal	Con	nector		Terminal		Continuity	. 4
-	B517	68		518		68		Existed	\sim
4.	Check continuity b	etween seat cushion	heater har	ness conne	ector ar	nd ground.			0
-		eat cushion heater			Cround			Continuity	Р
	Connector	Termina	11	(Ground				

				Continuity
	Connector	Terminal	Ground	Continuity
-	B517	68		Not existed

Is the inspection result normal?

YES >> Replace heated seat control unit. Refer to <u>SE-207, "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-188, "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-188, "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:00000006451608

INFOID:000000006451606

INFOID:00000006451605

INFOID:000000006451607

< DTC/CIRCUIT DIAGNOSIS >

Check voltage k							
	+)						Voltage (V)
	ion heater	((—)		Conditi	ion	(Approx.)
Connector	Terminal					_	
B574	68	Gro	ound	Heated seat	t —	Operates	0 – Battery volta
NOTE:					C	Other than abov	e 0
Turn ignition sw Disconnect hea	3. 2. JSHION HEATER	nit conne	ector.		nector an	nd heated se	at control unit ba
connector.	cushion heater			Heated seat			
Connector	Terminal		-				(`ontinuity
			Coni	nector	Te	erminal	Continuity
B574 Check continuit	68 y between seat cu		B	575		68	Existed
Check continuit	y between seat cu Seat cushion heater	ushion he Terminal	Bt eater har	575 ness conne		68	Existed
Check continuit Connector B574 the inspection res	y between seat cu Seat cushion heater	Ushion he Terminal 68	B eater har	575 ness conne	ector and Ground	68 ground.	Existed Continuity Not existed
Check continuit Connector B574 the inspection res ES >> Replace O >> Repair of CHECK SEAT CL eck seat cushion fer to <u>SE-114, "Pro- the inspection res</u> ES >> GO TO O >> Replace	y between seat cu Seat cushion heater ult normal? e heated seat com or replace harness JSHION HEATER heater. ASSENGER SIDE ult normal? 4. e seat cushion heater	Terminal 68 trol unit. s. 2 : Comp	Bater har	SE-207, "R	Ground	68 ground.	Existed Continuity Not existed
Check continuit Connector B574 the inspection res ES >> Replace O >> Repair of CHECK SEAT CO eck seat cushion fer to <u>SE-114, "P</u> the inspection res ES >> GO TO O >> Replace CHECK SEAT CO Turn ignition sw	y between seat cu Seat cushion heater ult normal? e heated seat com or replace harness JSHION HEATER heater. ASSENGER SIDE ult normal? 4. e seat cushion heat JSHION HEATER itch OFF.	Terminal 68 trol unit. s. 2 : Comp ater. Ref	Beater har	575 ness conne SE-207, "R spection". 188, "Explo :UIT	Context of the sector and Context of the sec	68 ground.	Existed Continuity Not existed
Check continuit Connector B574 the inspection res ES >> Replace O >> Repair of CHECK SEAT CO eck seat cushion fer to <u>SE-114, "P</u> the inspection res ES >> GO TO O >> Replace CHECK SEAT CO Turn ignition sw	y between seat cu Seat cushion heater ult normal? e heated seat con or replace harness JSHION HEATER heater. ASSENGER SIDE ult normal? 4. e seat cushion hea JSHION HEATER itch OFF. y between seat cu	Terminal 68 trol unit. s. 2 : Comp ater. Ref	Beater har	575 ness conne SE-207, "R spection". 188, "Explo :UIT	Context of the sector and Context of the sec	68 ground.	Existed Continuity Not existed
Check continuit Connector B574 the inspection res ES >> Replace O >> Repair of CHECK SEAT CO eck seat cushion fer to <u>SE-114, "P</u> the inspection res ES >> GO TO O >> Replace CHECK SEAT CO Turn ignition sw	y between seat cu Seat cushion heater ult normal? e heated seat com or replace harness JSHION HEATER heater. ASSENGER SIDE ult normal? 4. e seat cushion heat JSHION HEATER itch OFF.	Terminal 68 trol unit. s. 2 E : Comp ater. Ref 2 GROU ushion he	Bater har	575 ness conne SE-207, "R Spection". 188, "Explo UIT ness conne	ector and Ground Removal a	68 ground.	Existed Continuity Not existed
Check continuit Connector B574 the inspection res ES >> Replace O >> Repair of CHECK SEAT CO eck seat cushion fer to <u>SE-114, "P</u> the inspection res ES >> GO TO O >> Replace CHECK SEAT CO Turn ignition sw	y between seat cu Seat cushion heater ult normal? e heated seat com or replace harness JSHION HEATER heater. ASSENGER SIDE ult normal? 4. e seat cushion heater itch OFF. y between seat cu Seat cushion heater	Terminal 68 trol unit. s. 2 : Comp ater. Ref	Bater har	575 ness conne SE-207, "R Spection". 188, "Explo UIT ness conne	Context of the sector and Context of the sec	68 ground.	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:000000006451609

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-188, "Exploded View"</u>.

SEATBACK HEATER

		SE	ATBACK HEATER	
< DTC/CIRCUI	T DIAGNOSIS >			
SEATBAC	K HEATER			
DRIVER SI	DE			
DRIVER SIE	DE : Description	n		INFOID:00000006451610
Warms the seat	cushion.			
DRIVER SIE	DE : Compone	ent Funct	tion Check	INFOID:000000006451611
1.CHECK FUN	ICTION			
Check that hea tion.	ted seat warms to	preset ten	nperature when operating heated seat sw	itch to the optimal posi-
Is the inspection	n result normal?			
YES >> Sea	atback heater fund		E : Diagnosis Procedure".	
	DE : Diagnosis	Proced	ure	INFOID:00000006451612
1.CHECK SEA	TBACK HEATER			
	n switch OFF.			
	seatback heater stance between se		ater terminals.	
	Seatback heater			Resistance
Connector	Termina	al	Condition	(Ω) (Approx.)
B542	1	2	When heat sensor temperature is 20°C (68°F)	4.0 - 4.7
<u>Is the inspection</u> YES >> Re	place seatback he	n heater. Re	temperature. efer to <u>SE-188, "Exploded View"</u> . to <u>SE-188, "Exploded View"</u> .	
PASSENGE	R SIDE : Des	cription		INFOID:00000006451613
Warms the seat	cushion.			
PASSENGE	R SIDE : Con	nponent	Function Check	INFOID:00000006451614
1.CHECK FUN	ICTION			
	ted seat warms to	preset ten	nperature when operating heated seat sw	itch to the optimal posi-
tion. Is the inspection	n result normal?			
YES >> Sea	atback heater fund			
	_		<u>SIDE : Diagnosis Procedure"</u> .	
	R SIDE : Diaç	-	ocedure	INFOID:000000006451615
	TBACK HEATER			
2. Disconnect	n switch OFF. seatback heater			

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-188, "Exploded View"</u>.

NO >> Replace seatback heater. Refer to <u>SE-188, "Exploded View"</u>.

< DTC/CIRCUIT DIAGNOS	HEATED SEAT SW	VITCH INDICATOR	
HEATED SEAT SWI DRIVER SIDE			
DRIVER SIDE : Descr	iption		INFOID:00000006451616
Illuminates the indicator that	indicates the operating sta	atus of heated seat.	
DRIVER SIDE : Comp	onent Function Che	eck	INFOID:00000006451617
1.CHECK FUNCTION			
	al? tch indicator function is Ok , "DRIVER SIDE : Diagnos	ς.	
1.CHECK HEATED SEAT S			INFOID:00000006451618
 Turn ignition switch OFF Disconnect heated seat 			
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-2	13. "Removal and Installa	<u>tion"</u> .
PASSENGER SIDE : I	Description		INFOID:00000006451619
Illuminates the indicator that			
PASSENGER SIDE : (Component Functior	n Check	INFOID:00000006451620
		۲.	o ON.
PASSENGER SIDE : I			INFOID:00000006451621
1.CHECK HEATED SEAT S	-		
 Turn ignition switch OFF Disconnect heated seat 	-		
	eat switch		Continuity
Connector A/T models: M142 M/T models: M176	Terminal 6	Ground	Existed

Is the inspection result normal?

HEATED SEAT SWITCH INDICATOR

< DTC/CIRCUIT DIAGNOSIS >

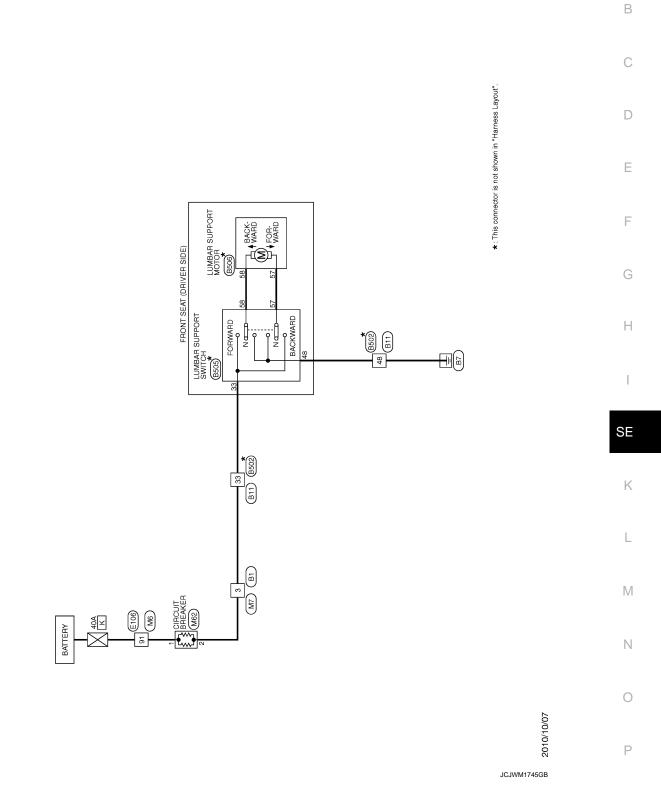
YES >> Replace heated seat switch. Refer to <u>SE-213, "Removal and Installation"</u>.

NO >> Repair or replace harness.

< DTC/CIRCUIT DIAGNOSIS >



Wiring Diagram - LUMBAR SUPPORT -



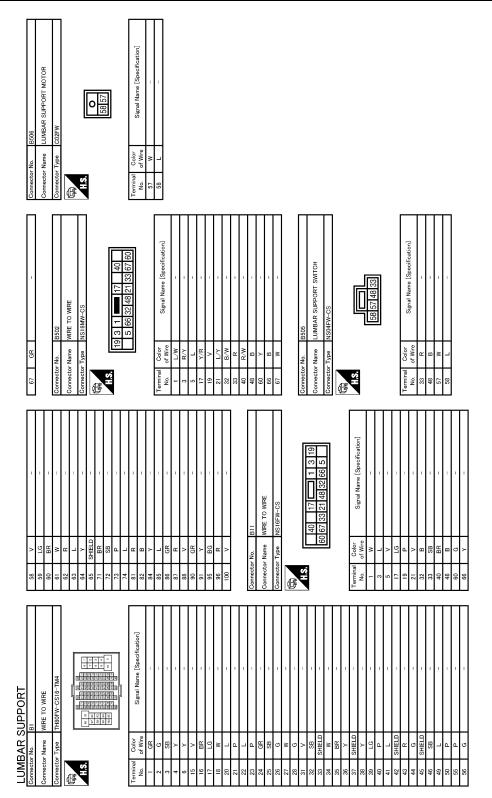
LUMBAR SUPPORT

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INFOID:000000006451622

LUMBAR SUPPORT

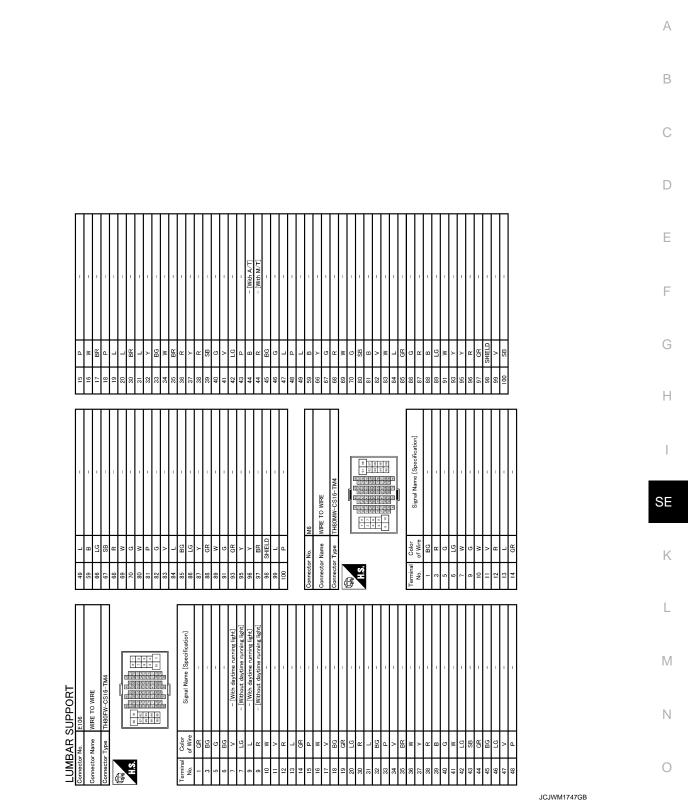
< DTC/CIRCUIT DIAGNOSIS >



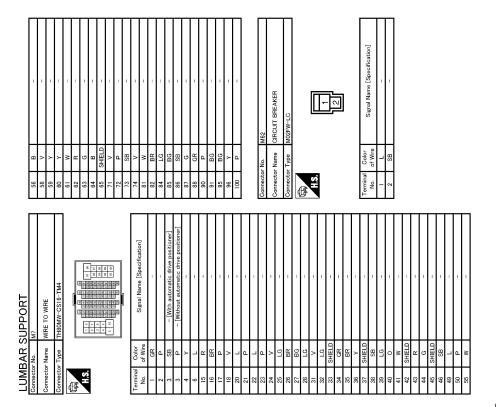
JCJWM1746GB

LUMBAR SUPPORT

< DTC/CIRCUIT DIAGNOSIS >



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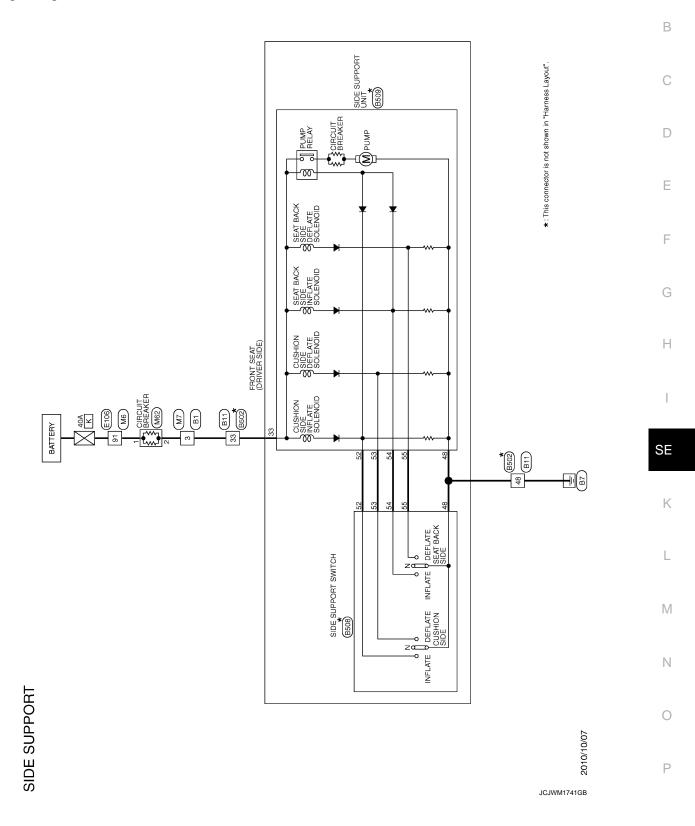


JCJWM1748GB

< DTC/CIRCUIT DIAGNOSIS >

SIDE SUPPORT

Wiring Diagram - SIDE SUPPORT -

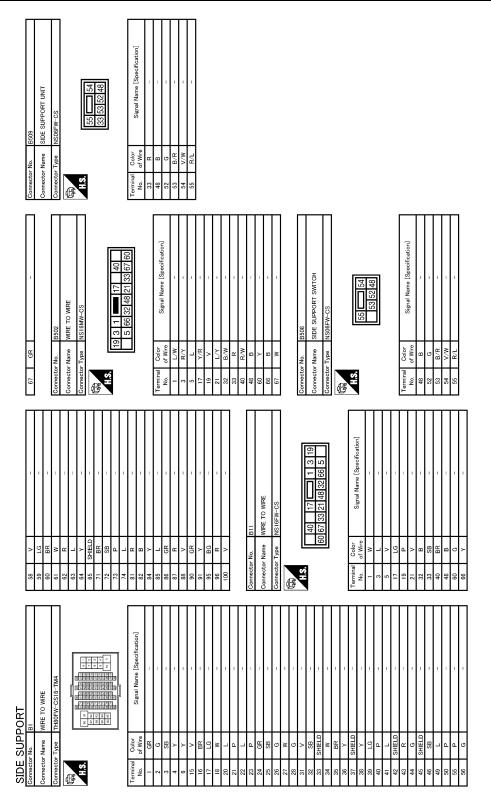


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INFOID:000000006451623

SIDE SUPPORT

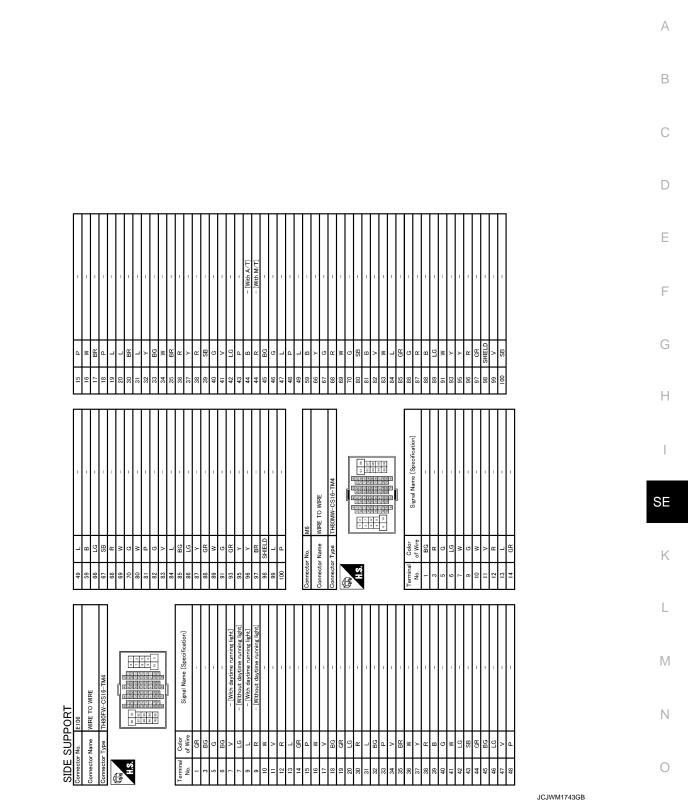
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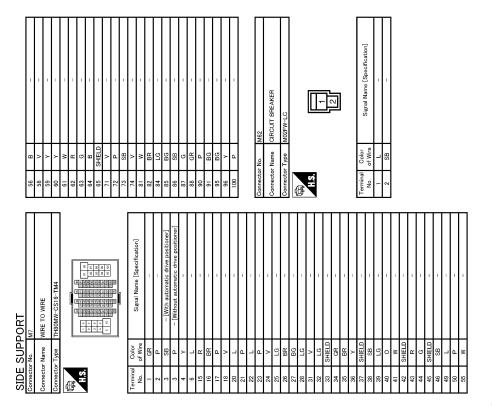
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SIDE SUPPORT

< DTC/CIRCUIT DIAGNOSIS >



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JCJWM1744GB

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:000000006451624

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VALUES ON THE DIAGNOSIS TOOL

CONSULT-III MONITOR ITEM

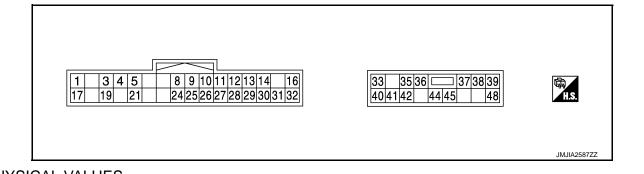
Monitor Item Con		dition	Value/Status	-
SLIDE SW-FR	Pliding owitch (front)	Operate	ON	- D
SLIDE SW-FR	Sliding switch (front)	Release	OFF	-
SLIDE SW-RR	Sliding owitch (rear)	Operate	ON	E
SLIDE SW-RR	Sliding switch (rear)	Release	OFF	-
FORWARD SW	Seat back	Folded down	ON	_
TORWARD SW	Seal back	Other than above	OFF	F
WALK-IN SW	Power walk-in switch	Pressed	ON	-
WALK-IN SW		Other than above	OFF	G
FWD LIMIT SW	Seat sliding	Front edge	ON	-
	Seat sliding	Other than above	OFF	-
SEAT BELT SW	Seat belt	Front edge	ON	ŀ
SEAT BEET SW	Seal beil	Other than above	OFF	-
DETENT SW ^{*1}	A/T selector lever	P position	OFF	-
DETENT SW	A Selector level	Other than above	ON	
PARK BRAKE SW ^{*2}	Parking brake	Applied	ON	-
PARK BRAKE SW	Faiking blake	Release	OFF	SE
		Forward	The numeral value decreases *3	
SLIDE PULSE	Seat sliding	Backward	The numeral value increases *3	- K
		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



PHYSICAL VALUES

< 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)	Ground	signal	input	Other than above*		5
5		Seat belt buckle	1	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
		Ward olghai			Release	Battery voltage
12 (SB)	Ground	Reclining switch backward signal	Input	Reclining switch	Operate (backward)	0
(36)		backwaru signai			Release	Battery voltage
13 (LG/R)	Ground	Lifting switch (front) downward signal	Input	Lifting switch (front)	Operate (downward)	0
(LG/K)					Release	Battery voltage
14 (G/B)	Ground	Lifting switch (rear) downward signal	Input	Input Lifting switch (rear)	Operate (downward)	0
(G/B)	(G/B)	downward signal			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
					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	round Lifting switch (rear) upward signal	Input	Seat lifting switch	Operate (upward)	0
(P/L)	Ground		mpat	(rear)	· · · · ·	

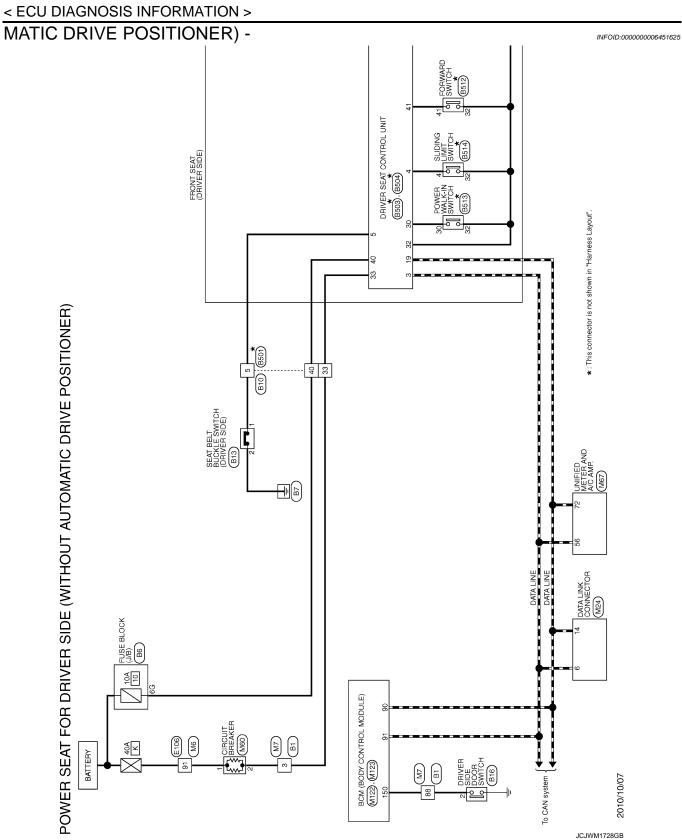
< ECU DIAGNOSIS INFORMATION >

	nal No. color)	Description				
(+)	()	Signal name	Input/ Out- put	Con	dition	Voltage (V) (Approx.)
30	Ground	Power walk-in switch	Input	Power walk-in	Pressed	0
(P)	Cround	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-	Seat sliding	Operate (forward)	Battery voltage
(**/15)			put		Release	0
36 (G/Y)	Ground	Reclining motor for- ward output signal	Out-	Seat reclining	Operate (forward)	Battery voltage
(0/1)		waru ouiput signal	put		Release	0
37 (G/W)	Ground	Lifting motor (front) downward output	Out- put	Seat litting (tront)	Operate (downward)	Battery voltage
(G/W)		downward output			Stop	0
38 (L/Y)	Ground	Lifting motor (rear) upward output	Out-	Seat lifting (rear)	Operate (upward)	Battery voltage
(L/1)		upward output	put		Stop	0
39 (R/B)	Ground	Lifting motor (rear) downward output	Out- put	Seat lifting (rear)	Operate (downward)	Battery voltage
(10)		downward output	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)	Croana	nal	mpur	Other than above*		5
42 (W)	Ground	Sliding motor back- ward output	Out- put	Seat sliding	Operate (backward)	Battery voltage
(**)			Stop	Stop	0	
44 (P)	Ground	Reclining motor backward output	Searrecijning	Seat reclining	Operate (backward)	Battery voltage
(')			put		Stop	0
45 (L/R)	Ground	Lifting motor (front) upward output	Out- put	Seat lifting (front)	Operate (upward)	Battery voltage
(=, • • •)			241		Stop	0
48 (B)	Ground	Ground (power)	_	-	-	0

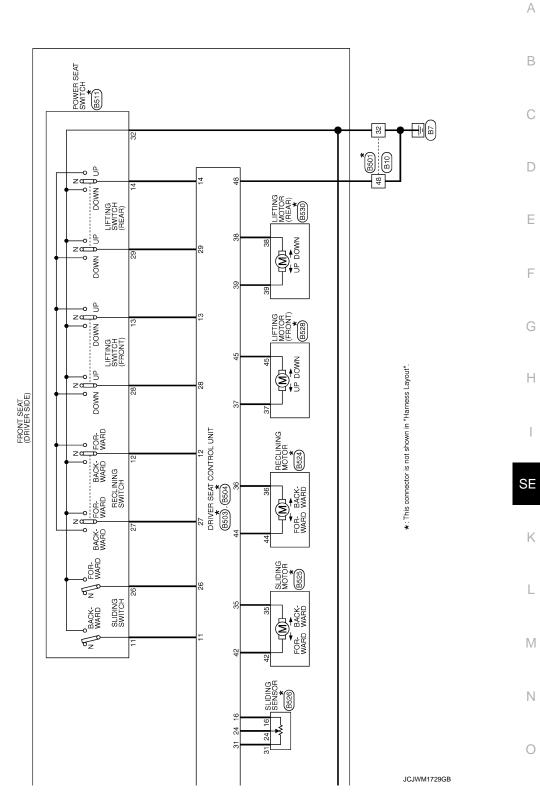
*: Not in the sleep mode.

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

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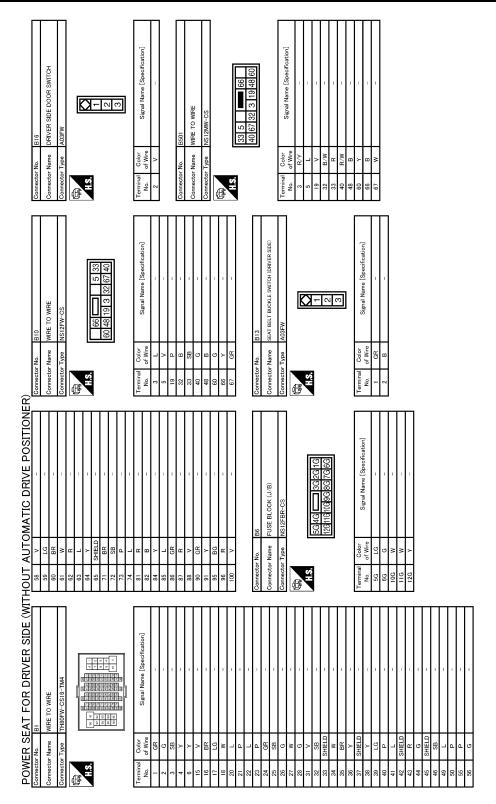


DRIVER SEAT CONTROL UNIT (WITHOUT AUTOMATIC DRIVE POSITIONER) < ECU DIAGNOSIS INFORMATION >



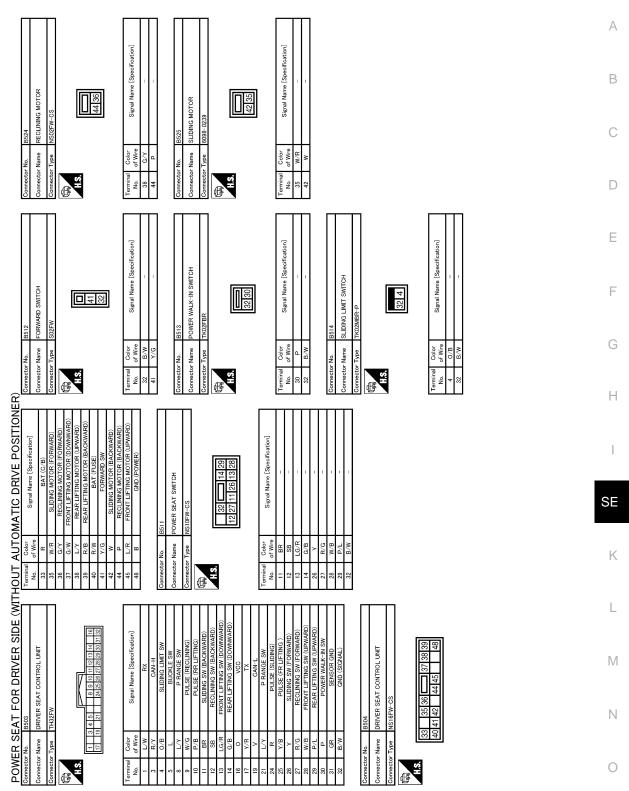
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< ECU DIAGNOSIS INFORMATION >



JCJWM1730GB

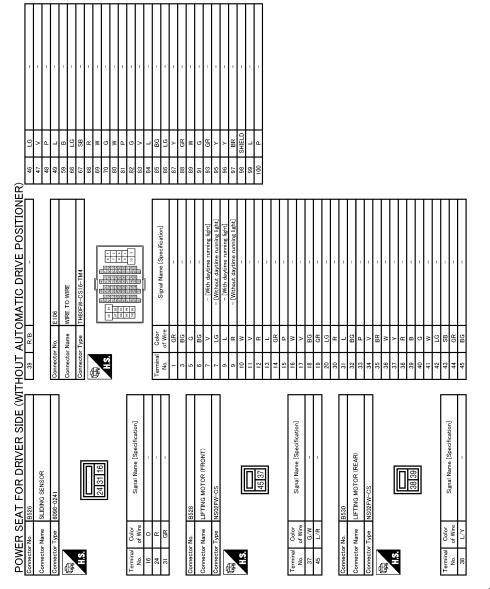
< ECU DIAGNOSIS INFORMATION >



JCJWM1731GB

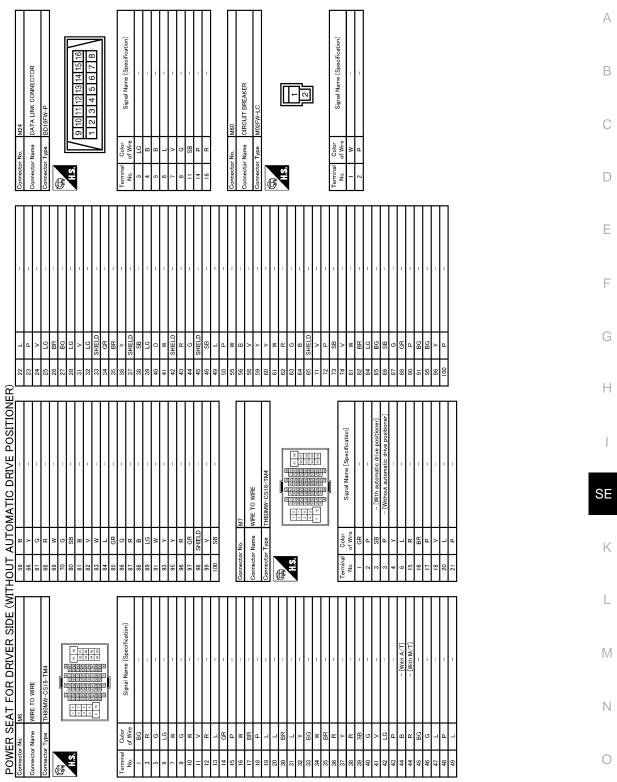
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< ECU DIAGNOSIS INFORMATION >



JCJWM1732GB

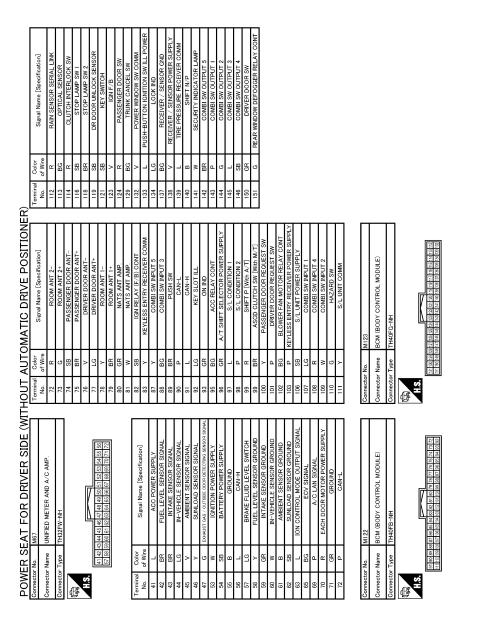
< ECU DIAGNOSIS INFORMATION >



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< ECU DIAGNOSIS INFORMATION >



Fail-Safe

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

JCJWM1734GB

INFOID:000000006451626

< ECU DIAGNOSIS INFORMATION >

Operating in fail-safe mode	Malfunction Item	Related DTC	Diagnosis
		111000	With ADP: ADP-48, "DTC Logic"
Only manual functions operate normally.	CAN communication* ¹	U1000	Without ADP: <u>ADP-48, "DTC</u> <u>Logic"</u>
	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:000000006451627

CONSULT-III	Tim	ing ^{*1}			
display	Current mal- function	Previous mal- function	ltem	Reference page	SE
CAN COMM CIRCUIT* ²	0	1-39	CAN communication	With ADP: ADP-48, "DTC Logic"	K
[U1000]				Without ADP: ADP-48, "DTC Logic"	L
SEAT SLIDE*2	0	1-39	Sast alida matar autaut	With ADP: ADP-49, "DTC Logic"	M
[B2112]	0	1-39	Seat slide motor output	Without ADP: ADP-49, "DTC Logic"	Ν
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"	0
TELESCO SENSOR [B2119]	0	1-39	Telescopic sensor input	ADP-56, "DTC Logic"	Р
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.

< ECU DIAGNOSIS INFORMATION >

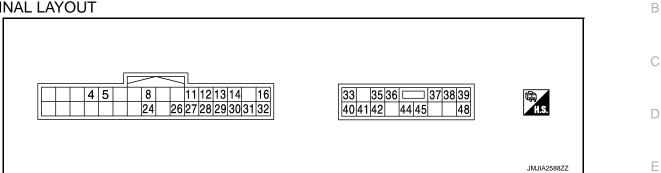
PASSENGER SEAT CONTROL UNIT

Reference Value

INFOID:000000006451628

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PHYSICAL VALUES

Terminal No. (Wire color)		Description		Con	dition	Voltage (V)	F			
(+)	()	Signal name	Input/ Output	Con		(Approx.)	G			
4	Crownd	Sliding limit switch	ا بر محمد ا	Seat sliding front ed	dge	0	_			
(O/B)	Ground	signal	Input	Other than above*		5	– H			
		Seat belt buckle		Ignition switch OFF tened*	and seat belt fas-	5	- 11			
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	SE			
8 (LG)	Ground	Passenger side door switch signal	Input	Passenger door	Closed	(V) 15 10 5 0 • • 10ms PKIB4960J	K			
11 (BR)	Ground	Sliding switch back- ward signal	Input SI	Sliding switch	Operate (backward)	0	M			
		Ward olghai			Release	Battery voltage				
12 (SB)	Ground	Reclining switch backward signal	Input	Reclining switch	Operate (backward)	0	Ν			
(36)				Dackward Signal	backwaru siyiidi			Release	Battery voltage	_
13	Ground	d Lifting switch (front) downward signal Input (front) (front)			Operate (downward)	0	0			
(LG/R)					Release	Battery voltage	-			
14 (G/B)	Ground	Lifting switch (rear) downward signal	Input	Lifting switch (rear)	Operate (downward)	0	P			
(G/D)		uownwaru signar	nwara signal	(icai)	Release	Battery voltage	-			
16 (O)	Ground	Sensor power supply	Output	-	_	Battery voltage	_			

< ECU DIAGNOSIS INFORMATION >

	nal No. color)	Description		Con	dition	Voltage (V)
(+)	(-)	Signal name	Input/ Output	Con	dition	(Approx.)
24 (R)	Ground	Sliding sensor signal	Input	Seat sliding	Operate	10mSec/div
					Stop	0 or 5
26 (Y)	Ground	Sliding switch for- ward signal	Input	Sliding switch	Operate (forward)	0
(1)					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 (P/L)	Ground	Lifting switch (rear) upward signal	Input	Seat lifting switch (rear)	Operate (upward)	0
					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
32 (B/W)	Ground	Ground (signal)	_	-	_	0
33 (R)	Ground	Power source (C/B)	Input	-	_	Battery voltage
35 (W/R)	Ground	Sliding motor for- ward output	Output	Seat sliding	Operate (forward)	Battery voltage
					Release	0
36 (G/Y)	Ground	Reclining motor for- ward output signal	Output	Seat reclining	Operate (forward)	Battery voltage
()					Release	0
37 (G/W)	Ground	Lifting motor (front) downward output	Output	Seat lifting (front)	Operate (downward)	Battery voltage
()		•			Stop	0
38 (L/Y)	Ground	Lifting motor (rear) upward output	Output	Seat lifting (rear)	Operate (upward)	Battery voltage
. ,		•			Stop	0
39 (R/B)	Ground	Lifting motor (rear) downward output	Output	Seat lifting (rear)	Operate (downward)	Battery voltage
40					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	•	Other than above*		5

< ECU DIAGNOSIS INFORMATION >

	nal No. color)	Description		Condition		Voltage (V)				
(+)	(—)	Signal name	Input/ Output			(Approx.)				
42 (W)	(Fround 9		Output	Seat sliding	Operate (backward)	Battery voltage	В			
(vv)		ward output				Stop	0			
44 (P)	(-round	Ground		Reclining motor	Reclining motor backward output	Output	Seat reclining	Operate (backward)	Battery voltage	С
(1)		backward output			Stop	0				
45 (L/R)	Ground	Lifting motor (front) upward output Output	Output	Seat lifting (front)	Operate (upward)	Battery voltage	D			
(L/K)					Stop	0	F			
48 (B)	Ground	Ground (power)		-		0				

*: Not in the sleep mode.

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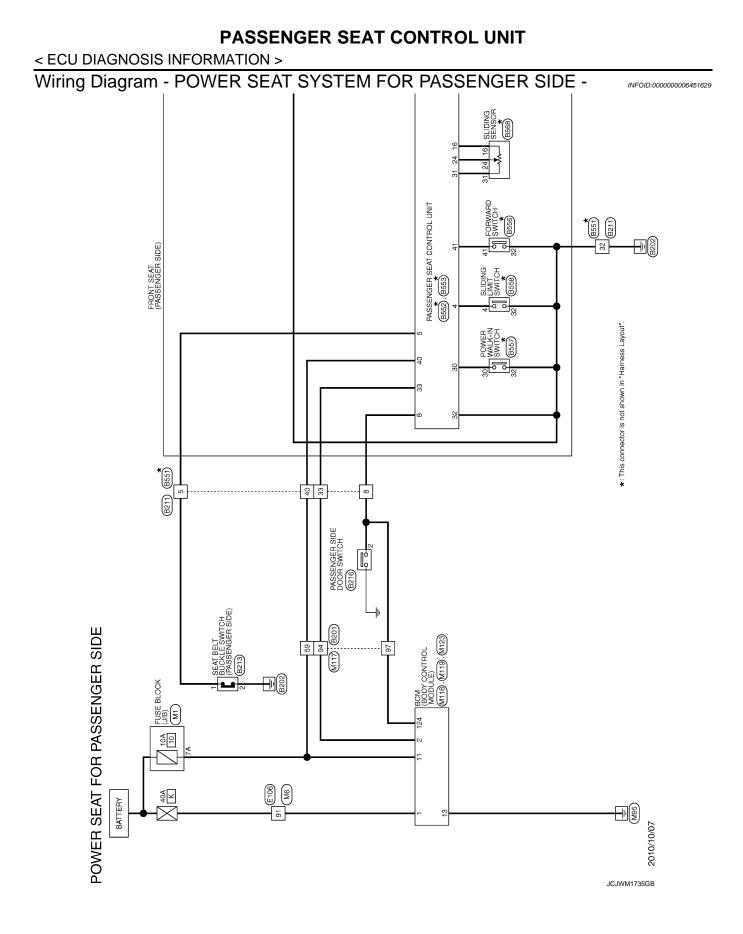
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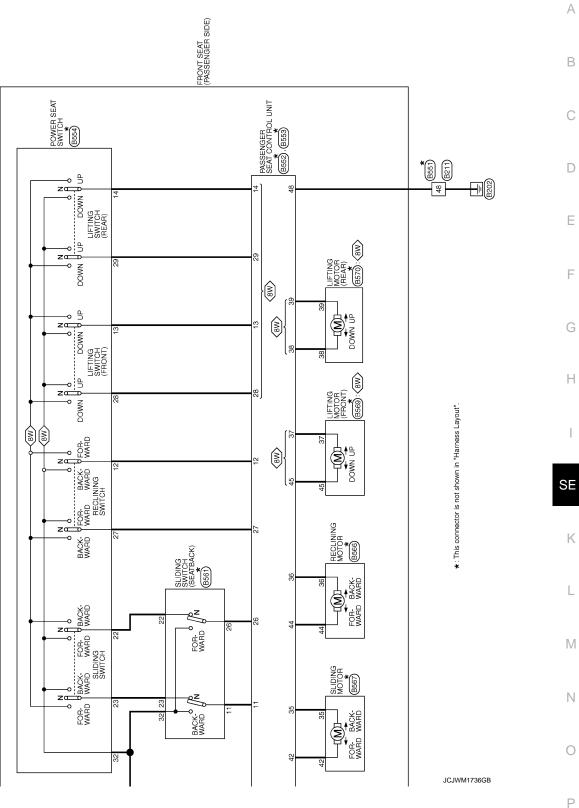
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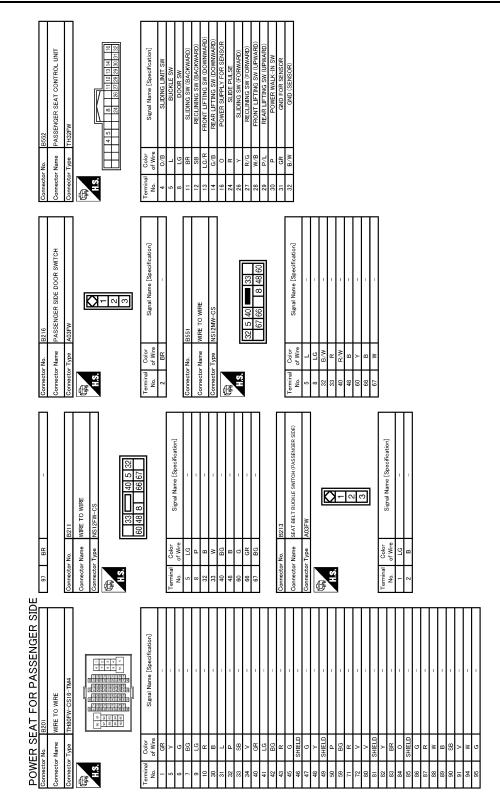
< ECU DIAGNOSIS INFORMATION >



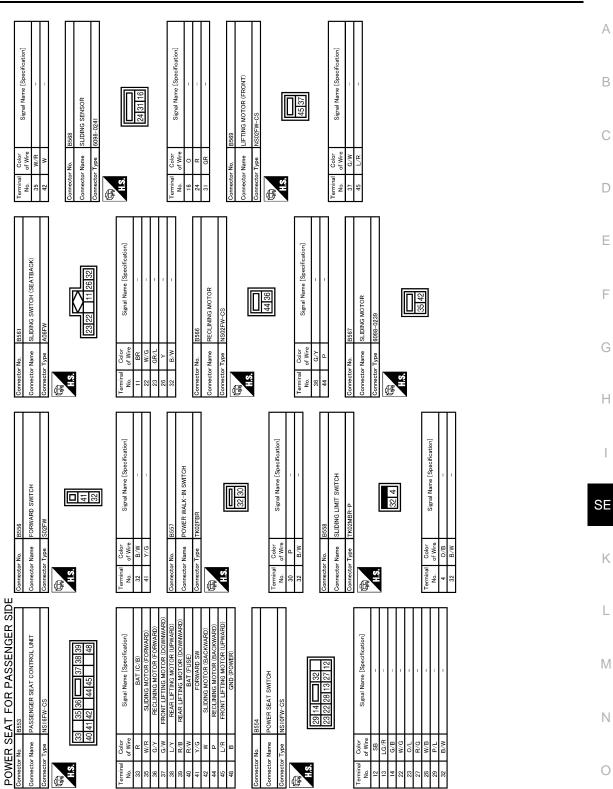


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< ECU DIAGNOSIS INFORMATION >



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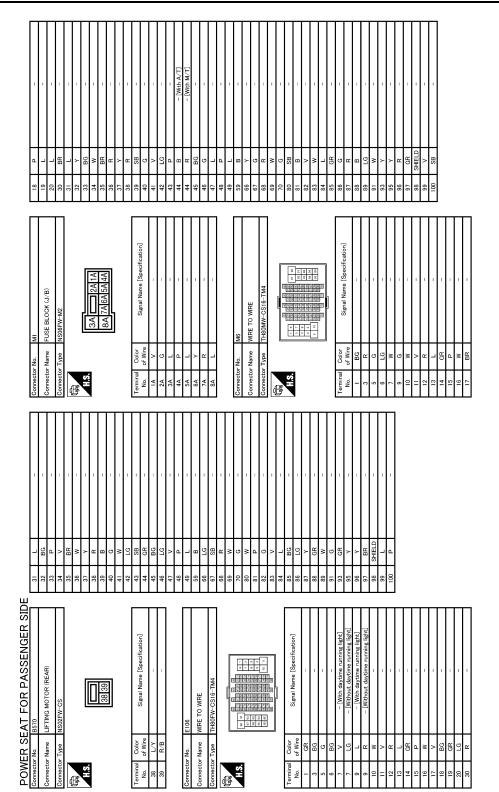
PASSENGER SEAT CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

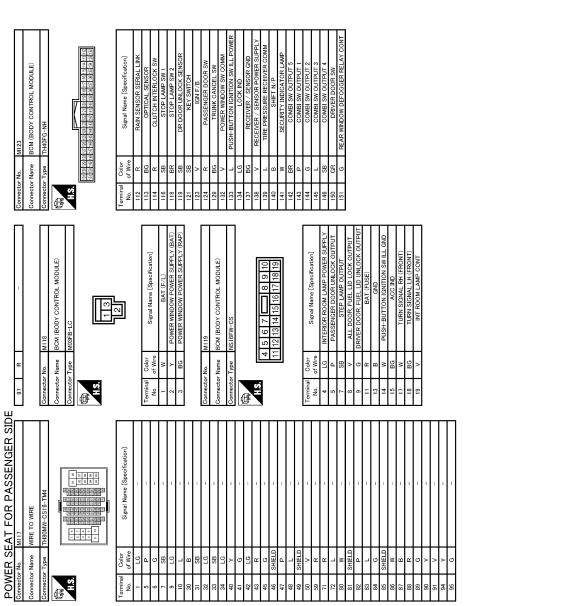
Revision: 2011 December

PASSENGER SEAT CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >



JCJWM1739GB



JCJWM1740GB

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PASSENGER SEAT CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

Revision: 2011 December

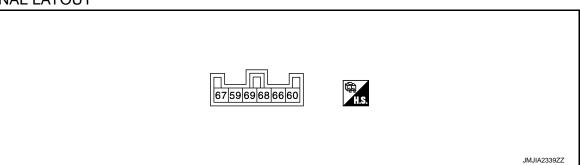
2011 G Coupe

< ECU DIAGNOSIS INFORMATION >

HEATED SEAT CONTROL UNIT

Reference Value

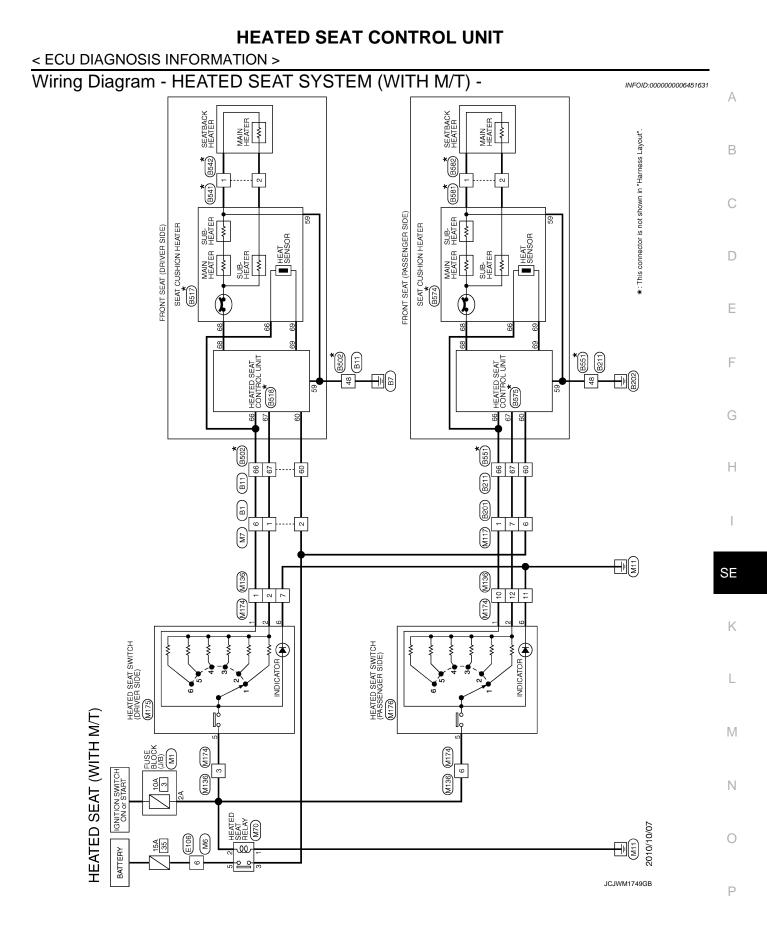
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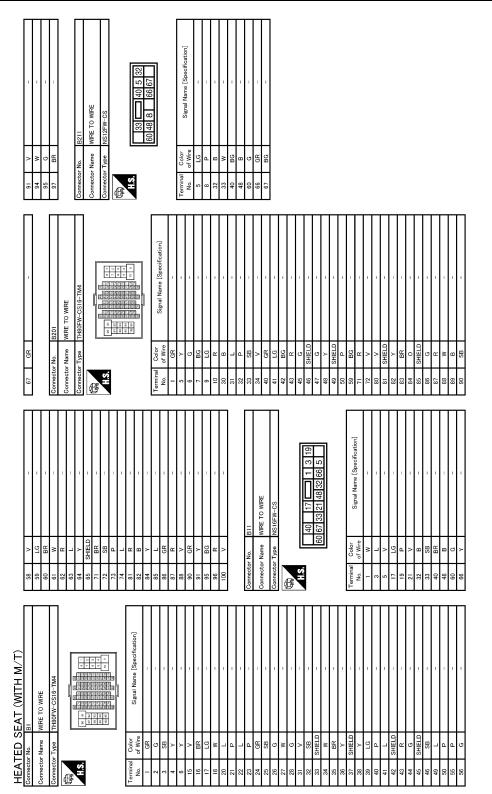
PHYSICAL VALUES

	nal No. color)	Description		Condition		Voltage (V)
(+)	(-)	Signal name	Input/ Output		(Approx.)	
59 (B)	Ground	Ground	_	Ignition switch O	0	
60	Ground	IGN power supply	المعرية	Ignition switch	OFF or ACC	0
(Y)	Giouna	IGN power supply	Input	Ignition Switch	ON	Battery voltage
66	Ground	Heated seat operation sig-	land	Heated seat	Operate	Battery voltage
(B)	Giouna	nal	Input	Healed Seal	Other than above	0
	Ground	Heated seat switch signal	Input	ut Heated seat switch	OFF	0
					1 (Min. temperature)	12.24
					2	12.33
67 (W)					3	12.49
					4	12.63
					5	12.76
					6 (Max. temperature)	12.90
68	0	Seat cushion heater pow-	0.1.1	11	Operate	0 – Battery voltage
(R/W)	Ground	er supply	Output	Heated seat	Other than above	0
					OFF	0
	Ground	Ground Heat sensor signal	Input		1 (Min. temperature)	10.87 – 11.02*
				Heated seat switch	2	10.93 – 11.07*
69 (R)					3	11.04 – 11.17*
					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.

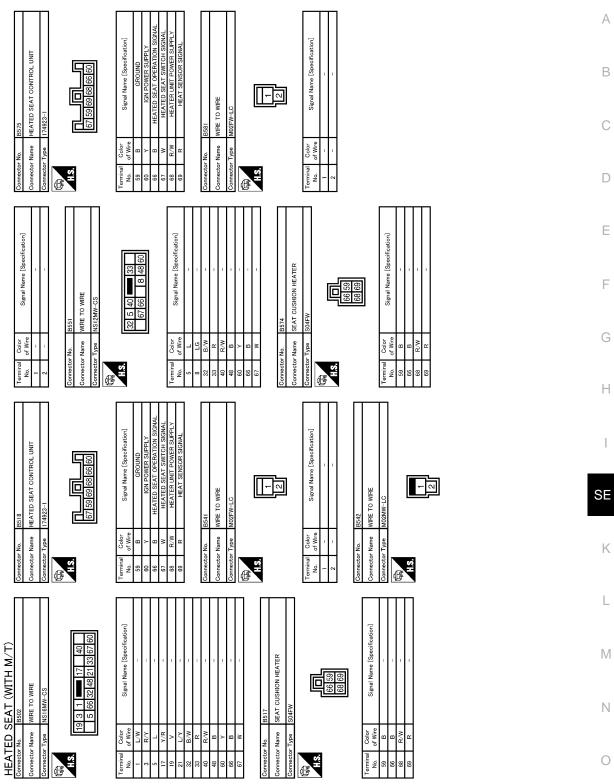


< ECU DIAGNOSIS INFORMATION >



JCJWM1750GB

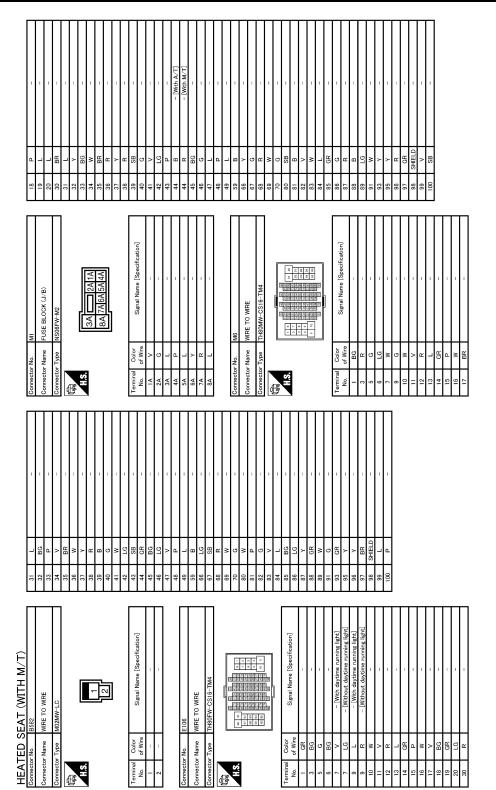
< ECU DIAGNOSIS INFORMATION >



JCJWM1751GB

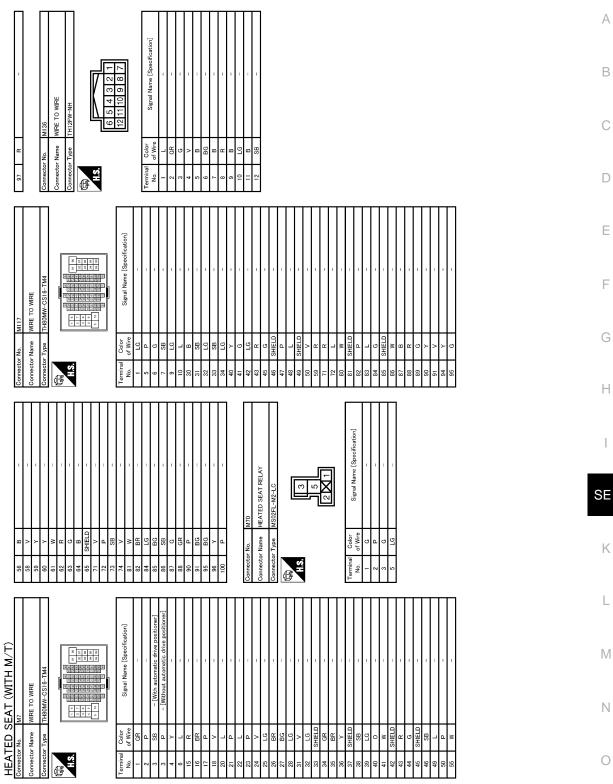
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< ECU DIAGNOSIS INFORMATION >



JCJWM1752GB

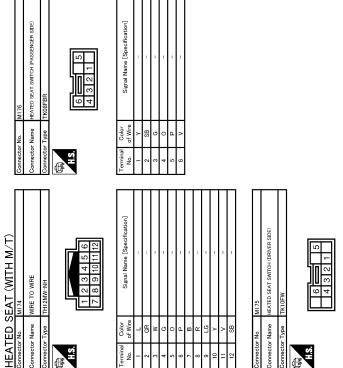
< ECU DIAGNOSIS INFORMATION >



JCJWM1753GB

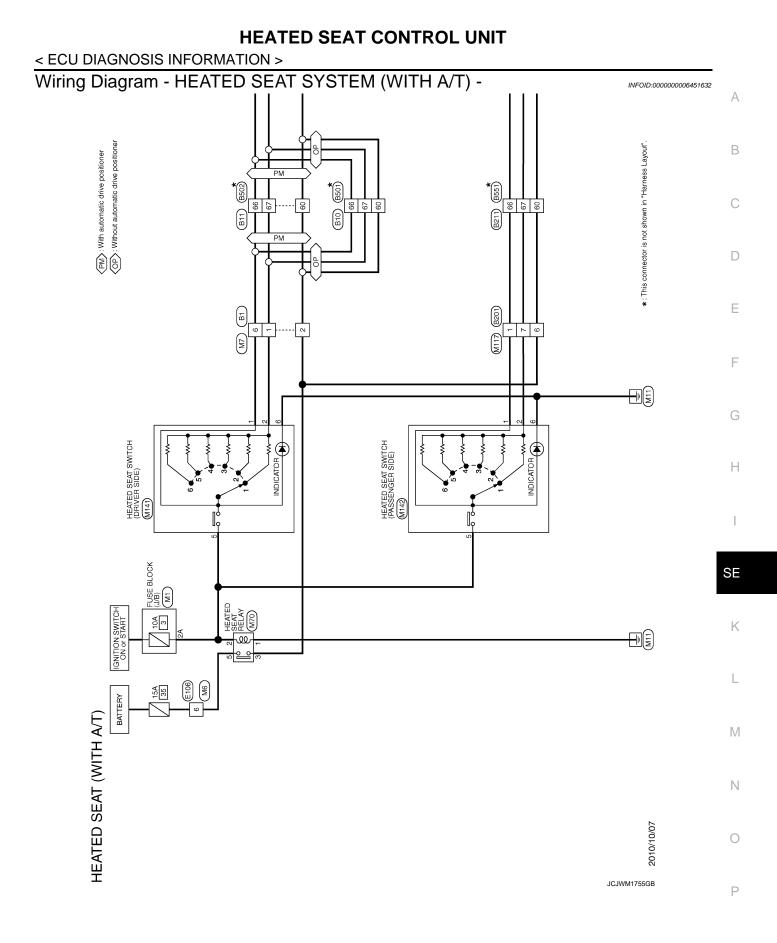
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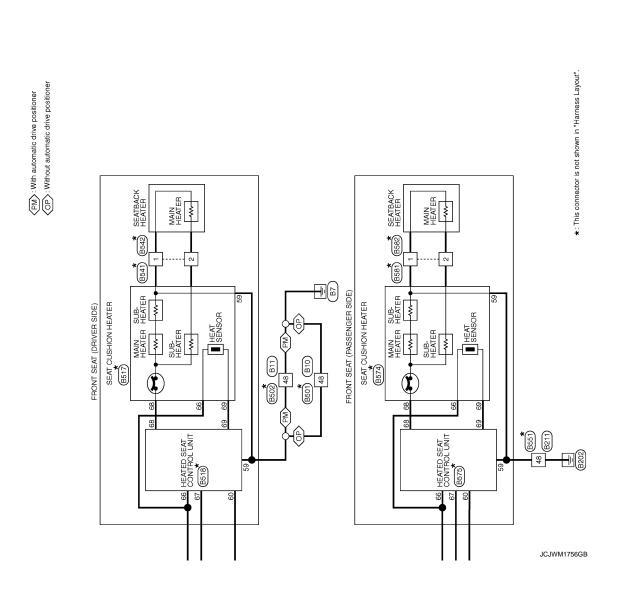
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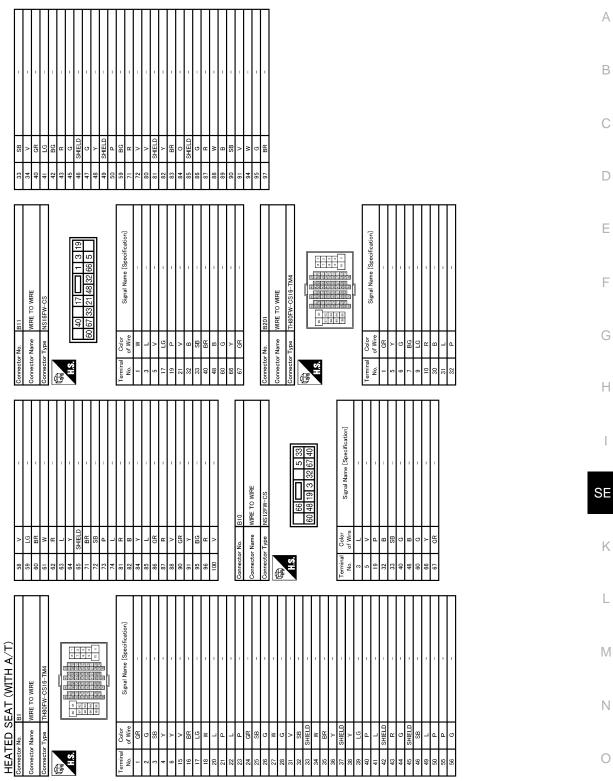
Signal Name [Specification]	1	-	-	1	1	1	
Color of Wire	L	GR	R	LG	W	В	
Terminal No.	1	2	3	4	5	9	

JCJWM1754GB





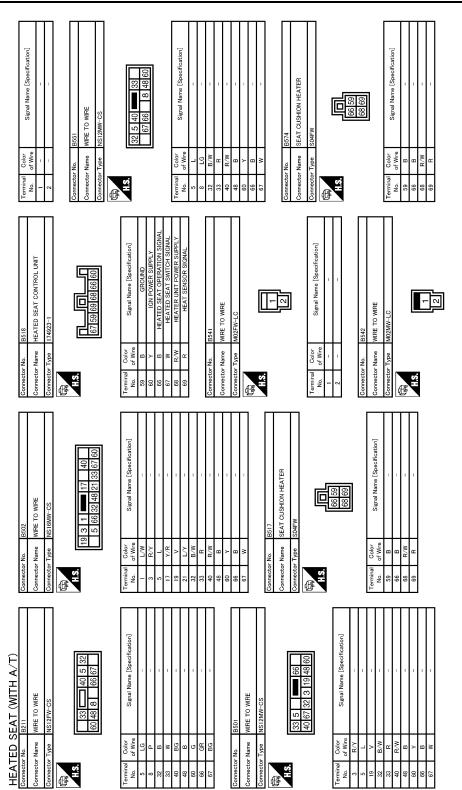
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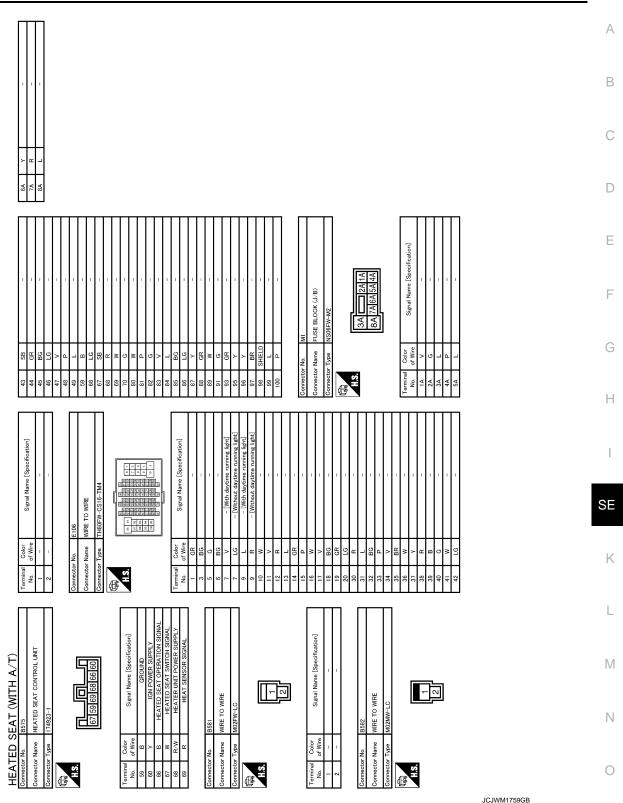
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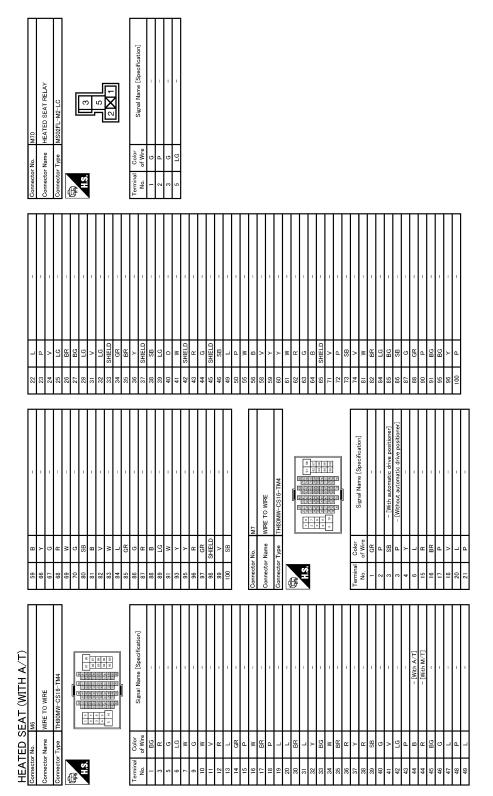
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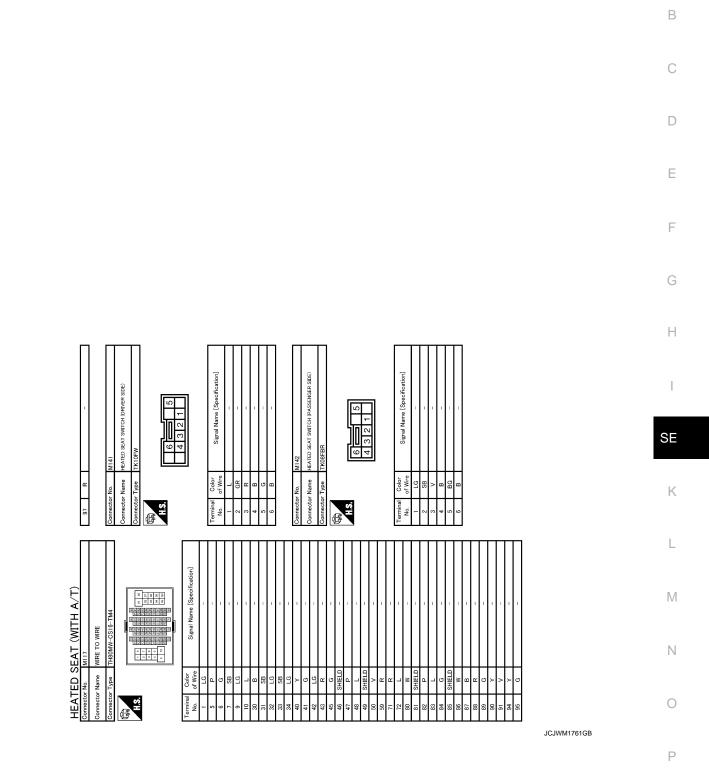
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< ECU DIAGNOSIS INFORMATION >



А

ALL COMPONENTS OF POWER SEAT DO NOT OPERAT < SYMPTOM DIAGNOSIS >	E
SYMPTOM DIAGNOSIS	
ALL COMPONENTS OF POWER SEAT DO NOT OPERATE DRIVER SIDE	
DRIVER SIDE : Diagnosis Procedure	INFOID:000000006451633
1. CHECK POWER SUPPLY CIRCUIT AND GROUND CIRCUIT	
$\begin{array}{llllllllllllllllllllllllllllllllllll$	
Check power seat switch ground circuit. Refer to SE-59, "DRIVER SIDE : Diagnosis Procedure". Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts. 3. 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 1.check power supply and ground circuit	INFOID:000000006451634
Check power supply and ground circuit. Refer to SE-35. "PASSENGER SEAT CONTROL UNIT : Diagnosis Procedure". Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2. 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 3. NO >> Repair or replace the malfunctioning parts. 3. 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 SEAT SWITCH (PASSENGER SIDE) DOES NOT OPERATE ANY COM-PONENTS

< SYMPTOM DIAGNOSIS >	
POWER SEAT SWITCH (PASSENGER SIDE) DOES NOT OPERATE ANY COMPONENTS	А
Diagnosis Procedure	В
1.CHECK POWER SEAT SWITCH GROUND CIRCUIT	D
Check power seat switch ground circuit. Refer to <u>SE-59, "PASSENGER SIDE : Diagnosis Procedure"</u> . Is the inspection result normal?	С
YES $>>$ GO TO 2. NO $>>$ Repair or replace the malfunctioning parts. 2.CONFIRM THE OPERATION	D
Check the operation again.	E
<u>Is the result normal?</u> YES >> Check intermittent incident. Refer to <u>GI-43, "Intermittent Incident"</u> . NO >> GO TO 1.	F
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< SYMPTOM DIAGNOSIS >

SLIDING FUNCTION DOES NOT OPERATE DRIVER SIDE

DRIVER SIDE : Diagnosis Procedure	INFOID:000000006451636
1.CHECK SLIDING 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 SLIDING SWITCH 	
Check sliding switch.	
Refer to <u>SE-41, "DRIVER SIDE : Component Function Check"</u> . <u>Is the inspection result normal?</u>	
YES >> GO TO 3.	
NO >> Repair or replace the malfunctioning parts.	
3.CHECK SLIDING MOTOR	
Check sliding motor. Refer to <u>SE-84, "DRIVER 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 <u>GI-43, "Intermittent Incident"</u> .	
NO >> GO TO 1. PASSENGER SIDE	
PASSENGER SIDE : Diagnosis Procedure	
	INFOID:000000006451637
1. CHECK SLIDING OPERATION	
Check sliding operation.	
Which sliding switch is malfunctioning?	
Both sides>>GO TO 2. Seatback side>>GO TO 4.	
Power seat switch side>>GO TO 5.	
2.CHECK SLIDING 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 3. NO >> Repair or replace the malfunctioning parts.	
3. CHECK SLIDING MOTOR	
Check sliding motor.	

Check sliding motor. Refer to <u>SE-85. "PASSENGER SIDE : Component Function Check"</u>. <u>Is the inspection result normal?</u>

SLIDING FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >	
YES >> GO TO 4.	
NO >> Repair or replace the malfunctioning parts.	А
4. CHECK SLIDING SWITCH (SEATBACK)	
Check sliding switch (seatback). Refer to <u>SE-44, "SEATBACK : Component Function Check"</u> .	В
Is the inspection result normal?	
YES >> GO TO 6. NO >> Repair or replace the malfunctioning parts.	С
5. CHECK SLIDING SWITCH	
Check sliding switch. Refer to <u>SE-42, "PASSENGER SIDE : Component Function Check"</u> .	D
Is the inspection result normal?	
YES >> GO TO 6. NO >> Repair or replace the malfunctioning parts.	E
6. CONFIRM THE OPERATION	_
Check the operation again.	F
Is the result normal?	
YES >> Check intermittent incident. Refer to <u>GI-43, "Intermittent Incident"</u> . NO >> GO TO 1.	G

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RECLINING FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

RECLINING FUNCTION DOES NOT OPERATE DRIVER SIDE

DRIVER SIDE	
DRIVER SIDE : Diagnosis Procedure	INFOID:000000006451638
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, "DRIVER SIDE : Component Function Check"</u> .	
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, "DRIVER SIDE : 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:000000006451639
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.	A
3. CHECK FORWARD SWITCH	
Check forward switch. Refer to <u>SE-62, "PASSENGER SIDE : Component Function Check"</u> .	В
Is the inspection result normal?	
YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts.	С
4.CHECK RECLINING MOTOR	
Check reclining motor. Refer to <u>SE-89, "PASSENGER SIDE : Component Function Check"</u> .	D
<u>Is the inspection result normal?</u> YES >> GO TO 5. NO >> Repair or replace the malfunctioning parts.	E
5.CONFIRM THE OPERATION	_
Check the operation again.	F
<u>Is the result normal?</u> YES >> Check intermittent incident. Refer to <u>GI-43, "Intermittent Incident"</u> . NO >> GO TO 1.	G

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LIFTING FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

LIFTING FUNCTION DOES NOT OPERATE FRONT

FRONT : Diagnosis Procedure

INFOID:000000006451640

1.CHECK LIFTING 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 LIFTING SWITCH (FRONT)

Check lifting switch (front).

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>.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK LIFTING MOTOR (FRONT)

Check lifting motor (front).

- Driver side: Refer to <u>SÉ-92, "DRIVER SIDE : Component Function Check"</u>.
- Passenger side: Refer to SE-93, "PASSENGER SIDE : Component Function Check".

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 <u>GI-43, "Intermittent Incident"</u>.

NO >> GO TO 1.

REAR

REAR : Diagnosis Procedure

1.CHECK LIFTING 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 LIFTING SWITCH (REAR)

Check lifting switch (rear).

- Driver side: Refer to <u>SE-55</u>, "DRIVER SIDE : Component Function Check".
- Passenger side: Refer to <u>SE-56, "PASSENGER SIDE : Component Function Check"</u>.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK LIFTING MOTOR (REAR)

Check lifting motor (rear).

INFOID:000000006451641

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>. 	A
Is the inspection result normal?	A
YES >> GO TO 4.	
NO >> Repair or replace the malfunctioning parts. 4.CONFIRM THE OPERATION	В
Check the operation again.	
Is the result normal?	С
YES >> Check intermittent incident. Refer to <u>GI-43, "Intermittent Incident"</u> .	
NO >> GO TO 1.	D
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POWER WALK-IN FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

POWER WALK-IN FUNCTION DOES NOT OPERATE DRIVER SIDE

DRIVER SIDE	
DRIVER SIDE : Diagnosis Procedure	INFOID:000000006451642
1.CHECK SEAT SLIDING OPERATION	
Check seat sliding operation.	<u>.</u>
Is the inspection result normal?	
YES >> GO TO 2.	
NO >> Refer to <u>SE-164, "DRIVER SIDE : Diagnosis Procedure"</u> . 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 <u>SE-11, "POWER WALK-IN FUNCTION : System Description"</u> . Is the inspection result normal?	
YES >> Power walk-in function is normal.	
NO $>>$ GO TO 3.	
3. CHECK POWER WALK-IN SWITCH	
Check power walk-in switch. Refer to <u>SE-73, "DRIVER SIDE : Component Function Check"</u> .	
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 <u>SE-65, "DRIVER SIDE : Component Function Check"</u> .	
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 <u>SE-61, "DRIVER SIDE : Component Function Check"</u> .	
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-69, "DRIVER SIDE : Component Function Check"</u> .	
Is the inspection result normal?	
YES >> GO TO 7. NO >> Repair or replace the malfunctioning parts.	
7. CHECK DRIVER SIDE DOOR SWITCH	
Check driver side door switch.	
Refer to <u>SE-77, "Component Function Check"</u>	
Is the inspection result normal?	
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 <u>SE-79, "DRIVER SIDE : Component Function Check"</u> . A
YES >> GO TO 9. NO >> Repair or replace the malfunctioning parts.
9. CONFIRM THE OPERATION
Check the operation again
Refer to <u>SE-11, "POWER WALK-IN FUNCTION : System Description"</u> .
YES >> Check intermittent incident. Refer to <u>GI-43, "Intermittent Incident"</u> . NO >> Replace driver seat control unit. Refer to <u>SE-205, "Removal and Installation"</u> . PASSENGER SIDE
PASSENGER SIDE : Diagnosis Procedure
1. CHECK SEAT SLIDING OPERATION
Check seat sliding operation.
YES >> GO TO 2.
NO >> Refer to <u>SE-164, "PASSENGER SIDE : Diagnosis Procedure"</u> .
2.PERFORM INITIALIZATION PROCEDURE
Refer to <u>SE-8, "SYSTEM INITIALIZATION : Special Repair Requirement"</u> .
 Check power walk-in function. Refer to <u>SE-11, "POWER WALK-IN FUNCTION : System Description"</u>.
Is the inspection result normal?
YES >> Power walk-in function is normal. NO >> GO TO 3.
NO >> GO TO 3. 3.CHECK POWER WALK-IN SWITCH
Check power walk-in switch. Refer to <u>SE-74, "PASSENGER SIDE : Component Function Check"</u> .
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 <u>SE-66, "PASSENGER SIDE : Component Function Check"</u> .
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.

7. CHECK PASSENGER SIDE DOOR SWITCH

Check passenger side door switch.

Refer to SE-77, "Component Function Check"

Is the inspection result normal?

YES >> GO TO 8.

NO >> Repair or replace the malfunctioning parts.

8.CHECK SLIDING SENSOR

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 <u>SE-11, "POWER WALK-IN FUNCTION : System Description"</u>.

Is the result normal?

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

NO >> Replace passenger seat control unit. Refer to <u>SE-206, "Removal and Installation"</u>.

HEATED SEAT DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >	
HEATED SEAT DOES NOT OPERATE	
BOTH SIDES	A
BOTH SIDES : Diagnosis Procedure	В
1.CHECK HEATED SEAT SWITCH POWER SUPPLY	
Check heated seat switch power supply. Refer to <u>SE-38, "HEATED SEAT SWITCH : Diagnosis Procedure"</u> .	С
Is the inspection result normal?	
YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts.	D
2.CHECK HEATED SEAT RELAY	
Check heated seat relay.	Е
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	
	G
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?	Н
YES >> GO TO 4.	
NO >> Repair or replace the malfunctioning parts.	
4.CONFIRM THE OPERATION	
Confirm the operation again.	
<u>Is the inspection result normal?</u> YES >> Check intermittent incident. Refer to GI-43. "Intermittent Incident".	SE
YES >> Check intermittent incident. Refer to <u>GI-43. "Intermittent Incident"</u> . NO >> GO TO 1.	
DRIVER SIDE	
DRIVER SIDE : Diagnosis Procedure	K
1. CHECK HEATED SEAT SWITCH POWER SUPPLY	L
Check heated seat switch power supply.	
Refer to <u>SE-38, "HEATED SEAT SWITCH : Diagnosis Procedure"</u> .	M
<u>Is the inspection result normal?</u> YES >> GO TO 2.	IVI
NO >> Repair or replace the malfunctioning parts.	
2. CHECK HEATED SEAT CONTROL UNIT POWER SUPPLY AND GROUND CIRCUIT	Ν
Check heated seat switch power supply and ground circuit. Refer to <u>SE-36, "HEATED SEAT CONTROL UNIT : Diagnosis Procedure"</u> .	0
Is the inspection result normal?	0
YES >> GO TO 3.	
NO >> Repair or replace the malfunctioning parts. 3.CHECK HEATED SEAT SWITCH	Ρ
Check heated seat switch. Refer to <u>SE-100, "DRIVER SIDE : Component Function Check"</u> .	
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

Check seat cushion heater.

Refer to <u>SE-111, "DRIVER SIDE : Component Function Check"</u>.

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5.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 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-101. "PASSENGER SIDE : Component Function Check"</u>.

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.CHECK SEAT CUSHION HEATER

Check seat cushion heater.

Refer to <u>SE-112, "PASSENGER SIDE : Component Function Check"</u>.

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5.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.

INFOID:000000006451646

SEATBACK HEATER ONLY DOES NOT OPERATE	
< SYMPTOM DIAGNOSIS >	
SEATBACK HEATER ONLY DOES NOT OPERATE	
DRIVER SIDE	
DRIVER SIDE : Diagnosis Procedure	
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> . <u>Is the inspection result normal?</u>	
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.	

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CANNOT ADJUST HEATED SEAT TEMPERATURE

< SYMPTOM DIAGNOSIS >

CANNOT ADJUST HEATED SEAT TEMPERATURE DRIVER SIDE

INFOID:000000006451649

1.CHECK HEATED SEAT SWITCH

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

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK HEAT SENSOR

Check heat sensor. Refer to <u>SE-106, "DRIVER SIDE : Description"</u>.

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-207, "Removal and Installation"</u>.

PASSENGER SIDE

PASSENGER SIDE : Diagnosis Procedure

1.CHECK HEATED SEAT SWITCH

Check heated seat switch.

Refer to <u>SE-101, "PASSENGER SIDE : Component Function Check"</u>.

Is the inspection result normal?

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".

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-207, "Removal and Installation"</u>.

HEATED SEAT SWITCH INDICATOR DOES NOT TURN ON

HEATED SEAT SWITCH INDICATOR DOES NOT TURN ON	
< SYMPTOM DIAGNOSIS > HEATED SEAT SWITCH INDICATOR DOES NOT TURN ON DRIVER SIDE	A
DRIVER SIDE : Diagnosis Procedure	
1. CHECK HEATED SEAT SWITCH INDICATOR	В
Check heated seat switch indicator. Refer to <u>SE-117, "DRIVER SIDE : Component Function Check"</u> . <u>Is the inspection result normal?</u> YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2. CONFIRM THE OPERATION	C
Confirm the operation again. <u>Is the inspection result normal?</u> YES >> Check intermittent incident. Refer to <u>GI-43, "Intermittent Incident"</u> . NO >> GO TO 1. PASSENGER SIDE	F
PASSENGER SIDE : Diagnosis Procedure	2 G
1.CHECK HEATED SEAT SWITCH INDICATOR Check heated seat switch indicator. Refer to <u>SE-117, "PASSENGER SIDE : Component Function Check"</u> .	Н
Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2.CONFIRM THE OPERATION	I
Confirm the operation again.	SE
Is the inspection result normal?	
YES >> Check intermittent incident. Refer to <u>GI-43, "Intermittent Incident"</u> . NO >> GO TO 1.	K
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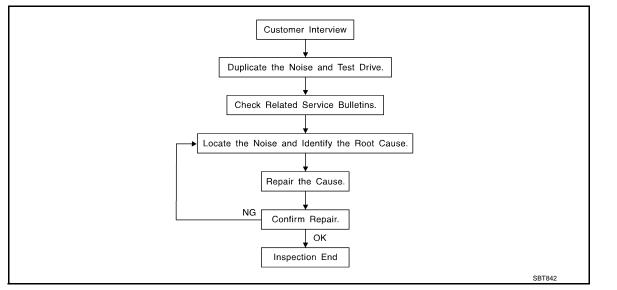
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SQUEAK AND RATTLE TROUBLE DIAGNOSES

< 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-182</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 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 = 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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SQUEAK AND RATTLE TROUBLE DIAGNOSES

< 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 SE-180, "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:

М 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] Ν 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 \times 50 mm (1.97 \times 1.97 in) Ρ 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 × 25 mm (0.59 × 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

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SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

Insulates where slight movement is present. Ideal for instrument panel applications. SILICONE GREASE Used in place of UHMW tape that is be visible or does not fit. Will only last a few months. SILICONE SPRAY Used when grease cannot be applied. DUCT TAPE Used to eliminate movement.

CONFIRM THE REPAIR

Confirm that the cause of a noise is repaired by test driving the vehicle. Operate the vehicle under the same conditions as when the noise originally occurred. Refer to the notes on the Diagnostic Worksheet.

Inspection Procedure

INFOID:000000006451654

Refer to Table of Contents for specific component removal and installation information.

INSTRUMENT PANEL

Most incidents are caused by contact and movement between:

- 1. The cluster lid A and instrument panel
- 2. Acrylic lens and combination meter housing
- 3. Instrument panel to front pillar garnish
- 4. Instrument panel to windshield
- 5. Instrument panel mounting pins
- 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 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:

Never use silicone spray to isolate a squeak or rattle. If the area is saturated with silicone, the recheck of repair becomes impossible.

CENTER CONSOLE

Components to pay attention to include:

- 1. Shifter assembly cover to finisher
- 2. A/C control unit and cluster lid C
- 3. Wiring harnesses behind audio and A/C control unit

The instrument panel repair and isolation procedures also apply to the center console.

DOORS

Pay attention to the following:

- 1. Finisher and inner panel making a slapping noise
- 2. Inside handle escutcheon to door finisher
- 3. Wiring harnesses tapping
- 4. Door striker out of alignment causing a popping noise on starts and stops

Tapping or moving the components or pressing on them while driving to duplicate the conditions can isolate many of these incidents. The areas can usually be insulated with felt cloth tape or insulator foam blocks from the Nissan Squeak and Rattle Kit (J-43980) to repair the noise.

TRUNK

Trunk noises are often caused by a loose jack or loose items put into the trunk by the customer. In addition look for the following:

- 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

SQUEAK AND RATTLE TROUBLE DIAGNOSES

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Nost of these incidents can be repaired by adjusting, securing or insulating the item(s) or com ng the noise.	onent(s) caus-
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	
Front or rear windshield touching headlining and squeaking	
Again, pressing on the components to stop the noise while duplicating the conditions can isola ncidents. Repairs usually consist of insulating with felt cloth tape.	e most of these
SEATS	
When isolating seat noise it's important to note the position the seats in and the load placed o the noise occurs. These conditions should be duplicated when verifying and isolating the caus 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 dup	cating the con-
ditions under which the noise occurs. Most of these incidents can be repaired by repositioning or applying urethane tape to the contact area.	
JNDERHOOD	
Some interior noise may be caused by components under the hood or on the engine wall. Th ransmitted into the passenger compartment. Causes of transmitted underhood noise include:	e noise is then
 Any component mounted to the engine wall 	
Components that pass through the engine wall	
Engine wall mounts and connectors	
 Loose radiator mounting pins 	
5. Hood bumpers out of adjustment	
Hood striker out of adjustment	_
These noises can be difficult to isolate since they cannot be reached from the interior of the venethod is to secure, move or insulate one component at a time and test drive the vehicle. Also for load can be changed to isolate the noise. Repairs can usually be made by moving, adjustion of the vehicle of the noise.	o, engine RPM
nsulating the component causing the noise.	

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

Diagnostic Worksheet



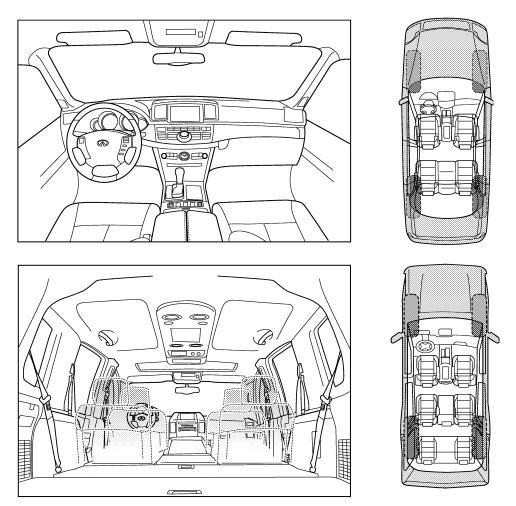
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

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.

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

Briefly describe the location where the no	oise occurs:	
I. WHEN DOES IT OCCUR? (please ch	leck the boxes that apply)	
anytime	\Box after sitting out in the rain	
1st time in the morning	\Box when it is raining or wet	
only when it is cold outside	dry or dusty conditions	
only when it is hot outside	☐ other:	
II. WHEN DRIVING:	IV. WHAT TYPE OF NOISE	
through driveways	Squeak (like tennis shoes on a clean floor)	
over rough roads	creak (like walking on an old wooden floor)	
over speed bumps	rattle (like shaking a baby rattle)	
only about mph	knock (like a knock at the door)	
on acceleration	\Box tick (like a clock second hand)	
☐ coming to a stop	thump (heavy, muffled knock noise)	
☐ on turns: left, right or either (circle)	buzz (like a bumble bee)	
—		
with passengers or cargo		
☐ with passengers or cargo ☐ other:		
	inutes	
other:		
other:		
other: miles or m		
other: miles or miles	PERSONNEL	
other: miles or	PERSONNEL	
other:	P PERSONNEL YES NO Initials of person performing	
other:	P PERSONNEL YES NO Initials of person performing	
other: miles or mi	P PERSONNEL YES NO Initials of person performing mrm repair	
other:	PERSONNEL YES NO Initials of person performing rm repair Customer Name:	

< 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. А • 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. В - 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 С 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. D • Do not use organic solvent such as thinner, benzene, alcohol, and gasoline. • For genuine leather seats, use a genuine leather seat cleaner. Ε F
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< PREPARATION >

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	
(к	Description	
(J39570) Chassis ear	SIIA0993E	Locates the noise
(J43980) NISSAN Squeak and Rattle Kit	SIIA0994E	Repairs the cause of noise
Commercial Service To	lool	INFOID:00000006451661
	Tool name	Description
	loorname	Description
Engine ear	SIIA0995E	Locates the noise

Remover tool

A D D

JMKIA3050ZZ

Hook and pick tool

JMJIA0490ZZ

Removes the clips, pawls and metal clips

< PREPARATION > CLIP LIST

Clip List

A

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		F	1	E
Shapes	Removal & Installation	Shapes	Removal & Installation	
T T T	Removal: Remove by bending up with flat-bladed screwdrivers or clip remover.	Clip A Clip B	Removal: Finisher Clip A	C
T TT BT	Removal: Remove with a clip remover.	Clip A Clip B (Grommet)	Removal: Flat-bladed screwdriver Body panel Clip A Clip B (Grommet)	F
e e	Removal: Push center pin to catching position. (Do not remove center pin by hitting it.) Push		Removal: Holder portion of clip must be spread out to remove rod.	F
	Removal: Remove by bending up with flat-bladed screwdrivers or clip remover.		 Removal: Screw out with a Phillips screwdriver. Remove female portion with flat-bladed screwdriver. 	SE
	Removal:		Removal: Installation: Rotate 45° to remove.	L N
	Removal:		Removal: Removal:	F

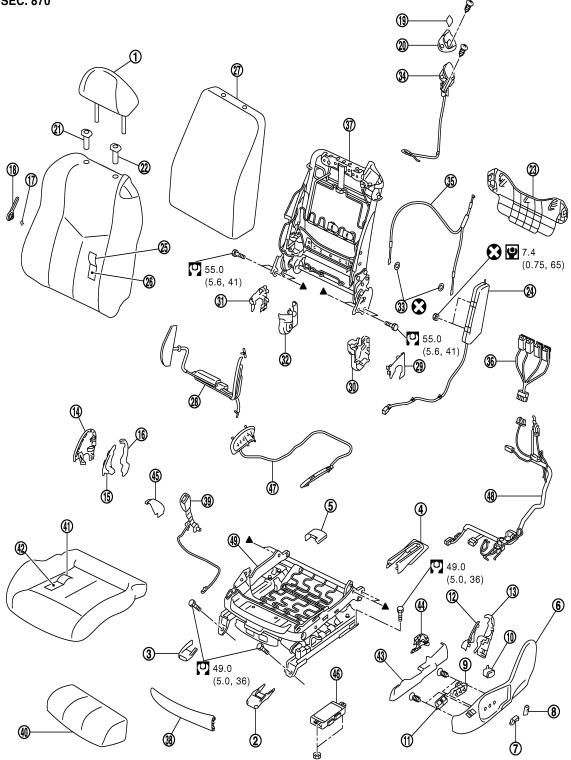
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REMOVAL AND INSTALLATION FRONT SEAT

Exploded View

DRIVER'S SEAT

SEC. 870



JMJIA1021GB

< REMOVAL AND INSTALLATION >

1.	Headrest	2.	Front outer slide cover	3.	Front inner slide cover	А
4.	Rear outer slide cover	5.	Rear inner slide cover	6.	Seat cushion outer finisher	
7.	Seat slide and lifter switch knob	8.	Seat reclining switch knob	9.	Seat control switch	
10.	Lumbar support switch	11.	Side support switch	12.	Seat cushion outer finisher inside (front)	В
13.	Seat cushion outer finisher inside (rear)	14.	Seat cushion inner finisher	15.	Seat cushion inner finisher inside (front)	0
16.	Seat cushion inner finisher inside (rear)	17.	Snap ring	18.	Lumbar support lever knob	С
19.	Walk-in lever cap	20.	Walk-in lever upper escutcheon	21.	Headrest holder (free)	_
22.	Headrest holder (locked)	23.	Seatback lower panel	24.	Side air bag module	D
25.	Seatback trim	26.	Seatback pad	27.	Seatback silencer	
28.	Seatback side support bag and unit	29.	Reclining device outer cover (out- side)	30.	Reclining device outer cover (inside)	Е
31.	Reclining device inner cover (out- side)	32.	Reclining device inner cover (inside)	33.	Push nut	
34.	Walk-in lever	35.	Reclining device wire	36.	Reclining and slide relay	F
37.	Seatback frame	38.	Seat cushion front finisher	39.	Seat belt buckle	
40.	Seat cushion pad (front)	41.	Seat cushion trim	42.	Seat cushion pad	
43.	Seat slide outer finisher (outside)	44.	Seat slide outer finisher (inside)	45.	Seat slide inner finisher	G
46.	Seat control unit	47.	Seat cushion side support bag	48.	Seat harness	
49.	Seat cushion frame					
Ref	er to <u>GI-4, "Components"</u> for symbols	in the	figure.			Н

PASSENGER'S SEAT

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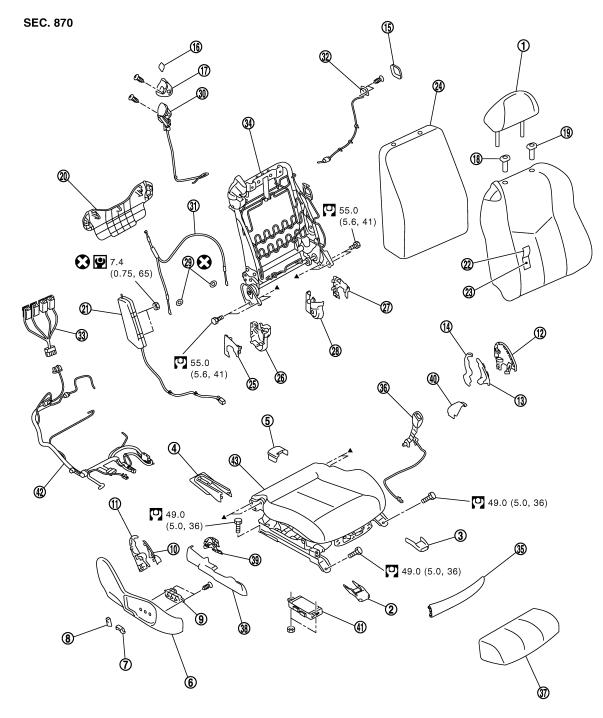
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< REMOVAL AND INSTALLATION >



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- 1. Headrest
- 4. Rear outer slide cover
- 7. Seat slide and lifter switch knob
- 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
- 8. Seat reclining switch knob
- 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

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

< REMOVAL AND INSTALLATION >

25.	Reclining device outer cover (out- side)	26.	Reclining device outer cover (inside)	27.	Reclining device inner cover (out- side)	A	L
28.	Reclining device inner cover (inside)	29.	Push nut	30.	Walk-in lever		
31.	Reclining device wire	32.	Slide switch (seatback)	33.	Reclining and slide relay	В	,
34.	Seatback frame	35.	Seat cushion front finisher	36.	Seat belt buckle		
37.	Seat cushion pad (front)	38.	Seat slide outer finisher (outside)	39.	Seat slide outer finisher (inside)		
40.	Seat slide inner finisher	41.	Seat control unit	42.	Seat harness	С	,
43.	Seat cushion assembly						
Ref	er to <u>GI-4, "Components"</u> for symbols i	n the	figure.				
-	aval and Installation					D	i

Removal and Installation

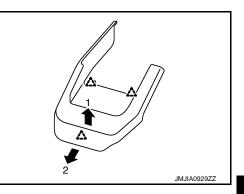
REMOVAL

CAUTION:

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

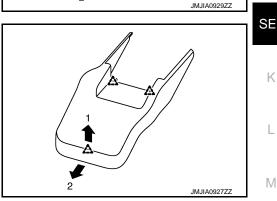
- 1. Remove the headrest.
- 2. Remove the front slide cover.
- a. Front outer slide cover
 - Slide the seat to the rearmost position.
 - Pull up the front edge of the front slide cover to release the pawls.
 - Slide the front slide cover forward to release the pawls.

2 : Pawl



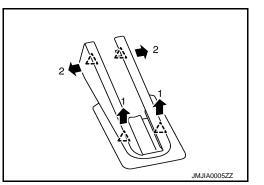
- b. Front inner slide cover
 - Slide the seat to the rearmost position.
 - Pull up the front edge of the front slide cover to release the pawls.
 - Slide the front slide cover forward to release the pawls.

∠____: Pawl



- 3. Remove the mounting bolts on the front side of the front seat.
- 4. Remove the rear slide cover.
- a. Rear outer slide cover
 - 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.





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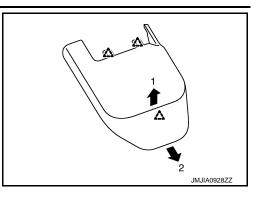
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< REMOVAL AND INSTALLATION >

- 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.

```
: Pawl
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- 5. Remove the mounting bolts on the rear side of the front seat.
- 6. Set seatback in a standing position.
- 7. 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. CAUTION:

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

INSTALLATION

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</u> : <u>Special Repair Requirement</u>". (Without automatic drive positioner model) Refer to <u>SE-8</u>, "<u>ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL</u> : <u>Special Repair Requirement</u>".

Disassembly and Assembly

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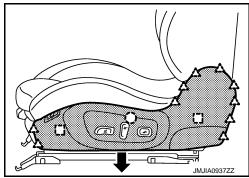
SEATBACK

Disassembly

- 1. Remove the seat cushion outer finisher.
 - Remove the metal clips, clips and pawls, and then pull out seat cushion outer finisher.



• Disconnect the seat control switch, lumbar support switch and side support switch harness connector.

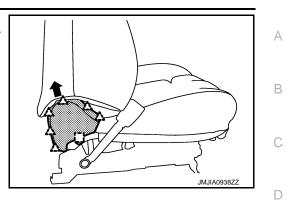


• Remove the seat cushion outer finisher inside (front, rear).

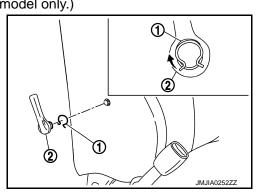
< REMOVAL AND INSTALLATION >

- 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
<u>^</u>	: 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.



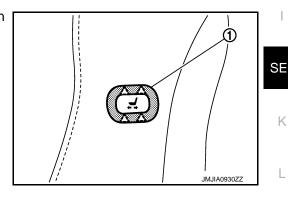
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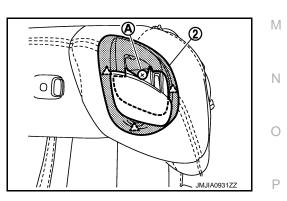
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- 4. Remove the seatback trim and seatback pad.
 - Remove the pawls, and then pull out slide switch escutcheon (1).

22 : Pawl



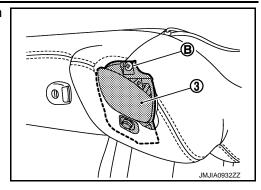
- Remove the walk-in lever cap.
- Remove the screw (A) and pawls, and then walk-in lever upper escutcheon (2).



2 : Pawl

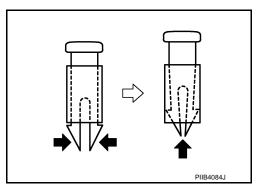
< REMOVAL AND INSTALLATION >

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

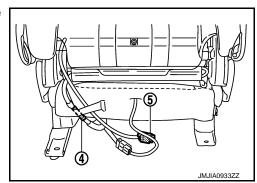


- Remove the seatback retainer, and then open the fastener.
- Remove the headrest holder. CAUTION:

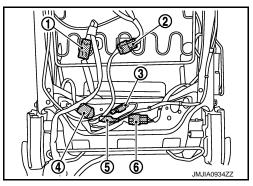
Before installing headrest holder check its orientation. (front/rear and right/left)



- 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).



- Remove the seatback trim and seatback pad from the seatback frame.
- Remove the hog rings, and separate the seatback trim and seatback pad.
- 5. 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.)

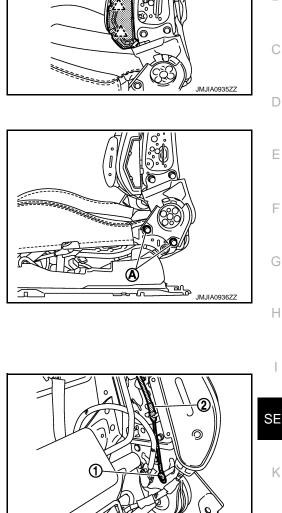


< REMOVAL AND INSTALLATION >

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

Remove the seatback frame. 8. Remove the seatback frame mounting bolt (A).

- 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.



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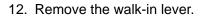
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Assembly

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

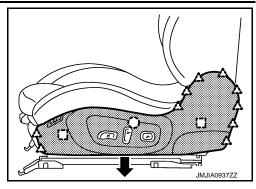
Disassembly

CAUTION:

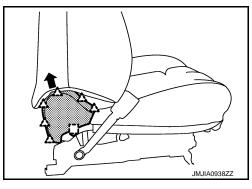
- Never disassemble front passenger seat cushion assembly.
- Always replace as an assembly.
- For front passenger seat service parts, refer to the service part catalogue.
- 1 Remove the seat cushion outer finisher.

< REMOVAL AND INSTALLATION >

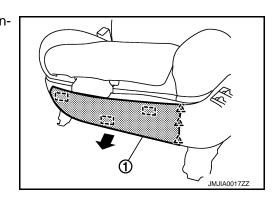
- Remove the metal clips, clips and pawls, and then pull out seat cushion outer finisher.
 - ([^]) : Clip
 - : Metal clip
 - 八:Pawl



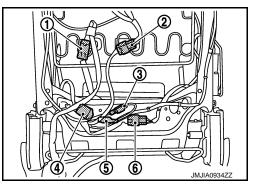
- Disconnect the seat control switch, lumbar support switch and side support switch harness connector.
- Remove the seat cushion outer finisher inside (front, rear).
- 2. Remove the seat cushion inner finisher.
 - Remove the seat cushion inner finisher inside (front, rear) by releasing the metal clip 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.
 - [_] ∷Metal clip ⚠ : Pawl



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

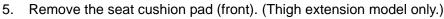


- 4. Remove the seatback assembly.
 - Remove the seatback lower panel.
 - Disconnect the side support unit harness connector (1) and remove the harness clamp.(Side support model only.)
 - Disconnect the reclining and slide relay harness connector (2) and remove the harness clamp.
 - Disconnect the power 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.



- 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).

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

• Disconnect the seat cushion heater unit harness connector.

7. Remove the side support bag. (Side support model only.)

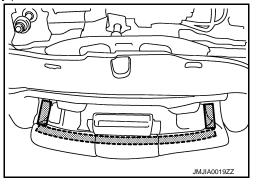
• Remove the hog rings, and separate the seat cushion trim and seat cushion pad.

· Remove the seat cushion retainer.

• Remove the hose clamp.

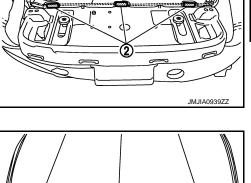


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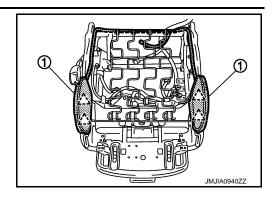
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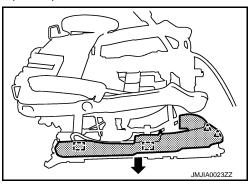
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< REMOVAL AND INSTALLATION >

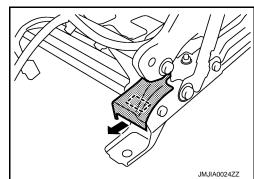
- Remove the pawls, and then remove side support bag (1).
 - 2 : Pawl



- 8. Remove the seat slide outer finisher.
 - 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



- Remove the seat slide inner finisher. Remove the metal clip, and then pull out seat slide inner finisher.
 - [] : Metal clip

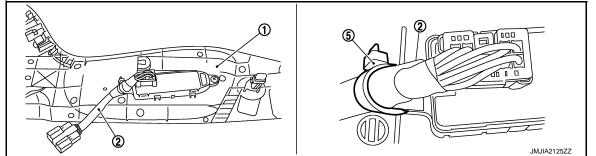


Assembly

1. 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 pad side wire.

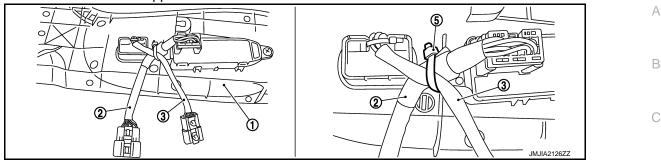
- 2. Front seat switch harness layout.
- a. Normal seat without lumbar support switch



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

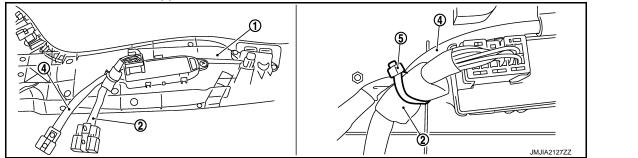
< REMOVAL AND INSTALLATION >

b. Normal seat with lumbar support switch



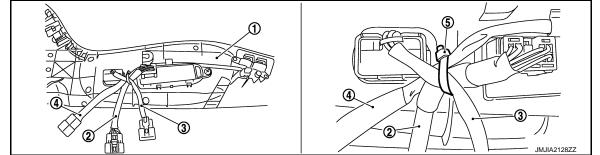
Locate lumbar support switch harness (3) in the forehand position, cross seat control harness (2), and fix to seat cushion outer finisher (1) boss using a self locking band (5) as shown in the figure.

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.

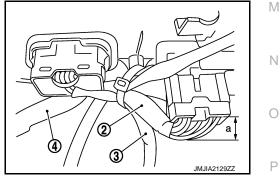
d. Sport seat with lumbar support switch



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.



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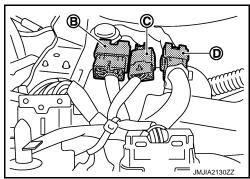
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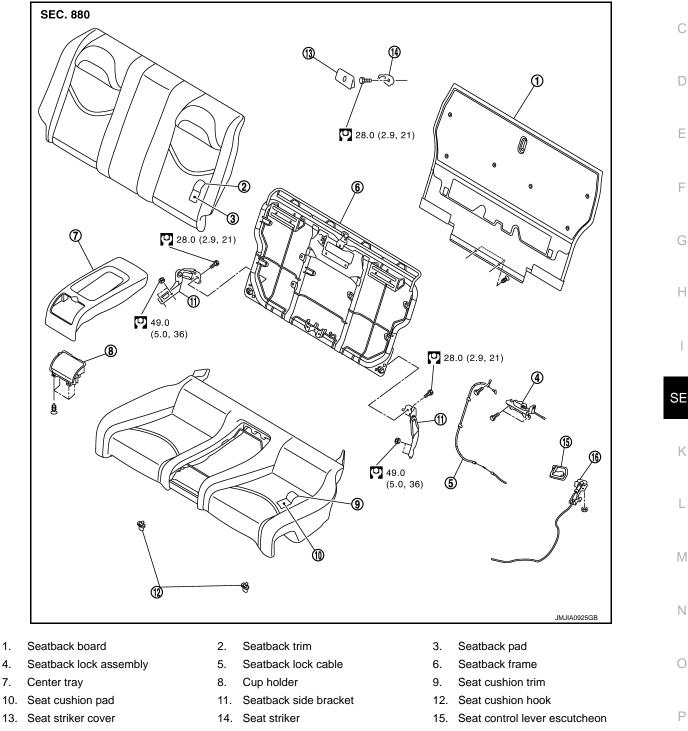
 Locate lumbar support switch harness crossing in the upper position, fix seat control harness connector (B), lumbar support switch harness connector (C), and side support harness connector (D) as shown in the figure.



REAR SEAT

Exploded View

REAR SEAT



16. Seatback control cable

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

Removal and Installation

REMOVAL **CAUTION:**

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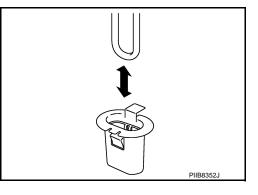
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REAR SEAT

< 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.
 - Remove the seatback control cable. Refer to SE-204, "Removal and Installation".
 - Remove the seatback mounting bolt.
 - Remove the seatback frame the vehicle.
- 3. Remove the seatback side bracket.
 - Remove the seatback side bracket mounting nuts.
 - Remove the seatback side bracket from the vehicle.
- 4. Remove the seat striker.
 - Remove the seat striker cover.
 - Remove the seat striker mounting bolt.

INSTALLATION

Install in the reverse order of removal. CAUTION:

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

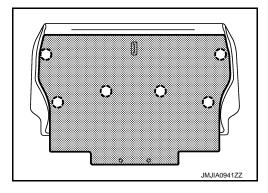
Disassembly and Assembly

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.

REAR SEAT

< REMOVAL AND INSTALLATION >

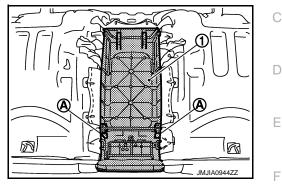
CAUTION:

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

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SEATBACK CONTROL CABLE

< REMOVAL AND INSTALLATION >

SEATBACK CONTROL CABLE

Exploded View

Refer to SE-201, "Exploded View".

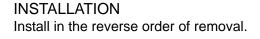
Removal and Installation

REMOVAL

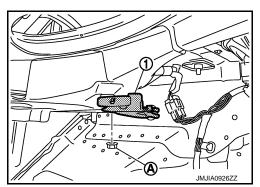
- 1. Remove the trunk front finisher upper. Refer to INT-29, "Removal and Installation".
- 2. Remove the seatback control cable.
 - Fold the seatback before.
 - Remove the clips (A), and then pull up the seatback lower part.

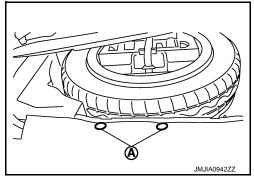
• Remove the seatback control cable (1) from the seatback frame.

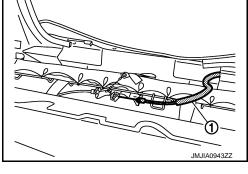
- Remove the seatback control cable mounting nut (A).
- Remove the seatback control cable (1) from the vehicle.











DRIVER SEAT CONTROL UNIT

< REMOVAL AND INSTALLATION >

DRIVER SEAT CONTROL UNIT

Exploded View

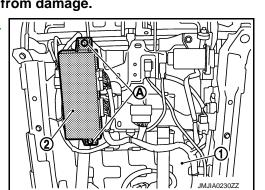
Refer to SE-188, "Exploded View".

Removal and Installation

REMOVAL CAUTION:

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

- 1. Remove driver seat (1). Refer to <u>SE-191, "Removal and Installa-</u> tion".
- 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.

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PASSENGER SEAT CONTROL UNIT

Exploded View

Refer to SE-188, "Exploded View".

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. Refer to <u>SE-205, "Removal and Installation"</u>.

INSTALLATION Install in the reverse order of removal. CAUTION: Always clamp the harness to the right place. INFOID:000000006451673

HEATED SEAT CONTROL UNIT

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HEATED SEAT CONTROL UNIT		А
Exploded View	INFOID:000000006451675	~
Refer to <u>SE-188, "Exploded View"</u> .		В
Removal and Installation	INFOID:000000006451676	
REMOVAL		С
 CAUTION: When removing and installing, use shop cloths to protect parts from damage. 1. Remove the front seat. 2. Disconnect heated seat control unit connector. 3. Remove the heated seat control unit from the heated seat control unit stay. Refer to <u>SE-View</u>". 	188, "Exploded	D
INSTALLATION Install in the reverse order of removal. CAUTION: Always clamp the harness to the right place.		F
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AUTOMATIC DRIVE POSITIONER CONTROL UNIT

< REMOVAL AND INSTALLATION >

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

Exploded View

Refer to <u>IP-12, "A/T MODELS : Exploded View"</u> (A/T models) or <u>IP-23, "M/T MODELS : Exploded View"</u> (M/T models).

Removal and Installation

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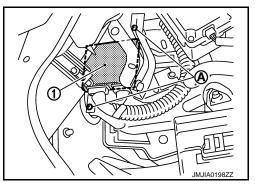
INFOID:000000006451677

REMOVAL

CAUTION:

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

- 1. Remove the battery negative terminal.
- Remove the instrument driver lower panel. Refer to <u>IP-13, "A/T</u> <u>MODELS : Removal and Installation"</u> (A/T models) or <u>IP-24, "M/</u> <u>T MODELS : Removal and Installation"</u> (M/T models).
- 3. Remove the screws (A).
- 4. Remove automatic drive positioner control unit (1).



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

POWER SEAT SWITCH

Removal and Installation

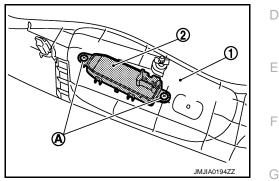
REMOVAL

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-191.</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

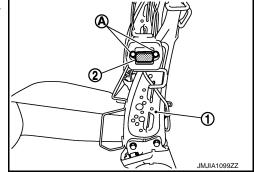
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REMOVAL

CAUTION:

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

- 1. Remove seatback pad. Refer to <u>SE-191, "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

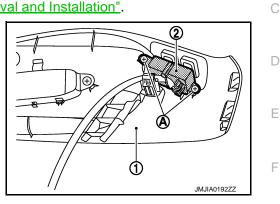
Removal and Installation

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-191, "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

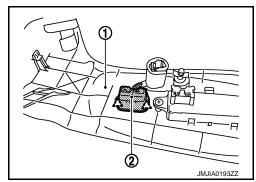
REMOVAL

CAUTION:

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

- 1. Remove seat cushion outer finisher (1). Refer to <u>SE-191</u>, <u>"Removal and Installation"</u>
- 2. Remove lumbar support switch (2).

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-34, "A/T MODELS : Exploded View" (A/T models) or IP-39, "M/T MODELS : Exploded View" (M/T В models).

Removal and Installation

REMOVAL

CAUTION:

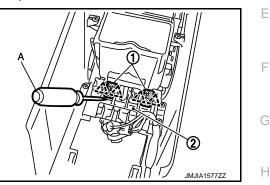
When removing and installing, use shop cloths to protect from damage.

- Remove the console body assembly. Refer to IP-35, "A/T MODELS : Removal and Installation" (A/Y mod-1. els) or IP-40, "M/T MODELS : Removal and Installation" (M/T models).
- Remove heated seat switch (1) from switch bracket (2) with flat-2. bladed screwdriver (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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