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DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

WorkFlow INFOID:0000000005096238

DETAILED FLOW

1. OBTAIN INFORMATION ABOUT SYMPTOM

Interview the customer to obtain the malfunction information (conditions and environment when the malfunction occurred) as much as possible when the customer brings the vehicle in.

>> GO TO 2.

2. CHECK FOR DTC

- 1. Check DTC for BCM.
- 2. Perform the following procedure if DTC is displayed.
- Record DTC and freeze frame data (Print them out with CONSULT-III.)
- Erase DTC.
- Study the relationship between the cause detected by DTC and the symptom described by the customer.
- 3. Check related service bulletins for information.

Is any symptom described and any DTC detected?

Symptom is described, DTC is displayed>>SE-155, "DTC Index".

Symptom is described, DTC is not displayed>>GO TO 3.

3.REPRODUCE THE MALFUNCTION INFORMATION

Check the malfunction on the vehicle that the customer describes.

Inspect the relation of the symptoms and the condition when the symptoms occur.

>> GO TO 4.

4. IDENTIFY THE MALFUNCTIONING SYSTEM WITH "SYMPTOM DIAGNOSIS"

Use "Symptom diagnosis" from the symptom inspection result in step 2 and then identify where to start performing the diagnosis based on possible causes and symptoms.

>> GO TO 5.

5. IDENTIFY THE MALFUNCTIONING PARTS WITH "COMPONENT DIAGNOSIS"

Perform the diagnosis with "Component diagnosis" of the applicable system.

>> GO TO 6.

6.REPAIR OR REPLACE THE MALFUNCTIONING PARTS

Repair or replace the specified malfunctioning parts.

>> GO TO 7.

7. FINAL CHECK

Check that malfunctions are not reproduced when obtaining the malfunction information from the customer, referring to the symptom inspection result in step 2.

Are the malfunctions corrected?

YES >> INSPECTION END

NO >> GO TO 4.

INSPECTION AND ADJUSTMENT

< BASIC INSPECTION > INSPECTION AND ADJUSTMENT Α ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL: De-В scription INFOID:0000000004746782 Initial setting is necessary when battery terminal is removed, driver seat control unit or passenger seat control unit is replaced. ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL: Special Repair Requirement INFOID:0000000004746783 D 1.SYSTEM INITIALIZATION Perform system initialization. Refer to SE-9, "SYSTEM INITIALIZATION: Description". Е >> Work end. ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT F ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Description Initial setting is necessary when battery terminal is removed, driver seat control unit or passenger seat control unit is replaced. ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement INFOID:0000000004746785 1.SYSTEM INITIALIZATION Perform system initialization. Refer to SE-9, "SYSTEM INITIALIZATION: Description". SE >> Work end. SYSTEM INITIALIZATION SYSTEM INITIALIZATION: Description INFOID:0000000004746786 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 INFOID:0000000004746787 M INITIALIZATION PROCEDURE **1.** STEP-1 N 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.

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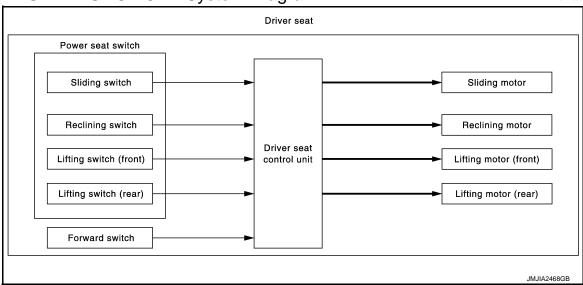
>> Work end.

SYSTEM DESCRIPTION

POWER SEAT FOR DRIVER SIDE POWER SEAT FUNCTION

POWER SEAT FUNCTION: System Diagram

INFOID:0000000004746788



POWER SEAT FUNCTION: System Description

INFOID:0000000004746789

- 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 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 OFF (steering LOCK position).
- 2. When no power seat motors are moving.
- Power walk-in switch OFF.

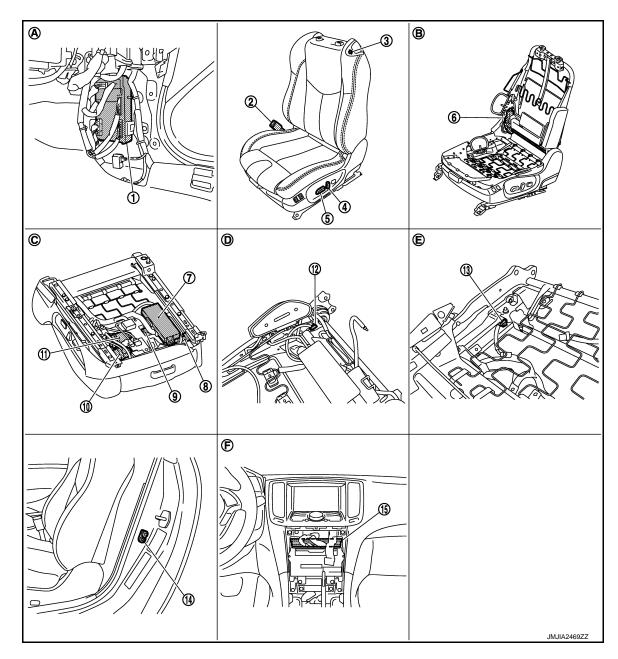
WAKE-UP MODE

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

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

POWER SEAT FUNCTION: Component Parts Location

INFOID:0000000004746790



- BCM M122, M123
- 4. Reclining switch (power seat switch) 5.
- 7. Driver seat control unit B503, B504
- 10. Sliding motor B525
- Sliding limit switch B514 13.
- A. Dash side lower (passenger side)
- D. View with seatback pad removed

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

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

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POWER SEAT FUNCTION: Component Description

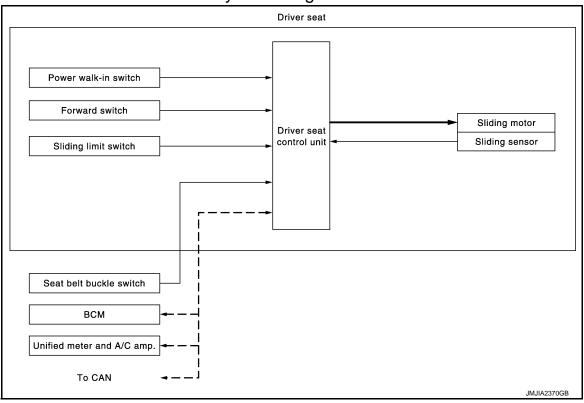
INFOID:0000000004746791

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 control 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

INFOID:0000000004746792



POWER WALK-IN FUNCTION: System Description

INFOID:0000000004746793

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 up 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 by operating the power walk-in switch. If the sliding operation is performed after performing the forward operation, do not perform the backward operation.

POWER SEAT FOR DRIVER SIDE

< 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 performing 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 control 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 walkin 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

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POWER SEAT FOR DRIVER SIDE

< 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 control 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 position 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.
- Ignition switch OFF (steering LOCK position).
- 2. When no power seat motors are moving.
- Power walk-in switch 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.

POWER WALK-IN FUNCTION: Component Parts Location

INFOID:0000000004746794

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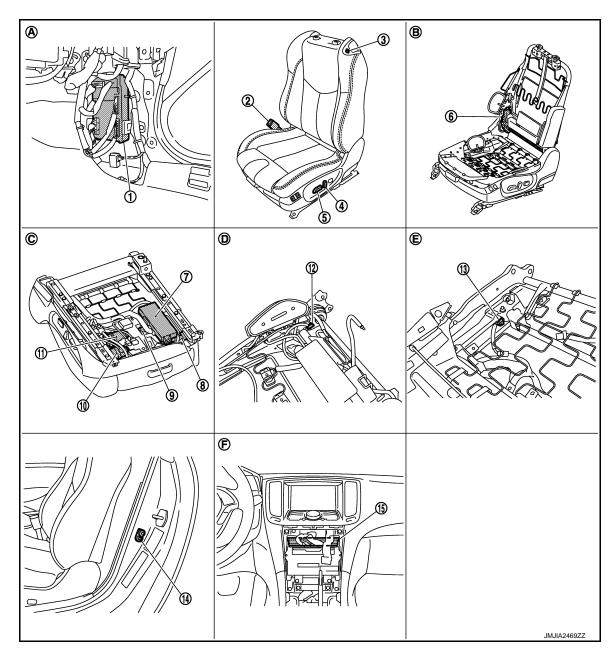
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- 1. BCM M122, M123
- Reclining switch (power seat switch) 5.
- 7. Driver seat control unit B503, B504
- 10. Sliding motor B525
- 13. Sliding limit switch B514
- A. Dash side lower (passenger side)
- D. View with seatback pad removed

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

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

POWER WALK-IN FUNCTION: Component Description

INFOID:0000000004746795

CONTROL UNITS

POWER SEAT FOR DRIVER SIDE

< SYSTEM DESCRIPTION >

Item	Function
Driver seat control unit	Main units of power walk-in function It is connected to the CAN.
BCM	Transmits the following statuses to the driver seat control unit via CAN communication. • 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 communication.

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 forward 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 condition 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.

POWER SEAT FOR PASSENGER SIDE POWER SEAT FUNCTION

POWER SEAT FUNCTION: System Diagram

INFOID:0000000004746796 Passenger seat Sliding switch (seatback) Sliding motor Power seat switch Sliding switch Reclining motor Passenger Reclining switch seat control unit Lifting motor (front) Lifting switch (front) Lifting switch (rear) Lifting motor (rear) Forward switch

POWER SEAT FUNCTION: System Description

INFOID:0000000004746797

 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 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.
- When no power seat motors are moving.
- Power walk-in switch OFF.

WAKE-UP MODE

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

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

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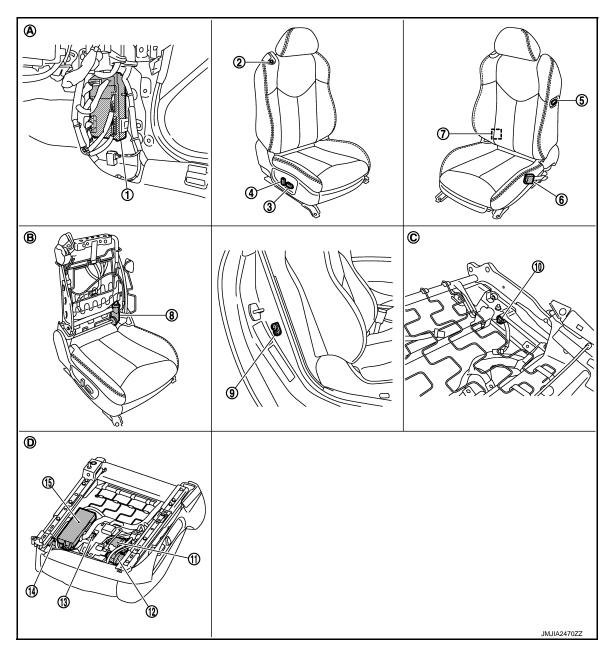
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SE-17 Revision: 2010 March 2009 G37 Convertible

POWER SEAT FUNCTION : Component Parts Location

INFOID:0000000004746798



- 1. BCM M118, M119, M123
- Reclining switch (power seat switch) 5.
- 7. Forward switch B556
- 10. Sliding limit switch B558
- 13. Lifting motor (front) B569
- A. Dash side lower (passenger side)
- D. Back side of seat cushion

- 2. Power walk-in switch B557
- 5. Sliding switch (seatback) B561
- 8. Reclining motor B566
- 11. Lifting motor (rear) B570
- 14. Sliding sensor B568
- B. View with seatback pad removed

- Sliding, lifting switch (power seat switch) B554
- Seat belt buckle switch (passenger side) B213
- 9. Passenger side door switch B216
- 12. Sliding motor B567
- 15. Passenger seat control unit B552, B553
- C. View with seatback pad removed

< SYSTEM DESCRIPTION >

POWER SEAT FUNCTION: Component Description

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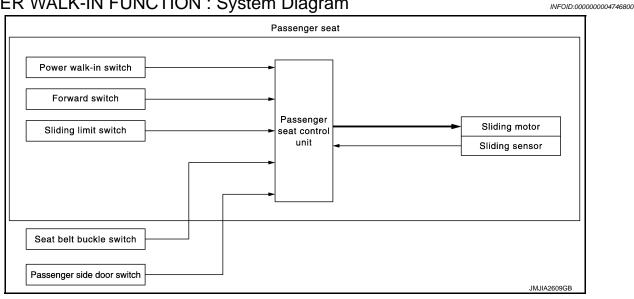
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Item	Function	
BCM	The power received from battery to passenger seat control unit is supplied at all times.	
Passenger seat control unit	Operates each motor with the signal from the power seat switch and sliding switch (seatback).	
Power seat switch	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 control unit.	
Forward switch	Detect folded down or folded up of the seatback.	

POWER WALK-IN FUNCTION

POWER WALK-IN FUNCTION: System Diagram



POWER WALK-IN FUNCTION: System Description

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 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

Forward Operation

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< SYSTEM DESCRIPTION >

- 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 front end position, the maximum 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
Power seat switch (sliding)	Not operated
Seat position (sliding)	Other than front end
Seatback	Folded down

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 performing 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 operated.
3	_	Sliding motor (forward)	Passenger seat control unit operates the seat sliding 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

< 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 operated.
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 operation 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 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.

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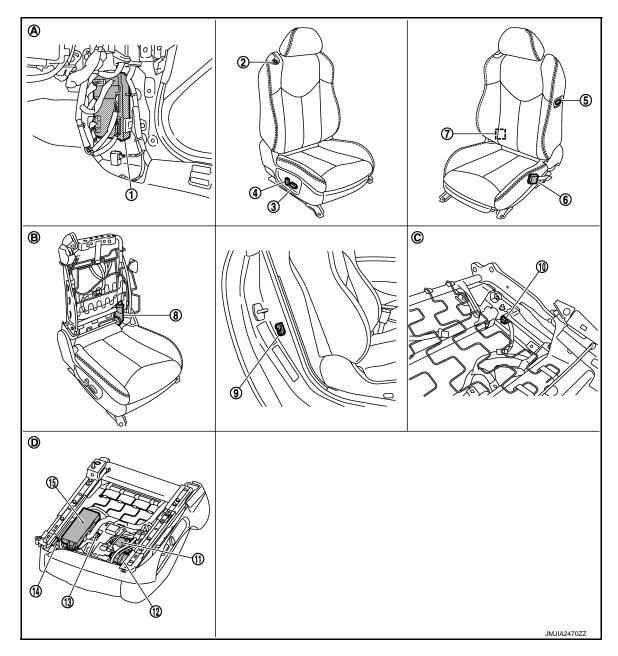
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POWER WALK-IN FUNCTION: Component Parts Location

INFOID:0000000005096251



- 1. BCM M118, M119, M123
- Reclining switch (power seat switch) 5.
- 7. Forward switch B556
- 10. Sliding limit switch B558
- 13. Lifting motor (front) B569
- A. Dash side lower (passenger side)
- D. Back side of seat cushion

- 2. Power walk-in switch B557
- 5. Sliding switch (seatback) B561
- 8. Reclining motor B566
- 11. Lifting motor (rear) B570
- 14. Sliding sensor B568
- B. View with seatback pad removed

- Sliding, lifting switch (power seat switch) B554
- Seat belt buckle switch (passenger side) B213
- 9. Passenger side door switch B216
- 12. Sliding motor B567
- Passenger seat control unit B552, B553
- View with seatback pad removed

POWER WALK-IN FUNCTION: Component Description

INFOID:0000000004746803

CONTROL UNITS

< SYSTEM DESCRIPTION >

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

INPUT PARTS

Switches

Item	Function
Passenger side door switch	Detects front door (passenger side) open/close status.
Power walk-in switch	Performs the power walk-in operation by operating the power walk-in switch.
Sliding limit switch	Detects the front end position of seat sliding during the power walk-in function forward 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 condition 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.

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SIDE SUPPORT UNIT

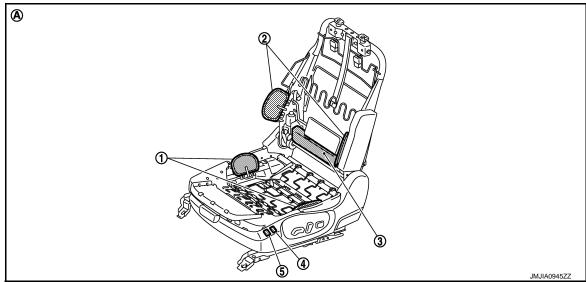
System Description

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- While operating the side support switch, the pump located inside side support unit operates and adjust the 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 side support unit.

Component Parts Location

INFOID:0000000004746805



- Side support (seat cushion) (Side support unit B509)
- 4. Side support switch (seatback side) 5. B508
- A. View with seat cushion pad and seat back pad are removed.
- Side support (seatback) (Side support unit B509)
- 5. Side support switch (cushion side) B508
- 3. Side support unit B509

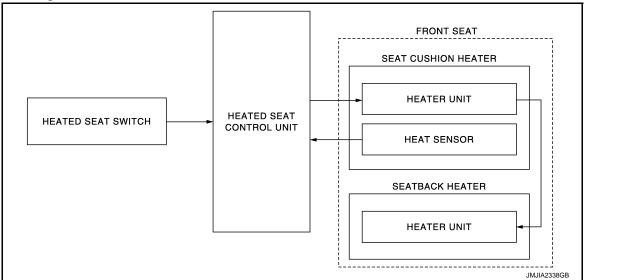
Component Description

INFOID:0000000004746806

Item	Function	
Side support switch	With a built-in cushion side and seatback 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.	

HEATED SEAT

System Diagram



System Description

INFOID:0000000004746808

INFOID:0000000004746807

- 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 seat-back.
- 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.
- Heated seat control unit adjusts temperature preset temperature by supplying or interrupting power supply to heater unit.

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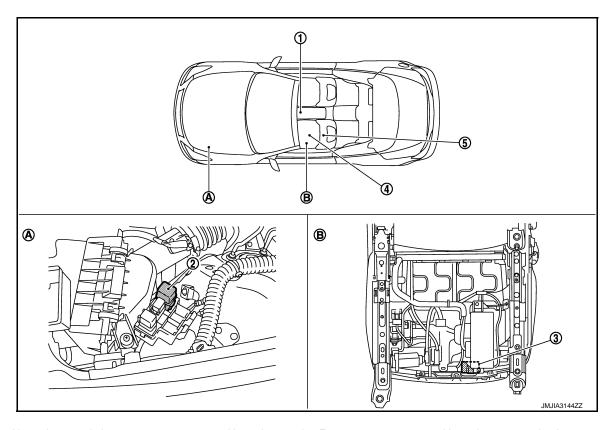
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Component Parts Location

INFOID:0000000004746809



- 1. Heated seat switch
 - · Driver side A/T M141 M/T M175
 - · Passenger side A/T M142 M/T M176
- 4. Seat cushion heater
 - Driver side B517, B541
 - Passenger side B574, B581
- A. Engine room fuse, fusesible link and B. Backside of seat cushion relay box

- Heated seat relay E19
- 5. Seatback heater
 - Driver side B542
 - Passenger side B582

- Heated seat control unit
 - Driver side B518
 - Passenger side B575

Component Description INFOID:0000000004746810

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

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LUMBAR SUPPORT

System Description

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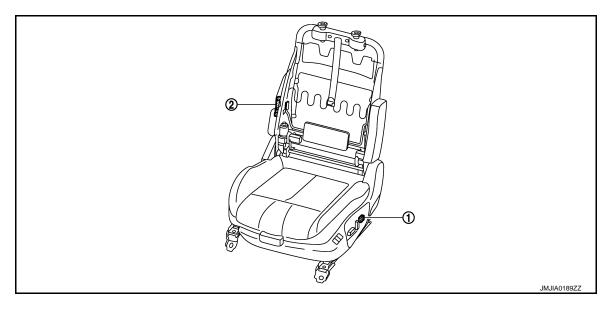
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- Lumbar support can operate regardless of the ignition switch position because battery power is supplied to it at all times.
- While operating the lumbar support switch, lumbar support motor operates which allows forward and backward operation of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

Component Parts Location





1. Lumbar support switch B505

2. Lumbar support motor B506

Component Description

INFOID:0000000004746813

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.

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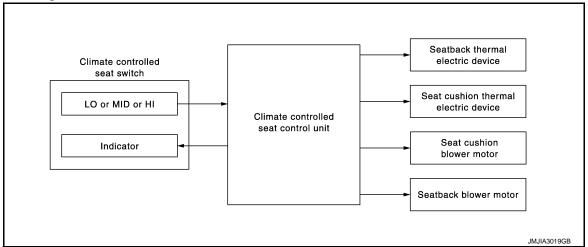
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CLIMATE CONTROLLED SEAT

System Diagram

INFOID:0000000004747447



System Description

INFOID:0000000004747448

- The climate controlled seat system is controlled by the climate controlled seat control unit.
- Operation of the climate controlled switch sends heated or cooled airflow and adjusts the seat temperature.

SEAT CUSHION AND SEATBACK TEMPERATURE ADJUSTMENT FUNCTION

- One thermal electric device (TED) unit is installed in each seat cushion and seatback. The device heats or cools, sends airflow to the seat surface, and adjusts the seat temperature.
- The thermal electric device (TED) is a heat exchanger that has a function to heat or cool the airflow from the seat cushion blower motor and seatback blower motor. (By changing the direction of the current from the power supply, the device takes or gives heat, and adjusts exchange process depending on voltage.

CAUTION:

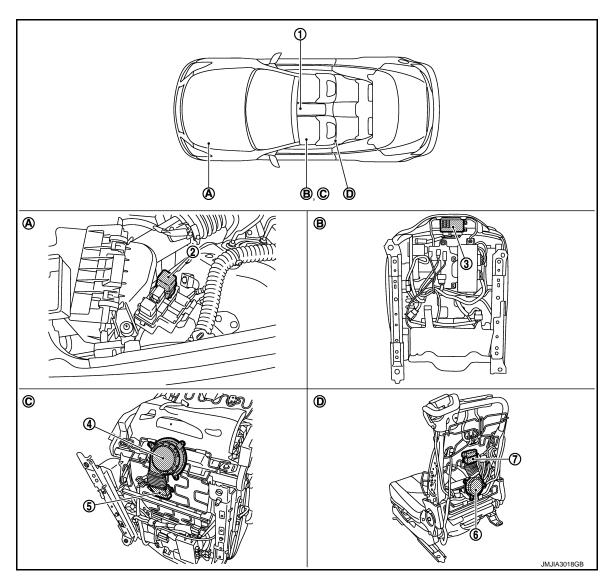
- The thermal electric device has a dual-climate function that allows one side to operate at a high temperature and the other to operate at a low temperature simultaneously.
- Before starting always turn OFF the switch and check that the electric device is cold.

FAIL-SAFE

The fail-safe function is adopted for the climate controlled seat control to SE-186, "Fail-safe".

Component Parts Location

INFOID:0000000004747449



- Climate controlled seat switch (driver side) M177 (passenger side) M178
- 4. Climate controlled seat cushion brower motor (driver side) B605
- 7. Seatback thermal electric device (driver side) B602
- A. Engine room fuse, fusesible link and B. relay box
- D. View with seatback board.

- 2. Climate controlled seat relay E20
 - Seat cushion thermal electric device 6. (driver side) B603
 - Back side of seat cushion.
- Climate controlled seat control unit (driver side) B606,B607,B608
 - Climate controlled seatback brower motor (driver side) B604
- C. View with seat cushion rear finisher.

Component Description

INFOID:0000000004747450

Item	Function		
Climate controlled seat relay	Supplies power to the climate controlled seat control unit in accordance with the key switch position that is ON or OFF		
Climate controlled seat control unit	Installed in the seat cushion backside and controls the climate controlled seat cushion and- back blower motor, seatback thermal electric device, and seat cushion thermal electric de- vice in accordance with the input signal		

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CLIMATE CONTROLLED SEAT

< SYSTEM DESCRIPTION >

Item	Function
Climate controlled seat switch	Installed in the center console and transmits signals to climate controlled seat control unit in accordance with the HEAT (heated airflow) or COOL (cooled airflow) switch operation and the temperature switch operation
Seatback blower motor	Installed in the seatback and sends the airflow to the seatback thermal electric device in accordance with the control from the climate controlled seat control unit
Seat cushion blower motor	Installed in the seat cushion backside and sends the airflow to the seat cushion thermal electric device in accordance with the control from the climate controlled seat control unit
Seatback thermal electric device	Installed in the seatback backside and heats or cools the airflow from the climate controlled seat blower motor in accordance with the control from the climate controlled seat control unit
Seat cushion thermal electric device	Installed in the seat cushion backside and heats or cools the airflow from the climate controlled seat blower motor in accordance with the control from the climate controlled seat control unit

DIAGNOSIS SYSTEM (DRIVER SEAT C/U)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (DRIVER SEAT C/U)

Diagnosis Description

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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 control 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

INFOID:0000000004746815

SELF DIAGNOSTIC RESULTS Refer to <u>SE-155</u>, "DTC Index".

DATA MONITOR

Monitor Item	Unit	Main Signals	Selection 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 (downward) 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 (downward) 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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Revision: 2010 March SE-31 2009 G37 Convertible

DIAGNOSIS SYSTEM (DRIVER SEAT C/U)

< SYSTEM DESCRIPTION >

CTCT_III PLOCKIN TION					
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 (forward) signal.	
TELESCO SW-RR	"ON/OFF"	×	×	ON/OFF status judged from the telescoping switch (backward) signal.	
FORWARD SW*3	"ON/OFF"	×	×	ON/OFF status judged from the forward switch signal.	
WALK-IN SW* ³	"ON/OFF"	×	×	ON/OFF status judged from the power walk-in switch signal.	
FWD LIMIT SW*3	"ON/OFF"	×	×	ON/OFF status judged from the sliding limit switch signal.	
SEAT BELT SW*3	"ON/OFF"	×	×	ON/OFF status judged from the seat belt 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) upward/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.

 $[\]ensuremath{^{*:}}$ Driver seat without automatic driver position system display only "SEAT SLIDE".

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DTC/CIRCUIT DIAGNOSIS

U1000 CAN COMM CIRCUIT

Description INFOID:0000000004746816

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

DTC Logic

DTC DETECTION LOGIC

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

DTC CONFIRMATION PROCEDURE

1.STEP 1

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

>> GO TO 2.

2.STEP 2

Check "Self Diagnostic Result" using CONSULT-III.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to <u>SE-34, "Diagnosis Procedure"</u>.

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000004746818

Refer to LAN-16, "Trouble Diagnosis Flow Chart".

Special Repair Requirement

INFOID:0000000004746819

Refer to SE-9, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement".

B2112 SLIDING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

B2112 SLIDING MOTOR

Description (INFOID:000000004746820

- 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

DTC DETECTION LOGIC

-	DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause		
-	B2112	SEAT SLIDE	The driver seat control unit detects the output of sliding motor output terminal for 0.1 seconds or more even if the sliding switch is not input	Driver seat control unit Slide motor harness is shorted	Е	

DTC CONFIRMATION PROCEDURE

1.STEP 1

- 1. Turn ignition switch ON.
- 2. Check "Self diagnostic result" using CONSULT-III.

Is the DTC detected?

YES >> Refer to <u>SE-35</u>, "<u>Diagnosis Procedure</u>".

NO >> INSPECTION END

Diagnosis Procedure

1. PERFORM DTC CONFIRMATION PROCEDURE

- 1. Turn ignition switch ON.
- Check "Self diagnostic result" using CONSULT-III.
- 3. Erase the DTC.
- Perform DTC confirmation procedure. Refer to <u>SE-35, "DTC Logic"</u>.

Is the DTC displayed again?

YES >> GO TO 2.

NO >> GO TO 4.

2.check sliding motor circuit (power short)

- Turn ignition switch OFF.
- 2. Disconnect sliding motor connector and driver seat control unit connector.
- 3. Check voltage between sliding motor harness connector and ground.

(+)		(-)	Voltage (V) (Approx.)
Sliding motor			
Connector	Terminal		(11 - 7
B525	35	Ground	0
	42		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK DRIVER SEAT CONTROL UNIT OUTPUT SIGNAL

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

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B2112 SLIDING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

(+) Driver seat control unit		(-)	Voltage (V) (Approx.)
Connector	Terminal		(4)
B504	35	Ground	0
	42		

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace driver seat control unit. Refer to <u>SE-248</u>, "Removal and Installation"

4. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

B2113 RECLINING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

B2113 RECLINING MOTOR

Description INFOID:0000000004746823

- The seat reclining motor is installed to the seatback frame.
- 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:0000000004746824

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2113	SEAT RECLINING	The driver seat control unit detects the output of re- clining motor output terminal for 0.1 seconds or more even if the reclining switch is not input.	Driver seat control unit Reclining motor harness is power shorted

DTC CONFIRMATION PROCEDURE

${f 1}$.PEFORM DTC CONFIRMATION PROCEDURE

- Turn ignition switch ON.
- Check "Self diagnostic result" using CONSULT-III.

Is the DTC detected?

>> Refer to SE-37, "Diagnosis Procedure". YES

>> INSPECTION END NO

Diagnosis Procedure

1. PERFORM DTC CONFIRMATION PROCEDURE

- Turn ignition switch ON.
- Check "Self diagnostic result" using CONSULT-III.
- Erase the DTC.
- Perform DTC confirmation procedure. Refer to <a>SE-37, "DTC Logic".

Is the DTC displayed again?

YES >> GO TO 2.

NO >> Check intermittent incident. Refer to GI-36, "Intermittent Incident".

2.CHECK RECLINING MOTOR CIRCUIT (POWER SHORT)

- Turn ignition switch OFF.
- Disconnect reclining motor and driver seat control unit connector. 2.
- Check voltage between reclining motor harness connector and ground.

(+)	(-)	Voltage (V) (Approx.)	
Reclini	ng motor			
Connector	Terminal		(11 -)	
B524	36	Ground	0	
D324	44	Ground	U	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.check driver seat control unit output signal

- 1. Connect driver seat control unit connector.
- 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 Connector Terminal		Voltage (V) (Approx.)
Connector			(44.5)
B504	36	- Ground	0
D304	44		U

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace driver seat control unit. Refer to <u>SE-248</u>, "Removal and Installation".

4. CHECK INTERMITTENT INCIDENT

Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

< DTC/CIRCUIT DIAGNOSIS >

POWER SUPPLY AND GROUND CIRCUIT DRIVER SEAT CONTROL UNIT

INFOID:0000000004746826

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DRIVER SEAT CONTROL UNIT: Diagnosis Procedure

Do not disconnect the battery negative terminal and the driver seat control unit connector until DTC is confirmed using CONSULT-III.

1. CHECK FUSE AND FUSIBLE LINK

Check that the following fuse and fusible link are not fusing.

Terminal No.	Signal name	Fuse and fusible link No.
33	Potton, nower aunnly	I (40 A)
40	Battery power supply	10 (10 A)

Is the inspection result normal?

YES >> GO TO 2.

>> Replace the blown fuse and fusible link after repairing the affected circuit if fuse and fusible link NO are blown.

2.CHECK POWER SUPPLY CIRCUIT

- Turn ignition switch OFF.
- Disconnect driver seat control unit connector.
- Check voltage between driver seat control unit harness connector and ground.

(+)	(–)	Voltage (V) (Approx.)	
Driver seat	control unit			
Connector	Terminal		(, 44, 2,)	
B504	33	Ground	Rattory voltago	
B304	40	Giouna	Battery voltage	

Is the inspection result normal?

YES >> GO TO 3.

NO-1 >> Repair or replace harness.

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

3.CHECK GROUND CIRCUIT

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

Driver sea	at control unit		Continuity
Connector	Terminal	Ground	
B503	32	Giodria	Existed
B504	48		EXISTECT

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair or replace harness.

PASSENGER SEAT CONTROL UNIT

PASSENGER SEAT CONTROL UNIT : Diagnosis Procedure

1. CHECK FUSE AND FUSIBLE LINK

Check that the following fuse is not fusing.

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< 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 1

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

(+) at control unit	(-)	Voltage (V) (Approx.)	
Connector	Terminal			
B553	40	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3. CHECK POWER SUPPLY 2

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

(+) Passenger seat control unit		(–)	Voltage (V) (Approx.)	
Connector Terminal				
B553	33	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 5.

4. 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	Ground	Existed	
B553	48		Existed	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair or replace harness.

CHECK POWER SUPPLY CIRCUIT

- 1. Disconnect BCM connector.
- 2. Check continuity between BCM harness connector and passenger seat control unit harness connector.

Passenger seat control unit		BCM		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B553	33	M118	2	Existed

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

< DTC/CIRCUIT DIAGNOSIS >

Passenger seat control unit	Terminal	Ground	Continuity	
Connector	Temmai			
B553	33		Not existed	

Is the inspection result normal?

YES >> Replace BCM.Refer to @@@.

NO >> Repair or replace harness.

HEATED SEAT CONTROL UNIT

HEATED SEAT CONTROL UNIT : Diagnosis Procedure

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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.

(+)				V I 00
Heated seat control unit			(–)	Voltage (V) (Approx.)
Connector Te		Terminal		(44)
Driver side	B518	60	Ground	Battery voltage
Passenger side	B575	00	Giodila	Dattery Voltage

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 3.

3.CHECK POWER SUPPLY CIRCUIT 1

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

Heated seat control unit		Heated seat relay		Continuity	
Coni	Connector		Connector	Terminal	Continuity
Driver side	B518	B518 60	E19	3	Existed
Passenger side	B575	00	L19	3	LXISIGU

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

Heated seat control unit				Continuity	
Connector		Terminal	Crawad	Continuity	
Driver side	B518	60	- Ground	Not existed	
Passenger side	B575	00		Not existed	

Is the inspection result normal?

< DTC/CIRCUIT DIAGNOSIS >

YES >> Check heat seat relay.Refer to <u>SE-105</u>, "Component Function Check".

NO >> Repair or replace harness.

4.CHECK POWER SUPPLY 2

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

(+) Heated seat control unit		(–)	Condition		Voltage (V) (Approx.)		
Conr	nector	Terminal				(Арргох.)	
Driver side	B518				ON	Battery voltage	
Driver side	B316	66	Ground	Heated seat	OFF	0	
Passenger side B575	- 66	Ground	switch	switch	ON	Battery voltage	
	B5/5				OFF	0	

Is the inspection result normal?

YES >> GO TO 7.

NO >> GO TO 5.

5. CHECK POWER SUPPLY CIRCUIT 2

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

Heated seat control unit		Heated seat switch		Continuity	
Coni	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	'	LXISIEG

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

Heated seat control unit				Continuity	
Connector		Terminal	Ground	Continuity	
Driver side	B518	66	Giouria	Not existed	
Passenger side	B575	00		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-102</u>, "<u>DRIVER SIDE</u>: <u>Component Inspection</u>".
- Passenger side: Refer to <u>SE-104, "PASSENGER SIDE: Component Inspection"</u>.

Is the inspection result normal?

YES >> GO TO 8.

NO >> Replace heated seat switch. Refer to <u>SE-256, "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.

< DTC/CIRCUIT DIAGNOSIS >

Heated seat control unit				Continuity
Connector		Terminal	Terminal Ground	
Driver side	B518	48	Ground	Existed
Passenger side	B575	40		LAISIEU

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair or replace harness.

8. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-36, "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.

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

2.CHECK POWER SUPPLY

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

(+)				V 14 0.0
Heated seat switch			(–)	Voltage (V) (Approx.)
Connector Terminal		Terminal		(11 - 7
Driver side	A/T models: M141 M/T models: M175	5	Ground	Pattory voltage
Passenger side	A/T models: M142 M/T models: M176	5	Ground	Battery voltage

Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 3.

3. CHECK POWER SUPPLY CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect fuse block (J/B) connector.
- 3. Check continuity between heated seat switch harness connector and fuse block (J/B) harness connector.

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< DTC/CIRCUIT DIAGNOSIS >

Heated seat switch		Fuse block (J/B)		Continuity	
Cor	nector	Terminal	Connector	Terminal	Continuity
Driver side	A/T models: M141 M/T models: M175		M1	2A	Existed
Passenger side	A/T models: M142 M/T models: M176	J	IVII	2/1	LXISIGU

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

Heated seat switch				Continuity
Con	nector	Terminal		Continuity
Driver side	A/T models: M141 M/T models: M175	5	Ground	Not existed
Passenger side	A/T models: M142 M/T models: M176	3		INOL EXISIEU

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK FUSE BLOCK (J/B)

- 1. Turn ignition switch ON.
- 2. Check voltage between fuse block (J/B) connector (fuse block side) and ground.

(+)			Voltage (V)	
Fuse bl	Fuse block (J/B)		Voltage (V) (Approx.)	
Connector	Terminal			
M1	2A	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 5.

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

${f 5}$.CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-36, "Intermittent Incident"

>> INSPECTION END

CLIMATE CONTROLLED SEAT CONTROL UNIT

CLIMATE CONTROLLED SEAT CONTROL UNIT: Diagnosis Procedure INFOID.000000004747451

Driver side

1.CHECK FUSE

Check that the following fuse and fusible link are not fusing.

Signal name	Fuse No.
Battery power supply	37(15A)
IGN power supply	3 (10A)

Is the fuse fusing?

YES >> Replace the blown fuse after repairing the affected circuit if a fuse are blown.

NO >> GO TO 2.

2.CHECK CLIMATE CONTROLLED SEAT CONTROL UNIT POWER SUPPLY 1

1. Turn ignition switch OFF.

< DTC/CIRCUIT DIAGNOSIS >

- 2. Disconnect climate controlled seat control unit (driver side) connector.
- Turn ignition switch ON.
- Check voltage between climate controlled seat control unit (driver side) harness connector and ground.

(+)		(-)	Voltage (Approx.)	
Climate controlled seat control unit (driver side)				
Connector	Terminal		(11 - 7	
B606	89	Ground	Battery voltage	
B607	93	Giodila	Battery voltage	

Is the measurement value normal?

YES >> GO TO 3.

NO >> GO TO 4.

3. CHECK GROUND CIRCUIT

Check continuity between climate control unit (driver side) harness connector and ground.

Climate controlled seat control unit (driver side)			Continuity
Connector	Terminal	Ground	Continuity
B606	90		Existed

Does continuity exist?

YES >> INSPECTION END

NO >> Repair or replace harness or connector.

4. CHECK CLIMATE CONTROLLED SEAT CONTROL UNIT POWER SUPPLY CIRCUIT 1

- Turn ignition switch OFF.
- Disconnect climate controlled seat relay.
- Check continuity between climate controlled seat control unit (driver side) harness connector and climate controlled seat relay harness connector.

Climate controlled seat control unit (driver side) Climate controlled seat relay		Continuity		
Connector	Terminal	Connector	Terminal	Continuity
B606	89	E20	6	Existed
B607	93	E20	O O	Existed

4. Check continuity between climate controlled seat control unit (driver side) harness connector and ground.

Climate controlled seat control unit (driver side)			Continuity	
Connector	Terminal	Cround	Continuity	
B606	89	- Ground	Not existed	
B607	93	-	Not existed	

Is the measurement value normal?

YES >> GO TO 5.

NO >> Repair or replace harness or connector.

5. CHECK CILMATE CONTROLLED SEAT RELAY POWER SUPPLY CIRCUIT 2

- 1. Turn ignition switch ON.
- 2. Check voltage between climate controlled seat relay harness connector and ground.

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Terminals			Voltage
(+) (-)			
Climate controlled seat relay			(Approx.)
Connector	Terminal	Crownd	
F20	2	- Ground	Dottomi valtore
E20	7		Battery voltage

Is the measurement value normal?

YES >> GO TO 6.

NO >> Repair or replace harness or connector.

6.CHECK CLIMATE CONTROLLED SEAT RELAY

Check climate controlled seat relay.

Refer to SE-48, "CLIMATE CONTROLLED SEAT CONTROL UNIT: Component Inspection"

Is the inspection result normal?

YES >> GO TO 7.

NO >> Replace climate controlled seat relay.

7.CHECK CLIMATE CONTROLLED SEAT RELAY GROUND CIRCUIT

Check continuity between climate controlled seat relay harness connector and ground.

Climate controlled seat relay			Continuity
Connector	Terminal	Ground	Continuity
E20	1		Existed

Does continuity exist?

YES >> GO TO 8.

NO >> Repair or replace harness.

8.CHECK INTERMITTENT INCIDENT

Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

Passenger side

1.CHECK FUSE

Check that the following fuses are not fusing.

Signal name	Fuse No.
Battery power supply	35 (15A)
IGN power supply	3 (10A)

Is the fuse fusing?

YES >> Replace the blown fuse after repairing the affected circuit if a fuse is blown.

NO >> GO TO 2.

2.CHECK CLIMATE CONTROLLED SEAT CONTROL UNIT POWER SUPPLY

- 1. Turn ignition switch OFF.
- 2. Disconnect climate controlled seat control unit (passenger side) connector.
- 3. Turn ignition switch ON.
- Check voltage between climate controlled seat control unit (passenger side) harness connector and ground.

< DTC/CIRCUIT DIAGNOSIS >

(+) Climate controlled seat control unit (passenger side)		(-)	Voltage
Connector	Terminal	(-)	(Approx.)
B626	89	Ground	Rattory voltago
B627	93	Ground	Battery voltage

Is the measurement value normal?

YES >> GO TO 3. NO >> GO TO 4.

3. CHECK GROUND CIRCUIT

Check continuity between harness connector and ground.

Climate controlled seat co	Climate controlled seat control unit (passenger side)		Continuity
Connector	Terminal	Ground	Continuity
B626	90		Existed

Does continuity exist?

YES >> INSPECTION END

NO >> Repair harness or connector.

4. CHECK CLIMATE CONTROLLED SEAT CONTROL UNIT POWER SUPPLY CIRCUIT 1

- Turn ignition switch OFF.
- 2. Disconnect climate controlled seat relay.
- Check continuity between climate controlled seat control unit (passenger side) harness connector and climate controlled seat relay harness connector.

	control unit (passenger de)	Climate controlled seat relay		Continuity
Connector	Terminal	Connector	Terminal	
B626	89	E20	3	Existed
B627	93	L20	3	LXISIGU

4. Check continuity between climate controlled seat control unit (driver side) harness connector and ground.

Climate controlled seat	control unit (driver side)	Continuity	
Connector	Terminal	Ground	Continuity
B626	89	Ground	Not existed
B627	93		INOL GXISLEU

Is the measurement value normal?

YES >> GO TO 5.

NO >> Repair or replace harness or connector.

5. CHECK CILMATE CONTROLLED SEAT RELAY POWER SUPPLY CIRCUIT

- Turn ignition switch ON.
- Check voltage between climate controlled seat relay harness connector and ground.

Terminals			
(+)	(-)	Voltage (Approx.)
Climate control	Climate controlled seat relay		(Approx.)
Connector	Terminal	Ground	
E20	2		Pottory voltage
E20 =	5		Battery voltage

Is the measurement value normal?

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YES >> GO TO 6.

NO >> Repair or replace harness or connector.

6.CHECK CLIMATE CONTROLLED SEAT RELAY

Check climate controlled seat relay.

Refer to SE-48, "CLIMATE CONTROLLED SEAT CONTROL UNIT: Component Inspection"

Is the inspection result normal?

YES >> GO TO 7.

NO >> Replace climate controlled seat relay.

7.CHECK CLIMATE CONTROLLED SEAT RELAY GROUND CIRCUIT

Check continuity between climate controlled seat relay harness connector and ground.

Climate controlled seat relay			Continuity
Connector	Terminal	Ground	Continuity
E20	1		Existed

Does continuity exist?

YES >> GO TO 8.

NO >> Repair or replace harness.

8.CHECK INTERMITTENT INCIDENT

Refer to GI-36, "Intermittent Incident".

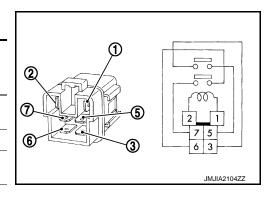
>> INSPECTION END

CLIMATE CONTROLLED SEAT CONTROL UNIT: Component Inspection INFOID-000000004747452

1. CHECK CLIMATE CONTROLLED SEAT RELAY

- 1. Turn ignition switch OFF.
- 2. Disconnect climate controlled seat relay.
- 3. Check climate controlled seat relay.

	Climate controlled seat relay Terminal		Condition	Continuity
	3	5	12 V direct current supply between terminals 1 and 2.	Existed
			No current supply	Not existed
	6	7	12 V direct current supply between terminals 1 and 2.	Existed
			No current supply	Not existed



Is the inspection result normal?

YES >> INSPECTION END.

NO >> Replace climate controlled seat relay.

< DTC/CIRCUIT DIAGNOSIS >

SLIDING SWITCH

DRIVER SIDE

DRIVER SIDE : Description

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- Sliding 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 sliding switch is operated.

DRIVER SIDE : Component Function Check

INFOID:0000000004746831

1. CHECK FUNCTION

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

Monitor item	Condition		Status
SLIDE SW-FR	Sliding switch (forward)	Operate	ON
		Release	OFF
SLIDE SW-RR	Sliding switch (backward)	Operate	ON
		Release	OFF

Is the indication normal?

YES >> Sliding switch function is OK.

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

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000004746832

1. CHECK SLIDING SWITCH SIGNAL

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

(+) Power seat switch			N 14 0 0	
		(–)	Voltage (V) (Approx.)	
Connector	Terminal			
B511	11	Ground	Rattory voltago	
ВЭТТ	26	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK SLIDING SWITCH CIRCUIT

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

Driver seat	control unit	Power seat switch		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B503	11	B511	11	Existed
D 303	26	5311	26	LAISIEU

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

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Driver se	Driver seat control unit		Continuity	
Connector	Terminal	Ground	Continuity	
B503	11		Not existed	
D303	26		INOL EXISTED	

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>SE-248</u>, "Removal and Installation".

NO >> Repair or replace harness.

3.CHECK SLIDING SWITCH

Check sliding switch.

Refer to SE-50, "DRIVER SIDE: Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace power seat switch. Refer to <u>SE-252, "Removal and Installation"</u>.

4. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

DRIVER SIDE : Component Inspection

INFOID:0000000004746833

1. CHECK SLIDING SWITCH

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

Power seat switch		Condition		Continuity
Terminal				
	11	- Sliding switch	Backward	Existed
32	11		Other than above	Not existed
32	26		Forward	Existed
	20		Other than above	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power seat switch. Refer to SE-252, "Removal and Installation".

PASSENGER SIDE

PASSENGER SIDE: Description

INFOID:0000000004746834

- 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

INFOID:0000000004746835

1. CHECK FUNCTION

Check seat sliding operation with sliding switch.

Is the indication normal?

YES >> Sliding switch function is OK.

NO >> Refer to SE-51, "PASSENGER SIDE : Diagnosis Procedure".

< DTC/CIRCUIT DIAGNOSIS >

PASSENGER SIDE : Diagnosis Procedure

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1. CHECK SLIDING SWITCH SIGNAL

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

	(+) Passenger seat control unit		Con	Condition	
Connector	Terminal				(Approx.)
	11	Ground	Sliding switch	Backward	0
B552				Other than above	Battery voltage
B332	26			Forward	0
	20			Other than above	Battery voltage

Is the inspection result normal?

>> Sliding switch circuit is OK.

NO >> GO TŎ 2.

2.check sliding switch input signal

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

(+) Power seat switch		(–)	Voltage (V) (Approx.)	
Connector	Terminal		(·	
B554	22	Ground	Rattony voltago	
D334	23	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 3.

3.check sliding switch circuit

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

Sliding swi	tch (seatback)	Power seat switch Connector Terminal		Continuity
Connector	Terminal			Continuity
B561	22	B554	22	Existed
D30 I	23	D004	23	Existed

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

Sliding swite	Sliding switch (seatback)		Continuity
Connector	Terminal	Ground	Continuity
B561	22		Not existed
B301	23		Not existed

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

4. CHECK SLIDING SWITCH

Check sliding switch.

Refer to SE-52, "PASSENGER SIDE: Component Inspection".

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< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace power seat switch. Refer to <u>SE-252, "Removal and Installation"</u>.

CHECK SLIDING SWITCH (SEATBACK)

Check sliding switch (seatback).

Refer to SE-54, "SEATBACK: Component Inspection".

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace sliding switch (seatback). Refer to <a>SE-223, <a>"Exploded View".

6.check intermittent incident

Check intermittent incident.

Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:0000000004746837

1. CHECK SLIDING SWITCH

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

Power se	eat switch	Con	dition	Continuity
Terr	minal	Condition		Continuity
	22	22	Forward	Existed
32		Sliding switch	Other than above	Not existed
32	23	Silding Switch	Backward	Existed
			Other than above	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power seat switch. Refer to <u>SE-252, "Removal and Installation"</u>.

SEATBACK

SEATBACK: Description

INFOID:0000000004746838

- 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

INFOID:0000000004746839

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 SE-52, "SEATBACK : Diagnosis Procedure".

SEATBACK: Diagnosis Procedure

INFOID:0000000004746840

1. CHECK SLIDING SWITCH (SEATBACK) SIGNAL

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

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(+) Passenger seat control unit		(-)		Condition	
Connector	Terminal				(Approx.)
	44		Sliding switch	Backward	0
DEE0	11			Other than above	Battery voltage
B552	200	Ground		Forward	0
	26			Other than above	Battery voltage

Is the inspection result normal?

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

NO >> GO TO 2.

2.check sliding switch (seatback) circuit

1. Disconnect passenger seat control unit connector and sliding switch (seatback) connector.

Check continuity between passenger seat control unit harness connector and sliding switch (seatback) harness connector.

Passenger se	eat control unit	Sliding switch (seatback)				Continuity
Connector	Terminal	Connector	Terminal	Continuity		
B552	11	B561	11	Existed		
B332	26	B301	26	Existed		

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

Passenger se	seat control unit Continuity		Continuity
Connector	Terminal	Ground	Continuity
B552	11	Giouria	Not existed
D002	26		INOL EXISTED

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

${f 3.}$ check sliding switch (seatback) ground circuit

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

Sliding switch (seatback)			Continuity
Connector	Terminal	Ground	Continuity
B561	32		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK SLIDING SWITCH (SEATBACK)

Check sliding switch (seatback).

Refer to SE-54, "SEATBACK: Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace sliding switch (seatback). Refer to <u>SE-223, "Exploded View"</u>.

5.CHECK PASSENGER SEAT CONTROL UNIT OUTPUT SIGNAL

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

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	+) eat control unit	(-)	Voltage (V) (Approx.)	
Connector	Terminal	. ,		
B552	11	Ground	Battery voltage	
D332	26	Giodila	Dattery voltage	

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace passenger seat control unit. Refer to <u>SE-249</u>, "Removal and Installation".

6. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

SEATBACK: Component Inspection

INFOID:0000000004746841

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)	Co	Condition	
Terr	minal			•
	11		Backward	Existed
32	11		Other than above	Not existed
32	26		Forward	Existed
			Other than above	Not existed
11	23	- Sliding switch (seatback)	Backward	Not existed
11	23		Other than above	Existed
26	26 22		Forward	Not existed
20			Other than above	Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace sliding switch (seatback). Refer to <u>SE-223, "Exploded View"</u>.

< DTC/CIRCUIT DIAGNOSIS >

RECLINING SWITCH

DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000004746842

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- 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

INFOID:0000000004746843

1. CHECK FUNCTION

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

Monitor item	Condition		Status
RECLINE SW-FR	Reclining switch (forward)	Operate	ON
RECLINE SW-FR		Release	OFF
RECLINE SW-RR	Reclining switch (backward)	Operate	ON
RECLINE 3W-RR		Release	OFF

Is the indication normal?

YES >> Reclining switch function is OK.

NO >> Refer to <u>SE-55</u>, "<u>DRIVER SIDE</u>: <u>Diagnosis Procedure</u>".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000004746844

1. CHECK RECLINING SWITCH SIGNAL

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

	(+)		V. 16 0.0	
Power s	ver seat switch (-)		Voltage (V) (Approx.)	
Connector	Terminal		(11)	
B511	12	Ground	Battery voltage	
וונם	27	Giodila	Dattery Voltage	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK RECLINING SWITCH CIRCUIT

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

Driver seat	control unit	Power seat switch		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B503	12	B511	12	Existed
	27	5311	27	LAISIGU

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

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Driver se	at control unit		Continuity	
Connector	Terminal	Ground		Continuity
B503	12	Ground	Not existed	
D303	27		INUL EXISTED	

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>SE-248</u>, "Removal and Installation".

NO >> Repair or replace harness.

3. CHECK RECLINING SWITCH

Check reclining switch.

Refer to SE-56, "DRIVER SIDE: Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace power seat switch. Refer to <u>SE-252, "Removal and Installation"</u>.

4. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

DRIVER SIDE : Component Inspection

INFOID:0000000004746845

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	Terminal			
	12		Backward	Existed
32		Reclining switch	Other than above	Not existed
32	27		Forward	Existed
			Other than above	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power seat switch. Refer to SE-252, "Removal and Installation".

PASSENGER SIDE

PASSENGER SIDE: Description

INFOID:0000000004746846

- 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

INFOID:0000000004746847

1. CHECK FUNCTION

Check seat reclining operation with reclining switch.

Is the indication normal?

YES >> Reclining switch function is OK.

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

< DTC/CIRCUIT DIAGNOSIS >

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000004746848

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1. CHECK RECLINING SWITCH SIGNAL

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

	(+) Passenger seat control unit		Condition		Voltage (V) (Approx.)
Connector	Terminal				(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	12	Ground	Reclining switch	Backward	0
B552				Other than above	Battery voltage
B332	27	Ground		Forward	0
	27			Other than above	Battery voltage

Is the inspection result normal?

>> Reclining switch circuit is OK.

NO >> GO TO 2.

2.CHECK RECLINING SWITCH CIRCUIT

- Disconnect passenger seat control unit connector and power seat switch connector.
- 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
P552	12	B554	12	Existed
D332	B552 27		27	Existed

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

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.check reclining switch

Check reclining switch.

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

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace power seat switch. Refer to <u>SE-252, "Removal and Installation"</u>.

f 4.CHECK PASSENGER SEAT CONTROL UNIT OUTPUT SIGNAL

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

(+) Passenger seat control unit			Voltono (V)	
		(–)	Voltage (V) (Approx.)	
Connector	Terminal			
B552	12	Ground	Battery voltage	
D332	27	Ground	Dattery Voltage	

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Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace passenger seat control unit. Refer to <u>SE-249</u>, "Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

PASSENGER SIDE: Component Inspection

INFOID:0000000004746849

1. CHECK RECLINING SWITCH

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

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power seat switch. Refer to <u>SE-252, "Removal and Installation"</u>.

< DTC/CIRCUIT DIAGNOSIS >

LIFTING SWITCH (FRONT)

DRIVER SIDE

DRIVER SIDE: Description

INFOID:0000000004746850

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- Lifting switch (front) 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 lifting switch (front) is operated.

DRIVER SIDE : Component Function Check

INFOID:0000000004746851

1. CHECK FUNCTION

- 1. Turn ignition switch ON.
- 2. Select "LIFT FR SW-UP", "LIFT FR SW-DN" in the "Data monitor" mode using CONSULT-III.
- 3. Check lifting switch (front) signal under the following conditions.

Monitor item	Condition		Status
LIFT FR SW-UP	Lifting switch front (up)	Operate	ON
	Litting Switch from (up)	Release	OFF
LIFT FR SW-DN	Lifting switch front (down)	Operate	ON
	Litting Switch Horit (down)	Release	OFF

Is the indication normal?

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

NO >> Refer to <u>SE-59</u>, "<u>DRIVER SIDE</u>: <u>Diagnosis Procedure</u>".

DRIVER SIDE: Diagnosis Procedure

INFOID:0000000004746852

1. CHECK LIFTING SWITCH (FRONT) SIGNAL

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

	+) eat switch	(-)	Voltage (V) (Approx.)	
Connector	Terminal			
B511	13	Ground	Battery voltage	
D011	28	Ground	Dattery Voltage	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.check lifting switch (front) circuit

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

Driver seat control unit		Power seat switch		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
B503	13	B511	13	Existed	
	28	5311	28	LAISIGU	

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

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Driver se	at control unit		Continuity
Connector	Terminal	- Ground	Continuity
B503	13	Giouna	Not existed
D303	28		INOL EXISTED

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>SE-248</u>, "Removal and Installation".

NO >> Repair or replace harness.

3.CHECK LIFTING SWITCH (FRONT)

Check lifting switch (front).

Refer to SE-60, "DRIVER SIDE: Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace power seat switch. Refer to <u>SE-252, "Removal and Installation"</u>.

4. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

DRIVER SIDE : Component Inspection

INFOID:0000000004746853

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power seat switch. Refer to SE-252, "Removal and Installation".

PASSENGER SIDE

PASSENGER SIDE: Description

INFOID:0000000004746854

- 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

INFOID:0000000004746855

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 SE-61, "PASSENGER SIDE : Diagnosis Procedure".

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PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000004746856

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1. CHECK LIFTING SWITCH (FRONT) SIGNAL

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

	(+) Passenger seat control unit		(–) Cond		Voltage (V) (Approx.)
Connector	Terminal				(* 155.5/)
	13	Ground	Lifting switch (front)	Down	0
B552	13			Other than above	Battery voltage
D332	20			UP	0
	28			Other than above	Battery voltage

Is the inspection result normal?

>> Lifting switch (front) circuit is OK.

NO >> GO TO 2.

2.check lifting switch (front) circuit

- Disconnect passenger seat control unit connector and power seat switch connector.
- 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	13	B554	13	Existed
B332	28	6554	28	Existed

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

Passenger seat control unit			Continuity
Connector	Connector Terminal		Continuity
B552	13	Ground	Not existed
D332	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-62, "PASSENGER SIDE: Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

>> Replace power seat switch. Refer to <u>SE-252, "Removal and Installation"</u>. NO

f 4.CHECK PASSENGER SEAT CONTROL UNIT OUTPUT SIGNAL

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

(+)			V-14 (1)	
Passenger seat control unit		(–)	Voltage (V) (Approx.)	
Connector	Terminal		,	
B552	13	Ground	Battery voltage	
D332	28	Ground	Dattery Voltage	

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Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace passenger seat control unit. Refer to <u>SE-249</u>, "Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

PASSENGER SIDE: Component Inspection

INFOID:0000000004746857

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power seat switch. Refer to <u>SE-252, "Removal and Installation"</u>.

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LIFTING SWITCH (REAR)

DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000004746858

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- Lifting switch (rear) 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 lifting switch (rear) is operated.

DRIVER SIDE : Component Function Check

INFOID:0000000004746859

1. CHECK FUNCTION

- 1. Turn ignition switch ON.
- 2. Select "LIFT RR SW-UP", "LIFT RR SW-DN" in the "Data monitor" mode using CONSULT-III.
- 3. Check lifting switch (rear) signal under the following conditions.

Monitor item	Condition		Status
LIFT RR SW-UP	Lifting switch rear (up)	Operate	ON
		Release	OFF
LIFT RR SW-DN	Lifting switch rear (down)	Operate	ON
	Litting Switch real (down)	Release	OFF

Is the indication normal?

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

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

DRIVER SIDE: Diagnosis Procedure

INFOID:0000000004746860

1. CHECK LIFTING SWITCH (REAR) SIGNAL

1. Turn ignition switch OFF.

- Disconnect power seat switch connector.
- Check voltage between power seat switch harness connector and ground.

(+))	
Power seat switch		(–)	Voltage (V) (Approx.)	
Connector	Terminal		(+ + +)	
B511	14	Ground	Battery voltage	
D311	29	Giodila	Dattery Voltage	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.check lifting switch (rear) circuit

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

Driver seat	control unit	Power sear switch		Continuity	
Connector	Terminal	Connector Terminal		Continuity	
B503	14	B511	14	Existed	
	29	B311	29	LXISTEG	

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

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Driver se	Driver seat control unit		Continuity
Connector	Terminal	Ground	Continuity
B503	14	Giodila	Not existed
D303	29		Not existed

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>SE-248</u>, "Removal and Installation".

NO >> Repair or replace harness.

3.CHECK LIFTING SWITCH (REAR)

Check lifting switch (rear).

Refer to SE-64, "DRIVER SIDE: Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace power seat switch. Refer to <u>SE-252</u>, "Removal and Installation".

4. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

DRIVER SIDE : Component Inspection

INFOID:0000000004746861

1. CHECK LIFTING SWITCH (REAR)

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

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power seat switch. Refer to SE-252, "Removal and Installation".

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000004746862

- 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

INFOID:0000000004746863

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 SE-65, "PASSENGER SIDE : Diagnosis Procedure".

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PASSENGER SIDE : Diagnosis Procedure

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1. CHECK LIFTING SWITCH (REAR) SIGNAL

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

(+) Passenger seat control unit		(–) Con		dition	Voltage (V) (Approx.)
Connector	Terminal				(Approx.)
	14	Ground	Lifting quitch (front)	Down	0
B552				Other than above	Battery voltage
B332 -	20		Ground	Lifting switch (front)	Up
	29			Other than above	Battery voltage

Is the inspection result normal?

>> Lifting switch (front) circuit is OK.

NO >> GO TO 2.

2.check lifting switch (rear) circuit

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

Passenger se	eat control unit	Power se	Power sear switch	
Connector	Terminal	Connector	Terminal	Continuity
B552	14	B554	14	Existed
B332	29		29	Existed

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

Passenger seat control unit			Continuity
Connector	Terminal	Ground	Continuity
B552	14	Giodila	Not existed
D332	29		NOT EXISTED

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK LIFTING SWITCH (REAR)

Check lifting switch (rear).

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

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace power seat switch. Refer to <u>SE-252, "Removal and Installation"</u>.

f 4.CHECK PASSENGER SEAT CONTROL UNIT OUTPUT SIGNAL

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

(+)			Voltage (V) (Approx.)	
Passenger seat control unit		(–)		
Connector	Terminal		(11 /	
B552	14	Ground	Battery voltage	
B332	29	Ground	Battery Voltage	

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Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace passenger seat control unit. Refer to <u>SE-249</u>, "Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

PASSENGER SIDE: Component Inspection

INFOID:0000000004746865

1. CHECK LIFTING SWITCH (REAR)

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

Power seat switch Terminal		Condition		Continuity
32 29	Other than above	Not existed		
	00	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-252, "Removal and Installation"</u>.

POWER SEAT SWITCH GROUND CIRCUIT

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POWER SEAT SWITCH GROUND CIRCUIT

DRIVER SIDE

DRIVER SIDE : Diagnosis Procedure

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- 1. CHECK POWER SEAT SWITCH GROUND CIRCUIT
- 1. Turn ignition switch OFF.
- 2. Disconnect power seat switch connector.
- 3. Check continuity between power seat switch connector and ground.

Power seat switch			Continuity
Connector Terminal		Ground	Continuity
B511	32		Existed

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

2.CHECK POWER SEAT SWITCH INTERNAL CIRCUIT

Check lifting switch (rear).

Refer to SE-64, "DRIVER SIDE: Component Inspection".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace power seat switch. Refer to <u>SE-252, "Removal and Installation"</u>.

3. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

PASSENGER SIDE

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000004746867

1. CHECK POWER SEAT SWITCH GROUND CIRCUIT

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

Power seat switch			Continuity	
Connector Terminal		Ground	Continuity	
B554	32		Existed	

Is the inspection result normal?

YES-1:When power seat switch does not operate any components.>>GO TO 2.

YES-2:When all power seat components do not operate.>>GO TO 3.

NO >> Repair or replace harness.

2.check power seat switch internal circuit

Check sliding switch.

Refer to SE-52, "PASSENGER SIDE: Component Inspection".

Is the inspection result normal?

YES >> GO TO 3.

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NO >> Replace power seat switch. Refer to <u>SE-252, "Removal and Installation"</u>.

3.CHECK INTERMITTENT INCIDENT

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SE-67

POWER SEAT SWITCH GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

Check intermittent incident.
Refer to <u>GI-36, "Intermittent Incident"</u>.

>> INSPECTION END

< DTC/CIRCUIT DIAGNOSIS >

FORWARD SWITCH

DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000004746868

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- Forward switch is installed on the seatback frame.
- Forward switch detects condition of seatback.

DRIVER SIDE: Component Function Check

INFOID:0000000004746869

1. CHECK FUNCTION

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

Test item	Condition		Status
FORWARD SW	Driver side seatback	Folded up	ON
I OKWARD 3W	Driver side searback	Folded down	OFF

Is the indication normal?

YES >> Forward switch function is OK.

>> Refer to SE-69, "DRIVER SIDE: Diagnosis Procedure". NO

DRIVER SIDE: Diagnosis Procedure

INFOID:0000000004746870

$oldsymbol{1}$.CHECK FORWARD SWITCH INPUT SIGNAL

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

	rd switch	(–)	Condition	Voltage (V) (Approx.)
Connector	Terminal			(* .pp. 5)
B512	41	Ground	Not in the sleep mode	5

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK FORWARD SWITCH CIRCUIT

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

Driver seat control unit		Forward switch		Continuity
Connector	Terminal	Connector Terminal		Continuity
B504	41	B512	41	Existed

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

Driver sea	t control unit		Continuity
Connector	Connector Terminal		Continuity
B504	41		Not existed

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to SE-248, "Removal and Installation"

NO >> Repair or replace harness.

SE-69 Revision: 2010 March 2009 G37 Convertible

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< DTC/CIRCUIT DIAGNOSIS >

3.check forward switch ground circuit

Check continuity between forward switch harness connector and ground.

Forward switch			Continuity	
Connector Terminal		Ground	Continuity	
B512	32		Existed	

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK FORWARD SWITCH

Check forward switch.

Refer to SE-70, "DRIVER SIDE: Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace forward switch. Refer to <u>SE-223, "Exploded View"</u>.

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

DRIVER SIDE: Component Inspection

INFOID:0000000004746871

1. CHECK FORWARD SWITCH

- 1. Turn ignition switch OFF.
- Disconnect forward switch connector.
- 3. Check continuity between forward switch terminals.

Forward switch		Condition		Continuity
Terminal				
41 32	Driver side seatback	Folded up	Not existed	
41	32	Driver side seatback	Folded down	Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace forward switch. Refer to <u>SE-223, "Exploded View"</u>.

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000004746872

- Forward switch is installed on seatback frame.
- Forward switch detects condition of seatback.

PASSENGER SIDE: Component Function Check

INFOID:0000000004746873

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-71</u>, "<u>PASSENGER SIDE</u>: <u>Diagnosis Procedure</u>".

Revision: 2010 March SE-70 2009 G37 Convertible

< DTC/CIRCUIT DIAGNOSIS >

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000004746874

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1. CHECK FORWARD SWITCH INPUT SIGNAL

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

	(+) Passenger seat control unit		Condition	Voltage (V) (Approx.)
Connector	Terminal			(/ (pprox.)
B553	41	Ground	Seatback is folded up and not in the sleep mode	5
			Other than above	0

Is the inspection result normal?

YES >> Forward switch circuit is OK.

NO >> GO TO 2.

2.CHECK FORWARD SWITCH CIRCUIT

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

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

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

Passenger seat control unit			Continuity	
Connector	Connector Terminal		Continuity	
B553	41		Not existed	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.FORWARD SWITCH GROUND CIRCUIT

Check continuity between forward switch harness connector and ground.

Forward switch			Continuity	
Connector	Connector Terminal		Continuity	
B556	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-72, "PASSENGER SIDE: Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace forward switch. Refer to <u>SE-223, "Exploded View"</u>.

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

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

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(+)		(-)		Voltage (V) (Approx.)	
Passenger seat control unit			Condition		
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-249</u>, "Removal and Installation".

6. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

PASSENGER SIDE: Component Inspection

INFOID:0000000004746875

1. CHECK FORWARD SWITCH

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

Forward switch		Condition		Continuity
Terminal				
32	41	Passenger side seatback	Folded up	Not existed
			Folded down	Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace forward switch. Refer to <u>SE-223, "Exploded View"</u>.

< DTC/CIRCUIT DIAGNOSIS >

SEAT BELT BUCKLE SWITCH

DRIVER SIDE

DRIVER SIDE: Description

INFOID:0000000004746876

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- 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:0000000004746877

1. CHECK FUNCTION

- Turn ignition switch ON.
- Select "SEAT BELT SW" in the "Data Monitor" mode using CONSULT-III.
- Check the forward switch signal under the following condition.

Test item	Condition		Status
SEAT BELT SW	Driver side seat belt	Fastened	ON
SEAT BEET SW	Driver side seat beit	Released	OFF

Is the indication normal?

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

NO >> Refer to SE-73, "DRIVER SIDE: Diagnosis Procedure".

DRIVER SIDE: Diagnosis Procedure

INFOID:0000000004746878

1. CHECK SEAT BELT BUCKLE SWITCH (DRIVER SIDE) INPUT SIGNAL

- 1. Turn ignition switch OFF.
- Disconnect seat belt buckle switch (driver side) connector.
- Check voltage between seat belt buckle switch (driver side) harness connector and ground.

Seat belt buckle s	(+) Seat belt buckle switch (driver side)		Condition	Voltage (V) (Approx.)
Connector	Terminal			(
B13	1	Ground	Not in the sleep mode	5

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.check seat belt buckle switch (driver side) circuit

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

Driver seat control unit		Seat belt buckle switch (driver side)		Continuity
Connector	Terminal	Connector Terminal		Continuity
B503	5	B13	1	Existed

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

Driver seat control unit			Continuity	
Connector Terminal		Ground	Continuity	
B503	5		Not existed	

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to SE-248, "Removal and Installation".

NO >> Repair or replace harness.

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< 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 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-74, "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-223, "Exploded View"</u>.

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

DRIVER SIDE: Component Inspection

INFOID:0000000004746879

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 switch (driver side)		Condition		Continuity
Terminal				Continuity
1	4 2	Driver side seat belt	Fastened	Not existed
	2		Released	Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace seat belt buckle switch (driver side). Refer to <u>SE-223, "Exploded View"</u>.

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000004746880

- Seat belt buckle switch is installed in seat belt buckle.
- Seat belt buckle switch detects condition of seat belt.

PASSENGER SIDE : Component Function Check

INFOID:0000000004746881

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 SE-75, "PASSENGER SIDE : Diagnosis Procedure".

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PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000004746882

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1. CHECK SEAT BELT BUCKLE SWITCH SIGNAL

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

Passenger s	(+) Passenger seat control unit				Voltage (V) (Approx.)
Connector	Terminal			(Approx.)	
B552	5	Ground	Passenger side seat belt is fastened, and not in the sleep mode	5	

Other than above

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 switch (passenger side)		Continuity
Connector	Terminal	Connector Terminal		Continuity
B552	5	B213	1	Existed

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

Passenger seat control unit			Continuity	
Connector Terminal		Ground	Continuity	
B552	5		Not existed	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

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 switch (passenger side)			Continuity
Connector Terminal		Ground	Continuity
B213	2		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

$oldsymbol{4}.$ CHECK SEAT BELT BUCKLE SWITCH (PASSENGER SIDE)

Check seat belt buckle switch.

Refer to SE-76, "PASSENGER SIDE: Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace seat belt buckle switch (passenger side). Refer to <u>SE-223, "Exploded View"</u>.

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

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

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((+)			\/-\(\frac{1}{2} = \frac{1}{2} \left(\lambda \)
Passenger seat control unit		(-)	Condition	Voltage (V) (Approx.)
Connector	Terminal			, , , ,
B552	5	Ground	Not in the sleep mode	5

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace passenger seat control unit. Refer to <u>SE-249</u>, "Removal and Installation".

6. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

PASSENGER SIDE: Component Inspection

INFOID:0000000004746883

1. CHECK SEAT BELT BUCKLE SWITCH (PASSENGER SIDE)

- 1. Turn ignition switch OFF.
- 2. Disconnect seat belt buckle switch (passenger side) connector.
- 3. Check continuity between seat belt buckle switch (passenger side) terminals.

Seat belt buckle switch (passenger side)		Condition		Continuity
Terminal				Continuity
1	4 2	Passenger side seat belt	Fastened	Not existed
1	2		Released	Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace seat belt buckle switch (passenger side). Refer to <u>SE-223. "Exploded View"</u>.

< DTC/CIRCUIT DIAGNOSIS >

SLIDING LIMIT SWITCH

DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000004746884

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- Sliding limit switch is installed on seat cushion frame.
- · Sliding limit switch detects condition of seat sliding.

DRIVER SIDE : Component Function Check

INFOID:0000000004746885

1. CHECK FUNCTION

- 1. Turn ignition switch ON.
- 2. Select "FWD LIMIT SW" in the "Data Monitor" mode using CONSULT-III.
- 3. Check the sliding limit switch signal under the following condition.

Test item	Condition		Status
FWD LIMIT SW Seat sliding	Soat cliding	Front edge	ON
	Other than above	OFF	

Is the indication normal?

YES >> Sliding limit switch function is OK.

NO >> Refer to <u>SE-77</u>, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE: Diagnosis Procedure

INFOID:0000000004746886

1. CHECK SLIDING LIMIT SWITCH INPUT SIGNAL

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

	+) mit switch	(–)	Condition	Voltage (V) (Approx.)
Connector	Terminal			(11 - 7
B514	4	Ground	Not in the sleep mode	5

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK SLIDING LIMIT SWITCH CIRCUIT

- Disconnect driver seat control unit connector.
- Check continuity between driver seat control unit harness connector and sliding limit switch harness connector.

Driver seat control unit		Sliding limit switch		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B503	4	B514	4	Existed

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

Driver seat control unit			Continuity
Connector	Terminal	Ground	Continuity
B503	4		Not existed

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to SE-248, "Removal and Installation".

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${f 3.}$ CHECK SLIDING LIMIT SWITCH GROUND CIRCUIT

Check continuity between sliding limit switch harness connector and ground.

Sliding limit 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 SE-78, "DRIVER SIDE: Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace sliding limit switch. Refer to <u>SE-223, "Exploded View"</u>.

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

DRIVER SIDE: Component Inspection

INFOID:0000000004746887

1. CHECK SLIDING LIMIT SWITCH

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

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace sliding limit switch. Refer to <u>SE-223, "Exploded View"</u>.

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000004746888

- Sliding limit switch is installed on seat cushion frame.
- · Sliding limit switch detects condition of seat sliding.

PASSENGER SIDE: Component Function Check

INFOID:0000000004746889

1. CHECK FUNCTION

Check whether or not power walk-in function activates normally when power walk-in switch is pressed.

Is the inspection result normal?

YES >> Sliding limit switch function is OK.

NO >> Refer to <u>SE-79</u>. "<u>PASSENGER SIDE</u>: <u>Diagnosis Procedure</u>".

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PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000004746890

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1. CHECK SLIDING LIMIT SWITCH SIGNAL

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

Passenger se	+) eat control unit	(-)	(–) Condition		
Connector	Terminal			(Approx.)	
B552	4	Ground	Sliding position is front edge and not in the sleep mode	5	
			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

- Disconnect passenger seat control unit connector and sliding limit switch connector.
- Check continuity between passenger seat control unit harness connector and sliding limit switch harness connector.

Passenger se	Passenger seat control unit		Sliding limit switch	
Connector	Terminal	Connector	Terminal	Continuity
B552	4	B558	4	Existed

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

Passenger se	Passenger seat control unit		Continuity
Connector	Terminal	Ground	Continuity
B552	4		Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK SLIDING LIMIT SWITCH GROUND CIRCUIT

Check continuity between sliding limit switch harness connector and ground.

Sliding limit switch			Continuity	
Connector	Terminal	Ground	Continuity	
B558	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 SE-80, "PASSENGER SIDE: Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace sliding limit switch. Refer to SE-223, "Exploded View".

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

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

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	(+)			
Passenger seat control unit		(–)	Condition	Voltage (V) (Approx.)
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-249</u>, "Removal and Installation".

6. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

PASSENGER SIDE: Component Inspection

INFOID:0000000004746891

1. CHECK SLIDING LIMIT SWITCH

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

Sliding limit switch		Condition		Continuity
Terminal				Continuity
	32	Seat sliding	Front edge	Not existed
<u> </u>	32	Seat sliding	Other than above	Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace sliding limit switch. Refer to <u>SE-223, "Exploded View"</u>.

< DTC/CIRCUIT DIAGNOSIS >

POWER WALK-IN SWITCH

DRIVER SIDE

DRIVER SIDE: Description

INFOID:0000000004746892

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- Power walk-in switch is installed on seatback.
- The operation signal is input to driver seat control unit when power walk-in switch is operated.

DRIVER SIDE: Component Function Check

INFOID:0000000004746893

1. CHECK FUNCTION

- Turn ignition switch ON.
- Select "WALK-IN SW" in the "Data Monitor" mode using CONSULT-III.
- Check the power walk-in switch signal under the following condition.

Test item	Condition		Status
WALK-IN SW	Power walk-in switch	Pressed	ON
WALK-IN SW	Power wark-in Switch	Released	OFF

Is the indication normal?

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

NO >> Refer to SE-81, "DRIVER SIDE: Diagnosis Procedure".

DRIVER SIDE: Diagnosis Procedure

INFOID:0000000004746894

1. CHECK POWER WALK-IN SWITCH SIGNAL

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

(+) Power walk-in switch		(-)	Voltage (V) (Approx.)	
Connector	Terminal		(* ,••• • • • • • • • • • • • • • • • • •	
B513	30	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK POWER WALK-IN SWITCH CIRCUIT

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

Driver seat control unit		Power walk-in switch		Continuity
Connector	Terminal	Connector Terminal		Continuity
B503	30	B513	30	Existed

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

Driver seat control unit			Continuity
Connector	Terminal	Ground	Continuity
B503	30		Not existed

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to SE-248, "Removal and Installation".

NO >> Repair or replace harness.

SE-81 Revision: 2010 March

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< DTC/CIRCUIT DIAGNOSIS >

${f 3.}$ CHECK POWER WALK-IN SWITCH GROUND CIRCUIT

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

Power walk-in switch			Continuity
Connector Terminal		Ground	Continuity
B513	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 SE-82, "DRIVER SIDE: Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace power walk-in switch. Refer to <u>SE-223, "Exploded View"</u>.

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

DRIVER SIDE: Component Inspection

INFOID:0000000004746895

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
Terminal				Continuity
30	30 32 Pow	Power walk-in switch	Pressed	Existed
	32	Fower wark-III Switch	Released	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power walk-in switch. Refer to <u>SE-223, "Exploded View"</u>.

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000004746896

- 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

INFOID:0000000004746897

1. CHECK FUNCTION

Check whether or not power walk-in function activates normally when power walk-in switch is pressed.

Is the indication normal?

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

NO >> Refer to SE-83, "PASSENGER SIDE : Diagnosis Procedure".

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PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000004746898

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1. CHECK POWER WALK-IN SWITCH SIGNAL

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

(+) Passenger seat control unit		(–) Condition		n	Voltage (V) (Approx.)
Connector	Terminal				(-44)
B552	30	Ground	Power walk-in switch	Pressed	0
D332	30	Glound Fower waik-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 harness connector.

Passenger se	Passenger seat control unit		Power walk-in switch	
Connector	Terminal	Connector Terminal		Continuity
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	Continuity	
B552	30		Not existed	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK POWER WALK-IN SWITCH GROUND CIRCUIT

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

Power wa	Power walk-in switch		Continuity
Connector	Connector Terminal		Continuity
B557	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 SE-84, "PASSENGER SIDE: Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace power walk-in switch. Refer to <u>SE-223, "Exploded View"</u>.

5. CHECK PASSENGER SEAT CONTROL UNIT OUTPUT

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

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< DTC/CIRCUIT DIAGNOSIS >

(+)			Voltage (V)	
Passenger se	Passenger seat control unit		Voltage (V) (Approx.)	
Connector	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-249</u>, "Removal and Installation".

6. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

PASSENGER SIDE: Component Inspection

INFOID:0000000004746899

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
Terminal				Continuity
30	32 Power wa	Power walk-in switch	Pressed	Existed
	32	Power waik-in switch	Released	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power walk-in switch. Refer to <u>SE-223, "Exploded View"</u>.

DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

DOOR SWITCH

1. CHECK FUNCTION

Description

Detects passenger side doors open or closed condition.

Component Function Check

Component anotion Chec

Check that passenger side power walk-in function operates.

Is the inspection result normal?

YES >> Door switch function is OK.

NO >> Refer to <u>SE-85</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

1. CHECK PASSENGER SIDE DOOR SWITCH

Check passenger side door switch.

Refer to SE-85, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.check passenger side door switch input signal

1. Turn ignition switch OFF.

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

(+) Passenger seat control unit		(–)	Condition		Signal (Reference value)
Connector	Terminal				(131313133)
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.

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

Passenger si	Passenger side door switch		eat control unit	Continuity
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 si	de door switch		Continuity
Connector	Terminal	Ground	Continuity
B216	3		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 GI-36, "Intermittent Incident".

>> INSPECTION END

< DTC/CIRCUIT DIAGNOSIS >

SLIDING SENSOR **DRIVER SIDE**

DRIVER SIDE: Description

INFOID:0000000004746903

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- 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:0000000004746904

1. CHECK FUNCTION

- Turn ignition switch ON.
- Select "SLIDE PULSE" in the "Data Monitor" mode using CONSULT-III. 2.
- Check sliding sensor signal under the following conditions.

Test item	Condition		Status
		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?

YES >> Sliding sensor function is OK.

>> Refer to SE-87, "DRIVER SIDE : Diagnosis Procedure". NO

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000004746905

1. CHECK SLIDING SENSOR SIGNAL

- Turn ignition switch OFF.
- Check signal between sliding sensor harness connector and ground with oscilloscope.

(+) Sliding sensor		(–) Condition		Signal (Reference value)	
Connector	Terminal				(**************************************
B526	24	Ground	Seat sliding	Operate Other than above	10mSec/div 2V/div JMJIA0119ZZ

Is the inspection result normal?

YES >> GO TO 2.

NO >> GO TO 3.

2.CHECK SLIDING SENSOR CIRCUIT

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

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< DTC/CIRCUIT DIAGNOSIS >

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

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

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

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to SE-248, "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)	
Sliding	Sliding sensor		Voltage (V) (Approx.)	
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		sensor	Continuity
Connector	Terminal	Connector	Terminal	Continuity
B503	16	B526	16	Existed

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

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

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>SE-248</u>, "Removal and Installation".

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	t control unit	Sliding	sensor	Continuity
Connector	Terminal	Connector	Terminal	Continuity
B503	31	B526	31	Existed

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

< DTC/CIRCUIT DIAGNOSIS >

Driver seat	control unit		Continuity	
Connector	Terminal	Ground	Continuity	
B503	31		No existed	

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

6.CHECK SLIDING SENSOR GROUND

- Connect driver seat control unit connector.
- 2. Check continuity between driver seat control unit harness connector and ground.

Driver seat control unit			Continuity
Connector Terminal		Ground	Continuity
B503	31		Existed

Is the inspection result normal?

YES >> Replace sliding sensor. Refer to <u>SE-223. "Exploded View"</u>.

NO >> Replace driver seat control unit. Refer to <u>SE-248, "Removal and Installation"</u>.

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000004746906

INFOID:0000000004746907

- The sliding sensor is installed on the seat slide cushion frame.
- The pulse signal is transmitted to the passenger seat control unit when sliding is operated.
- The passenger seat control unit counts the pulse and calculates the sliding amount of the seat.

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.

Is the indication normal?

YES >> Sliding sensor function is OK.

NO >> Refer to <u>SE-89</u>, "<u>PASSENGER SIDE</u>: <u>Diagnosis Procedure</u>".

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000004746908

1. CHECK SLIDING SENSOR SIGNAL

Turn ignition switch OFF.

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

(+) Passenger seat control unit		(–) Condition		dition	Signal		
Connector	Terminal	()	Condition		25.141.1611		(Reference value)
B552	24	Ground	Seat sliding	Operate	10mSec/div		
				Other than above	0 V or 5 V		

Is the inspection result normal?

YES >> Sliding sensor function is OK.

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< DTC/CIRCUIT DIAGNOSIS >

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 seat 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	Connector Terminal		Continuity	
B552	24		Not existed	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK SLIDING SENSOR POWER SUPPLY

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

(+) Sliding sensor		(-)	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 seat control unit		Sliding sensor		Continuity
Connector	Terminal	Connector Terminal		Continuity
B552	16	B568	16	Existed

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

Passenger seat control unit			Continuity	
Connector Terminal		Ground	Continuity	
B552	16		Not existed	

Is the inspection result normal?

YES >> Replace passenger seat control unit. Refer to SE-249, "Removal and Installation".

NO >> Repair or replace harness.

${f 5.}$ CHECK SLIDING SENSOR GROUND CIRCUIT

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

< DTC/CIRCUIT DIAGNOSIS >

Passenger se	Passenger seat control unit Sliding sensor		sensor	Continuity
Connector	Terminal	Connector Terminal		Continuity
B552	31	B568	31	Existed

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

Passenger seat control unit			Continuity
Connector Terminal		Ground	Continuity
B552	31		Not existed

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

6. CHECK SLIDING SENSOR GROUND

1. Connect passenger seat control unit connector.

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

Passenger seat control unit			Continuity	
Connector	Connector Terminal		Continuity	
B552	31		Existed	

Is the inspection result normal?

YES >> Replace sliding sensor. Refer to <u>SE-223, "Exploded View"</u>.

NO >> Replace passenger seat control unit. Refer to <u>SE-249</u>, "Removal and Installation".

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SLIDING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

SLIDING MOTOR DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000004746909

- 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

INFOID:0000000004746910

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.

Test item		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 SE-92, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE: Diagnosis Procedure

INFOID:0000000004746911

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		(–) Con		ndition	Voltage (V) (Approx.)
Connector	Connector Terminal				(* 155. 57.1)
	35	Ground		Forward	Battery voltage
DE25	B525 42		Slide switch	Other than above	0
B323			Slide Switch	Backward	Battery voltage
	42			Other than above	0

Is the inspection result normal?

YES >> Replace sliding motor.

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.

Sliding motor		Driver seat	Continuity	
Connector	Terminal	Connector	Terminal	Continuity
B525	35	B504	35	Existed
B525	42	5304	42	LXISIEU

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

SLIDING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

Driver se	Driver seat control unit		Continuity
Connector	Terminal	Ground	Continuity
B504	35	Ground	Not existed
D304	42		Not existed

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>SE-248, "Removal and Installation"</u>.

NO >> Repair or replace harness.

PASSENGER SIDE

PASSENGER SIDE: Description

• The seat sliding motor is installed to the seat cushion frame.

- The seat sliding motor is activated with the passenger seat control unit.
- The seat is slid forward/backward by changing the rotation direction of sliding motor.

PASSENGER SIDE: Component Function Check

1.check sliding motor circuit

Check sliding operation with power seat switch.

Is the inspection result normal?

YES >> Sliding motor function is OK.

NO >> Refer to <u>SE-93, "PASSENGER SIDE : Diagnosis Procedure"</u>.

PASSENGER SIDE: Diagnosis Procedure

1. CHECK SLIDING MOTOR POWER SUPPLY

1. Turn ignition switch OFF.

2. Disconnect sliding motor connector.

Check voltage between sliding motor harness connector and ground.

(+) Sliding motor		(–)	Condition		Voltage (V) (Approx.)
Connector	Terminal				(F-F-1971)
	35 B567 42	Ground		Forward	Battery voltage
D567			Slide switch	Other than above	0
D307				Backward	Battery voltage
				Other than above	0

Is the inspection result normal?

YES >> Replace sliding motor.

NO >> GO TO 2.

2.CHECK SLIDING MOTOR CIRCUIT

Disconnect passenger seat control unit connector.

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

Sliding motor		Passenger se	Continuity	
Connector	Terminal	Connector	Terminal	Continuity
B567	35	B553	35	Existed
B307	42	B333	42	Existed

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

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SLIDING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

Passenger seat control unit			Continuity
Connector	Terminal	Ground	Continuity
B553	35	_ Ground	Not existed
	42		Not existed

Is the inspection result normal?

YES >> Replace passenger seat control unit. Refer to <u>SE-249</u>, "Removal and Installation".

RECLINING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

RECLINING MOTOR DRIVER SIDE

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DRIVER SIDE : Description

INFOID:0000000004746917

- 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

INFOID:0000000004746918

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-95, "DRIVER SIDE : Diagnosis Procedure"</u>.

DRIVER SIDE: Diagnosis Procedure

INFOID:0000000004746919

1. CHECK RECLINING MOTOR POWER SUPPLY

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

(+) Reclining motor		(–)	Condition		Voltage (V) (Approx.)
Connector	Terminal				()
	20		Poolining quitob	Forward	Battery voltage
B524	36	Ground		Other than above	0
D324	44	Ground	Reclining switch	Backward	Battery voltage
	44		Other	Other than above	0

Is the inspection result normal?

YES >> Replace reclining motor.

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.

Reclining motor		Driver seat	Continuity	
Connector	Terminal	Connector	Terminal	Continuity
B524	B524 36 B504		36	Existed
	44	2304	44	LAISIGU

Check continuity between reclining motor harness connector and ground.

Reclining motor			Continuity	
Connector	Terminal	Ground	Continuity	
B524	36	Ground	Not existed	
D024	44		NOT EXISTED	

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>SE-248</u>, "Removal and Installation".

RECLINING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

PASSENGER SIDE

PASSENGER SIDE: Description

INFOID:0000000004746921

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

PASSENGER SIDE: Component Function Check

INFOID:0000000004746922

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-96, "PASSENGER SIDE : Diagnosis Procedure"</u>.

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000004746923

1. CHECK RECLINING MOTOR POWER SUPPLY

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

	(+) Reclining motor		Con	dition	Voltage (V) (Approx.)
Connector	Terminal				(, , , , , , , , , , , , , , , , , , ,
	20	- Ground	Declining quitch	Forward	Battery voltage
B566	36			Other than above	0
D300	44		Reclining switch	Backward	Battery voltage
	44			Other than above	0

Is the inspection result normal?

YES >> Replace reclining motor.

NO >> GO TO 2.

2. CHECK RECLINING MOTOR CIRCUIT

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

Reclin	ing motor	Passenger seat control unit		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B566	36	B553	36	Existed
D300	44		44	LXISIEU

Check continuity between reclining motor harness connector and ground.

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

Is the inspection result normal?

YES >> Replace passenger seat control unit. Refer to <u>SE-249. "Removal and Installation"</u>.

LIFTING MOTOR (FRONT)

< DTC/CIRCUIT DIAGNOSIS >

LIFTING MOTOR (FRONT)

DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000004746925

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- 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

INFOID:0000000004746926

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-97</u>, "<u>DRIVER SIDE</u>: <u>Diagnosis Procedure</u>".

DRIVER SIDE: Diagnosis Procedure

INFOID:0000000004746927

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)		(–)	Condition		Voltage (V) (Approx.)
Connector	Terminal				(11 - 7
	37	Ground	Lifting switch (front)	Downward	Battery voltage
B528				Other than above	0
D320	45			Upward	Battery voltage
	45			Other than above	0

Is the inspection result normal?

YES >> Replace lifting motor (front).

NO >> GO TO 2.

2.CHECK LIFTING MOTOR (FRONT) CIRCUIT

Disconnect driver seat control unit connector.

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

Lifting motor (front)		Driver seat control unit		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
B528	37 B504		37	Existed	
D320	45	D304	45	LAISIEU	

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

Lifting mo	otor (front)		Continuity	
Connector	Terminal	Ground	Continuity	
B528	37	Ground	Not existed	
B028	45		Not existed	

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to SE-248, "Removal and Installation".

NO >> Repair or replace harness.

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LIFTING MOTOR (FRONT)

< DTC/CIRCUIT DIAGNOSIS >

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000004746929

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

PASSENGER SIDE: Component Function Check

INFOID:0000000004746930

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-98, "PASSENGER SIDE : Diagnosis Procedure"</u>.

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000004746931

1. CHECK LIFTING MOTOR (FRONT) POWER SUPPLY

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

	(+) Lifting motor (front)		Condition		Voltage (V) (Approx.)
Connector	Connector Terminal				(* ipp: 5/)
	37			Downward	Battery voltage
B569	31	Ground	Lifting switch (front)	Other than above	0
D309	45	Ground	Ground Lifting switch (front)	Upward	Battery voltage
	45			Other than above	0

Is the inspection result normal?

YES >> Replace lifting motor (front).

NO >> GO TO 2.

2. CHECK LIFTING MOTOR (FRONT) CIRCUIT

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

Lifting n	notor (front)	(front) Passenger seat control unit		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B569	B560		37	Existed
D309	45	B553	45	LXISIEU

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

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

Is the inspection result normal?

YES >> Replace passenger seat control unit. Refer to <u>SE-249. "Removal and Installation"</u>.

LIFTING MOTOR (REAR)

< DTC/CIRCUIT DIAGNOSIS >

LIFTING MOTOR (REAR)

DRIVER SIDE

DRIVER SIDE: Description

INFOID:0000000004746933

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- 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

INFOID:0000000004746934

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 SE-99, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE: Diagnosis Procedure

INFOID:0000000004746935

1. CHECK LIFTING MOTOR (REAR) POWER SUPPLY

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

(+) Lifting motor (rear)		(–) Cond		dition	Voltage (V) (Approx.)
Connector	Connector Terminal				(, , , , , , , , , , , , , , , , , , ,
	38			Upward	Battery voltage
B530	36	Cround	Lifting switch (roor)	Other than above	0
B330	20	Ground	Lifting switch (rear)	Downward	Battery voltage
	39			Other than above	0

Is the inspection result normal?

YES >> Replace lifting motor (rear).

NO >> GO TO 2.

2.CHECK LIFTING MOTOR (REAR) CIRCUIT

Disconnect driver seat control unit connector.

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

Lifting motor (rear)		Driver seat control unit		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
B530	38	B504	38	Existed	
D330	39	B304	39	LXISIEU	

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		NOT existed	

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>SE-248, "Removal and Installation"</u>.

NO >> Repair or replace harness.

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LIFTING MOTOR (REAR)

< DTC/CIRCUIT DIAGNOSIS >

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000004746937

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

PASSENGER SIDE: Component Function Check

INFOID:0000000004746938

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-100, "PASSENGER SIDE : Diagnosis Procedure"</u>.

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000004746939

1. CHECK LIFTING MOTOR (REAR) POWER SUPPLY

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

	(+) Lifting motor (rear)		(–) Condition		Voltage (V) (Approx.)
Connector	Connector Terminal				(, , , , , , , , , , , , , , , , , , ,
	38	Ground	Lifting switch (rear)	Upward	Battery voltage
B570	36			Other than above	0
B370	39			Downward	Battery voltage
	39			Other than above	0

Is the inspection result normal?

YES >> Replace lifting motor (rear).

NO >> GO TO 2.

2.CHECK LIFTING MOTOR (REAR) CIRCUIT

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

Lifting r	notor (rear)	ar) Passenger seat control unit		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B570	B570 38 B553		38	Existed
5370	39		39	LAISIEU

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

Lifting motor (rear)			Continuity	
Connector	Terminal	Ground	Continuity	
DE70	38	Giodila	Not existed	
B570	39		Not existed	

Is the inspection result normal?

YES >> Replace passenger seat control unit. Refer to <u>SE-249. "Removal and Installation"</u>.

< DTC/CIRCUIT DIAGNOSIS >

HEATED SEAT SWITCH

DRIVER SIDE

DRIVER SIDE: Description

INFOID:0000000004746941

Adjusts heated seat temperature and deactivates heated seat.

DRIVER SIDE: Component Function Check

INFOID:0000000004746942

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 SE-101, "DRIVER SIDE: Diagnosis Procedure".

DRIVER SIDE: Diagnosis Procedure

INFOID:0000000004746943

1. CHECK HEATED SEAT CONTROL UNIT INPUT SIGNAL

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

(+) Heated seat control unit Connector Terminal		(-)	Condition		Voltage (V) (Approx.)
00111100101				OFF	0
			round Heated seat switch position	1 (Min. temperature)	12.24
				2	12.33
B518	67	Ground		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

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

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

Check continuity between heated seat switch harness connector and ground.

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Heated seat switch			Continuity	
Connector	Connector Terminal		Continuity	
A/T models: M141 M/T models: M175	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 SE-102, "DRIVER SIDE: Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace heated seat switch. Refer to <u>SE-256, "Removal and Installation"</u>.

4. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

DRIVER SIDE: Component Inspection

INFOID:0000000004746944

1. CHECK FRONT HEATED SEAT SWITCH

- Turn ignition switch OFF.
- Disconnect heated seat switch connector.
- Check resistance between heated seat switch terminals.

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace heated seat switch. Refer to <u>SE-256, "Removal and Installation"</u>.

PASSENGER SIDE

PASSENGER SIDE: Description

INFOID:0000000004746945

INFOID:0000000004746946

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?

>> Heated seat switch function is OK.

NO >> Refer to SE-103, "PASSENGER SIDE: Diagnosis Procedure".

PASSENGER SIDE: Diagnosis Procedure

1. CHECK HEATED SEAT CONTROL UNIT INPUT SIGNAL

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

(+) Heated seat control unit Connector Terminal		(-)		ndition	Voltage (V) (Approx.)
					(дрргох.)
		Ground Heated seat switch	OFF	0	
			Heated seat switch position	1 (Min. temperature)	12.24
				2	12.33
B575	67			3	12.49
		position	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

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

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

Check continuity between heated seat switch harness connector and ground.

Heated s	Heated seat 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 SE-104, "PASSENGER SIDE: Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace heated seat switch. Refer to <u>SE-256, "Removal and Installation"</u>.

4.CHECK INTERMITTENT INCIDENT

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< DTC/CIRCUIT DIAGNOSIS >

Check intermittent incident.

Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

PASSENGER SIDE: Component Inspection

INFOID:0000000004746948

1. CHECK FRONT HEATED SEAT SWITCH

- 1. Turn ignition switch OFF.
- 2. Disconnect heated seat switch connector.
- Check resistance between heated seat switch terminals.

Heated seat switch		O I'i'		Resistance	
Connector	Terr	ninal	Condition		$(K\Omega)$ (Approx.)
		4		ON	0
		ı		OFF	∞
				1 (Min. temperature)	2.400
A/T models: M142 M/T models: M176	2	Heated seat switch position	2	1.800	
			3	1.200	
			4	0.910	
				5	0.620
				6 (Max. tempera- ture)	0.348

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace heated seat switch. Refer to <u>SE-256</u>, "Removal and Installation".

HEATED SEAT RELAY

< DTC/CIRCUIT DIAGNOSIS >

HEATED SEAT RELAY

Description INFOID:0000000004746949

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.

>> Refer to SE-105, "Diagnosis Procedure" NO

Diagnosis Procedure

1. CHECK HEATED SEAT RELAY POWER SUPPLY

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

(+)		V 16 0.0	
Heated			Voltage (V) (Approx.)
Connector	Terminal		(11 -)
E19	2	Ground	Battery voltage

Is the inspection result normal?

>> GO TO 3. YES

NO >> GO TO 2.

2.CHECK HEATED SEAT RELAY POWER SUPPLY CIRCUIT

- Turn ignition switch OFF.
- Disconnect fuse block (J/B) connector. 2.
- 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	
E19	2	M1	2A	Existed	

Check continuity between heated seat relay terminal connector and ground.

Heated seat relay			Continuity
Connector	Connector Terminal		Continuity
E19	2		Not existed

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

3.CHECK HEATED SEAT RELAY GROUND CIRCUIT

- Turn ignition switch OFF.
- Check continuity between heated seat relay terminal connector and ground.

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HEATED SEAT RELAY

< DTC/CIRCUIT DIAGNOSIS >

Heated seat relay			Continuity
Connector	Terminal	Ground	Continuity
E19	1		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK HEATED SEAT RELAY

Check heated seat relay.

Refer to SE-106, "Component Inspection".

Is the inspection result normal?

YES >> Heated seat relay circuit is OK.

NO >> Replace heated seat relay.

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-36, "Intermittent Incident"

>> INSPECTION END

Component Inspection

INFOID:0000000004746952

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1. CHECK HEATED SEAT RELAY

- 1. Turn ignition switch OFF.
- 2. Disconnect heated seat relay.
- 3. Check continuity between heated seat relay terminals.

heated s	seat relay	Condition	Continuity	
Terr	minal	Condition	Continuity	
3	5	12 V direct current supply between terminals 1 and 2.	Existed	
		No current supply	Not existed	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace heated seat relay.

HEAT SENSOR

DRIVER SIDE

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DRIVER SIDE: Description

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INFOID:0000000004746954

INFOID:0000000004746955

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

DRIVER SIDE : Component Function Check

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1.CHECK FUNCTION

Check that heated seat warms to preset temperature when operating heated seat switch to the optimal posi-

Is the inspection result normal?

YES >> Heat sensor function is OK.

NO >> Refer to SE-107, "DRIVER SIDE : Diagnosis Procedure"

DRIVER SIDE: Diagnosis Procedure

1. CHECK HEAT SENSOR INPUT SIGNAL

1. Turn ignition switch ON.

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

(+) Heated seat control unit Connector Terminal		(–)	Condition		Voltage (V) (Approx.)
	69	Ground	Heated seat switch position 3 4 5	OFF	0
				1 (Min. temperature)	10.87 – 11.02
				2	10.93 – 11.07
B518				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

Turn ignition switch OFF.

- Disconnect heated seat control unit connector and seat cushion heater connector.
- 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 DIAGNOSIS >

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK HEAT SENSOR POWER SUPPLY

- 1. Turn ignition switch ON.
- 2. Turn heated seat switch ON.
- 3. Check voltage between seat cushion heater harness connector and ground.

Seat cush	+) nion heater	(-)	Voltage (V) (Approx.)	
Connector	Terminal			
B517	66	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

4. CHECK HEAT SENSOR POWER SUPPLY CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect heated seat switch connector.
- 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	66	B517	66	Existed

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

_	Heated sea	t control unit		Continuity
_	Connector	Terminal	Ground	Continuity
_	B518	66		Not existed

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

5. CHECK HEAT SENSOR

Check heat sensor. Refer to SE-108, "DRIVER SIDE: Component Inspection".

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace seat cushion heater. Refer to <u>SE-234, "Removal and Installation"</u>.

6. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-36, "Intermittent Incident"

>> INSPECTION END

DRIVER SIDE: Component Inspection

INFOID:0000000004746956

1. CHECK HEAT SENSOR

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

HEAT SENSOR

< DTC/CIRCUIT DIAGNOSIS >

Seat cushion heater Terminal		0 150	Resistance
		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-223</u>, "Exploded View".

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 SE-109, "PASSENGER SIDE : Diagnosis Procedure"

PASSENGER SIDE : Diagnosis Procedure

1. CHECK HEAT SENSOR INPUT SIGNAL

Turn ignition switch ON.

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

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

NOTE:

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

Is the inspection result normal?

YES >> heat sensor is OK.

NO >> GO TO 2.

2. CHECK HEAT SENSOR CIRCUIT

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

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HEAT SENSOR

< DTC/CIRCUIT DIAGNOSIS >

Heated sea	Heated seat control unit		Seat cushion heater	
Connector	Terminal	Connector	Terminal	Continuity
B575	69	B574	69	Existed

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

Heated sea	t control unit		Continuity
Connector	Terminal	Ground	Continuity
B575	69		Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK HEAT SENSOR POWER SUPPLY

- 1. Turn ignition switch ON.
- 2. Turn heated seat switch ON.
- 3. Check voltage between seat cushion heater harness connector and ground.

(+) Seat cushion heater		(-)	Voltage (V) (Approx.)
Connector	Terminal		(11 - 7
B574	66	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

4. CHECK HEAT SENSOR POWER SUPPLY CIRCUIT

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

Heated sea	Heated seat control unit		ion heater	Continuity
Connector	Terminal	Connector	Terminal	Continuity
B575	66	B574	66	Existed

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

Heated sea	t control unit		Continuity
Connector	Terminal	Ground	Continuity
B575	66		Not existed

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

5.CHECK HEAT SENSOR

Check heat sensor. Refer to SE-111, "PASSENGER SIDE: Component Inspection".

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace seat cushion heater. Refer to <u>SE-223, "Exploded View"</u>.

6. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-36, "Intermittent Incident"

HEAT SENSOR

< DTC/CIRCUIT DIAGNOSIS >

>> INSPECTION END

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PASSENGER SIDE: Component Inspection

1. CHECK HEAT SENSOR

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

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

NOTE:

Resistance value changes according to temperature.

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace seat cushion heater. Refer to <u>SE-223, "Exploded View"</u>.

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< DTC/CIRCUIT DIAGNOSIS >

SEAT CUSHION HEATER

DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000004746961

Warms the seat cushion.

DRIVER SIDE: Component Function Check

INFOID:0000000004746962

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 SE-112, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE: Diagnosis Procedure

INFOID:0000000004746963

1. CHECK SEAT CUSHION HEATER INPUT SIGNAL

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

`	(+) Seat cushion heater		Condition		Voltage (V) (Approx.)	
Connector	Terminal				(44)	
B517	68	Ground	Heated seat	Operates	0 – Battery voltage	
B317	00	Ground	Healeu Seal	Other than above	0	

NOTE:

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK SEAT CUSHION HEATER CIRCUIT

- Turn ignition switch OFF.
- Disconnect heated seat control unit connector.
- Check continuity between seat cushion heater harness connector and heated seat control unit harness connector.

Seat cush	nion heater	Heated sea	t control unit	Continuity
Connector	Terminal	Connector	Terminal	Continuity
B517	68	B518	68	Existed

Check continuity between seat cushion heater harness connector and ground.

Seat cush	nion heater		Continuity
Connector	Terminal	Ground	Continuity
B517	68		Not existed

Is the inspection result normal?

YES >> Replace heated seat control unit. Refer to <u>SE-250</u>, "Removal and Installation".

NO >> Repair or replace harness.

3.CHECK SEAT CUSHION HEATER

< DTC/CIRCUIT DIAGNOSIS >

Check seat cushion heater.

Refer to SE-113, "DRIVER SIDE: Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace seat cushion heater. Refer to SE-223, "Exploded View".

f 4.CHECK SEAT CUSHION HEATER GROUND CIRCUIT

Check continuity between seat cushion heater harness connector and ground.

Seat cush	nion heater		Continuity
Connector	Terminal	Ground	Continuity
B517	48		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-36, "Intermittent Incident"

>> INSPECTION END

DRIVER SIDE: Component Inspection

INFOID:0000000004746964

1. CHECK SEAT CUSHION HEATER

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

Seat cush	nion heater		Resistance	
Terr	minal	Condition	(Ω) (Approx.)	
48	68	When heat sensor temperature is 20°C (68°F)	2.6 – 3.0	

Resistance value changes according to temperature.

Is the inspection result normal?

YES >> INSPECTION END

>> Replace seat cushion heater. Refer to SE-223, "Exploded View". NO

PASSENGER SIDE

1. CHECK FUNCTION

PASSENGER SIDE: Description

Warms the seat cushion.

PASSENGER SIDE: Component Function Check

Check that heated seat warms to preset temperature when operating heated seat switch to the optimal posi-

Is the inspection result normal?

YES >> Seat cushion heater function is OK.

>> Refer to SE-113, "PASSENGER SIDE: Diagnosis Procedure". NO

PASSENGER SIDE : Diagnosis Procedure

 ${f 1}$.CHECK FRONT SEAT CUSHION HEATER INPUT SIGNAL

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< DTC/CIRCUIT DIAGNOSIS >

- 1. Turn ignition switch OFF.
- Disconnect seat cushion heater connector.
- 3. Turn ignition switch ON.
- 4. Check voltage between seat cushion heater harness connector and ground.

	+) nion heater	(-)	Cor	Voltage (V) (Approx.)	
Connector	Terminal				
B574	68	Ground	Hostod sost	Operates	0 – Battery voltage
D374	08	Ground Heated seat		Other than above	0

NOTE:

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK SEAT CUSHION HEATER CIRCUIT

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

Seat cush	nion heater	Heated sea	Continuity	
Connector	onnector Terminal		Terminal	Continuity
B574	68	B575	68	Existed

4. Check continuity between seat cushion heater harness connector and ground.

Seat cush	nion heater		Continuity
Connector	Connector Terminal		Continuity
B574	68		Not existed

Is the inspection result normal?

YES >> Replace heated seat control unit. Refer to <u>SE-250</u>, "Removal and Installation".

NO >> Repair or replace harness.

3. CHECK SEAT CUSHION HEATER

Check seat cushion heater.

Refer to SE-115, "PASSENGER SIDE: Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace seat cushion heater. Refer to <u>SE-223, "Exploded View"</u>.

f 4 .CHECK SEAT CUSHION HEATER GROUND CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Check continuity between seat cushion heater harness connector and ground.

Seat cush	nion heater		Continuity
Connector	Connector Terminal		Continuity
B574	48		Existed

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

< DTC/CIRCUIT DIAGNOSIS >

Refer to GI-36, "Intermittent Incident"

>> INSPECTION END

PASSENGER SIDE: Component Inspection

1. CHECK SEAT CUSHION HEATER

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

Seat cush	nion heater	O an alistica.	Resistance (Ω) (Approx.)	
Terr	minal	Condition		
48 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?

>> INSPECTION END YES

NO >> Replace seat cushion heater. Refer to SE-223, "Exploded View".

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INFOID:0000000004746968

SEATBACK HEATER

< DTC/CIRCUIT DIAGNOSIS >

SEATBACK HEATER

DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000004746969

Warms the seat cushion.

DRIVER SIDE: Component Function Check

INFOID:0000000004746970

1. CHECK FUNCTION

Check that heated seat warms to preset temperature when operating heated seat switch to the optimal posi-

Is the inspection result normal?

YES >> Seatback heater function is OK.

NO >> Refer to <u>SE-116</u>, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE: Diagnosis Procedure

INFOID:0000000004746971

1. CHECK SEATBACK HEATER

Turn ignition switch OFF.

- 2. Disconnect seatback heater connector.
- Check resistance between seatback heater terminals.

	Seatback heater		0	Resistance
Connector	Terr	minal	Condition	(Ω) (Approx.)
B542	1	2	When heat sensor temperature is 20°C (68°F)	4.0 – 4.7

NOTE:

Resistance value changes according to temperature.

Is the inspection result normal?

YES >> Replace seat cushion heater. Refer to <u>SE-223, "Exploded View"</u>.

NO >> Replace seatback heater. Refer to SE-223, "Exploded View".

PASSENGER SIDE

PASSENGER SIDE: Description

INFOID:0000000004746972

Warms the seat cushion.

PASSENGER SIDE: Component Function Check

INFOID:0000000004746973

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 >> Seatback heater function is OK.

NO >> Refer to <u>SE-116</u>, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000004746974

1. CHECK SEATBACK HEATER

- Turn ignition switch OFF.
- Disconnect seatback heater connector.
- Check resistance between seatback heater terminals.

SEATBACK HEATER

< DTC/CIRCUIT DIAGNOSIS >

Seatback heater		•	0	Resistance	
Connector	Terr	minal	Condition	(Ω) (Approx.)	
B582	1	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-223, "Exploded View"</u>.

NO >> Replace seatback heater. Refer to <u>SE-223, "Exploded View"</u>.

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HEATED SEAT SWITCH INDICATOR

< DTC/CIRCUIT DIAGNOSIS >

HEATED SEAT SWITCH INDICATOR

DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000004746975

Illuminates the indicator that indicates the operating status of heated seat.

DRIVER SIDE: Component Function Check

INFOID:0000000004746976

1. CHECK FUNCTION

Check that the related indicator lamp illuminates when heated seat switch is set to ON.

Is the inspection result normal?

YES >> Heated seat switch indicator function is OK.

NO >> Refer to <u>SE-118</u>, "<u>DRIVER SIDE</u>: <u>Diagnosis Procedure</u>".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000004746977

1.CHECK HEATED SEAT SWITCH INDICATOR GROUND CIRCUIT

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

Heated s	eat switch		Continuity	
Connector	Connector Terminal		Continuity	
A/T models: M141 M/T models: M175	6	Ground	Existed	

Is the inspection result normal?

YES >> Replace heated seat switch. Refer to <u>SE-256, "Removal and Installation"</u>.

NO >> Repair or replace harness.

PASSENGER SIDE

PASSENGER SIDE: Description

INFOID:0000000004746978

Illuminates the indicator that indicates the operating status of heated seat.

PASSENGER SIDE: Component Function Check

INFOID:0000000004746979

1. CHECK FUNCTION

Check that the related indicator lamp illuminates when heated seat switch is set to ON.

Is the inspection result normal?

YES >> Heated seat switch indicator function is OK.

NO >> Refer to SE-118, "PASSENGER SIDE: Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000004746980

1.check heated seat switch indicator ground circuit

- 1. Turn ignition switch OFF
- Disconnect heated seat switch connector.
- Check continuity between heated seat switch harness connector and ground.

Heated seat switch		Continuity
Connector Term	al Ground	Continuity
A/T models: M142 M/T models: M176		Existed

Is the inspection result normal?

HEATED SEAT SWITCH INDICATOR

< DTC/CIRCUIT DIAGNOSIS >

YES >> Replace heated seat switch. Refer to <u>SE-256, "Removal and Installation"</u>.
NO >> Repair or replace harness.

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CLIMATE CONTROLLED SEAT SWITCH

< DTC/CIRCUIT DIAGNOSIS >

CLIMATE CONTROLLED SEAT SWITCH

Description INFOID:000000004747453

Installed in the center console and transmits signals to climate controlled seat control unit in accordance with the HEAT or COOL switch operation and the temperature switch operation.

Component Function Check

INFOID:0000000004747454

1. CHECK FUNCTION

Check that climate controlled seat activates when operating climate controlled seat control switch.

Is the inspection result normal?

YES >> Climate controlled seat switch is OK.

NO >> Refer to <u>SE-120, "Diagnosis Procedure"</u>.

Diagnosis Procedure

INFOID:0000000004747455

1. CHECK CLIMATE CONTROLLED SEAT CONTROL UNIT INPUT SIGNAL

- 1. Turn ignition switch ON.
- 2. Check voltage between climate controlled seat control unit harness connector and ground.

(-	(+)					Voltage (V)
Climate controlle	d seat cor	ntrol unit	(-)	Condition		Voltage (V) (Approx.)
Connector	Connector Terminal					, , ,
Driver side B6					LO COOL	0.8 - 1.5
		92		Climate controlled seat	MID COOL	1.6 - 2.5
		92		switch	HI COOL	2.6 - 4.2
	B607				0	
	B007				LO HEAT	0.8 - 1.5
	91	01		Climate controlled seat switch	MID HEAT	1.6 - 2.5
		91	Ground		HI HEAT	2.6 - 4.2
					OFF	0
		92		Climate controlled seat	LO COOL	0.8 - 1.5
					MID COOL	1.6 - 2.5
				switch	HI COOL	2.6 - 4.2
Passangar sida	B627				OFF	0
Passenger side	5021				LO HEAT	0.8 - 1.5
		91		Climate controlled seat	MID HEAT	1.6 - 2.5
		91		switch	HI HEAT	2.6 - 4.2
					OFF	0

Is the inspection result normal?

YES >> Climate controlled seat switch circuit is OK.

NO-1 >> HEAT or COOL mode is NG:GO TO 2.

NO-2 >> HEAT and COOL modes are NG: GO TO 3.

2.CHECK CLIMATE CONTROLLED SEAT SWITCH CIRCUIT

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

CLIMATE CONTROLLED SEAT SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Climate controlled seat switch				Climate cotrolled seat control unit		Continuity
Connector			Terminal	Connector	Terminal	Continuity
Driver side	COOL	M177	2	B607	92	
Driver side	HEAT	101177	3	- DOU/	91	Eviated
Daggarayaida	COOL	M470	2	DCOZ	92	Existed
Passenger side	HEAT	M178	3	B627	91	l

4. Check continuity between climate controlled seat switch harness connector and ground.

	Climate control	led seat switch		Continuity	
Connector			Terminal		Continuity
Driver side	COOL	M177	2	Ground	Not existed
	HEAT	IVIII	3		
Passangar sida	COOL	M178	2		
Passenger side	HEAT	IVII/O	3		

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

3.CHECK CLIMATE CONTROLLED SEAT SWITCH POWER SUPPLY

- Turn ignition switch OFF.
- 2. Disconnect climate controlled seat switch connector.
- Turn ignition switch ON.
- 4. Check voltage between climate controlled seat switch harness connector and ground.

(+	+)	(-)	Voltage (V) (Approx.)	
Climate control	led seat switch			
Connector	Terminal		(+	
Driver side	M177	1	Ground	Pattony voltage
Passenger side	M178	1	Giodila	Battery voltage

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

4. CHECK CLIMATE CONTROLLED SEAT SWITCH POWER SUPPLY CIRCUIT

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

Climate	controlled seat swit	ch	Climate cotrolle	Continuity		
Connec	Connector		Connector	Terminal	Continuity	
Driver side	M177	1	B607	94	Existed	
Passenger side	M178	1	B627	94	Existed	

4. Check continuity between climate controlled seat switch harness connector and ground.

Climate	controlled seat swit	ch		Continuity	
Connector		Terminal	Ground	Continuity	
Driver side	M177	1	Giodila	Not existed	
Passenger side	M178	1		Not existed	

Is the inspection result normal?

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CLIMATE CONTROLLED SEAT SWITCH

< DTC/CIRCUIT DIAGNOSIS >

YES >> Replace climate controlled seat control unit. Refer to SE-235, "Disassembly and Assembly".

NO >> Repair or replace harness.

5. CHECK CLIMATE CONTROLLED SEAT SWITCH

Check climate controlled seat switch.

Refer to SE-122, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace climate controlled seat switch. Refer to <u>SE-257</u>, "Removal and Installation".

6. CHECK INTERMITTENT INCIDENT

Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000004747456

1. CHECK CLIMATE CONTROLLED SEAT SWITCH

- 1. Turn ignition OFF.
- 2. Disconnect climate controlled seat switch connector.
- 3. Check climate controlled seat switch terminals.

Climate controlle	d seat switch	Terr	minal	Condition			Continuity
		2		Climate controlled seat	COOL mode	ON	Existed
Driver eide		2	4		COOL mode	OFF	Not existed
Driver side M177	3	1	switch	HEAT mode	ON	Existed	
		3			TILAT IIIOGE	OFF	Not existed
				Climate controlled seat switch	COOL mode	ON	Existed
Daggaraida	M178	2				OFF	Not existed
Passenger side	IVI I / O		1			ON	Existed
		3	3	3		HEAT mode	OFF

Is the inspection result normal?

YES >> Climate controlled seat switch is OK.

NO >> Replace climate controlled seat switch. Refer to <u>SE-257</u>, "Removal and Installation".

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SEATBACK THERMAL ELECTRIC DEVICE

< DTC/CIRCUIT DIAGNOSIS >

SEATBACK THERMAL ELECTRIC DEVICE

Description INFOID:0000000004747457

Installed in the seatback backside and heats or cools the airflow from the climate controlled seat blower motor in accordance with the control from the climate controlled seat control unit.

Component Function Check

1. CHECK FUNCTION

Checks whether or not the temperature of the seatback thermal electric device changes in accordance with the HEAT or COOL switch operation of the climate controlled seat control switch.

Is the inspection result normal?

YES >> Seatack thermal device function is OK.

>> Refer to SE-123, "Diagnosis Procedure". NO

Diagnosis Procedure

1. CHECK SEATBACK THERMAL ELECTRIC DEVICE SIGNAL

Turn ignition switch ON.

2. Check voltage between seatback thermal electric device harness connector and ground.

(+) Seatback thermal electric device		(–)	C	Condition	Voltage (V) (Approx.)	
Connec	ctor	Terminal				, , , ,
		88			HEAT and COOL	0 - battery voltage*
Driver eide	B602	88	Ground C	Climate con-	Other than above	0
Driver side B602	D002	85		trolled seat switch	HEAT and COOL	0 - battery voltage*
				Crawad	Other than above	0
		88			HEAT and COOL	0 - battery voltage*
Daggangar aida	B622			Climate con- trolled seat	Other than above	0
Passenger side	D022	85		switch	HEAT and COOL	0 - battery voltage*
		65			Other than above	0

^{*:} It changes between battery voitage or 0V

NOTE:

Wait 1 minute or more after the activation start, and then start the measurement.

Is the inspection result normal?

YES >> Replace seatback thermal electric device.

NO >> GO TO 2.

2.CHECK SEATBACK THERMAL ELECTRIC DEVICE CIRCUIT

Turn ignition switch OFF.

- Disconnect climate controlled seat control unit connector and seatback thermal electric device connector.
- Check continuity between climate controlled seat control unit harness connector and seatback thermal electric device harness connector.

Climate controlled seat control unit		Seatback therm	Continuity			
Со	nnector	Terminal	Connector	Terminal	Continuity	
Driver side B606	B606	88	B602	88	Existed	
Driver side	B000	85	B002	85		
Passenger side B	B626	88	B622	88	Existed	
	В020	85	B022	85	1	

Check continuity between climate controlled seat control unit harness connector and ground.

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SEATBACK THERMAL ELECTRIC DEVICE

< DTC/CIRCUIT DIAGNOSIS >

Climate controlled seat control unit				Continuity
Connector		Terminal		Continuity
Driver side B606	B606	88	Ground	
Driver side	Вооо	85	Giouna	Not existed
Passenger side B626	Dege	88		Not existed
	D020	85	_	

Is the inspection result normal?

YES >> Replace climate controlled seat control unit. Refer to <u>SE-235, "Disassembly and Assembly"</u>.

NO >> Repair or replace harness.

SEATBACK THERMAL ELECTRIC DEVICE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

SEATBACK THERMAL ELECTRIC DEVICE SENSOR

Description INFOID:000000004747460

Measures seatback temperature.

Diagnosis Procedure

INFOID:0000000004747461

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1. CHECK SEATBACK THERMAL ELECTRIC DEVICE SENSOR CIRCUIT

- 1. Turn ignition switch ON.
- 2. Check voltage between climate controlled seat control unit harness connector and ground.

(+)					Voltage (V) (Approx.)	
Climate controlled seat control unit			(–) Cond	Condition		
Connector Terminal		Terminal			(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Driver side	B608	105	Ground	Climate controlled seat	1 - 5	
Passenger side	B628	103	Giouria	operated	1 - 5	

Is the inspection result normal?

YES >> Seatback thermal electric device sensor circuit is OK.

NO >> GO TO 2.

2.CHECK SEATBACK THERMAL ELECTRIC DEVICE SENSOR HARNESS

- 1. Turn ignition switch OFF.
- 2. Disconnect climate controlled seat control unit connector and seatback thermal electric device connector.
- 3. Check continuity between climate controlled seat control unit harness connector and seatback thermal electric device harness connector.

Climate controlled seat control unit			Seatback therm	Continuity	
Connector		Terminal	Connector	Terminal	Continuity
Driver side B6	B608	105	B602	105	Existed
	D000	104	B002	104	
Passenger side	B628	105	B622	105	
	B028	104	B022	104	

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

Clin	nate controlled seat contro		Continuity		
Connector		Terminal		Continuity	
Driver side	B608	105	Ground		
	D000	104	Ground	Not existed	
Passenger side	B628	105			
	D020	104	1		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3. CHECK SEATBACK THERMAL ELECTRIC DEVICE SENSOR

Check resistance between seatback thermal electric device connector.

Seatback thermal electric device		т-	Resistance	
Connector		Terminal		(K Ω) (Approx.)
Driver side	B602	105	104	1
Passenger side	B622	105	104	

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SEATBACK THERMAL ELECTRIC DEVICE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

- YES >> Replace climate controlled seat control unit. Refer to <u>SE-235</u>, "<u>Disassembly and Assembly</u>".
- NO >> Replace seatback thermal electric device.

SEAT CUSHION THERMAL ELECTRIC DEVICE

< DTC/CIRCUIT DIAGNOSIS >

SEAT CUSHION THERMAL ELECTRIC DEVICE

Description INFOID:0000000004747462

Installed in the seat cushion backside and heats or cools the airflow from the climate controlled seat blower motor in accordance with the control from the climate controlled seat control unit.

Component Function Check

INFOID:0000000004747463

1. CHECK FUNCTION

Checks whether or not the temperature of the seatback thermal electric device changes in accordance with the HEAT or COOL switch operation of the climate controlled seat control switch.

Is the inspection result normal?

YES >> Seatack thermal device function is OK.

NO >> Refer to <u>SE-123. "Diagnosis Procedure"</u>.

Diagnosis Procedure

INFOID:0000000004747464

1. CHECK SEAT CUSHION THERMAL ELECTRIC DEVICE SIGNAL

Turn ignition switch ON.

2. Check voltage between seat cushion thermal electric device harness connector and ground.

(+) Seat cushion thermal electric device		(–) C		Condition	Voltage (V) (Approx.)		
Connec	ctor	Terminal					
		87	0.7		HEAT and COOL	0 - battery voltage*	
Driver eide			Other than above	0			
Driver side	B603	86		trolled seat switch	HEAT and COOL	0 - battery voltage*	
			0	en un d	Other than above	0	
		87	Ground		HEAT and COOL	0 - battery voltage*	
Daggarayaida	B623			Climate con- trolled seat	Other than above	0	
Passenger side	D023	86		switch	HEAT and COOL	0 - battery voltage*	
					Other than above	0	

^{*:}It changes between battery voitage or 0V

NOTE:

Wait 1 minute or more after the activation start, and then start the measurement.

Is the inspection result normal?

YES >> Replace seat cushion thermal electric device.

NO >> GO TO 2.

2.check seat cushion thermal electric device circuit

Turn ignition switch OFF.

- Disconnect climate controlled seat control unit connector and seat cushion thermal electric device connector
- Check continuity between climate controlled seat control unit harness connector and seat cushion thermal electric device harness connector.

Climate controlled seat control unit			Seat cushion ther	Continuity		
Connector		Terminal	Connector	Terminal	Continuity	
Driver side	B606	87	B603	87		
	D000	86	D003	86	Existed	
Passenger side	B626	87	B623	87	Existed	
	5020	86	5023	86	1	

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SEAT CUSHION THERMAL ELECTRIC DEVICE

< DTC/CIRCUIT DIAGNOSIS >

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

Cli	mate controlled seat co	ntrol unit		Continuity
Connector		Terminal		Continuity
Driver side B6	B606	87	Ground	
Driver side	Вооб	86	- Ground	Not existed
Passenger side B626	Pege	87		Not existed
	B020	86		

Is the inspection result normal?

YES >> Replace climate controlled seat control unit. Refer to <u>SE-235, "Disassembly and Assembly"</u>.

NO >> Repair or replace harness.

SEAT CUSHION THERMAL ELECTRIC DEVICE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

SEAT CUSHION THERMAL ELECTRIC DEVICE SENSOR

Description INFOID:000000004747465

Measures seat cushion temperature.

Diagnosis Procedure

INFOID:0000000004747466

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1. CHECK SEAT CUSHION THERMAL ELECTRIC DEVICE SENSOR CIRCUIT

- 1. Turn ignition switch ON.
- 2. Check voltage between climate controlled seat control unit harness connector and ground.

(+)					Voltage (V) (Approx.)	
Climate controlled seat control unit			(–)	Condition		
Connec	Connector Termin				(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Driver side	B608	103	Ground	Climate controlled seat operated	1 - 5	
Passenger side	B628	103	Giodila	Climate controlled seat operated	1-3	

Is the inspection result normal?

YES >> Seat cushion thermal electric device sensor circuit is OK.

NO >> GO TO 2.

2.CHECK SEAT CUSHION THERMAL ELECTRIC DEVICE SENSOR HARNESS

- Turn ignition switch OFF.
- Disconnect climate controlled seat control unit connector and seat cushion thermal electric device connector.
- 3. Check continuity between climate controlled seat control unit harness connector and seat cushion thermal electric device harness connector.

Climate controlled seat control unit			Seat cushion ther	Continuity		
Connector		Terminal	Connector	Terminal		
Driver side	B608	103	B603	103		
Driver side	B000	102	B003	102	Existed	
Passenger side	B628	103	B623	103	Existed	
	D020	102	B023	102		

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

Cli	mate controlled seat co	ntrol unit		Continuity	
Connector		Terminal		Continuity	
Driver side B6	B608	103	Ground		
Driver side	B000	102	- Ground	Not existed	
Passenger side B628	D620	103		Not existed	
	B028	102			

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK SEAT CUSHION THERMAL ELECTRIC DEVICE SENSOR

Check resistance between seat cushion thermal electric device connector.

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SEAT CUSHION THERMAL ELECTRIC DEVICE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

Seat cushion thermal electric device Connector		T	1	Resistance (KΩ) (Approx.)	
		Termir	าลเ		
Driver side	B603	102	103	1	
Passenger side	B623	102	103	I I	

Is the inspection result normal?

YES >> Replace climate controlled seat control unit. Refer to <u>SE-234, "Removal and Installation"</u>.

NO >> Replace seat cushion thermal electric device.

CLIMATE CONTROLLED SEATBACK BLOWER MOTOR

< DTC/CIRCUIT DIAGNOSIS >

CLIMATE CONTROLLED SEATBACK BLOWER MOTOR

Description

INFOID:0000000005106257

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Sends air flow to the seatback.

Component Function Check

INFOID:0000000005106258

1. CHECK FUNCTION

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When turning the climate controlled seat switch to the HEAT and COOL mode position, check that the climate controlled seatback blower is operated in each specific mode.

Is the inspection result normal?

YES >> Climate controlled seatback blower motor is OK.

NO >> Refer to <u>SE-134, "Diagnosis Procedure"</u>.

Diagnosis Procedure

INFOID:0000000005106259

1. CHECK CLIMATE CONTROLLED SEATBACK BLOWER MOTOR POWER SUPPLY

Turn ignition switch ON.

2. Check voltage between climate controlled seatback blower motor harness connector and ground.

(+) Climate controlled seatback blower motor		(–)	Condition	on	Voltage (V) (Approx.)	
Connector Terminal		Terminal				
Driver side B604		99		011 1 1 1	HEAT mode	Battery voltage
	B604			Ground Climate controlled seat switch Climate controlled seat switch	COOL mode	Dattery voltage
			Ground		Other than above	0
Passenger side B624		B624	Ground		HEAT mode	- Battery voltage
	B624				COOL mode	Dattery voltage
					Other than above	0

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

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2.CHECK CLIMATE CONTROLLED BLOWER MOTOR POWER SUPPLY CIRCUIT

Turn ignition switch OFF.

- Disconnect climate controlled blower motor connector and climate controlled seat control unit connector.
- 3. Check continuity between climate controlled seatback blower motor harness connector and climate controlled seat control unit harness connector.

Climate controlled seatback blower motor			Climate controlle	Continuity		
Connector		Terminal	Connector Terminal		Continuity	
Driver side	B604	99	B608	00	Existed	
Passenger side	B624	99	B628	99		

4. Check continuity between climate controlled seatback blower motor harness connector and ground.

Climat	e controlled seatback b	lower motor		Continuity	
Connector		Terminal	Ground	Continuity	
Driver side	B604	99	Ground	Not existed	
Passenger side	B624	99		inot existed	

Is the inspection result normal?

YES >> Replace climate controlled seat control unit. Refer to SE-235, "Disassembly and Assembly".

NO >> Repair or replace harness.

CLIMATE CONTROLLED SEATBACK BLOWER MOTOR

< DTC/CIRCUIT DIAGNOSIS >

3.CHECK CLIMATE CONTROLLED SEATBACK BLOWER MOTOR SPEED CONTROL SIGNAL

Check voltage between climate controlled seatback blower motor harness connector and ground.

(+) Climate controlled seatback blower motor		(–)	Condition		Voltage (V) (Approx.)	
Connector		Terminal				(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	B604	96	Ground	Climate controlled seat	HEAT mode	7.5 - 8
Driver side					LO COOL	6.5
					MID COOL	8
Passenger side	B624				HI COOL	12
					Other than above	0

Is the inspection result normal?

YES >> GO TO 5. NO >> GO TO 4.

4. CHECK CLIMATE CONTROLLED SEATBACK BLOWER MOTOR SPEED CONTROL SIGNAL CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect climate controlled seatback blower motor connector and climate controlled seat control unit connector.
- Check continuity between climate controlled seatback blower motor harness connector and climate controlled seat control unit harness connector.

Climate	e controlled seatback t	olower motor	Climate controlle	Continuity		
Connector		Terminal	Connector Terminal		Continuity	
Driver side	B604	96	B608	96	Existed	
Passenger side	B624	90	B628	90		

4. Check continuity between climate controlled seatback blower motor harness connector and ground.

Climate controlled seatback blower motor				Continuity	
Co	Connector		Ground	Continuity	
Driver side	B604	96	Giouna	Not existed	
Passenger side	B624	90		NOT EXISTED	

Is the inspection result normal?

YES >> Replace climate controlled seat control unit. Refer to <u>SE-235, "Disassembly and Assembly"</u>.

NO >> Repair or replace harness.

5.check climate controlled seatback blower motor ground circuit

- 1. Turn ignition switch OFF.
- 2. Disconnect climate controlled seatback blower motor and climate controlled seat control unit connector.
- Check continuity between climate controlled seatback blower motor harness connector and climate controlled seat control unit harness connector.

Climate controlled seatback blower motor			Climate controlle	Continuity	
Со	nnector	Terminal	Connector	Connector Terminal	
Driver side	B604	98 B608		98	Existed
Passenger side	B624	36	B628	36	Existed

4. Check continuity between climate controlled seatback blower motor harness connector and ground.

CLIMATE CONTROLLED SEATBACK BLOWER MOTOR

< DTC/CIRCUIT DIAGNOSIS >

Climate controlled seatback blower motor				Continuity
Connector		Terminal	Ground	Continuity
Driver side	B604	98	Ground	Not existed
Passenger side	B624	90		Not existed

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

6. CHECK CLIMATE CONTROLLED SEATBACK BLOWER MOTOR GROUND

- 1. Connect climate controlled seat control unit connector.
- 2. Check continuity between climate controlled seatback blower motor harness connector and ground.

Climate controlled seat control unit				Continuity	
Connector		Terminal	Ground	Continuity	
Driver side	B608	98	Giouna	Existed	
Passenger side	B628	90		Existed	

Is the inspection result normal?

YES >> Replace climate controlled seatback blower motor. Refer to <u>SE-235, "Disassembly and Assembly"</u>.

NO >> Replace climate controlled seat control unit. Refer to <u>SE-235</u>, "<u>Disassembly and Assembly</u>".

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CLIMATE CONTROLLED SEAT CUSHION BLOWER MOTOR

< DTC/CIRCUIT DIAGNOSIS >

CLIMATE CONTROLLED SEAT CUSHION BLOWER MOTOR

Description

Sends air flow to the seat cushion.

Component Function Check

INFOID:0000000005106261

1. CHECK FUNCTION

When turning the climate controlled seat switch to the HEAT and COOL mode position, check that the climate controlled seat cushion blower is operated in each specific mode.

Is the inspection result normal?

YES >> Climate controlled seat cushion blower motor is OK.

NO >> Refer to <u>SE-134, "Diagnosis Procedure"</u>.

Diagnosis Procedure

INFOID:0000000005106262

1. CHECK CLIMATE CONTROLLED SEAT CUSHION BLOWER MOTOR POWER SUPPLY

- Turn ignition switch ON.
- 2. Check voltage between climate controlled seat cushion blower motor harness connector and ground.

(+) Climate controlled seat cushion blower motor		(–)	Condition	on	Voltage (V) (Approx.)	
Conne	ctor	Terminal				(
				HEAT mode	Battery voltage	
Driver side	B605	101	Ground	Climate controlled seat switch	COOL mode	Dattery Voltage
					Other than above	0
				Climate controlled seat switch	HEAT mode	Battery voltage
Passenger side E	B625				COOL mode	Dattery voltage
					Other than above	0

Is the inspection result normal?

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

2.CHECK CLIMATE CONTROLLED BLOWER MOTOR POWER SUPPLY CIRCUIT

- Turn ignition switch OFF.
- Disconnect climate controlled blower motor connector and climate controlled seat control unit connector.
- Check continuity between climate controlled seat cushion blower motor harness connector and climate controlled seat control unit harness connector.

Climate controlled seat cushion blower motor			Climate controlle	Continuity		
Со	nnector	Terminal	Connector Terminal		Continuity	
Driver side	B605	101	B608	101	Existed	
Passenger side	B625	101	B628	101		

4. Check continuity between climate controlled seat cushion blower motor harness connector and ground.

Climate controlled seat cushion blower motor				Continuity	
Connector		Terminal	Ground	Continuity	
Driver side	B605	101	Giodila	Not existed	
Passenger side	B625	101			

Is the inspection result normal?

YES >> Replace climate controlled seat control unit. Refer to <u>SE-235</u>, "Disassembly and Assembly".

NO >> Repair or replace harness.

CLIMATE CONTROLLED SEAT CUSHION BLOWER MOTOR

< DTC/CIRCUIT DIAGNOSIS >

3.CHECK CLIMATE CONTROLLED SEAT CUSHION BLOWER MOTOR SPEED CONTROL SIGNAL

Check voltage between climate controlled seat cushion blower motor harness connector and ground.

(+) Climate controlled seat cushion blower motor		(-)	Condition	on	Voltage (V) (Approx.)	
Connector Terr		Terminal				, , ,
					HEAT mode	7.5 - 8
Driver side	B605	97	Ground	Climate controlled seat	LO COOL	6.5
					MID COOL	8
Passenger side	B625				HI COOL	12
					Other than above	0

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

4. CHECK CLIMATE CONTROLLED SEAT CUSHION BLOWER MOTOR SPEED CONTROL SIGNAL CIR-CUIT

- Turn ignition switch OFF.
- 2. Disconnect climate controlled seat cushion blower motor connector and climate controlled seat control unit connector.
- Check continuity between climate controlled seat cushion blower motor harness connector and climate controlled seat control unit harness connector.

Climate controlled seat cushion blower motor			Climate controlle	Continuity		
Co	nnector	Terminal	Connector Terminal		Continuity	
Driver side	B605	97	B608	97	Existed	
Passenger side	B625	31	B628	31	Existed	

Check continuity between climate controlled seat cushion blower motor harness connector and ground.

Climate controlled seat cushion blower motor				Continuity	
Connector		Terminal	Ground	Continuity	
Driver side	B605	07	Ground	Not existed	
Passenger side	B625	97		Not existed	

Is the inspection result normal?

YES >> Replace climate controlled seat control unit. Refer to <u>SE-235, "Disassembly and Assembly"</u>.

NO >> Repair or replace harness.

5.CHECK CLIMATE CONTROLLED SEAT CUSHION BLOWER MOTOR GROUND CIRCUIT

- Turn ignition switch OFF.
- Disconnect climate controlled seat cushion blower motor and climate controlled seat control unit connector.
- 3. Check continuity between climate controlled seat cushion blower motor harness connector and climate controlled seat control unit harness connector.

Climate controlled seat cushion blower motor			Climate controlle	Continuity		
Co	onnector	Terminal	Connector Terminal		Continuity	
Driver side	B605	98	B608	98	Existed	
Passenger side	B625	30	B628	30		

4. Check continuity between climate controlled seat cushion blower motor harness connector and ground.

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CLIMATE CONTROLLED SEAT CUSHION BLOWER MOTOR

< DTC/CIRCUIT DIAGNOSIS >

Climate controlled seat cushion blower motor				Continuity	
Co	Connector		Ground	Continuity	
Driver side	B605	O.S.	Ground	Not existed	
Passenger side	B625	98		NOT EXISTED	

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

6. CHECK CLIMATE CONTROLLED SEAT BLOWER MOTOR GROUND

- 1. Connect climate controlled seat control unit connector.
- 2. Check continuity between climate controlled seat cushion blower motor harness connector and ground.

Climate controlled seat cushion blower motor		wer motor		Continuity		
	Connector	Terminal	Ground	Continuity		
Driver side	B605	00	Giouna	Existed		
Passenger side	B625	98		Existed		

Is the inspection result normal?

YES >> Replace climate controlled seat cushion blower motor. Refer to <u>SE-235, "Disassembly and Assembly"</u>.

NO >> Replace climate controlled seat control unit. Refer to SE-235, "Disassembly and Assembly".

CLIMATE CONTROLLED SEAT SWITCH INDICATOR

< DTC/CIRCUIT DIAGNOSIS >

CLIMATE CONTROLLED SEAT SWITCH INDICATOR

• Turns ON the indicator that indicates the operating status of climate controlled seat HEAT or COOL mode.

Component Function Check

1. CHECK FUNCTION

Description

Check that the related indicator lamp illuminates when climate controlled seat switch is set to HEAT or COOL mode.

Is the inspection result normal?

YES >> Climate controlled seat switch indicator function is OK.

NO >> Refer to SE-137, "Diagnosis Procedure".

Diagnosis Procedure

1. CHECK CLIMATECONTROLLED SEAT SWITCH GROUND CIRCUIT

- Turn ignition switch OFF.
- Disconnect climate controlled seat switch connector.
- 3. Check continuity between climate controlled seat switch harness connector and ground.

Climate controlled seat switch			Continuity			
Co	onnector	Terminal	Ground	Continuity		
Driver side	M177	6	Ground	Existed		
Passenger side	M178	6		Existed		

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

2.CHECK CLIMATE CONTROLLED SEAT CONTROL UNIT OUTPUT SIGNAL

- Turn ignition switch ON.
- Check voltage between climate controlled seat control unit harness connector and ground.

	(+)					V 16 00	
Climate controlled seat control unit		(–)	Condition		Voltage (V) (Approx.)		
Connector Terminal		Terminal				(
		95	Ground	Climate controlled seat	HEAT mode	Battery voltage	
Driver side	B608				OFF	0	
Driver side	D000	100			COOL mode	Battery voltage	
					OFF	0	
		95		Climate controlled seat	HEAT mode	Battery voltage	
Passenger side	B628				OFF	0	
	D020	100		Cimate controlled Seat	COOL mode	Battery voltage	
					OFF	0	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace climate controlled seat control unit. Refer to SE-235, "Disassembly and Assembly".

3. CHECK CLIMATE CONTROLLED SEAT SWITCH INDICATOR CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect climate controlled seat control unit connector.
- Check continuity between climate controlled seat switch harness connector and climate controlled seat control unit harness connector.

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CLIMATE CONTROLLED SEAT SWITCH INDICATOR

< DTC/CIRCUIT DIAGNOSIS >

Climate controlled seat switch Connector Terminal		Climate controlled seat control unit		Continuity		
		Terminal Connector		Terminal	Continuity	
Driver side M177	N477	4	B608	100		
	IVI I / /	5		95	Eviated	
Passenger side N	M470	4	B628	100	Existed	
	IVI I 7 8	M178 5		95		

4. Check continuity between climate controlled seat switch harness connector and ground.

	Climate controlled seat switch			Continuity		
Co	onnector	Terminal		Continuity		
Driver side M177	4	Ground				
	IVIII	5	Giouria	Not existed		
Passenger side M178	M170	4		NOT EXISTED		
	IVI I / O	5				

Is the inspection result normal?

YES >> Replace climate controlled seat switch. Refer to <u>SE-257</u>, "Removal and Installation".

NO >> Repair or replace harness.

CLIMATE CONTROLLED SEAT BLOWER FILTER

< DTC/CIRCUIT DIAGNOSIS >

CLIMATE CONTROLLED SEAT BLOWER FILTER SEATBACK BLOWER MOTOR

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SEATBACK BLOWER MOTOR : Diagnosis Procedure

INFOID:0000000004747474

1. CHECK CLIMATE CONTROLLED SEATBACK BLOWER FILTER

Remove climate controlled seatback blower motor filter and check that there is no clogging by dirt or foreign matters.

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace climate controlled seatback blower filter. Refer to <u>SE-258, "SEATBACK : Removal and Installation"</u>.

SEAT CUSHION BLOWER MOTOR

SEAT CUSHION BLOWER MOTOR: Diagnosis Procedure

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1. CHECK CLIMATE CONTROLLED SEAT CUSHION BLOWER FILTER

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INFOID:0000000005107869

Remove climate controlled seat cushion blower motor filter and check that there is no clogging by dirt or foreign matters.

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace climate of

>> Replace climate controlled seat cushion blower filter. Refer to <u>SE-258, "SEAT CUSHION:</u> Removal and Installation".

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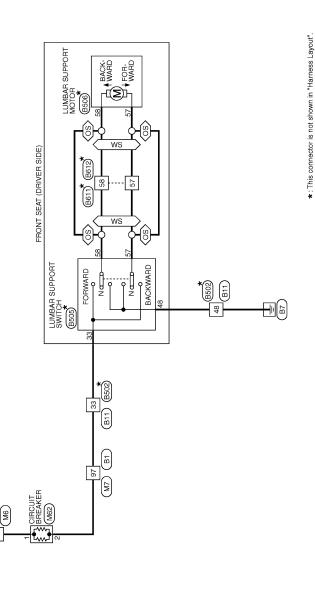
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LUMBAR SUPPORT

Wiring Diagram - LUMBAR SUPPORT -

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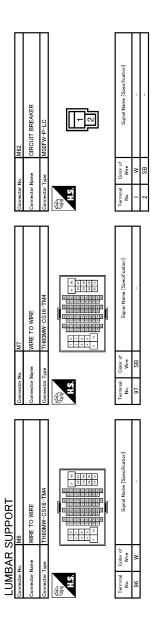
LUMBAR SUPPORT

LZ/Z0/600Z JCJWA0975GB

LUMBAR SUPPORT

	2		8		Α
BS05 UMBAR SUPPORT SWITCH NS04FW-CS SS 57 48 SS	Signal Name (Saverification)	TO WRE	Signal Name (Seperification)		В
o o o		# H H WI R E H B 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Opior of Wree W		С
	8	Connector No. Connector Type H.S.	Terminal Co No. 96 96 96 96 96 96 96 9		D
	tool		tenl		Е
RE S S S S S S S S S S S S S S S S S S S	Signal Name ISsandireation)	RE SS 1 57 58 31 16 30	Signal Name (Severification)		F
8602 WIRE TO W NISIGNIW-C 19 3 1 ■ 5 66 32		8612 WIRE TO WIRE NS12FBR-CS 36 44	Wire Wire L		G
	A 8 3 3 4 4 8 8 4 8 8 8 8 8 8 8 8 8 8 8 8	Connector No. Connector Type Connector Type H.S.	Cerminal Co		Н
	atori		ation		I
inee	Signal Marries (Sereofroation)	os 44 36 31 9 32 41	Signal Name [Sepecification]		SE
B11 WIRE TO WIRE NS 167W-CS 40 17 60 67 33 21 48	Wer SB BB	B611 WIRE TO WIRE NS12MBR-CS S8 57 ■ 30 16 31	Objec of W	•	
	4 8 3 3 4 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Connector No. Connector Type	7 Certifical Oc. 1 No. 7 5 5 7 5 5 7 5 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9		K
	loon look		luoi		L
TX 44 44 44 44 44 44 44 44 44 44 44 44 44	Signal Name Especification)	BB06 CUMBAR SUPPORT MOTOR COZEW SB 57	Signal Name [Saverfication]		M
MRRE TO W TH80FW-C		LUMBAR SUF			Ν
LUMBAR Connector Num Connector Type Connector Type LLS	No. Wer 97 SB	Connector No. Connector Name Connector Type	Terminal Color of Wra SS Wra SS L		0
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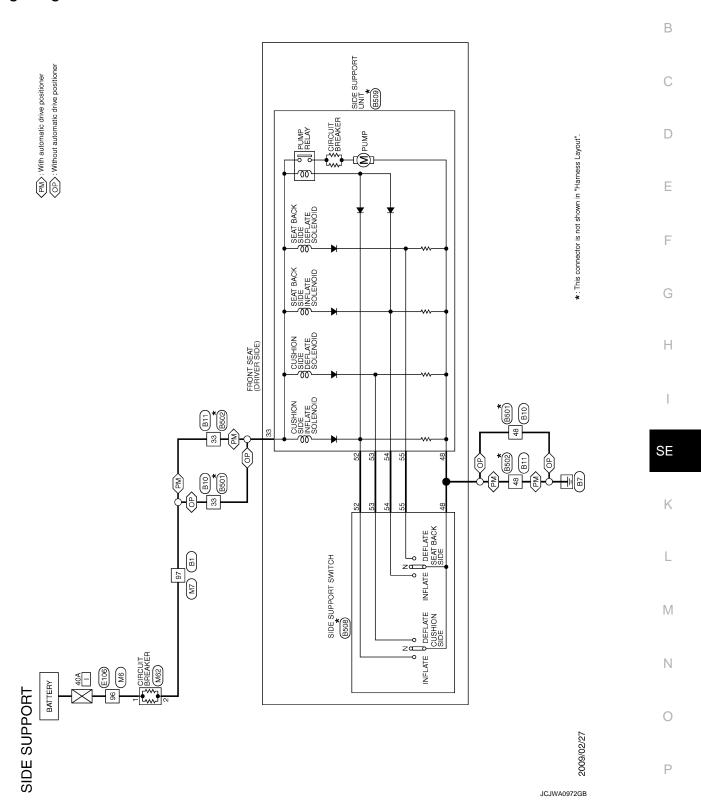
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SIDE SUPPORT

Wiring Diagram - SIDE SUPPORT -



Connector No. 8501	1 3 19 65 5 1	Terminal Color of Signal Name (Specification)	Connector No. E106 Connector No. E106	Signal Name (Specification) Terminal (Dolor of No. With Name (Specification)) Signal Name (Specification) 96 Wr			
Connector No. B11	NS16FW-CS	Terninal Color of Mrs 33 SB B B	Connector No. B509	Terminal Color of No. Wire 33 R	Н	H	24 V/W
Connector No. B10		Terminal Codes of New Signal Name [Sepecification]	Commetter No. B508 Commetter Type (Sp) (Sp)	Terminal Color of Signal Name [Specification] No. Wire Signal Name [Specification]	52 G	Н	- B/I
SIDE SUPPORT Commetter No. B1 MIDE TO WIDE		Terminal Codor of Nord Signal Name [Specification] 97 SB -	Commetter Nume WIRE TO WIRE Commetter Type NISTBAW-CS 19 3 1 1 17 40 5 66 32 48 21 33 67 60	Color of Signal Name [Specification]	48 B -		

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SIDE SUPPORT

M62	M02FW-P-LC		Signal Name [Specification]	1 1
Connector No.	Connector Name	₽ H.S.	Terminal Color of Mire	1 W
M7	WIRE TO WIRE TH80MW-CS16-TM4	\$ 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Signal Name [Specification]	1
Connector No.			al Color of Wire	97 SB
M6	WIRE TO WIRE TH80MW-CS16-TM4		Signal Name [Specification]	1
Connector No.			al Color of Wire	M 96

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< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION

DRIVER SEAT CONTROL UNIT (WITHOUT AUTOMATIC DRIVE POSITIONER)

Reference Value

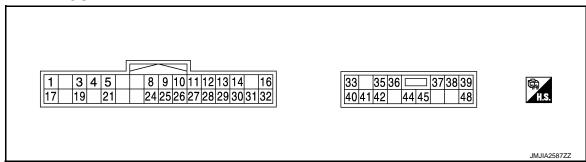
VALUES ON THE DIAGNOSIS TOOL

CONSULT-III MONITOR ITEM

Monitor Item	Con	dition	Value/Status		
SLIDE SW-FR	Cliding quitch (front)	Operate	ON		
SLIDE SW-FK	Sliding switch (front)	Release	OFF		
SLIDE SW-RR	Cliding quitab (roor)	Operate	ON		
SLIDE SW-KK	Sliding switch (rear)	Release	OFF		
FORWARD SW	Seat back	Folded down	ON		
FORWARD SW	Seat back	Other than above	OFF		
WALK-IN SW	Power walk-in switch	Pressed	ON		
WALK-IN SW	Power wark-in switch	Other than above	OFF		
FWD LIMIT SW	Seat sliding	Front edge	ON		
FWD LIMIT SW	Seat sliding	Other than above	OFF		
SEAT BELT SW	Seat belt	Front edge	ON		
SEAT BELL SW	Seat beit	Other than above	OFF		
DETENT SW*1	A/T selector lever	P position	OFF		
DETENT SW	A/T Selector level	Other than above	ON		
PARK BRAKE SW*2	Darking broke	Applied	ON		
PARK BRAKE SW 2	Parking brake	Release	OFF		
		Forward	The numeral value decreases *3		
SLIDE PULSE	Seat sliding	Backward	The numeral value increases *3		
		Other than above	No change to numeral value ^{*3}		

^{*1:} A/T model

TERMINAL LAYOUT



PHYSICAL VALUES

^{*2:} M/T model

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

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description				Voltage (V)
(+)	(-)	Signal name	Input/ Out- put	Cond	dition	(Approx.)
3 (R/Y)	_	CAN-H	_	_	_	_
4	Ground	Sliding limit switch	Input	Seat sliding front e	dge	0
(O/B)	Ground	signal	IIIput	Other than above*		5
_		Seat belt buckle		Ignition switch OFF tened*	and seat belt fas-	5
5 (L)	Ground	switch signal (driver side)	Input	Ignition switch ON leased	and seat belt re-	Battery voltage
				Other than above		0
11 (BR)	Ground	Sliding switch back- ward signal	Input	Sliding switch	Operate (backward)	0
(DIV)		ward signal			Release	Battery voltage
12 (SB)	Ground	Reclining switch backward signal	Input	Reclining switch	Operate (backward)	0
(00)		backward signal	·		Release	Battery voltage
13 (LG/R)	Ground	Lifting switch (front) downward signal	Input	Lifting switch (front)	Operate (downward)	0
(LO/IV)		downward signal			Release	Battery voltage
14 (G/B)	Ground	Lifting switch (rear) downward signal	Input	Lifting switch (rear)	Operate (downward)	0
(0,2)		downward digital		(roar)	Release	Battery voltage
16 (O)	Ground	Sensor power sup- ply	Out- put	_	_	Battery voltage
19 (V)	_	CAN-L	_	_	_	_
24 (R)	Ground	Sliding sensor sig- nal	Input	Seat sliding	Operate	10mSec/div 2V/div JMJIA0119ZZ
					Operate	
26 (Y)	Ground	Sliding switch for- ward signal	Input	Sliding switch	(forward)	0
					Release	Battery voltage
27 (R/G)	Ground	Reclining switch forward 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
(P/L)		upward signal		,	Release	Battery voltage

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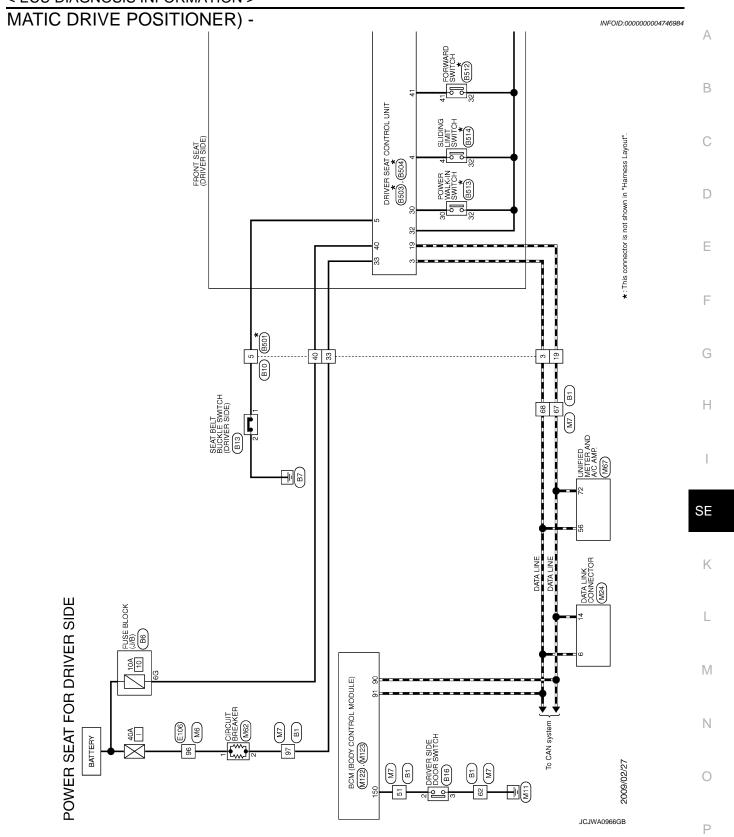
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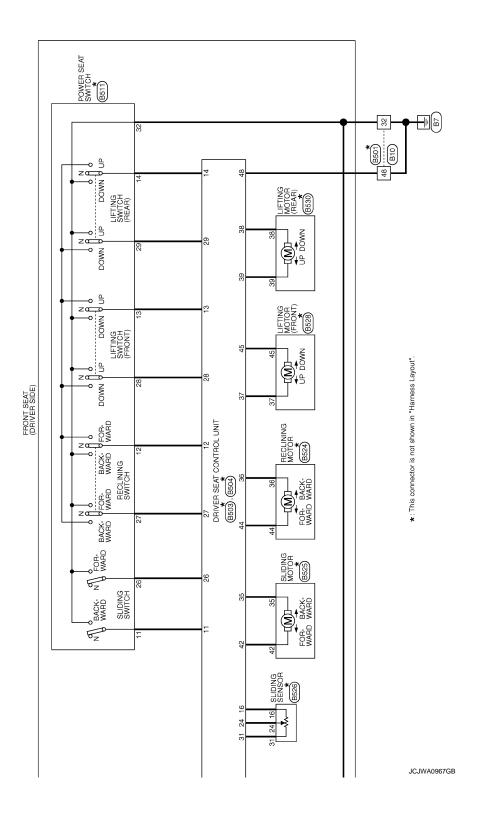
Terminal No. (Wire color)		Description				Voltage (V)	
(+)	(-)	Signal name	Input/ Out- put	Condition		(Approx.)	
30 (P)	Ground	Power walk-in switch signal	Input	Power walk-in switch	Pressed Other than above	0 Battery voltage	
31 (GR)	Ground	Sensor ground	_	-	_	0	
32 (B/W)	Ground	Ground (signal)	_	-	_	0	
33 (R)	Ground	Power source (C/B)	Input	-	_	Battery voltage	
35 (W/R)	Ground	Sliding motor for- ward output	Out-	Seat sliding	Operate (forward)	Battery voltage	
(**/14)		wara output	put		Release	0	
36 (G/Y)	Ground	Reclining motor for- ward output signal	Out-	Seat reclining	Operate (forward)	Battery voltage	
(G/1)		ward output signal	put		Release	0	
37 (G/W)	Ground	Lifting motor (front) downward output	Out-	Seat lifting (front)	Operate (downward)	Battery voltage	
(G/VV)			put		Stop	0	
38 (L/Y)	Ground	Lifting motor (rear) upward output	Out-	Seat lifting (rear)	Operate (upward)	Battery voltage	
(L/1)			put	ut	Stop	0	
39 (R/B)	Ground	Lifting motor (rear) downward output	Out-	Seat lifting (rear)	Operate (downward)	Battery voltage	
(100)		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)	Ground	nal	input	Other than above*		5	
42 (W)	Ground	Sliding motor back- ward output	Out-	Seat sliding	Operate (backward)	Battery voltage	
(۷۷)		waru output	pui		Stop	0	
44 (P)	Ground	Reclining motor backward output	Out-	Seat reclining	Operate (backward)	Battery voltage	
(F)		backwaru output	Put		Stop	0	
45 (L/R)	Ground	Lifting motor (front)	Out-	Seat lifting (front)	Operate (upward)	Battery voltage	
(=/11)		upward output	Put		Stop	0	
48 (B)	Ground	Ground (power)	_	-	_	0	

^{*:} Not in the sleep mode.

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

< ECU DIAGNOSIS INFORMATION >





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(PD) (APD) (А
CCLINING SW (FORWA THE THING SW (UPWA) AR LIFTING SW (UPWA) POWER WALK-IN SW SENSOR GND GND (SIGNAL) GND (SIGNAL)	В
R/G FRQ W/B FRQ R/G	С
22 8 2 2 2 8 2 3 3 3 3 3 3 3 3 3 3 3 3 3	D
NIT	Е
Signal Name Issued CAN-TROL UNITS IN 11/12 12/15/15/15/15/15/15/15/15/15/15/15/15/15/	F
BB603 BB BB BB BB BB BB BB B	G
Course No.	Н
W-CS W-CS 32 3 19 48 60	SE
Connector No. B501 Connector Name WIFE T Connector Type No.	К
	L
E DOOR SWITCH Signal Name [Specification]	M
New Park Still New	Ν
10 of 04 BB	
	0
JCJWA0968GB	Р
	Signature Connector Na. Conn

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< ECU DIAGNOSIS INFORMATION >

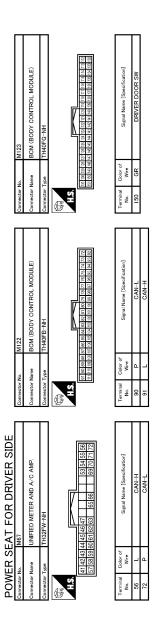
Gonnector No. B512	Connector Name FORWARD SWITCH (DRIVER SIDE) Connector Type S02FW	H.S. 44	Terminal Color of Supul Name [Swerifcation] 20 Whe Supul Name Symul N	Connector No. B525 Connector Name SLIDING MOTOR (DRIVER SIDE) Connector Type 6098-0239 H.S. [42]35	Terminal Color of Signal Name [Specification] 1
Connector No. B511	Connector Nume yours sch and rathout individual your school and Authoritic pring postmoothing. Opinional Type NSTOFW-CS	H.S. 32 14 29 12 27 11 26 13 28	Terminal Color of Sugral Name (Saperfronton) New New Sugral Name (Saperfronton) New New Sugral Name (Saperfronton) New	Connector No. BS24 Connector Nume accusable bottom connector Nume programmer programmer NSOSTW-CS Connector Type NSOSTW-CS H.S.	Terminal Color of Signal Name [Seeclification] Name Signal Name Seeclification] Signal Name Seeclification] 44 P
48 B GND (POWER)				Connector No. BB14 Connector Name SLIDNO LIMT SWITCH LORVER SIDE) Connector Type TKOZMBR-P TAS	Terminal Coder of Wire Signal Name [Steedfreaton] 4 0.08 - 32 B/W -
POWER SEAT FOR DRIVER SIDE CONNECTOR IN 18504	Connector Name DRIVER SEAT CONTROL UNIT Connector Type NS16FW-CS	H.S. 33 35 36 37 38 39 40 41 42 44 45 48	Color of W/re W/r	45 L./R FRONT LIFTING MOTOR (UPWARD) Connector No. Connector Name POWER WALK-IN SWITCH (DRIVER SIDE) Connector Type TKOZFBR TKOZFBR TKOZPBR	Terminal Color of Wire Signal Name [Specification] No. Wire — 30 P — 32 B/W —

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< ECU DIAGNOSIS INFORMATION >

Connector No. Connector Name Connector Type No. Ferminal Color of No. Connector No. Connector No. Ferminal Color of No. H.S. H.S. H.S. H.S. H.S. Terminal Color of No. 2 SB	D
Signal Name Signal Name Swedington S	E F G
Connector No. E528	I E K
FR SEAT FOR DRIVER SIDE	M N

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Fail-Safe

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

< ECU DIAGNOSIS INFORMATION >

Operating in fail-safe mode	Malfunction Item	Related DTC	Diagnosis
	CAN communication* ¹	U1000	With ADP: ADP-48, "DTC Logic"
	CAN communication	01000	Without ADP: SE-34, "DTC Log- ic"
Only manual functions operate normally.	Tilt sensor	B2118	ADP-53, "DTC Logic"
	Telescopic sensor	B2119	ADP-56, "DTC Logic"
	Detent switch	B2126	ADP-59, "DTC Logic"
	Parking brake switch	B2127	ADP-61, "DTC Logic"
Only manual functions, except door mirror, operate normally.	UART communication	B2128	ADP-63, "DTC Logic"
Only manual functions, except seat sliding, operate normally.	Seat sliding output*1	B2112	SE-35, "DTC Log- ic"
Only manual functions, except seat reclining, operate normally.	Seat reclining output*1	B2113	SE-37, "DTC Log- ic"

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

DTC Index

CONSULT-III	Tim	ing ^{*1}		
display	Current mal- function Previous mal- function		ltem	Reference page
CAN COMM CIRCUIT*2	RCUIT* ²		CAN communication	With ADP: ADP-48, "DTC Logic"
[U1000]		1-39	OAN COMMUNICATION	Without ADP: SE-34, "DTC Log- ic"
SEAT SLIDE*2	0	1-39	Seat slide motor output	With ADP: ADP-49, "DTC Logic"
[B2112]	0	1-39	Seat since motor output	Without ADP: SE-35, "DTC Log- ic"
SEAT RECLINING* ² [B2113]	0	1-39	Seat reclining motor output	SE-37, "DTC Log- ic"
TILT SENSOR [B2118]	0	1-39	Tilt sensor input	ADP-53, "DTC Logic"
TELESCO SENSOR [B2119]	0	1-39	Telescopic sensor input	ADP-56, "DTC Logic"
DETENT SW [B2126]	0	1-39	Detention switch condition	ADP-59, "DTC Logic"
PARKING BRAKE [B2127]	0	1-39	Parking brake switch condition	ADP-61, "DTC Logic"
UART COMM [B2128]	0	1-39	UART communication	ADP-63, "DTC Logic"

*1.

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< 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.

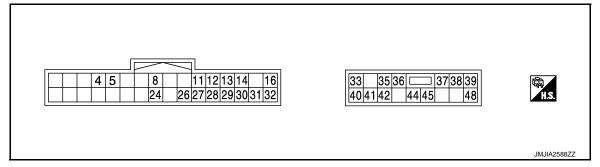
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< ECU DIAGNOSIS INFORMATION >

PASSENGER SEAT CONTROL UNIT

Reference Value

TERMINAL LAYOUT



PHYSICAL VALUES

				Т											
	nal No. color)	Description		0 177		Voltage (V)									
(+)	(-)	Signal name	Input/ Output	Condition		(Approx.)									
4	Ground	Sliding limit switch	Input	Seat sliding front e	dge	0									
(O/B)	Giodila	signal	IIIput	Other than above*		5									
		Seat belt buckle		Ignition switch OFF tened*	and seat belt fas-	5									
5 (L)	Ground	switch signal (pas- senger side)	Input	Ignition switch ON leased	and seat belt re-	Battery voltage									
				Other than above		0									
					Open	0									
8 (LG)	Ground	Passenger side door switch signal	Input	Passenger door	Closed	(V) 15 10 5 0 10ms 10ms									
11 (BR)	Ground	Sliding switch back- ward signal	Input	nput Sliding switch	Operate (backward)	0									
		ward digital			Release	Battery voltage									
12 (SB)	Ground	Reclining switch									Reclining switch backward signal	Input	Reclining switch	Operate (backward)	0
(00)		backwara signar			Release	Battery voltage									
13 (LG/R)	Ground	Lifting switch (front)	Input	Lifting switch	Operate (downward)	0									
(LG/IX)		downward signal		(front)	Release	Battery voltage									
14 (G/B)	Ground	Lifting switch (rear) downward signal	Input	Lifting switch (rear)	Operate (downward)	0									
(3/5)		actifficate orginal		(1001)	Release	Battery voltage									
16 (O)	Ground	Sensor power supply	Output	_		Battery voltage									

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< ECU DIAGNOSIS INFORMATION >

	nal No. color)	Description		Con	dition	Voltage (V)	
(+)	(-)	Signal name	Input/ Output	Con	altion	(Approx.)	
24 (R)	Ground	Sliding sensor sig- nal	Input	Seat sliding	Operate	10mSec/div 2V/div JMJIA0119ZZ	
					Stop	0 or 5	
26 (Y)	Ground	Sliding switch for- ward signal	Input	Sliding switch	Operate (forward)	0	
					Release	Battery voltage	
27 (R/G)	Ground	Reclining switch forward signal	Input	Reclining switch	Operate (forward)	0	
(1.00)		wara orginar			Release	Battery voltage	
28 (W/B)	Ground	Lifting switch (front) upward signal	Input	Seat lifting switch (front)	Operate (upward)	0	
(W/D)		apwara signar		(morne)	Release	Battery voltage	
29 (P/L)	Ground	Lifting switch (rear) upward signal	Input	Seat lifting switch (rear)	Operate (upward)	0	
(1 / =)		upwara signai		(rear)	Release	Battery voltage	
30	Ground	Power walk-in	Input	Power walk-in	Pressed	0	
(P)		switch signal		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 for- ward output	Output	Seat sliding	Operate (forward)	Battery voltage	
					Release	0	
36 (W/L) ^{*1}	Ground	Reclining motor for- ward output signal	Output	Seat reclining	Operate (forward)	Battery voltage	
(G/Y)*2					Release	0	
37 (LG/R) ^{*1}	Ground	Lifting motor (front) downward output	Output	Seat lifting (front)	Operate (downward)	Battery voltage	
(G/W)*2					Stop	0	
38 (P/L) ^{*1}	Ground	Lifting motor (rear) upward output	Output	Seat lifting (rear)	Operate (upward)	Battery voltage	
(L/Y)*2		,			Stop	0	
39 (G/B)*1	Ground	Lifting motor (rear) downward output	Output	Seat lifting (rear)	Operate (downward)	Battery voltage	
(R/B)*2		-			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) Glould		nal	put	Other than above*		5	

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Voltage (V)	
(+)	(-)	Signal name	Input/ Output	Condition		(Approx.)	
42 (W)	Ground	Sliding motor back- ward output	Output	Seat sliding	Operate (backward)	Battery voltage	
(۷۷)		ward output		_	Stop	0	
44 (P)	Ground	Reclining motor backward output	Output	ut Seat reclining	Operate (backward)	Battery voltage	
(F)					Stop	0	
45 (W/B)*1	Ground	Lifting motor (front) upward output	ont) Output	Seat lifting (front)	Operate (upward)	Battery voltage	
(L/R)*2		upward output			Stop	0	
48 (B)	Ground	Ground (power)	_	_		0	

^{*:} Not in the sleep mode.

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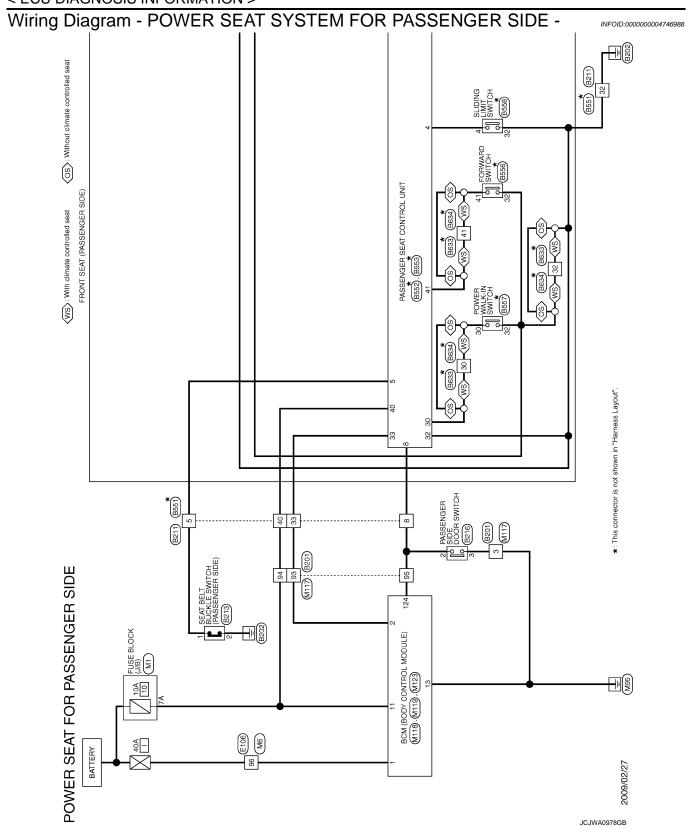
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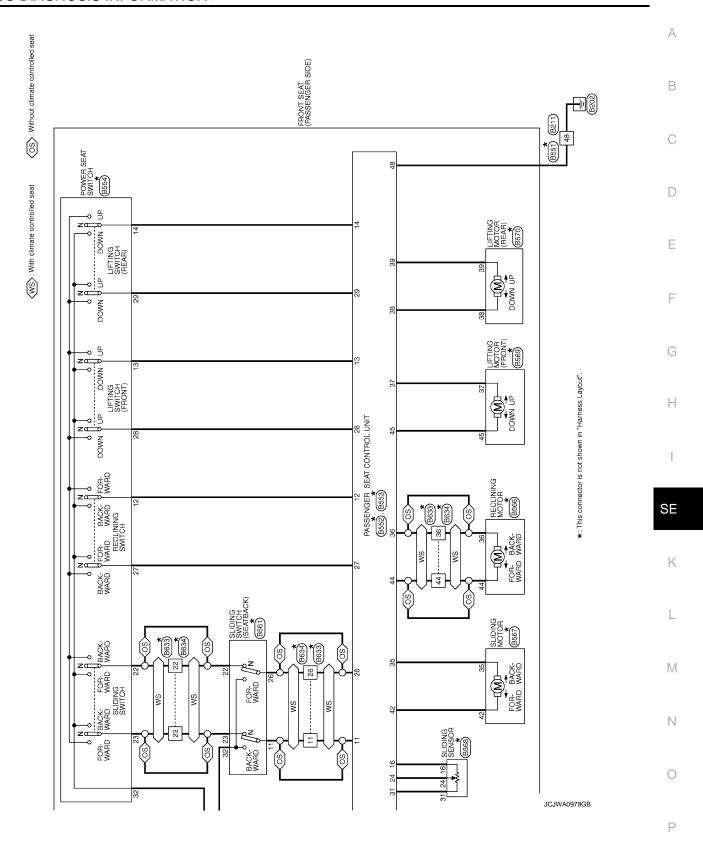
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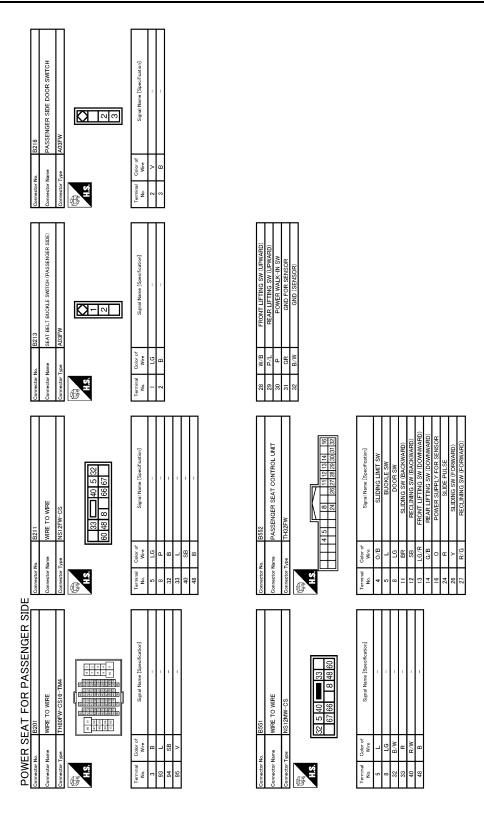
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^{*1:}With climate controlled seat.

^{*2:}Without climate controlled seat.







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< ECU DIAGNOSIS INFORMATION >

Corrector No. B556 Corrector Name FORWARD SWITCH (PASSENGER SIDE) Corrector Type SOZPW WAS H.S.	Terrinal Color of Signal Name [Specification] No. Signal Name [Specification] Signal	Connector No. 8566 Connector Name RECLINIO MOTOR (PASSENGER SIDE) Connector Type NSQ2FW-CS H.S. [44 36]	Terminal Opic of Signal Name [Secerification] Wite Wite Signal Name [Secerification] Signal Name Secerification] Signal Name Controlled seat Signal Controlled Seat Controlled Controll		A B C
Corrector No. B554 Corrector Name POWER SEAT SWITCH (PASSENGER SIDE) Corrector Type NS10FW-CS CSD 14	Terminal Colin of Signal Name Searcification] Mare Signal Name Searcification]	Commetter No. 8561 Commetter Name such as on the ISAT BADIO PASSENGES SIDE: Commetter Type A06FW H.S. [23 22 111 26 22]	Terminal Oxfor of Signal Name [Specification] No. 1 BR		E F G
41 Y/G SLIDING MATTOR (BACKWARP) SW		Connector No. B558 Connector Name SLIDNO LIMIT SWITCH (PASSENGER SIDE) Connector Type TK/02MBR-P M.S.	Terminal No. Object of Wire Signal Name [Specification] 4 0/B - 32 B/W -		SE
Connector No. B553 B553 Connector No. B553 B554 B554	Terminal Color of Signal Name [Specification]	Connector No. B557 Connector Name POWEN WALK-IN SWITCH (PASSENGER SIDE) Connector Type TYQGFBR H.S.	Terminal Color of Signal Name [Saverification] Nine 30 P - -	JCJWA0981GB	M N
				333777000100	Р

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< ECU DIAGNOSIS INFORMATION >

POWER S	POWER SEAT FOR PASSENGER SIDE	_		0000					مرعرا	
Connector No.	SLIDING MOTOR (PASSENGER SIDE)	Connector No.	ą.	SLIDING SENSOR (PASSENGER SIDE)	Connector Name LIFTII	DJ03 LIFTING MOTOR (FRONT) (PASSENGER SIDE)	Connector No.	T	D370 LIFTING MOTOR (REAR) (PASSENGER SIDE)	
Connector Type	6098-0239	Connec	Connector Type 6	6098-0241	Connector Type NS02	NS02FW-CS	Connector Type		NS02FW-CS	
是 H.S.		H.S.	vi.		₽ H.S.		€ H.S.			
	35 42			24 31 16		45 37			38 39	
Terminal Color of No. Wire	Signal Name [Specification]	Terminal No.	nal Color of Wire	Signal Name [Specification]	Terminal Color of No. Wire	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]	
35 W/R	1	16	Н	1	Н	- [With climate controlled seat]	38	P/L	- [With climate controlled seat]	
42 W	1	24	+	1	37 G/W	- [Without climate controlled seat]	38	5 5	- [Without climate controlled seat]	
		5	¥	1	$^{+}$	- [With climate controlled seat]	8 8	9/5	- [With climate controlled seat]	
					45 L/R	- [Without climate controlled seat]	38	R/B	- [Without climate controlled seat]	
Connector No.	B633	Connec	Connector No.	B634	Connector No. E106	9	Connector No.	П	M1	
Connector Name	WIRE TO WIRE	Connec	Connector Name	WIRE TO WIRE	Connector Name WIRE	WIRE TO WIRE	Connector Name		FUSE BLOCK (J/B)	
Connector Type	NS12MBR-CS	Connec	Connector Type N	NS12FBR-CS	Connector Type TH80	TH80FW-CS16-TM4	Connector Type	П	NS06FW-M2	
唇		F			F		唇			
H.S.	98 96 99	1	κ <u>i</u>	36 44	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	0 0 0 0 0 0 0 0 0 0	H.S.		3A2A1A	
	+ 77 0:		<u> </u>	22 20 11 22	2 2 E				8A / Alanahalan	
Terminal Color of No. Wire	Signal Name [Specification]	Terminal No.	nal Color of Wire	Signal Name [Specification]	Terminal Color of No. Wire	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]	
11 BR	1	Ξ	BR	-	M 96	-	ΑL	۳	1	
Н	1	22	Н	-						
23 O/L	1	23	٦/٥	1						
+	1	97 52	> 0	1						
32 B/W	1 1	32	+	1 1						
Н		36	Н	1						
41 Y/G		4	5/\d	1						
44		44								

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< ECU DIAGNOSIS INFORMATION >

				А
MI18 NS IGFW-CS SIGNA-CS SIGNA-CS SIGNA-CS SIGNA-CS SIGNA-CS SIGNA-CS GND GND GND GND GND GND GND GN				В
r No.				C
MAIS BOM (BODY CONTROL MODULE) MOSFB-LC 113 2				E F
W Mr Nr				G
Connector Name Connector Name Connector Type Terminal No. 12				Н
MW-CS16-TM4 MW-CS16-TM4 Signal Name [SewerInceton]				SE
Connector Nume WITETOW				К
SER SIDE				L
PASSENG RE SIG-TMA Signal Name (Socielization)	TROL MODULE)	Signal Name [Specification] PASSENGER DOOR SW		M
SEAT FC	M123 BOM (BODY CONTROL MODULE) TH40FG-NH TH40FG-NH TH40FG-NH TH40FG-NH TH40FG-NH	Color of Signal LG PASSE		Ν
POWER Corrector Name Commercer Type Hans Comme	Connector No. Connector Name Commerciar Type (A.S. H.S. E.S. E.S.	Terminal C No. 124		0
			JCJWA0983GB	Р

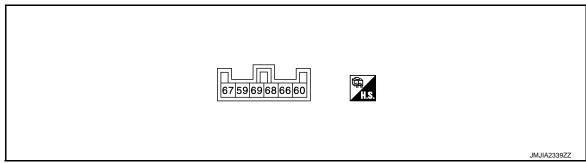
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< ECU DIAGNOSIS INFORMATION >

HEATED SEAT CONTROL UNIT

Reference Value

TERMINAL LAYOUT



PHYSICAL VALUES

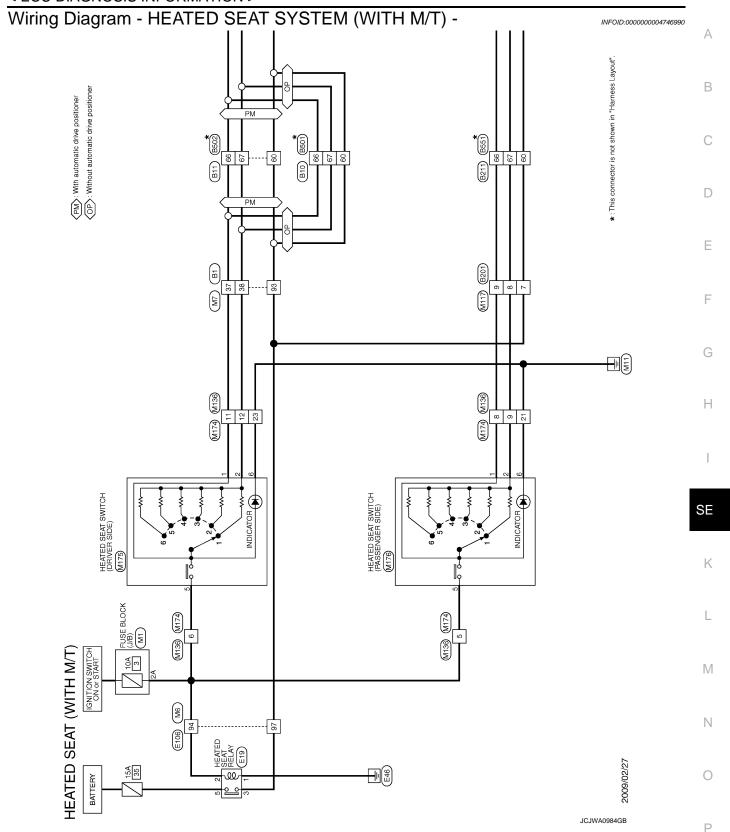
	nal No. color)	Description			Condition	Voltage (V)
(+)	(-)	Signal name	Input/ Output	·	Condition	(Approx.)
59 (B)	Ground	Ground	-	Ignition switch O	N	0
60	Ground	IGN power supply	Input	Ignition switch	OFF or ACC	0
(Y)	Giodila	IGN power supply	mput	ignition switch	ON	Battery voltage
66		Heated seat operation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

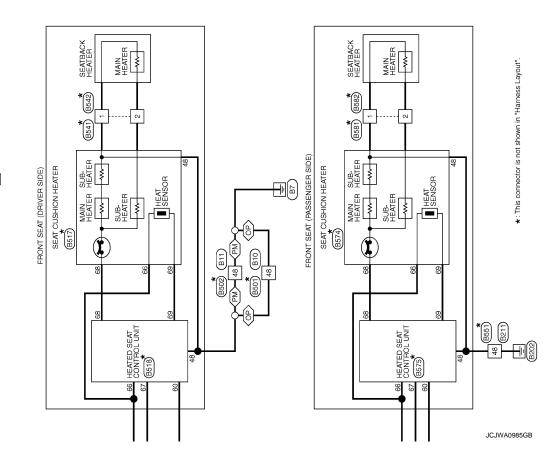
^{*:} Voltage is repeated within the value shown as per the following list depending on heater unit temperature.

^{*1:}With side support.

^{*2:}Without side support.

< ECU DIAGNOSIS INFORMATION >





⟨PM⟩: With automatic drive positioner ⟨OP⟩: Without automatic drive positioner

< ECU DIAGNOSIS INFORMATION >

Connector No. B201	Commercian No. 18517 Commercian Name SEAT CUSHION HEATER IDRIVER SIDE: Commercian Types SOMEW Commerc	Terminal Color of Signal Name [Specification] No. Wire Signal Name [Specification] No. Wire Signal Name [Specification] No. Wire Signal Name Signal Na	A B C
Cornector No. BI Cornector Name WIRE TO WIRE	Connector No. B502 Connector Name WIRE TO WIRE Connector Type NS 10MV CS 19 3 1	New Wire Signal Name Swedicators New Wire	E F G
Superior No. St. 10	Connector No. B501 Connector Name WIRE TO WIRE Connector Type INST2MM-CS	No. Signal Name [Specification] No. Signal Name [Specification] No.	SE K
HEATED SEAT (WITH M/T) Generator Name Generator Type Terrinos Terrinos Codes of Signal Name (Specification) No. Signal Name (Specification) No. Signal Name (Specification) No. V - [Without climate controlled seat] State	Commetter Name WRE TO WIRE Commetter Type NS12FW-CS WR 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Terminal Color of Signal Name [Specification] Nice Signal Name [Specificati	L M N O P

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Connector No. B551 Connector Name WIRE TO WIRE Connector Type WIS I ZMW- CS WS ZMW- CS MS Z	Terminal Color of None Supral Name [Specification] None	Connector No. B562 Connector Name WIRE TO WIRE Connector Type M02MW-LC WR 1	Terminal Color of Signal Name (Specification) No. 1
Connector No. B542 Connector Name WIRE TO WIRE Connector Type MOZMW-LC H.S.	Terminal Color of Nure Signal Name Specification No.	Connector No. B581 Connector Name WIPE TO WIPE Connector Type MO2FW-LC H.S.	Terminal Color of Signal Name [Specification] No. Wire
Connector No. B541 Connector Name WIRE TO WIRE Connector Types MIZEYW-LC H.S.	Terminal Color of Signal Name [Selectfration] Were 1	Connector No. 8575 Connector Name HeATID SEAT CONTROL UNIT PASSINGER SIDE Connector Type 1748253-1 H.S. 677 48 69 66 60 60	Terminal Color of Signal Name [Sacelfration] Wire Signal Name [Sacelfration] Wire Carolund Color of Carolund Color of Carolund Color of Carolund Car
HEATED SEAT (WITH M/T) Connector No. B516 Connector Nume HEATED SEAT CONTROL UNIT GREEN SIDE) Connector Type 174923-1 M.S.	Perminal Color of Nurse Signal Name Carolination Nurse Wire Carolination Nurse Carolination Signal Name Carolination Signal N	Connector No. B574 Connector Name SEAT CUSHON HEATER (PASSENGER SIDE) Connector Type SOAFW H.S. 68 69	Terminal Color of Nime (Seperification) No. Wire 48 B

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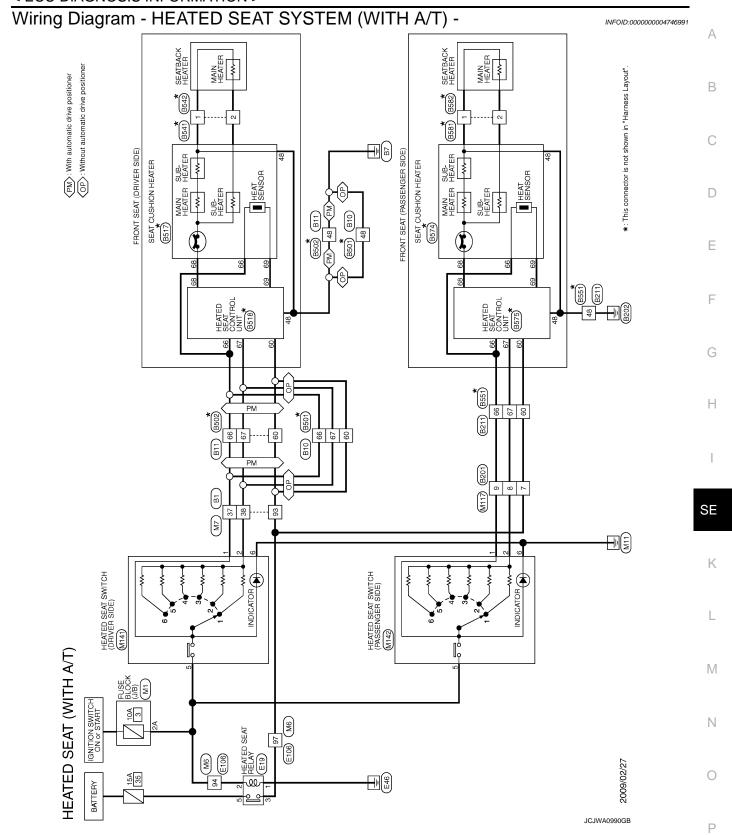
< ECU DIAGNOSIS INFORMATION >

\$2552 12002	Signal Name (Severication) - [Without climate controlled seat.] - [Without climate controlled seat.]	9 1011112 9 1011112	Signal Name [Specification]		АВ
Connector No. M6 Connector No. M6 TH80MN-CS16-TN4 TH80MN-CS16-TN4 TH80MN-CS16-TN4 TH80MN-CS16-TN4	Color of Wree of G	Connector No. M174 Connector Name WIRE TO WIRE Connector Type ITH24MM-18H 12 3 4 5 6 7 8 13 14 15 16 17 18 19 20	Color of Wire LG B B P G G G G G G G G G G G G G G G G		C
Connection Connection Connection H.S.	Terminal No. 94 97 97	Connector No	Terminal Mon. Web. 12		
M1 NS06-W-442 3A 2A1A 8A 7A6A5A4A	Signal Name [Specification]	WIRE NH 7 6 5 4 3 2 1 19 18 17 16 15 14 13	Signal Name [Specification]		E F
Connector No. MI Connector Name FUSE BLOC Connector Type NSOF7V-MZ H.S. 3A RATA	Terminal Color of Note 2A G	M136 Connector No. M136 Connector Name WIRE TO WIRE Connector Type TTL24FW-NH HS 124 [23] [2] [2] [20] [9]	Terminal Color of No. Wire of No. Wire of No. Wire of No.		G
# MIPE TO WIFE THEOPH-CS IG-TM4	Super Name (Swerfranton) - [Without climate controlled seat]	MIRE TO WREE THEOMNI- CS16-TM4	Signal Manne [Specification]		SE
Connector No. E106 Connector Name WIRE TO WIRE Connector Type TH80PW-CS16	Terminal Color of Wee of Wee of 94 V = 97	Connector No. M117 Connector Name WIPE TO WIPE Connector Type TH80MV-OSIG	Terminal Code of Mre of Office of Office of Mre of		К
	[6]		on led seat		L
SEAT (WITH M/T) FI9 HEATED SEAT RELAY MISOZEIL-M2 5 2 2 1	Signal Name (SeedTration)	1744 1744 1744 1744 1744 1744 1744 1744	Signal Name [Specification] [Without climate controlled seat.] [Without climate controlled seat.]		M
		WIRE TO WIRE THE THE THE THE THE THE THE THE THE TH			Ν
HEATED Connector No. Connector Name Connector Type	Terminal Color of No. No.	Connector No. Connector Name Connector Type	Terminal Color of No. Wire P. 1. S.		0
				JCJWA0988GB	Р

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	M176	HEATED SEAT SWITCH (PASSENGER SIDE) (WITH M/T)	TK08FBR	6 3 2 1	Signal Name [Specification]	I	-	1	
			П		Color of Wire	۵	SB	W	GR
	Connector No.	Connector Name	Connector Type	E.S.	Terminal No.	-	2	2	9
	П		П	 		Г		П	
HEATED SEAT (WITH M/T)	M175	HEATED SEAT SWITCH (DRIVER SIDE) (MITH M/T)	TK10FW	6 6 7 1 5	Signal Name [Specification]	1	1	-	
red s			Type		Color of Wire	٦	5	97	Я
HEAT	Connector No.	Connector Name	Connector Type	₽ H.S.	Terminal No.	-	2	2	9

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Connector Nume WIRE TO WIRE Connector Type TH90FW-CS16-TM4 MAS WIRE TO WIRE Connector Type H.S. WIRE TO WIRE WIR	Terminal Golor of Signal Name [Specification] No. Wire Wire T T T T T T T T T	Corrector No. B517 Corrector No. B517 Corrector Name SEAT CUSHON HEATER (DRIVER SIDE) Corrector Type SOAFW Corrector Type Corrector Ty	Terminal Golor of New Signal Name [Specification] No. Wire Specification] 48 B - [With side support] 66 B \tau - [Without side support] 68 R/W - [Without side support]
Connector No. Connector Nume WIRE TO WIRE	Terminal Color of Signal Name [Sasorication] All of Signal Name Sasorication] All of Signal Name Sasorication All of Sasorication All of	Connector No. B502 Connector Name WIRE TO WIRE Connector Type NS16MW-CS WR 19 3 1 1 17 40 15 66 32 48 21 33 67 60	Terminal Color of Signal Name (Specification) Who Signal Name (Specification) 48 B Color of
Connector No. B10 Connector Nume WRE TO WIRE Connector Type NR1/2PW-CS H.\$ 60 48 19 3 32 67 40	Terminal Coder of Signa Nama Specification 48	Connector No. B501 Connector Name WIFE TO WIFE Connector Type NS12MW-CS WAS 38 5 6 66 67 40 67 22 3 19 48 60	Terminal Goldr of Wine Signal Name [Specification] No. Wine Wi
HEATED SEAT (WITH A/T) Connector Name Connector Name Connector Name THENRY-CSIG-TMA MIRE THORY-CSIG-TMA MIRE THENRY-CSIG-TMA MIRE THENRY-CSIG-TMA MIRE THENRY-CSIG-TMA	Terminal Color of Signal Name (Soucheatron) No. Wive Name Signal Name (Soucheatron) No. No.	Commercian No. 18211 Commercian Name WIRE TO WIRE Commercian Types NS12FW-CS With H.S. 33 40 5 32 100 48 8 66 67	Terminal Golor of Signal Name (Specification) No. Wire Signal Name (Specification) 4.8 B C C C C C C C C C

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Cornector Nune WIRE TO WIRE Cornector Nune WIS 12MM*-CS MAT 2 F 40 13 MAT 2 F 40 13 MAT 3 F 40 16	Terminal Golor of New Signal Nama (Specification) 48 8 -	Corrector No. B562 Connector Name WIRE TO WIRE Connector Type MOZMW-LC ALS.	Terminal Gode of Signal Name [Specification]		A B C
O WIRE	Signal Name [Specification]	WIRE TO WIRE MODERW-LC	Signal Name [Specification]		E
Connector No. BS42 Connector Name WIRE TO WIRE Connector Type MO2MW-LC \$\tilde{\text{M3}}\$	Terminal Color of No. Wire 1	Connector No. B561 Connector Name WIRE TO Connector Type MOZFW H.S.	Terminal Color of Nine		G H
MIRE TO WIRE MOZFW-LC	Signal Name (Specification)	8675 HANTO SEAT CONTROL UNIT PASSENGER SIDE 174823-1 67 449 69 68 66 60	Ground Name (Seerication) GROUND GROUND IGN POWER SUPPL HEATED SEAT SWITCH SIGNAL HEATED SEAT SWITCH SIGNAL HEATED SEAT SWITCH SIGNAL HEATED SEAT SWITCH SIGNAL		SE
Connector No. Connector Name Connector Type H.S.	Terminal Color of No. Were	Connector No. Connector Name Connector Type H.S.	Terminal Codor of Mrs No. Wire St. Codor of Codor of Codo of C		K
EAT (WITH A/T) BSI8 HEATED SEAT CONTROL UNIT (DRIVER SIDE) 174823-1	Signal Name [Specification] CROUND IGN POWER SUPPLY HEATED SEAT OFFEATION SIGNAL [With side auguort] HEATED SEAT OFFEATION SIGNAL [With side auguort] HEATED SEAT SWITCH SIGNAL HEATER UNIT POWER SUPPLY HEATER UNIT POWER SUPPLY HEATER UNIT POWER SUPPLY	SDAFW SGA CUSHON HEATER (PASSENGER SIDE) SGAFW 66 44 68 69	Signal Name [Specification]		M
HEATED SEAT (WITH A/T) Convector Name HEATED SEAT CONTROL UNIT ON Convector Name HEATED SEAT CONTROL UNIT ON HEATED SEAT CONTROL UNIT ON HEATED SEAT CONTROL UNIT ON FINANCIAL SEAT CONTROL UNIT ON HEATED SEAT (WITH A/T) FINANCIAL SEAT (WITH A/T) FINANCI	Terminal Color of Market Marke	Commeter Na. B574 Commeter Name SEAT CUS Commeter Type SOMFW	Color of No. Wer Mer Mo. Wer Mer Mer Mer Mer Mer Mer Mer Mer Mer M		N O
<u> </u>				JCJWA0992GB	
					Р

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Commettor No. M6	Connector Name WIRE TO WIRE	Connector Type TH80MW-CS16-TM4		Terminal Cotor of Signal Name [Seconfication] Wire Wire	Connector No. M142	Connector Name HEATED SEAT SWITCH (PASSENGER SIDE) WITH A.T) CONNECTOR TIME TKOREER	1	Terminal Color of Signal Name [Specification]	1 GR -	- SB
M1	FUSE BLOCK (J/B)	NS06FW-M2	3A TABASA4A	Object Signal Name [Specification] G	M141	HEATED SEAT SWITCH (DRIVER SIDE) (WITH A/T) TK 10FW	4 9 2 1 5	Color of Signal Name [Specification]	-	
Connector No.	Connector Name	Connector Type	H.S.	Terninal Col. W	Connector No.	Connector Name	HS.	Terminal Col. No. W	-	٠
Connector No. E106	Connector Name WIRE TO WIRE	Connector Type TH80FW-CS16-TM4	XX.	Terminal Outre of Supra Name [Savericution] Name Wire Wire Wire V - [Without climate controlled sear] 97 G - [Without climate controlled sear]	Connector No. M117	Connector Name WIRE TO WIRE Connector Trans THBMMM-CS16-TMA		Terminal Color of Signal Name [Specification]	7 G -	
HEATED SEAT (WITH A/T) CONNECTOR E19	ne	Connector Type MS02FL-M2	H.S.	Ferminal Color of Signal Name [Specification]	Connector No. M7	Connector Name WIRE TO WIRE Connector Live THBINAW-CSI 6-TMA		Terminal Color of Signal Name [Specification] No.	Ц	29 GB = [Without alimate controlled cont

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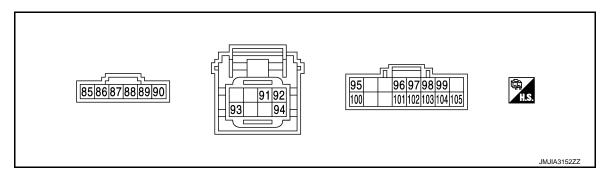
CLIMATE CONTROLLED SEAT CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

CLIMATE CONTROLLED SEAT CONTROL UNIT

Reference Value

TERMINAL LAYOUT



PHYSICAL VALUES

Teri	minal No.	Wire	Description				Value
+	_	color	Signal name	Input/ Output	Condition		(Approx.)
85	Ground	G	Seatback thermal electric device COOL	Output	Climate controlled seat switch	HEAT or COOL	0 - Battery voltage*
			signal		SWILCTI	OFF	0
86	Ground	G/W	Seat cushion thermal electric device COOL-	Output	Climate controlled seat	HEAT or COOL	0 - Battery voltage*
			signal		SWILCH	OFF	0
87	Ground	G/B	Seat cushion thermal electric device HEAT	Output	Climate controlled seat	HEAT or COOL	0 - Battery voltage*
			signal		SWILCH	OFF	0
88	Ground	G/R	Seatback thermal electric device HEAT	Output	Climate controlled seat	HEAT or COOL	0 - Battery voltage*
			signal		SWILCH	OFF	0
89	Ground	R	Ignition switch power supply	Input	Ignition switch ON		Battery voltage
90	Ground	L	Ground	_	_		0
					HI HEAT		2.6 - 4.2
91	Ground	Y	HEAT switch signal	Input	Climate controlled seat MID HEAT		1.6 - 2.5
91	Giodila	1	HEAT SWILCH SIGNAL	iriput	switch	LO HEAT	0.8 - 1.5
						OFF	0
						HI COOL	2.6 - 4.2
92	Ground	W	COOL switch signal	Input	Climate controlled seat	MID COOL	1.6 - 2.5
32	Giodila	VV	COOL SWITCH SIGNAL	iriput	switch	LO COOL	0.8 - 1.5
						OFF	0
93	Ground	W/B	Ignition switch power supply	Input	Ignition switch ON		Battery voltage
94	Ground	W/R	Climate controlled seat switch power supply	Output	Ignition switch ON		Battery voltage
95	Ground	R/L	HEAT switch indicator	Output	Climate controlled seat	HEAT	Battery voltage
33	Ground	1\/L	signal	Output	switch	OFF	0

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CLIMATE CONTROLLED SEAT CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

Terminal No.		Wire	Description				Value
+	_	color	Signal name	Input/ Output	Condition		(Approx.)
96	Ground	L/W	Seatback blower motor speed control signal	Output	Climate controlled seat switch	HEAT	7.5 - 8
						HI COOL	12
						MID COOL	8
						LO COOL	6.5
97	Ground	R	seat cushion blower motor speed control signal	Output	Climate controlled seat switch	HEAT	7.5 - 8
						HI COOL	12
						MID COOL	8
						LO COOL	6.5
98	Ground	R/W	Blower motor ground	_	_		0
99	Ground	L	Statback blower mo- tor power supply	Output	Climate controlled seat switch	HEAT or COOL	Battery voltage
					Other than the above		0
100	Ground	GR	COOL switch indicator signal	Output	Climate controlled seat switch	COOL	Battery voltage
						OFF	0
101	Ground	GR/R	Seat cushion blower motor power supply	Output	Climate controlled seat switch	HEAT or COOL	Battery voltage
					Other than the above		0
102	Ground	V	Seat cushion thermal electric device sensor ground	_	Ignition switch ON		0
103	Ground	BR	Seat cushion thermal electric device sensor signal	Input	Climate controlled seat operated		1 - 5
104	Ground	V/W	Seatback thermal electric device sensor ground	_	Ignition switch ON		0
105	Ground	LG	Seatback thermal electric device sensor signal	Input	Climate controlled seat operated		1 - 5

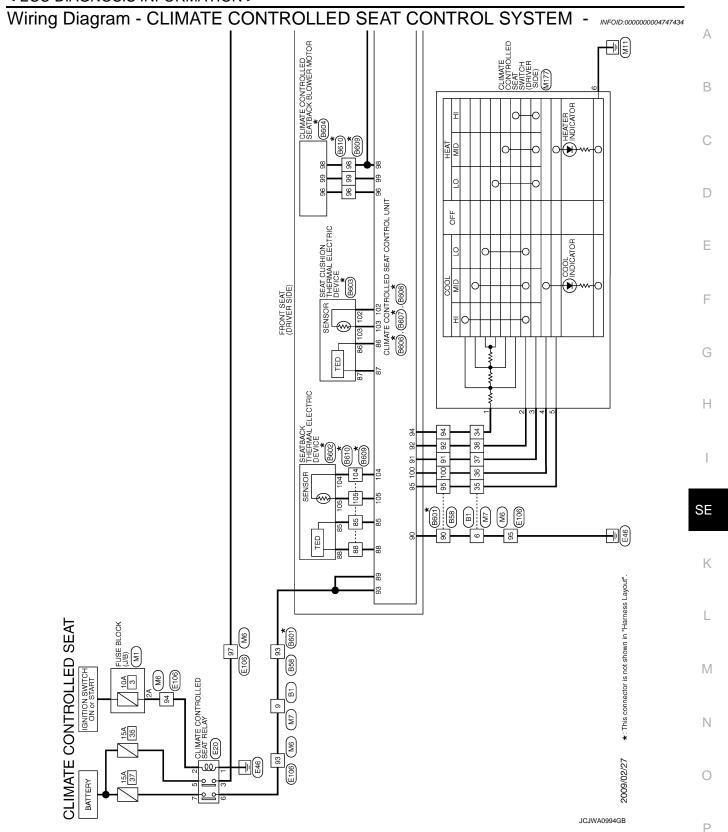
^{*:}It changes between battery voltage or 0V

NOTE:

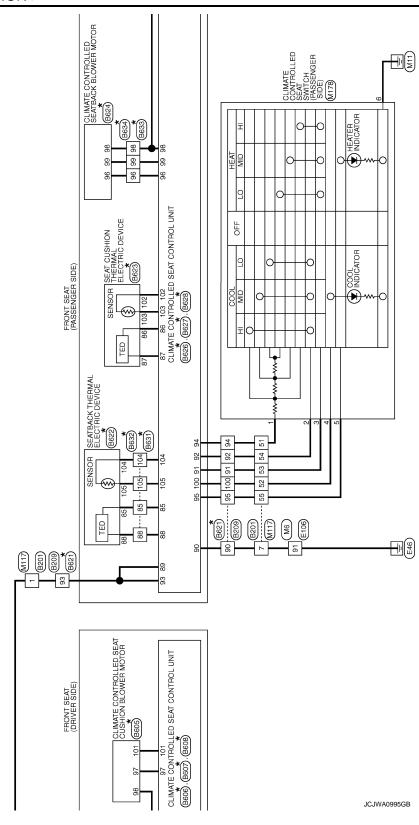
<sup>Measure the value on the condition that the battery voltage is 14 V
Wait 1 minute or more after thermal electric device is activated, and then start the measurement</sup>

CLIMATE CONTROLLED SEAT CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >



*: This connector is not shown in "Harness Layout".



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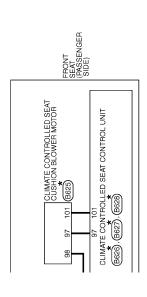
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< ECU DIAGNOSIS INFORMATION >

CLIMAT	CLIMATE CONTROLLED SEAT										
Connector No.	B1	Connector No.	B58		Connector No.	B201		Connector No.	o. B209		
Connector Name	WIRE TO WIRE	Connector Name	ne WIRE TO WIRE	RE	Connector Name	WIRE TO WIRE		Connector Name	ame WIRE TO WIRE) WIRE	
Connector Type	TH80FW-CS16-TM4	Connector Type	e NS16FBR-CS	SS	Connector Type	TH80FW-CS16-TM4		Connector Type	ype NS16FBR-CS	R-CS	
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ž.		i.	82 83 78 76 81 80 79 75	77 94 90 100 93	S.			ž.	78 7 80 79 7	78 76 2 91 92 95	
Terminal Colo No. Wi	Color of Signal Name [Specification]	Terminal (Color of Wire	Signal Name [Specification]	Terminal Color of No. Wire	r of Signal Name [Specification]		Terminal No.	Color of Wire	Signal Name [Specification]	
9	B	06	8	1	- r	Ц		06	а ;		
+	5 0	6 6	> כי		- 15 SB S	- [With climate controlled seat]	sat	6 6	≰ ©		
╁		93	۰ ۵	1	t	- 91		83	, ,	-	
H	BR -	94	0	-	23	-		94	SB	_	
Н		92	GR	1	Н	-		92	GR	-	
38	V - [With climate controlled seat]	100	BR	_	55 GR			100	LG	_	
Connector No.	Beor	Connector No.	B602		Connector No.	19403 19403		Connector No	B604		
	T		T				Ī		Τ	California de la contrata del contrata del contrata de la contrata del la contrata de la contrata del la contrata de la contra	
Connector Name		Connector Name		SEATBACK THERMAL ELECTRIC DEVICE (DRIVER SIDE)	Connector Name	SEAT CUSHION THERMAL ELECTRIC DEVICE (DRIVER SIDE)	VER SIDE)	Connector Name		CLIMATE CONTROLLED SEATBACK BLOWER MOTOR (DRIVER SIDE)	
Connector Type	NS16MBR-CS	Connector Type	e 6098–2163		Connector Type	6098-2163		Connector Type	уре 7283-5830-90	30–30	
€ E		E .			€ E			F			
	95 92 91	į.		1048588		104 10486187		Ę		<u> </u>	
Terminal Colo No. Wi	Color of Signal Name [Specification]	Terminal O	Color of Wire	Signal Name [Specification]	Terminal Color of No. Wire	r of Signal Name [Specification]		Terminal No.	Color of Wire	Signal Name [Specification]	
06	-	82	5	-	86 G/W			96	R/W	-	
\dashv	W/B	\dashv	G/R		\dashv	G/B		86	_	_	
92 v		104	W/W	I	102 V			66	L/W		
+		105	LG	1	4	BR -					
+	W/R										
3 OT											

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< ECU DIAGNOSIS INFORMATION >

Connector Name D608 Connector Name Cubukit Conmoda. Connector Type Delphi: 15394150 Connector Type In Transport A.S. In Transport 100 101102103104116	Terminal Coinc of No. Sugual Name [Specification] 96 R.VL - 98 L.V - 99 L.VW - 100 GR - 103 GR - 103 SR - 104 V/W - 105 LG - 104 V/W - 105 LG -	Commector Name sex-hauch Thefinea, B.B.C.2 Commector Name sex-hauch Thefinea, B.B.C.790 DB/US (0.00389/GR) SIDE Commector Type 600989-2163 H.S. TIGE 10485 888	Terminal Cofer of Signal Manne [Specification] No. Wire Signal Manne [Specification] Signal Manne [Specificati		A B C
Connector Name authorit control Los Sant Control, Lint Grens size Connector Type Delphi: 15/06141	Terminal Calor of No. Signal Name Specification] No. N	Connector No. B621 Connector Name WIRE TO WIRE Connector Type NS16MBR-OS WR 52 91 76 78 8	Terminal Oolog of Signal Name [Specification]		E F G
Connector No. 5606 Connector Name Calleria Confrocued services services to Connector Types Confrocued Services Connector Types Connector Types Confrocued Services Co	Ferminal Coder of Sagral Name [Saperification] No.	Commetter No. B610 Commetter Name WIRE TO WIRE Commetter Type NS 167W-CS WA 18 8 104 105 75 76 77 78 79	Terminal Color of Signal Name [Specification] No. Signal Name [Specification] No. Signal Name [Specification] Signal Name Specification] Signal Name Specification]		SE K
CLIMATE CONTROLLED SEAT Connector No. Connector Name (INDICE) Connector Name (INDICE) Connector Type 7283-5830-90	Terminal Code of Signal Name [Sacofrostion] Wire Signal Name [Sacofrostion] S	Commetter No. B609 Commetter Type WIRE TO WIRE Commetter Type NS 18MV-OS WAR TO	Terminal Color of Signal Name [Specification] Wine Specification] Signal Name [Specification] Specification]	JCJWA0998GB	M N O

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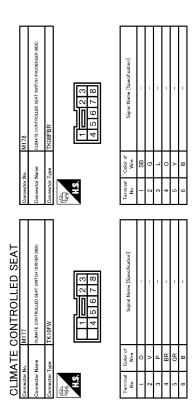
Connector No. B826 Connector Name clayare control LED SEAT CONTROL LOST PASSENGER Connector Type Delphi 1 15332 I 4 1	Terminal Color of No. Signal Name (Specification) Color of No. Color of	Connector No. B632 Connector Name WIRE TO WIRE Connector Type NS10FW-CS T/8 79 104 103 75 76	Terminal Cotor of New Signal Name (Specification)
Connector No. B625 Connector Name places and Connector Name places again and Connector Type 7283-5830-90 H.S. T. 1889 97 101	Terminal Color of Signal Name [Specification] Nine Signal Name Specification] 97 R 101 GR/R -	Соливстог No. B631 Соливског Nume WIRE TO WIRE Соливског Туре NS10MW-CS (17 80 103 10485 88)	Ferrinal Octor of Signal Name [Seconfruston]
Connector No. B624 Connector Name Connector Secretion (1283-5830-90 Connector Type 7283-5830-90 H.S. F.	Terrinal Color of No. Signal Name [Specification] No. Wise Wise Signal Name [Specification] 96 R/W 98 L - 99 L/W -	Connector No. B628 Connector Nume county Control List Stat South Control List Passenger Connector Type Delphi: 15394150 10 101 102 103 104 105	Ternical Color of Name Signat Name [Saserification]
CLIMATE CONTROLLED SEAT Connector Na. Connector Name Seri 2009-2163 Connector Type (103 103 6687)	Terrinal Color of No. Signal Name [Specification] No. Wire Wire Signal Name [Specification] S6 C/W C/W C/W 102 C/W 103 SR C/W C/W 103 SR C/W C/W C/W 103 SR C/W C/W	Connector No. BB27 Connector Name quality Continuation Stat Control, until passenger Connector Types Delph: 15406141	Terminal Cobo or Signal Name (Sacrification)

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< ECU DIAGNOSIS INFORMATION >

	А
O WIFE V-CS16-TM4 Signal Name (Swerfcastord) Signal Name (Swerfcastord)	В
H H H H H H H H H H	C
Connector No. Connector No. Connector Name Connector No. B.W. Wire B.W.	H
Festion]	Olled seat]
Signal Name (Specification)	- [With climate controlled seat.]
	G
Connector No. Connector No	B ⊢
R-CS	I
1	SE
Connector Numer Bis	К
	L
CLIMATE CONTROLLED SEAT Demector Nums Signal Name [Specification]	M
Signal New	N
CCLIMATE Commetter Name Commetter Name Commetter Name No. Wire 96 R.W. 97 R.W. 96 R.W. 97 R.W.	0
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Fail-safe INFOID:0000000004747435

- Climate controlled seat control unit equips fail-safe function.
 When a malfunction occurs in the systems shown below, climate controlled seat control unit stops output.

< ECU DIAGNOSIS INFORMATION >

Malfunction	Malfunctioning condition
The temperature difference between the seatback thermal electric device and seat cushion thermal electric device is more than 30°C	 When it detects for 4 seconds that the temperature difference between the seatback thermal electric device and seat cushion thermal electric device is more than 30°, it stops the output to the thermal electric device, activates the climate controlled seat blower motor at the maximum position, and sends the external airflow for 30 seconds If the temperature difference is still more than 30°C after 30 seconds pass, it stops all output and enters the system OFF condition When the temperature difference between seatback thermal electric device and seat cushion thermal electric device becomes less than 20°C, the system recovers automatically If it detects that the temperature difference is more than 30°C after the automatic system recovery, it immediately stops all output and enters the system OFF condition NOTE: When the switch operation is performed before entering the system OFF condition, the fail-safe mode is reset.
The temperature of thermal electric device is more than 110°C in the HEAT mode (any thermal electric device in the seatback or seat cushion)	 When it detects for 4 seconds that the temperature of the thermal electric device is more than 110°C, it stops the output to the thermal electric device, activates the climate controlled seat blower motor at the maximum position, and sends the external airflow for 30 seconds If the temperature does not become less than 105°C after 30 seconds pass, it stops all output and enters the system OFF condition When the temperature of the thermal electric device becomes less than 105°C, the system recovers automatically If it detects that the temperature of the thermal electric device is more than 110°C after the automatic system recovery, it immediately stops all output and enters the system OFF condition
The temperature of the thermal electric device is more than 45°C in the COOL mode (any thermal electric device n the seatback or seat cushion)	 When it detects for 4 seconds that the temperature of the thermal electric device is more than 45°C and less than 70°C, it starts the temperature monitoring of the thermal electric device at 3 second intervals While monitoring, if it detects that the temperature continuously rises 2°C or more 4 times or reaches 70°C or more, it stops all output and enters the system OFF condition If it detects other results of monitoring, it continues activating in the COOL mode
Thermal electric device sensor open circuit (in either the back and the cushion TED)	When it detects for 4 seconds that the thermal electric device sensor is an open circuit, it stops all output and enters the system OFF condition
Climate controlled seat blower motor system open circuit (in either the back and the cushion blower)	 When it detects for 2 seconds that climate controlled seat blower motor is an open circuit while the climate controlled seat is being activated, and the battery status has been stable for the same 2 second period. it stops output to the thermal electric device When it detects for 10 seconds that the climate controlled seat blower motor is an open circuit while the climate controlled seat is being activated, and the battery status has been stable for the same 10second period. it stops all output and enters the system OFF condition NOTE: After detecting the climate seat blower motor system open circuit for 2 seconds, the system recovers automatically if the activation of the climate controlled seat blower motor is detected for 1 second or more.
Switch input out of the specified range (either heat input or cool input)	 When it detects for 4 seconds that the rotary switch input is less than 30% of the vehicle battery voltage, it stops all output and enters the system OFF condition When the switch input returns to a value within the specified range, the system recovers automatically

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< ECU DIAGNOSIS INFORMATION >

Malfunction	Malfunctioning condition		
HEAT or COOL switch input out of the specified range	 During the standby mode, heating or cooling states, if the rotary switch input is 6% or less of the vehicle battery voltage, it stops all output and enters the system OFF condition When the switch input returns to a value within the specified range, the system recovers automatically 		
System voltage out of range	 If the system voltage at the climate controlled seat control unit falls outside of the 8.5 to 16.5 V operating range, it stops all output after a 500ms time period. When the system voltage returns to the normal operating range (10.5-15.5V with a 500ms hysteresis), the system recovers automatically. 		

^{*:} System voltage is the voltage between the climate controlled seat control unit power source and ground.

NOTE

When the ignition status changes to OFF during the fail-safe mode, the control unit shall enter the OFF condition. If the ignition is turned ON, the system shall return to the standby mode. If the system enters in the fail-safe mode again after performing ignition cycle, start the diagnosis.

ALL COMPONENTS OF POWER SEAT DO NOT OPERATE

< SYMPTOM DIAGNOSIS >

< SYMPTOM DIAGNOSIS >	_
SYMPTOM DIAGNOSIS	А
ALL COMPONENTS OF POWER SEAT DO NOT OPERATE	\wedge
DRIVER SIDE	
DRIVER SIDE : Diagnosis Procedure	B 92
1. CHECK POWER SUPPLY CIRCUIT AND GROUND CIRCUIT	С
Check power supply circuit and ground circuit. Refer to SE-39, "DRIVER SEAT CONTROL UNIT: Diagnosis Procedure". Is the inspection result normal?	D
YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts.	Е
2.CHECK POWER SEAT SWITCH GROUND CIRCUIT	_
Check power seat switch ground circuit. Refer to <u>SE-67, "DRIVER SIDE : Diagnosis Procedure"</u> . <u>Is the inspection result normal?</u>	F
YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts. 3. CONFIRM THE OPERATION	G
	_
Check the operation again. Is the result normal? YES >> Check intermittent incident. Refer to GI-36, "Intermittent Incident".	Н
NO >> GO TO 1. PASSENGER SIDE	I
PASSENGER SIDE : Diagnosis Procedure	93
1. CHECK POWER SUPPLY AND GROUND CIRCUIT	SE
Check power supply and ground circuit. Refer to SE-39, "PASSENGER SEAT CONTROL UNIT: Diagnosis Procedure".	K
Is the inspection result normal? YES >> GO TO 2.	
NO $>>$ Repair or replace the malfunctioning parts. 2.CHECK POWER SEAT SWITCH GROUND CIRCUIT	L
Check power seat switch ground circuit.	-
Refer to SE-67, "PASSENGER SIDE: Diagnosis Procedure".	M
Is the inspection result normal? YES >> GO TO 3.	Ν
NO >> Repair or replace the malfunctioning parts. 3.CONFIRM THE OPERATION	
Check the operation again.	0
Is the result normal?	
YES >> Check intermittent incident. Refer to GI-36, "Intermittent Incident". NO >> GO TO 1.	Р

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

< SYMPTOM DIAGNOSIS >

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

Diagnosis Procedure

INFOID:0000000004746994

1. CHECK POWER SEAT SWITCH GROUND CIRCUIT

Check power seat switch ground circuit.

Refer to SE-67, "PASSENGER SIDE: Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Check the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-36. "Intermittent Incident".

NO >> GO TO 1.

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SLIDING FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS > SLIDING FUNCTION DOES NOT OPERATE Α DRIVER SIDE DRIVER SIDE: Diagnosis Procedure INFOID:0000000004746995 В 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? D YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2. CHECK SLIDING SWITCH Е Check sliding switch. Refer to SE-49, "DRIVER SIDE: Component Function Check". Is the inspection result normal? F YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts. 3.CHECK SLIDING MOTOR Check sliding motor. Refer to SE-92, "DRIVER SIDE: Component Function Check". Н Is the inspection result normal? YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts. f 4.CONFIRM THE OPERATION Check the operation again. Is the result normal? SE YES >> Check intermittent incident. Refer to GI-36, "Intermittent Incident". NO >> GO TO 1. PASSENGER SIDE K PASSENGER SIDE: Diagnosis Procedure INFOID:0000000004746996 CHECK SLIDING OPERATION Check sliding operation. Which sliding switch is malfunctioning? M Both sides>>GO TO 2. Seatback side>>GO TO 4. Power seat switch side>>GO TO 5. N 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? Р YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts. 3.CHECK SLIDING MOTOR Check sliding motor. Refer to SE-93, "PASSENGER SIDE: Component Function Check".

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Is the inspection result normal?

SLIDING FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4. CHECK SLIDING SWITCH (SEATBACK)

Check sliding switch (seatback).

Refer to SE-52, "SEATBACK: Component Function Check".

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace the malfunctioning parts.

5. CHECK SLIDING SWITCH

Check sliding switch.

Refer to SE-50, "PASSENGER SIDE: Component Function Check".

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace the malfunctioning parts.

6.CONFIRM THE OPERATION

Check the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-36, "Intermittent Incident".

NO >> GO TO 1.

RECLINING FUNCTION DOES NOT OPERATE < SYMPTOM DIAGNOSIS > RECLINING FUNCTION DOES NOT OPERATE Α DRIVER SIDE DRIVER SIDE: Diagnosis Procedure INFOID:0000000004746997 В 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? D YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2.check reclining switch Е Check reclining switch. Refer to SE-55, "DRIVER SIDE: Component Function Check". Is the inspection result normal? F YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts. 3.CHECK FORWARD SWITCH Check forward switch. Refer to SE-69, "DRIVER SIDE: Component Function Check". Н Is the inspection result normal? YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts. 4. CHECK RECLINING MOTOR Check reclining motor. Refer to SE-95, "DRIVER SIDE: Component Function Check". SE Is the inspection result normal? YES >> GO TO 5. NO >> Repair or replace the malfunctioning parts. CONFIRM THE OPERATION Check the operation again. Is the result normal? YFS >> Check intermittent incident. Refer to GI-36, "Intermittent Incident". NO >> GO TO 1. PASSENGER SIDE PASSENGER SIDE: Diagnosis Procedure INFOID:0000000004746998 N 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? YFS >> GO TO 2. NO >> Repair or replace the malfunctioning parts.

Check reclining switch.

Refer to SE-56, "PASSENGER SIDE: Component Function Check".

Is the inspection result normal?

2.CHECK RECLINING SWITCH

RECLINING FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. CHECK FORWARD SWITCH

Check forward switch.

Refer to SE-70, "PASSENGER SIDE: Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4. CHECK RECLINING MOTOR

Check reclining motor.

Refer to SE-96, "PASSENGER SIDE: Component Function Check".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5. CONFIRM THE OPERATION

Check the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-36, "Intermittent Incident".

NO >> GO TO 1.

LIFTING FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS > LIFTING FUNCTION DOES NOT OPERATE Α **FRONT** FRONT: Diagnosis Procedure INFOID:000000004746999 В 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? D 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-59</u>, "<u>DRIVER SIDE</u>: Component Function Check". Passenger side: Refer to SE-60, "PASSENGER SIDE: Component Function Check". 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). Н Driver side: Refer to <u>SÉ-97</u>, "DRIVER SIDE: Component Function Check". Passenger side: Refer to SE-98, "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 SE Check the operation again. Is the result normal? >> Check intermittent incident. Refer to GI-36, "Intermittent Incident". YES NO >> GO TO 1. REAR **REAR**: Diagnosis Procedure INFOID:0000000004747000 1. CHECK LIFTING MECHANISM Check for the following. Mechanism deformation or pinched foreign materials. Interference with other parts because of poor installation. N 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-63, "DRIVER SIDE: Component Function Check"</u>. Р Passenger side: Refer to <u>SE-64</u>, "PASSENGER SIDE: Component Function Check". Is the inspection result normal? YFS >> GO TO 3. NO >> Repair or replace the malfunctioning parts. 3.CHECK LIFTING MOTOR (REAR)

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Check lifting motor (rear).

LIFTING FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

- Driver side: Refer to SE-99, "DRIVER SIDE: Component Function Check".
- Passenger side: Refer to <u>SE-100, "PASSENGER SIDE : Component Function Check"</u>.

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4. CONFIRM THE OPERATION

Check the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-36, "Intermittent Incident".

NO >> GO TO 1.

POWER WALK-IN FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS > POWER WALK-IN FUNCTION DOES NOT OPERATE Α DRIVER SIDE DRIVER SIDE: Diagnosis Procedure INFOID:0000000004747001 В 1. CHECK SEAT SLIDING OPERATION Check seat sliding operation. Is the inspection result normal? YES >> GO TO 2. NO >> Refer to SE-191, "DRIVER SIDE: Diagnosis Procedure". D 2.perform initialization procedure Perform initialization procedure. Refer to SE-9, "SYSTEM INITIALIZATION: Special Repair Requirement". Е Check power walk-in function. Refer to SE-12, "POWER WALK-IN FUNCTION: System Description". Is the inspection result normal? F YES >> Power walk-in function is normal. NO >> GO TO 3. 3.CHECK POWER WALK-IN SWITCH Check power walk-in switch. Refer to SE-81, "DRIVER SIDE: Component Function Check". Н Is the inspection result normal? YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts. 4. CHECK SEAT BELT BUCKLE SWITCH Check seat belt buckle switch. Refer to SE-73, "DRIVER SIDE: Component Function Check". SE 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-69, "DRIVER 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. N Refer to SE-77, "DRIVER SIDE: Component Function Check". 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 SE-85, "Component Function Check" 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 SE-87, "DRIVER SIDE: Component Function Check".

Is the inspection result normal?

YES >> GO TO 9.

NO >> Repair or replace the malfunctioning parts.

9.CONFIRM THE OPERATION

Check the operation again.

Refer to SE-12, "POWER WALK-IN FUNCTION: System Description".

Is the result normal?

YES >> Check intermittent incident. Refer to GI-36, "Intermittent Incident".

NO >> Replace driver seat control unit. Refer to <u>SE-248</u>, "Removal and Installation".

PASSENGÉR SIDE

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000004747002

1. CHECK SEAT SLIDING OPERATION

Check seat sliding operation.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to <u>SE-191, "PASSENGER SIDE : Diagnosis Procedure"</u>.

2.PERFORM INITIALIZATION PROCEDURE

1. Perform initialization procedure.

Refer to SE-9, "SYSTEM INITIALIZATION: Special Repair Requirement".

2. Check power walk-in function.

Refer to SE-12, "POWER WALK-IN FUNCTION: System Description".

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 SE-82, "PASSENGER SIDE: Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4. CHECK SEAT BELT BUCKLE SWITCH

Check seat belt buckle switch.

Refer to SE-74, "PASSENGER SIDE: Component Function Check".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5. CHECK FORWARD SWITCH

Check forward switch.

Refer to SE-70, "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 SE-78, "PASSENGER SIDE: Component Function Check".

Is the inspection result normal?

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POWER WALK-IN FUNCTION DOES NOT OPERATE	
< SYMPTOM DIAGNOSIS >	
YES >> GO TO 7. NO >> Repair or replace the malfunctioning parts.	А
7. CHECK PASSENGER SIDE DOOR SWITCH	
Check passenger side door switch. Refer to SE-85, "Component Function Check"	В
Is the inspection result normal? YES >> GO TO 8.	
NO >> Repair or replace the malfunctioning parts.	С
8. CHECK SLIDING SENSOR	
Check sliding sensor. Refer to SE-87, "DRIVER SIDE: Component Function Check".	D
Is the inspection result normal?	Е
YES >> GO TO 9. NO >> Repair or replace the malfunctioning parts.	
9. CONFIRM THE OPERATION	_
Check the operation again. Refer to SE-12, "POWER WALK-IN FUNCTION: System Description".	—— F
Is the result normal?	
YES >> Check intermittent incident. Refer to GI-36, "Intermittent Incident".	G
NO >> Replace passenger seat control unit. Refer to <u>SE-249, "Removal and Installation"</u> .	
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HEATED SEAT DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

HEATED SEAT DOES NOT OPERATE

BOTH SIDES

BOTH SIDES: Diagnosis Procedure

INFOID:0000000004747003

1. CHECK HEATED SEAT SWITCH POWER SUPPLY

Check heated seat switch power supply.

Refer to SE-43, "HEATED SEAT SWITCH: Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK HEATED SEAT RELAY

Check heated seat relay.

Refer to SE-105, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

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

Check heated seat switch power supply and ground circuit.

Refer to SE-41, "HEATED SEAT CONTROL UNIT: Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4. CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-36, "Intermittent Incident".

NO >> GO TO 1.

DRIVER SIDE

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000004747004

1. CHECK HEATED SEAT SWITCH POWER SUPPLY

Check heated seat switch power supply.

Refer to SE-43, "HEATED SEAT SWITCH: Diagnosis Procedure".

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-41, "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 SE-101, "DRIVER SIDE: Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

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HEATED SEAT DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

< SYMPTOM DIAGNOSIS >	
4. CHECK SEAT CUSHION HEATER	Δ
Check seat cushion heater. Refer to SE-112, "DRIVER SIDE: Component Function Check".	
Is the inspection result normal?	В
YES >> GO TO 5.	Б
NO >> Repair or replace the malfunctioning parts.	
5.CONFIRM THE OPERATION	С
Confirm the operation again.	
Is the inspection result normal?	D
YES >> Check intermittent incident. Refer to GI-36, "Intermittent Incident". NO >> GO TO 1.	
PASSENGER SIDE	_
PASSENGER SIDE : Diagnosis Procedure	OID:0000000004747005
1. CHECK HEATED SEAT SWITCH POWER SUPPLY	F
Check heated seat switch power supply.	
Refer to SE-43, "HEATED SEAT SWITCH: Diagnosis Procedure".	
Is the inspection result normal?	G
YES >> GO TO 2.	
NO \Rightarrow Repair or replace the malfunctioning parts. 2.CHECK HEATED SEAT CONTROL UNIT POWER SUPPLY AND GROUND CIRCUIT	Н
Check heated seat switch power supply and ground circuit. Refer to SE-41, "HEATED SEAT CONTROL UNIT: Diagnosis Procedure".	ı
Is the inspection result normal?	ı
YES >> GO TO 3.	
NO >> Repair or replace the malfunctioning parts. 3.CHECK HEATED SEAT SWITCH	SE
Check heated seat switch. Refer to SE-102, "PASSENGER SIDE: Component Function Check".	K
Is the inspection result normal?	
YES >> GO TO 4.	1
NO >> Repair or replace the malfunctioning parts.	_
4.CHECK SEAT CUSHION HEATER	
Check seat cushion heater. Refer to SE-113, "PASSENGER SIDE: Component Function Check".	M
Is the inspection result normal?	
YES >> GO TO 5.	N
NO >> Repair or replace the malfunctioning parts.	
5.CONFIRM THE OPERATION	
Confirm the operation again.	0
Is the inspection result normal?	
YES >> Check intermittent incident. Refer to GI-36, "Intermittent Incident". NO >> GO TO 1.	Р

SEATBACK HEATER ONLY DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

SEATBACK HEATER ONLY DOES NOT OPERATE

DRIVER SIDE

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000004747006

1. CHECK SEATBACK HEATER

Check seatback heater.

Refer to SE-116, "DRIVER SIDE: Component Function Check".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-36, "Intermittent Incident".

NO >> GO TO 1.

PASSENGER SIDE

PASSENGER SIDE: Diagnosis Procedure

INFOID:0000000004747007

1. CHECK SEATBACK HEATER

Check seatback heater.

Refer to SE-116, "PASSENGER SIDE: Component Function Check".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-36, "Intermittent Incident".

NO >> GO TO 1.

Revision: 2010 March SE-202 2009 G37 Convertible

CANNOT ADJUST HEATED SEAT TEMPERATURE

< SYMPTOM DIAGNOSIS > CANNOT ADJUST HEATED SEAT TEMPERATURE Α DRIVER SIDE DRIVER SIDE: Diagnosis Procedure INFOID:0000000004747008 В 1. CHECK HEATED SEAT SWITCH Check heated seat switch. Refer to SE-101, "DRIVER SIDE: Component Function Check". Is the inspection result normal? YES >> GO TO 2. D NO >> Repair or replace the malfunctioning parts. 2 . CHECK HEAT SENSOR Check heat sensor. Е Refer to SE-107, "DRIVER SIDE: Description". Is the inspection result normal? YES >> GO TO 3. F NO >> Repair or replace the malfunctioning parts. 3.CONFIRM THE OPERATION Confirm the operation again. Is the inspection result normal? >> Check intermittent incident. Refer to GI-36, "Intermittent Incident". Н NO >> Replace heated seat control unit. Refer to SE-250, "Removal and Installation". PASSENGER SIDE PASSENGER SIDE : Diagnosis Procedure INFOID:0000000004747009 1. CHECK HEATED SEAT SWITCH SE Check heated seat switch. Refer to SE-102, "PASSENGER SIDE: Component Function Check". 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 SE-109. "PASSENGER SIDE: Diagnosis Procedure". Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts. 3.CONFIRM THE OPERATION Ν Confirm the operation again. Is the inspection result normal? YES >> Check intermittent incident. Refer to GI-36, "Intermittent Incident". NO >> Replace heated seat control unit. Refer to SE-250, "Removal and Installation".

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HEATED SEAT SWITCH INDICATOR DOES NOT TURN ON

< SYMPTOM DIAGNOSIS >

HEATED SEAT SWITCH INDICATOR DOES NOT TURN ON DRIVER SIDE

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000004747010

1. CHECK HEATED SEAT SWITCH INDICATOR

Check heated seat switch indicator.

Refer to SE-118, "DRIVER SIDE: Component Function Check".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.confirm the operation

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-36, "Intermittent Incident".

NO >> GO TO 1.

PASSENGER SIDE

PASSENGER SIDE: Diagnosis Procedure

INFOID:0000000004747011

1. CHECK HEATED SEAT SWITCH INDICATOR

Check heated seat switch indicator.

Refer to SE-118, "PASSENGER SIDE: Component Function Check".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-36, "Intermittent Incident".

NO >> GO TO 1.

Revision: 2010 March SE-204 2009 G37 Convertible

CLIMATE CONTROLLED SEAT DOES NOT OPERATE.

< SYMPTOM DIAGNOSIS > CLIMATE CONTROLLED SEAT DOES NOT OPERATE. Α DRIVER SIDE DRIVER SIDE: Diagnosis Procedure INFOID:0000000005116269 В Both sides 1. CHECK CLOMATE CONTROLLED SEAT CONTROL UNIT POWER SUPPLY CIRCUIT Check climate controlled seat control unit power supply circuit. Refer to SE-44, "CLIMATE CONTROLLED SEAT CONTROL UNIT: Diagnosis Procedure". Is the inspection result normal? D YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2 .CHECK CLIMATE CONTROLLED SEAT SWITCH Е Check climate controlled seat switch. Refer to SE-120, "Component Function Check". Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts. 3.CONFIRM THE OPERATION Confirm the operation again. Н Is the inspection result normal? YES >> Check intermittent incident, Refer to GI-36, "Intermittent Incident", NO >> GO TO 1. seatback ${f 1}$.CHECK CLIMATE CONTROLLED SEATBACK BLOWER MOTOR SE Check climate controlled seatback blower motor. Refer to SE-131, "Component Function Check". Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2.CONFIRM THE OPERATION Confirm the operation again. Is the inspection result normal? YES >> Check intermittent incident. Refer to GI-36, "Intermittent Incident". NO >> GO TO 1. N seat cushion 1. CHECK CLIMATE CONTROLLED SEAT CUSHION BLOWER MOTOR Check climate controlled seat cushion blower motor. Refer to SE-134, "Component Function Check". Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2.CONFIRM THE OPERATION Confirm the operation again. Is the inspection result normal? YES >> Check intermittent incident. Refer toGI-36, "Intermittent Incident".

NO

>> GO TO 1.

CLIMATE CONTROLLED SEAT DOES NOT OPERATE.

< SYMPTOM DIAGNOSIS >

PASSENGER SIDE

PASSENGER SIDE: Diagnosis Procedure

INFOID:0000000005116270

Both sides

1. CHECK CLIMATE CONTROLLED SEAT CONTROL UNIT POWER SUPPLY AND GROUND CIRCUIT

Check climate controlled seat control unit power supply circuit.

Refer to SE-44, "CLIMATE CONTROLLED SEAT CONTROL UNIT: Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK CLIMATE CONTROLLED SEAT SWITCH

Check climate controlled seat switch.

Refer to SE-120, "Component Function Check".

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 GI-36, "Intermittent Incident".

NO >> GO TO 1.

Seatback

1. CHECK CLIMATE CONTROLLED SEATBACK BLOWER MOTOR

Check climate controlled seatback blower motor.

Refer to SE-131, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-36, "Intermittent Incident".

NO >> GO TO 1.

Seat cushion

1. CHECK CLIMATE CONTROLLED SEAT CUSHION BLOWER MOTOR

Check climate controlled seat cushion blower motor.

Refer to SE-134, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-36, "Intermittent Incident".

NO >> GO TO 1.

TEMPERATURE ADJUSTMENT IS IMPOSSIBLE < SYMPTOM DIAGNOSIS > TEMPERATURE ADJUSTMENT IS IMPOSSIBLE Α SEAT CUSHION BLOWER MOTOR SEAT CUSHION BLOWER MOTOR: Description INFOID:000000000511627 В Blower fan motor noise is constant though performing temperature adjustment operation. NOTE: When turning climate controlled seat switch ON, blower fan motor may stay in the low speed operation for approximately 60 seconds. But this is not a malfunction. SEAT CUSHION BLOWER MOTOR: Diagnosis Procedure INFOID:0000000005116272 D 1. CHECK CLIMATE CONTROLLED SEATBACK BLOWER FILTER Check climate controlled seatback blower filter. Е Refer to SE-139, "SEATBACK BLOWER MOTOR: Diagnosis Procedure". Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2.check climate controlled seat switch Check climate controlled seat switch. Refer to SE-120, "Component Function Check". Is the inspection result normal? YES >> GO TO 3. Н NO >> Repair or replace the malfunctioning parts. 3.CHECK CLIMATE CONTROLLED SEATBACK BLOWER MOTOR Check climate controlled seatback blower motor. Refer to SE-131, "Component Function Check". Is the inspection result normal? SE YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts. f 4.CONFIRM THE OPERATION Confirm the operation again. Is the inspection result normal? YES >> Check intermittent incident. Refer to GI-36, "Intermittent Incident". NO >> GO TO 1. SEAT CUSHION BLOWER MOTOR M SEAT CUSHION BLOWER MOTOR: Description INFOID:0000000005116300 Blower fan motor noise is constant though performing temperature adjustment operation. Ν NOTE:

When turning climate controlled seat switch ON, blower fan motor may stay in the low speed operation for

approximately 60 seconds. But this is not a malfunction.

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INFOID:0000000005116301

SEAT CUSHION BLOWER MOTOR: Diagnosis Procedure

 ${f 1}$.CHECK CLIMATE CONTROLLED SEAT CUSHION BLOWER FILTER

Check climate controlled seat cushion blower filter. Refer to SE-139, "SEAT CUSHION BLOWER MOTOR: Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK CLIMATE CONTROLLED SEAT SWITCH

TEMPERATURE ADJUSTMENT IS IMPOSSIBLE

< SYMPTOM DIAGNOSIS >

Check climate controlled seat switch.

Refer to SE-120, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.check climate controlled seat cushion blower motor

Check climate controlled seat cushion blower motor.

Refer to SE-134, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4. CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-36, "Intermittent Incident".

NO >> GO TO 1.

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CLIMATE CONTROLLED SEAT DOES NOT OPERATES WHEN SWITCH IS DONE IN HEAT OR COOL.

< SYMPTOM DIAGNOSIS > CLIMATE CONTROLLED SEAT DOES NOT OPERATES WHEN SWITCH IS DONE IN HEAT OR COOL. Diagnosis Procedure INFOID:0000000005116273 В 1. CHECK CLIMATE CONTROLLED SEAT SWITCH Check climate controlled seat switch. Refer to SE-120, "Component Function Check". Is the inspection result normal? YES >> GO TO 2. D NO >> Repair or replace the malfunctioning parts. 2.CONFIRM THE OPERATION Е Confirm the operation again. Is the inspection result normal? >> Check intermittent incident. Refer to GI-36, "Intermittent Incident". F NO >> GO TO 1. Н SE K L M

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CLIMATE CONTROLLED SEAT ACTIVATES ONCE BUT STOPS IMMEDIATELY

< SYMPTOM DIAGNOSIS >

CLIMATE CONTROLLED SEAT ACTIVATES ONCE BUT STOPS IMMEDIATELY

SEATBACK BLOWER MOTOR

SEATBACK BLOWER MOTOR: Description

INFOID:0000000005116274

When turning climate controlled seat switch ON (COOL or HEAT), climate controlled seat activates once but stops immediately.(Repeats the same operation when turning ignition switch OFF and turning ignition switch ON again.)

SEATBACK BLOWER MOTOR: Diagnosis Procedure

NFOID:0000000005116275

1.CHECK CLIMATE CONTROLLED SEATBACK BLOWER FILTER

Check climate controlled seatback blower filter.

Refer to SE-139, "SEATBACK BLOWER MOTOR: Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK SEATBACK THERMAL ELECTRIC DEVICE SENSOR

Check seatback thermal electric device sensor.

Refer to SE-125, "Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK SEATBACK THERMAL ELECTRIC DEVICE

Check seatback thermal electric device.

Refer to SE-123, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4. CHECK CLIMATE CONTROLLED SEATBACK BLOWER MOTOR

Check climate controlled seatback blower motor.

Refer to SE-131, "Component Function Check".

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 GI-36, "Intermittent Incident".

NO >> GO TO 1.

SEAT CUSHION BLOWER MOTOR

SEAT CUSHION BLOWER MOTOR: Description

infold:000000005116322

When turning climate controlled seat switch ON (COOL or HEAT), climate controlled seat activates once but stops immediately.(Repeats the same operation when turning ignition switch OFF and turning ignition switch ON again.)

SEAT CUSHION BLOWER MOTOR: Diagnosis Procedure

INFOID:0000000005116323

1. CHECK CLIMATE CONTROLLED SEAT CUSHION BLOWER FILTER

CLIMATE CONTROLLED SEAT ACTIVATES ONCE BUT STOPS IMMEDIATELY

< SYMPTOM DIAGNOSIS >

Check climate controlled seat cushion blower filter. Refer to SE-139, "SEAT CUSHION BLOWER MOTOR: Diagnosis Procedure".	А
Is the inspection result normal?	,
YES >> GO TO 2.	
NO >> Repair or replace the malfunctioning parts.	В
2.CHECK SEAT CUSHION THERMAL ELECTRIC DEVICE SENSOR	
Check seat cushion thermal electric device sensor. Refer to <u>SE-129</u> , " <u>Diagnosis Procedure</u> ".	С
Is the inspection result normal?	
YES >> GO TO 3.	D
NO >> Repair or replace the malfunctioning parts.	
3. CHECK SEAT CUSHION THERMAL ELECTRIC DEVICE	
Check seat cushion thermal electric device. Refer to SE-127, "Component Function Check".	Е
Is the inspection result normal?	
YES >> GO TO 4.	F
NO >> Repair or replace the malfunctioning parts.	
4. CHECK CLIMATE CONTROLLED SEAT CUSHION BLOWER MOTOR	G
Check climate controlled seat cushion blower motor. Refer to SE-134, "Component Function Check".	G
Is the inspection result normal?	Н
YES >> GO TO 5.	
NO >> Repair or replace the malfunctioning parts.	
5.CONFIRM THE OPERATION	
Confirm the operation again.	
Is the inspection result normal?	SE
YES >> Check intermittent incident. Refer to GI-36, "Intermittent Incident".	SE
NO >> GO TO 1.	
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SEAT SWITCH INDICATOR IS NOT ILLUMINATED IN HEAT OR COOL POSITION

< SYMPTOM DIAGNOSIS >

SEAT SWITCH INDICATOR IS NOT ILLUMINATED IN HEAT OR COOL PO-SITION

Diagnosis Procedure

INFOID:0000000005116276

1. CHECK CLIMATE CONTROLLED SEAT SWITCH INDICATOR

Check climate controlled seat indicator.

Refer to SE-137, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-36, "Intermittent Incident".

NO >> GO TO 1.

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Work Flow INFOID:0000000004747012 Customer Interview Duplicate the Noise and Test Drive. Check Related Service Bulletins. Locate the Noise and Identify the Root Cause. Repair the Cause. NG Confirm Repair.

> OK Inspection End

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 SE-217, "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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< SYMPTOM DIAGNOSIS >

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

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

CHECK RELATED SERVICE BULLETINS

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

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

LOCATE THE NOISE AND IDENTIFY THE ROOT CAUSE

- 1. Narrow down the noise to a general area. To help pinpoint the source of the noise, use a listening tool (Chassis ear: J-39570, Engine ear and mechanics stethoscope).
- 2. Narrow down the noise to a more specific area and identify the cause of the noise by:
- Removing the components in the area that is are suspected to be the cause of the noise.
 Do not use too much force when removing clips and fasteners, otherwise clips and fastener can be broken or lost during the repair, resulting in the creation of new noise.
- Tapping or pushing/pulling the component that is are suspected to be the cause of the noise.
 Do not tap or push/pull the component with excessive force, otherwise the noise will be eliminated only temporarily.
- Feeling for a vibration by hand by touching the component(s) that is are suspected to be the cause of the noise.
- Placing a piece of paper between components that are suspected to be the cause of the noise.
- Looking for loose components and contact marks.
 Refer to <u>SE-215</u>, "<u>Inspection Procedure</u>".

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.

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

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

URETHANE PADS [1.5 mm (0.059 in) thick]

Insulates connectors, harness, etc.

76268-9E005: 100×135 mm $(3.94 \times 5.31$ in)/76884-71L01: 60×85 mm $(2.36 \times 3.35$ in)/76884-

71L02:15 \times 25 mm (0.59 \times 0.98 in)

INSULATOR (Foam blocks)

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

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

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

INSULATOR (Light foam block)

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

FELT CLOTHTAPE

Used to insulate where movement does not occur. Ideal for instrument panel applications.

 $68370-4B000: 15 \times 25 \text{ mm} (0.59 \times 0.98 \text{ in}) \text{ pad/}68239-13E00: 5 \text{ mm} (0.20 \text{ in}) \text{ wide tape roll}$

The following materials, not found in the kit, can also be used to repair squeaks and rattles.

UHMW (TEFLON) TAPE

< SYMPTOM DIAGNOSIS > Insulates where slight movement is present. Ideal for instrument panel applications. SILICONE GREASE Α 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. В **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 D INFOID:0000000004747013 Refer to Table of Contents for specific component removal and installation information. INSTRUMENT PANEL Е Most incidents are caused by contact and movement between: 1. The cluster lid A and instrument panel F Acrylic lens and combination meter housing Instrument panel to front pillar garnish Instrument panel to windshield Instrument panel mounting pins 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. SE CENTER CONSOLE Components to pay attention to include: 1. Shifter assembly cover to finisher A/C control unit and cluster lid C 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: Finisher and inner panel making a slapping noise Inside handle escutcheon to door finisher N 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
- Trunk lid striker out of adjustment
- 3. The trunk lid torsion bars knocking together
- 4. A loose license plate or bracket

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< SYMPTOM DIAGNOSIS >

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

SUNROOF/HEADLINING

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

- 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 isolate most of these incidents. Repairs usually consist of insulating with felt cloth tape.

SEATS

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

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

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

UNDERHOOD

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

Causes of transmitted underhood noise include:

- 1. Any component mounted to the engine wall
- 2. Components that pass through the engine wall
- Engine wall mounts and connectors
- 4. 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 vehicle. The best method is to secure, move or insulate one component at a time and test drive the vehicle. Also, engine RPM or load can be changed to isolate the noise. Repairs can usually be made by moving, adjusting, securing, or insulating the component causing the noise.

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

Diagnostic Worksheet

INFOID:0000000004747014



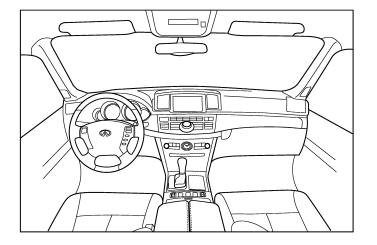
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

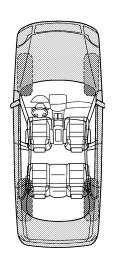
Dear Infiniti Customer:

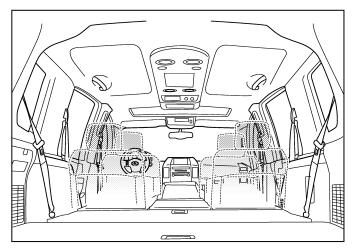
We are concerned about your satisfaction with your Infiniti vehicle. Repairing a squeak or rattle sometimes can be very difficult. To help us fix your Infiniti right the first time, please take a moment to note the area of the vehicle where the squeak or rattle occurs and under what conditions. You may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

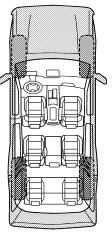
I. WHERE DOES THE NOISE COME FROM? (circle the area of the vehicle)

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









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

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SQUEAK AND RATTLE TROUBLE DIAGNOSES

Briefly describe the location where the no	oise occurs:			
II. WHEN DOES IT OCCUR? (please ch	eck the box	es that ap	ply)	
□ anytime□ 1st time in the morning□ only when it is cold outside□ only when it is hot outside	☐ whe	n it is rain or dusty co	it in the ra ing or wet onditions	
III. WHEN DRIVING:	IV. WHA	AT TYPE	OF NOIS	E
 □ through driveways □ over rough roads □ over speed bumps □ only about mph □ on acceleration □ coming to a stop □ on turns: left, right or either (circle) □ with passengers or cargo □ other: miles or mi 	crea	k (like wa e (like sha k (like a k (like a cloo np (heavy	Iking on a king a ba knock at th ck second	ne door) hand) knock noise)
TO BE COMPLETED BY DEALERSHIP	PERSON	IEL		
Test Drive Notes:				
		VEQ.		
		YES	NO	
				Initials of person performing
Vehicle test driven with customer - Noise verified on test drive - Noise source located and repaired - Follow up test drive performed to confir	m repair			
Noise verified on test driveNoise source located and repaired	Cust	□ □ □	 me:	

This form must be attached to Work Order

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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:

- 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 the "SRS AIR BAG".
- Do not 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:

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the
 ignition ON or engine running, DO NOT 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.

Service Procedure Precautions for Models with a Pop-up Roll Bar

- WARNING:
 Risk of passenger injury or death may increase if the pop-up roll bar does not deploy during a roll over collision. In order to reduce the chance of an incident where the pop-up roll bar is inoperative, all maintenance must be performed by a NISSAN or INFINITI dealer.
- Before removing and installing the pop-up roll bar component parts and harness, always turn the
 ignition switch OFF, disconnect the battery negative terminal, and wait for 3 minutes or more. (The
 purpose of this operation is to discharge electricity that is accumulated in the auxiliary power supply
 circuit in the air bag diagnosis sensor unit.)
- When repairing, removing, and installing a pop-up roll bar, always refer to SRS AIR BAG and SRS AIR BAG CONTROL warnings in the Service Manual.

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

- 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.

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PRECAUTIONS

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- 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.
- Replace a deformed or damaged clip.
- If a part is specified as a non-reusable part, always replace it with new one.
- Be sure to tighten bolts and nuts securely to the specified torque.
- After re-installation is completed, be sure to check that each part works normally.
- Follow the steps below to clean components.
- Water soluble foul: Dip a soft cloth into lukewarm water, and wring the water out of the cloth to wipe the fouled area.
 - Then rub with a soft and dry cloth.
- Oily foul: Dip a soft cloth into lukewarm water with mild detergent (concentration: within 2 to 3%), and wipe the fouled area.
 - Then dip a cloth into fresh water, and wring the water out of the cloth to wipe the detergent off. Then rub with a soft and dry cloth.
- Do not use organic solvent such as thinner, benzene, alcohol, and gasoline.
- For genuine leather seats, use a genuine leather seat cleaner.

PREPARATION

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PREPARATION

PREPARATION

Special Service Tool

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

	Tool number (Kent-Moore No.) Tool name	Description	C
(J39570) Chassis ear		Locates the noise	D E
	SIIA0993E		F
(J43980) NISSAN Squeak and Rattle Kit		Repairs the cause of noise	G
r.it	SIIA0994E		H

Commercial Service Tool

INFOID:0000000004747020

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

CLIP LIST

Clip List

			T
Shapes	Removal & Installation	Shapes	Removal & Installation
	Removal: Remove by bending up with flat-bladed screwdrivers or clip remover.	Clip A	Removal: Finisher Clip A Flat-bladed screwdriver Clip B
TTTT	Removal: Remove with a clip remover.	Clip A Clip B (Grommet)	Removal: Flat-bladed screwdriver Body panel Clip A Clip B (Grommet)
	Removal: Push center pin to catching position. (Do not remove center pin by hitting it.) Push Push		Removal: Holder portion of clip must be spread out to remove rod.
	Removal: Remove by bending up with flat-bladed screwdrivers or clip remover. Clip Finisher		Removal: 1. Screw out with a Phillips screwdriver. 2. Remove female portion with flat-bladed screwdriver.
	Removal:		Removal: Installation: Rotate 45' to remove. Removal:
	Removal:		Removal:

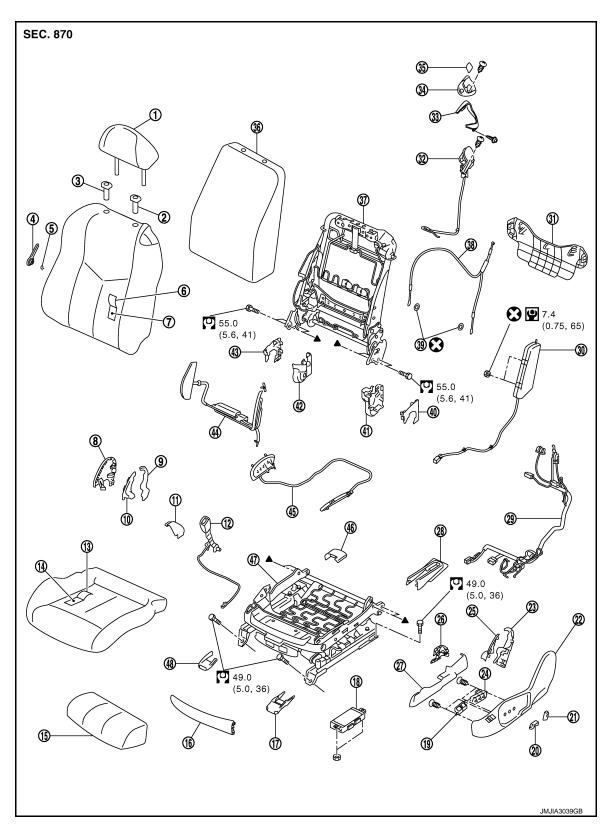
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REMOVAL AND INSTALLATION

FRONT SEAT

Exploded View

DRIVER'S SEAT



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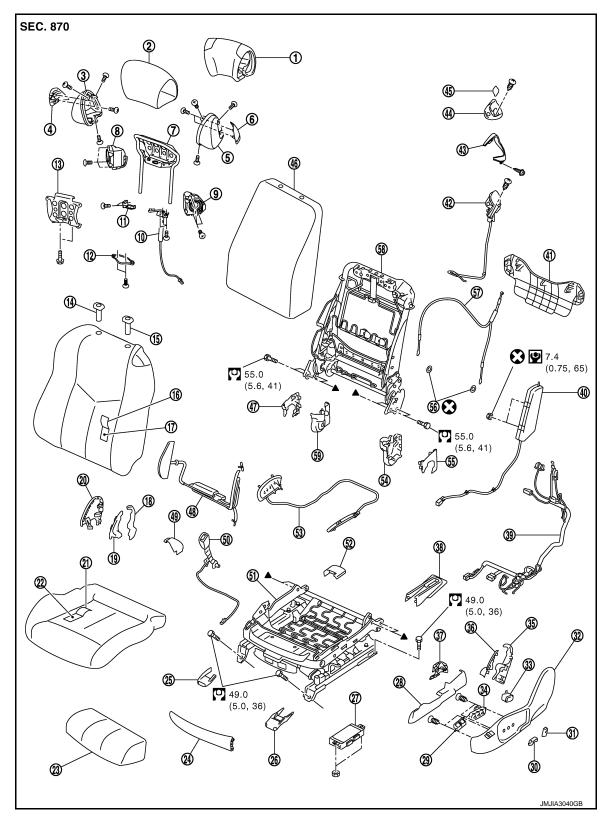
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< REMOVAL AND INSTALLATION >

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

DRIVER'S SEAT WITH HEADREST SPEAKER

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- 1. Headrest pad
- 4. Headrest inner escutcheon
- 7. Headrest frame
- 10. Headrest harness
- 13. Headrest frame front
- 2. Headrest trim cover
- 5. Headrest outer grille
- 8. Driver headrest inner speaker
- 11. Microphone (for AudioPilot®)
- 14. Headrest holder (free)
- 3. Headrest inner grille
- 6. Headrest outer escutcheon
- 9. Driver headrest outer speaker
- 12. Headrest cover
- 15. Headrest holder (locked)

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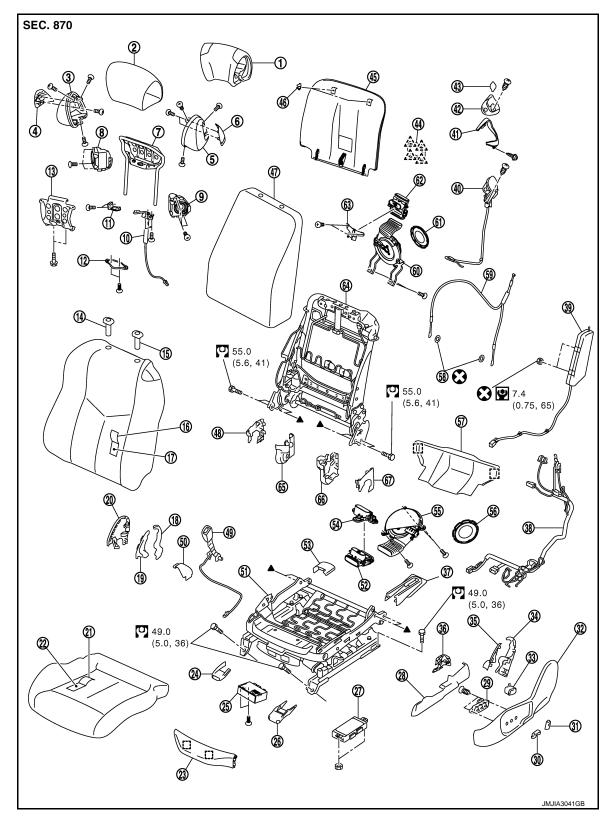
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< REMOVAL AND INSTALLATION >

16	Seatback trim	17.	Seatback pad	18.	Seat cushion inner finisher inside (rear)
19	Seat cushion inner finisher inside (front)	20.	Seat cushion inner finisher	21.	Seat cushion trim
22	Seat cushion pad	23.	Seat cushion pad (front)	24.	Seat cushion front finisher
25	Front inner slide cover	26.	Front outer slide cover	27.	Seat control unit
28	Seat slide outer finisher (outside)	29.	Side support switch	30.	Seat slide and lifter switch knob
31	Seat reclining switch knob	32.	Seat cushion outer finisher	33.	Lumber support switch
34	Seat control switch	35.	Seat cushion outer finisher inside (rear)	36.	Seat cushion outer finisher inside (front)
37	Seat slide outer finisher (inside)	38.	Rear outer slide cover	39.	Seat harness
40	Side air bag module	41.	Seatback lower panel	42.	Walk-in lever
43	Walk-in lever lower escutcheon	44.	Walk-in lever upper escutcheon	45.	Walk-in lever cap
46	Seatback silencer	47.	Reclining device inner cover (outside)	48.	Seatback side support bag and unit
49	Seat slide inner finisher	50.	Seat belt buckle	51.	Seat cushion frame
52	Rear inner slide cover	53.	Seat cushion side support bag	54.	Reclining device outer cover (inside)
55	Reclining device outer cover (outside)	56.	Push nut	57.	Reclining device wire
58	Seatback frame	59.	Reclining device inner cover (inside)		
Re	fer to GI-4, "Components" for symbols	in the	figure.		

DRIVER'S SEAT WITH HEADREST SPEAKER AND AIR CONDITIONER

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- 1. Headrest pad
- 4. Headrest inner escutcheon
- 7. Headrest frame
- 10. Headrest harness
- 13. Headrest frame front
- 2. Headrest trim cover
- 5. Headrest outer grille
- 8. Driver headrest inner speaker
- 11. Microphone (for AudioPilot®)
- 14. Headrest holder (free)
- 3. Headrest inner grille
- 6. Headrest outer escutcheon
- 9. Driver headrest outer speaker
- 12. Headrest cover
- 15. Headrest holder (locked)

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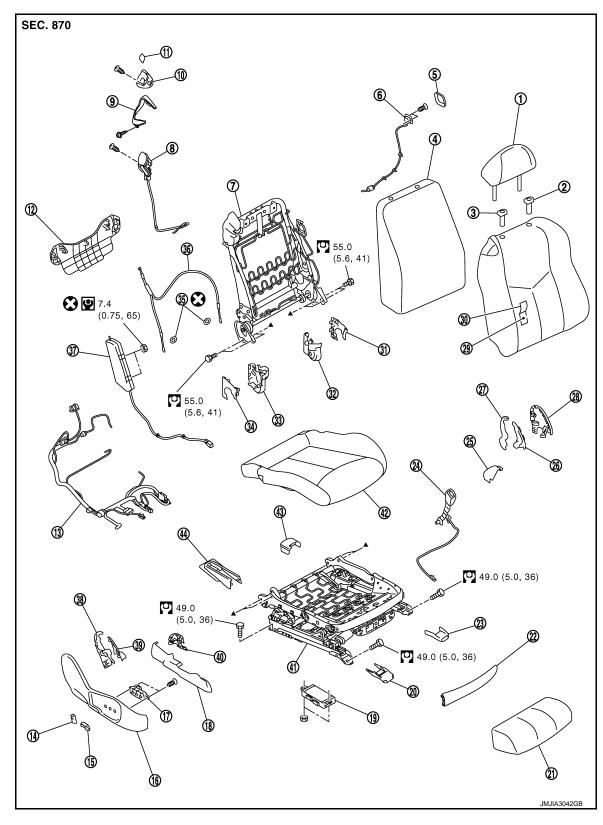
< REMOVAL AND INSTALLATION >

16.	Seatback trim	17.	Seatback pad	18.	Seat cushion inner finisher inside (rear)
19.	Seat cushion inner finisher inside (front)	20.	Seat cushion inner finisher	21.	Seat cushion trim
22.	Seat cushion pad	23.	Seat cushion front finisher	24.	Front inner slide cover
25.	Seat A/C control unit	26.	Front outer slide cover	27.	Seat control unit
28.	Seat slide outer finisher (outside)	29.	Seat control switch	30.	Seat slide and lifter switch knob
31.	Seat reclining switch knob	32.	Seat cushion outer finisher	33.	Lumber support switch
34.	Seat cushion outer finisher inside (rear)	35.	Seat cushion outer finisher inside (front)	36.	Seat slide outer finisher (inside)
37.	Rear outer slide cover	38.	Seat harness	39.	Side air bag module
40.	Walk-in lever	41.	Walk-in lever lower escutcheon	42.	Walk-in lever upper escutcheon
43.	Walk-in lever cap	44.	Seatback board grille	45.	Seatback board
46.	Seatback board clip	47.	Seatback silencer	48.	Reclining device inner cover (outside)
49.	Seat belt buckle	50.	Seat slide inner finisher	51.	Seat cushion frame
52.	Seat cushion thermal electric device	53.	Rear inner slide cover	54.	Seat cushion A/C duct
55.	Seat cushion blower unit	56.	Seat cushion A/C filter	57.	Seatback lower panel
58.	Push nut	59.	Reclining device wire	60.	Seatback blower unit
61.	Seatback A/C filter	62.	Seatback thermal electric device	63.	Seatback thermal electric device bracket
64.	Seatback frame	65.	Reclining device inner cover (inside)	66.	Reclining device outer cover (inside)
67.	Reclining device outer cover (out-				

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

PASSENGER'S SEAT

Revision: 2010 March SE-228 2009 G37 Convertible



- 1. Headrest
- 4. Seatback silencer
- 7. Seatback frame
- 10. Walk-in lever upper escutcheon
- 13. Seat harness
- 16. Seat cushion outer finisher
- 2. Headrest holder (locked)
- 5. Slide switch escutcheon
- 8. Walk-in lever
- 11. Walk-in lever cap
- 14. Seat reclining switch knob
- 17. Seat control switch

- 3. Headrest holder (free)
- 6. Slide switch (seatback)
- 9. Walk-in lever lower escutcheon
- 12. Seatback lower panel
- 15. Seat slide and lifter switch knob
- 18. Seat slide outer finisher

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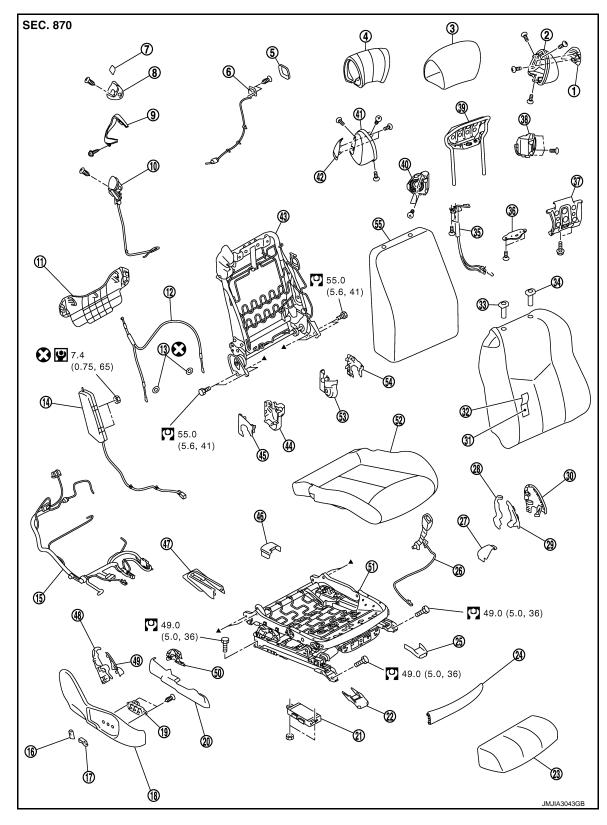
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< REMOVAL AND INSTALLATION >

19.	Seat control unit	20.	Front outer slide cover	21.	Seat cushion pad (front)				
22.	Seat cushion front finisher	23.	Front inner slide cover	24.	Seat belt buckle				
25.	Seat slide inner finisher	26.	Seat cushion inner finisher inside (front)	27.	Seat cushion inner finisher inside (rear)				
28.	Seat cushion inner finisher	29.	Seatback pad	30.	Seatback trim				
31.	Reclining device inner cover (outside)	32.	Reclining device inner cover (inside)	33.	Reclining device outer cover (inside)				
34.	Reclining device outer cover (outside)	35.	Push nut	36.	Reclining device wire				
37.	Side air bag module	38.	Seat cushion outer finisher inside (rear)	39.	Seat cushion outer finisher inside (front)				
40.	Seat slide outer finisher (inside)	41.	Seat cushion frame	42.	Seat cushion trim & pad				
43.	Rear inner slide cover	44.	Rear outer slide cover						
Refe	Refer to GI-4, "Components" for symbols in the figure.								

PSSENGER'S SEAT WITH HEAD REST SPEAKER

Revision: 2010 March SE-230 2009 G37 Convertible



- 1. Headrest inner escutcheon
- 4. Headrest pad
- 7. Walk-in lever cap
- 10. Walk-in lever
- 13. Push nut
- 16. Seat reclining switch knob
- 2. Headrest inner grille
- 5. Slide switch escutcheon
- 8. Walk-in lever upper escutcheon
- 11. Seatback lower panel
- 14. Side air bag module
- 17. Seat slide and lifter switch knob
- 3. Headrest trim cover
- 6. Slide switch (seatback)
- 9. Walk-in lever lower escutcheon
- 12. Reclining device wire
- 15. Seat harness
- 18. Seat cushion outer finisher

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Revision: 2010 March SE-231 2009 G37 Convertible

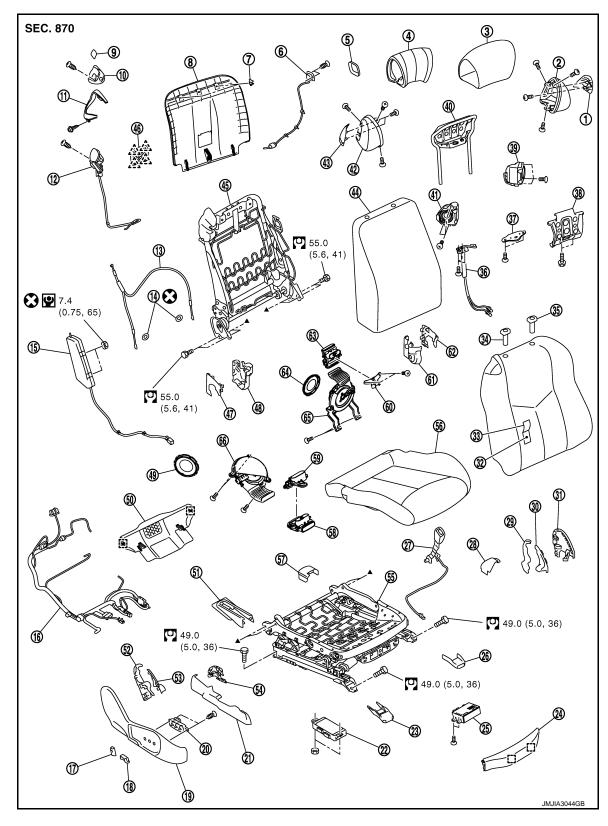
< REMOVAL AND INSTALLATION >

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

19.	Seat control switch	20.	Seat slide outer finisher	21.	Seat control unit
22.	Front outer slide cover	23.	Seat cushion pad (front)	24.	Seat cushion front finisher
25.	Front inner slide cover	26.	Seat belt buckle	27.	Seat slide inner finisher
28.	Seat cushion inner finisher inside (rear)	29.	Seat cushion inner finisher inside (front)	30.	Seat cushion inner finisher
31.	Seatback pad	32.	Seatback trim	33.	Headrest holder (free)
34.	Headrest holder (locked)	35.	Headrest harness	36.	Headrest cover
37.	Headrest frame front	38.	Passenger headrest inner speaker	39.	Headrest frame
40.	Passenger headrest outer speaker	41.	Headrest outer grille	42.	Headrest outer escutcheon
43.	Seatback frame	44.	Reclining device outer cover (inside)	45.	Reclining device outer cover (outside)
46.	Rear inner slide cover	47.	Rear outer slide cover	48.	Seat cushion outer finisher inside (rear)
49.	Seat cushion outer finisher inside (front)	50.	Seat slide outer finisher (inside)	51.	Seat cushion frame
52.	Seat cushion trim & pad	53.	Reclining device inner cover (inside)	54.	Reclining device inner cover (outside)
55.	Seatback silencer				

PASSENGER'S SEAT WITH HEADREST SPEAKER AND AIR CONDITIONER

Revision: 2010 March SE-232 2009 G37 Convertible



- 1. Headrest inner escutcheon
- 4. Headrest pad
- 7. Seatback board clip
- 10. Walk-in lever upper escutcheon
- 13. Reclining device wire
- 16. Seat harness

- 2. Headrest inner grille
- 5. Slide switch escutcheon
- 8. Seatback board
- 11. Walk-in lever lower escutcheon
- 14. Push nut
- 17. Seat reclining switch knob
- 3. Headrest trim cover
- 6. Slide switch (seatback)
- 9. Walk-in lever cap
- 12. Walk-in lever
- 15. Side air bag module
- 18. Seat slide and lifter switch knob

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< REMOVAL AND INSTALLATION >

19.	Seat cushion outer finisher	20.	Seat control switch	21.	Seat slide outer finisher
22.	Seat control unit	23.	Front outer slide cover	24.	Seat cushion front finisher
25.	Seat A/C control unit	26.	Front inner slide cover	27.	Seat belt buckle
28.	Seat slide inner finisher	29.	Seat cushion inner finisher inside (rear)	30.	Seat cushion inner finisher inside (front)
31.	Seat cushion inner finisher	32.	Seatback pad	33.	Seatback trim
34.	Headrest holder (free)	35.	Headrest holder (locked)	36.	Headrest harness
37.	Headrest cover	38.	Headrest frame front	39.	Passenger headrest inner speaker
40.	Headrest frame	41.	Passenger headrest outer speaker	42.	Headrest outer grille
43.	Headrest outer escutcheon	44.	Seatback silencer	45.	Seatback frame
46.	Seatback board grille	47.	Reclining device outer cover (outside)	48.	Reclining device outer cover (inside)
49.	Seat cushion A/C filter	50.	Seatback lower panel	51.	Rear outer slide cover
52.	Seat cushion outer finisher inside (rear)	53.	Seat cushion outer finisher inside (front)	54.	Seat slide outer finisher (inside)
55.	Seat cushion frame	56.	Seat cushion trim & pad	57.	Rear inner slide cover
58.	Seat cushion thermal electric device	59.	Seat cushion A/C duct	60.	Seatback thermal electric device bracket
61.	Reclining device inner cover (inside)	62.	Reclining device inner cover (outside)	63.	Seatback thermal electric device
64.	Seatback A/C filter	65.	Seatback blower unit	66.	Seat cushion blower unit
Refe	er to GI-4, "Components" for symbols in	n the	figure.		

Removal and Installation

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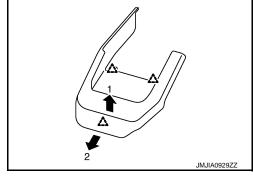
REMOVAL

CAUTION:

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

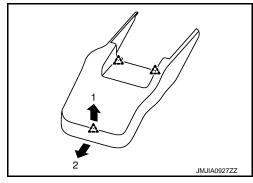
- 1. Remove the front slide cover.
- a. Front outer slide cover
 - Slide the seat to the rearmost position.
 - Pull up the front edge of the front slide cover to release the pawls.
 - Slide the front slide cover forward to release the pawls.





- 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.



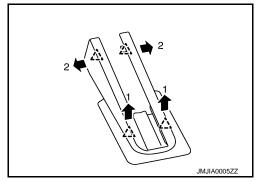


- 2. Remove the mounting bolts on the front side of the front seat.
- 3. Remove the rear slide cover.

< REMOVAL AND INSTALLATION >

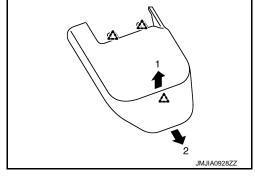
- a. Rear outer slide cover
 - Slide the seat to the foremost position.
 - Pull up the rear edge of the rear outer slide cover to release the pawls.
 - Open the front end of the rear outer slide cover to release the pawls.





- 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.





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

- Set seatback in a standing position.
- 6. Disconnect harness connectors 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.

7. 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 models) Refer to <u>ADP-9</u>, "<u>ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL</u>: Special Repair Requirement". (without automatic drive positioner models) Refer to <u>SE-9</u>, "<u>ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL</u>: Special Repair Requirement".

Disassembly and Assembly

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SEATBACK

Disassembly

1. Remove the seat cushion outer finisher.

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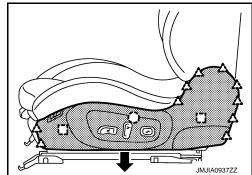
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< REMOVAL AND INSTALLATION >

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

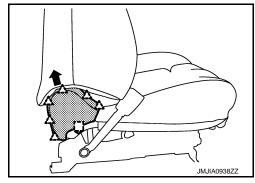


• Disconnect the seat control switch, lumbar support switch (except for driver side seat with air conditioner) and side support switch (with side support seat only) harness connector.

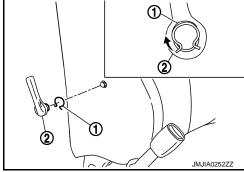


- Remove the seat cushion outer finisher inside (front, rear).
- 2. Remove the seat cushion inner finisher.
 - Remove the seat cushion inner finisher inside (front, rear) by releasing the metal clip and pull it up together with the cover.
 - Remove the seat cushion inner finisher inside (front, rear)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



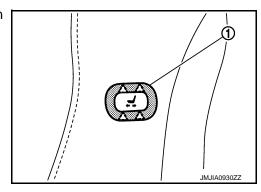


3. Remove the lumbar support lever knob. (with manual lumbar support seat only.)
Pull snap ring (1) upward, and remove lumbar support lever knob (2) from seatback frame. Using a hook and pick tool.



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

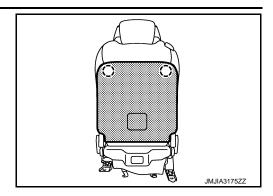




· Remove seatback board.

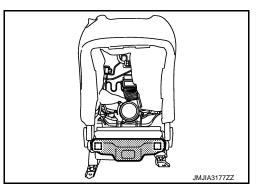
< REMOVAL AND INSTALLATION >



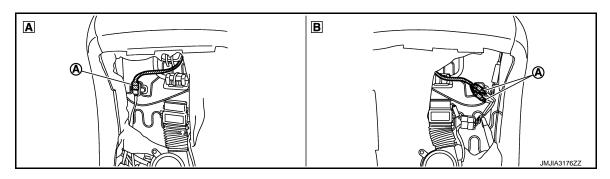


• Remove the seatback lower panel.

: Metal clip



• Disconnect headrest speaker harness connector (A). (except seat without headrest speaker.)



(A) : Driver seat

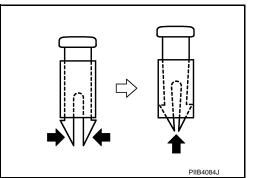
(B) : Passenger seat

• Remove headrest.

• Remove headrest holders.

CAUTION:

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



• Remove side air bag module.

• Remove the walk-in lever cap.

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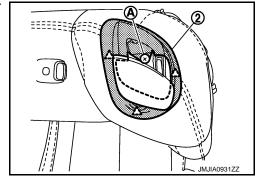
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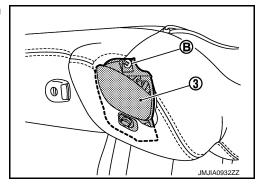
< REMOVAL AND INSTALLATION >

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

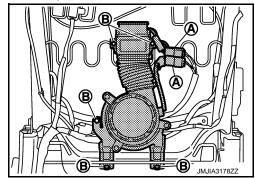




• Remove the screw (B), and then pull the seatback trim from the walk-in lever (3).

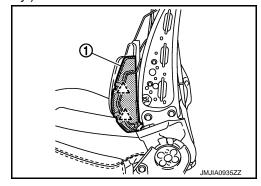


- Remove the walk-in lever lower escutcheon.
- Remove the seatback trim and seatback pad from the seatback frame.
- Remove the hog rings, and separate the seatback trim and seatback pad.
- 5. Remove the seatback silencer.
- 6. Remove seatback air conditioner unit.(except seat without air conditioner.)
 - Disconnect harness connectors (A).
 - Remove seatback air conditioner unit mounting screws (B).



- 7. Disconnect the harness connectors.
- 8. Remove the side support bag and unit. (with side support seats only.)
 - Remove the pawls, and then remove side support bag (1).
 - Remove the side support unit.

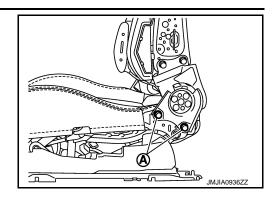




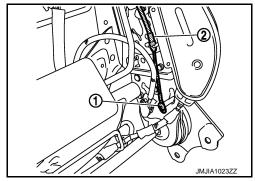
9. Remove the seatback frame.

< REMOVAL AND INSTALLATION >

Remove the seatback frame mounting bolts (A).



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



13. Remove the walk-in lever.

Assembly

Assemble in the reverse order of disassembly.

CAUTION:

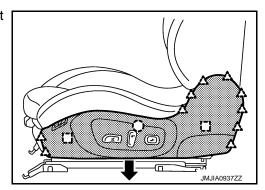
Install the hog rings of seatback trim in position, and then securely connect the trim or trim cord with the pad side wire.

SEAT CUSHION

Disassembly

CAUTION:

- Never disassemble front passenger seat cushion assembly.
- Always replace as an assembly.
- For front passenger seat service parts, refer to the service part catalogue.
- 1. Remove the seat cushion outer finisher.
 - Remove the metal clips, clips and pawls, and then pull out seat cushion outer finisher.



- Disconnect the seat control switch, lumbar support switch (except for driver side seat with air conditioner) and side support switch (with side support seat only) harness connector.
- Remove the seat cushion outer finisher inside (front, rear).
- Remove the seat cushion inner finisher.

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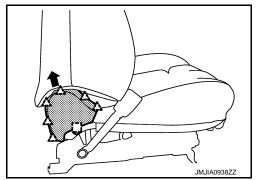
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< REMOVAL AND INSTALLATION >

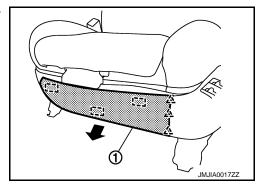
- Remove the seat cushion inner finisher inside (front, rear) by releasing the metal clip and pull it up together with the cover.
- Remove the seat cushion inner finisher inside (front, rear) from the seat cushion inner finisher by releasing the pawls.

	: Metal clip
^	: Pawl



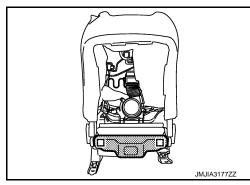
3. Remove the seat cushion front finisher. Remove the metal clips, and then pull out seat cushion front finisher (1).



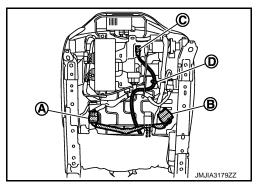


4. Remove seatback lower panel.

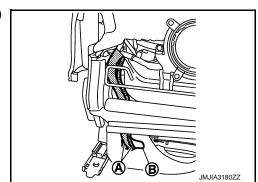
: Metal clip



- 5. Disconnect harness connectors (A) and (B).
- 6. Remove side air bag harness connector fixing clips (C).
- 7. Remove side air bag harness fixing clamp (D).

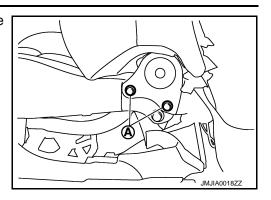


8. Remove seat cushion trim retainers and pull out harness (A) through the hole of seat cushion trim (B).

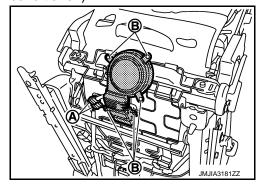


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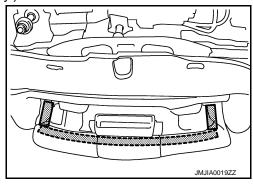
9. Remove the seatback mounting bolts (A), and then remove the seatback assembly.



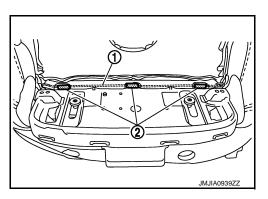
- 10. Remove seat cushion air conditioner unit.(except seat without air conditioner.)
 - Disconnect harness connectors (A).
 - Remove seatback air conditioner unit mounting screws (B).



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



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



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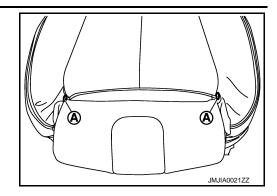
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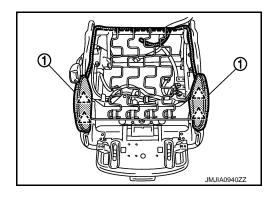
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• Remove the clips (A).(Thigh extension model only.)



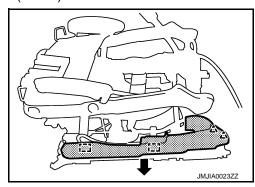
- Remove the seat cushion retainer.
- Disconnect the seat cushion heater unit harness connector.
- Remove the hog rings, and separate the seat cushion trim and seat cushion pad.
- 13. Remove the side support bag.(Side support model only.)
 - Remove the hose clamp.
 - Remove the pawls, and then remove side support bag (1).





- 14. 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).

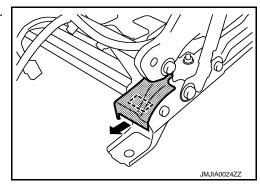
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15. Remove the seat slide inner finisher.

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





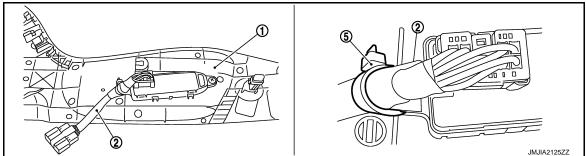
Assembly

1. Assemble in the reverse order of disassembly.

CAUTION:

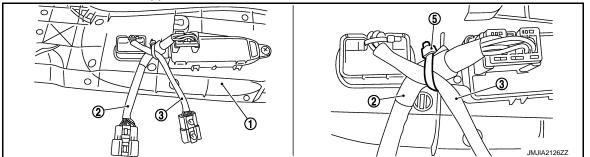
Install the hog rings of seat cushion trim in position, and then securely connect the trim or trim cord with the pad side wire.

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



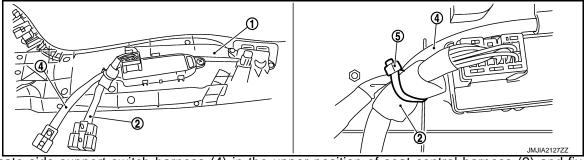
Fix seat control harness (2) to seat cushion outer finisher (1) boss using a self locking band (5) as shown in the figure.

Normal seat with lumbar support switch



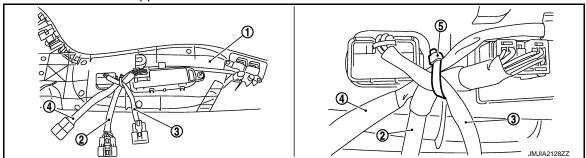
Locate lumbar support switch harness (3) in the forehand position, cross seat control harness (2), and fix to seat cushion outer finisher (1) boss using a self locking band (5) as shown in the figure.

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.

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:

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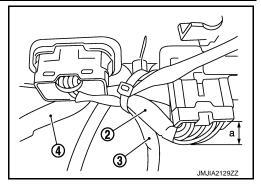
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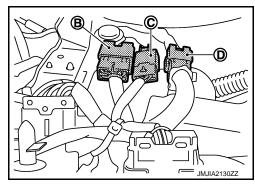
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< REMOVAL AND INSTALLATION >

- 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.



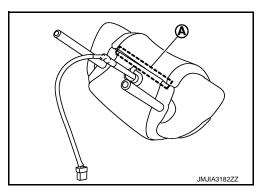
 Locate lumbar support switch harness crossing in the upper position, fix seat control harness connector (B), lumbar support switch harness connector (C), and side support harness connector (D) as shown in the figure.



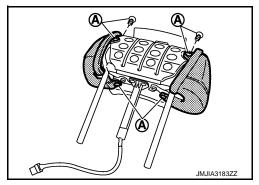
HEADREST (WITH HEADREST SPEAKER ONLY)

Disassembly

1. Remove headrest trim retainer (A), and then remove headrest trim cover.



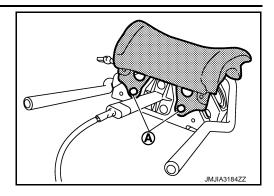
- 2. Remove headrest cover.
- 3. Remove headrest pad.
- 4. Remove mounting screws (A), and then remove headrest outer/inner grille.



- 5. Remove following parts after removing headrest outer/inner grille.
 - Headrest outer/inner escutcheon.
 - Microphone (for AudioPilot®). Refer to AV-747, "Removal and Installation".

< REMOVAL AND INSTALLATION >

6. Remove mounting bolts (A), and then headrest frame front.



7. Remove headrest outer/inner speakers. Refer to AV-745. "Removal and Installation".

Assembly

Assembly in the reverse order of disassembly.

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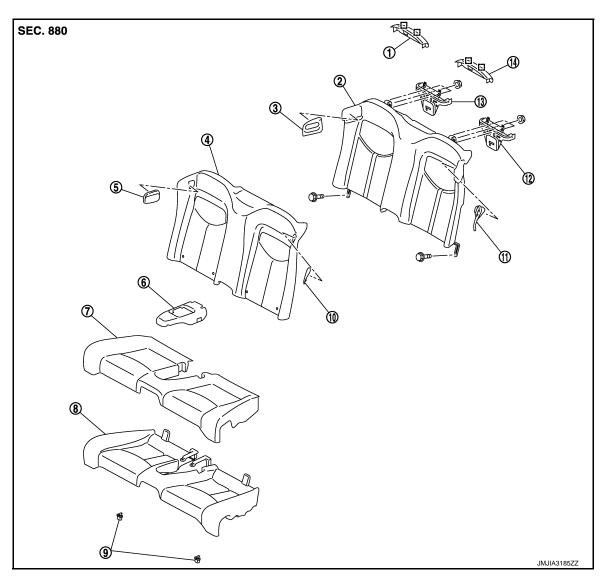
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REAR SEAT

Exploded View

REAR SEAT



- 1. Pop-up roll bar cover (RH)
- 4. Seatback trim
- 7. Seat cushion trim
- 10. Rear seat belt escutcheon LH
- 13. Seatback bracket RH
- [] : Metal clip

- 2. Seatback pad
- 5. Rear seat belt escutcheon RH
- 8. Seat cushion pad
- 11. Seatback inner bezel LH
- 14. Pop-up roll bar cover (LH)
- 3. Seatback inner bezel RH
- 6. Seat cushion tray
- 9. Seat cushion hook
- 12. Seatback bracket LH

Removal and Installation

INFOID:0000000004747025

REMOVAL

CAUTION:

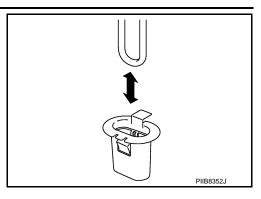
When removing and installing, use shop cloths to protect parts from damage.

1. Remove the seat cushion.

REAR SEAT

< REMOVAL AND INSTALLATION >

- 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 rear seat belt outer anchor mounting bolts (LH/RH).
 - Remove rear seatback mounting bolts (LH/RH).
 - Remove rear seat belt escutcheons (LH/RH).
 - Pull seatback up, and then remove seatback.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

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

Disassembly and Assembly

INFOID:0000000004747026

SEATBACK

Disassembly

- 1. Remove the hog rings, and remove the seatback retainer.
- 2. Remove the hog rings to separate the seatback trim and seatback pad.
- Remove seatback inner bezels (LH/RH).

Assembly

Assemble in the reverse order of disassembly.

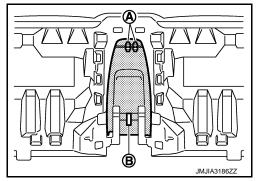
CAUTION:

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

SEAT CUSHION

Disassembly

Remove seat cushion tray.
 Remove the clips (A) from the seat cushion backside, and then remove hook (B) when pulling seat cushion tray.



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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DRIVER SEAT CONTROL UNIT

< REMOVAL AND INSTALLATION >

DRIVER SEAT CONTROL UNIT

Exploded View

Refer to SE-223, "Exploded View".

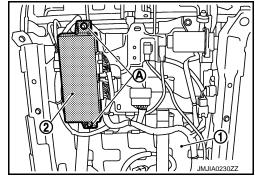
Removal and Installation

REMOVAL

CAUTION:

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

- 1. Remove driver seat (1). Refer to <u>SE-234, "Removal and Installation".</u>
- 2. Remove mounting bolts (A).
- 3. Remove driver seat control unit (2).



INSTALLATION

Install in the reverse order of removal.

CAUTION:

Always clamp the harness to the right place.

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PASSENGER SEAT CONTROL UNIT

< REMOVAL AND INSTALLATION > PASSENGER SEAT CONTROL UNIT Α **Exploded View** INFOID:0000000004747031 Refer to SE-223, "Exploded View". В Removal and Installation INFOID:0000000004747032 **REMOVAL CAUTION:** When removing and installing, use shop cloths to protect parts from damage. NOTE: D The same procedure is performed for driver side. Refer to <u>SE-248, "Removal and Installation"</u>. INSTALLATION Е Install in the reverse order of removal. **CAUTION:** Always clamp the harness to the right place. F Н SE K L M Ν 0

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HEATED SEAT CONTROL UNIT

< REMOVAL AND INSTALLATION >

HEATED SEAT CONTROL UNIT

Exploded View

Refer to SE-223, "Exploded View".

Removal and Installation

REMOVAL

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-223, "Exploded View"</u>.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

Always clamp the harness to the right place.

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AUTOMATIC DRIVE POSITIONER CONTROL UNIT

< REMOVAL AND INSTALLATION >

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

Exploded View

Refer to IP-12, "Exploded View".

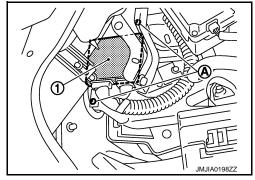
Removal and Installation

REMOVAL

CAUTION:

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

- 1. Remove the battery negative terminal.
- 2. Remove the instrument driver lower panel. Refer to <u>IP-13</u>, <u>"Removal and Installation"</u>.
- 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.

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Revision: 2010 March SE-251 2009 G37 Convertible

POWER SEAT SWITCH

< REMOVAL AND INSTALLATION >

POWER SEAT SWITCH

Removal and Installation

REMOVAL

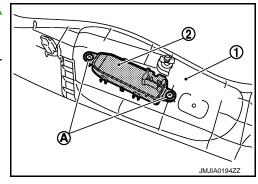
CAUTION:

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-234.</u> "Removal and Installation".
- 2. Remove the screws (A).
- 3. Remove the power seat switch (2) from the seat cushion outer finisher.



INFOID:0000000004747037

INSTALLATION

Install in the reverse order of removal.

CAUTION:

Always clamp the harness to the right place.

Revision: 2010 March SE-252 2009 G37 Convertible

SLIDING SWITCH

< REMOVAL AND INSTALLATION >

SLIDING SWITCH

SEATBACK

SEATBACK: Removal and Installation

INFOID:0000000004747038

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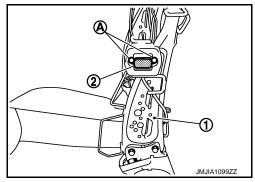
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REMOVAL

CAUTION:

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

- 1. Remove seatback pad. Refer to <u>SE-234, "Removal and Installation"</u>.
- 2. Remove screws (A).
- 3. Disconnect seat sliding switch (seatback) connector.
- 4. 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.

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Revision: 2010 March SE-253 2009 G37 Convertible

SIDE SUPPORT SWITCH

< REMOVAL AND INSTALLATION >

SIDE SUPPORT SWITCH

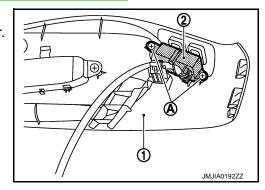
Removal and Installation

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-234, "Removal and Installation"</u>.
- 2. Remove screws (A).
- 3. Remove side support switch (2) from seat cushion outer finisher.



INFOID:0000000004747039

INSTALLATION

Install in the reverse order of removal.

CAUTION:

Always clamp the harness to the right place.

LUMBAR SUPPORT SWITCH

< REMOVAL AND INSTALLATION >

LUMBAR SUPPORT SWITCH

Removal and Installation

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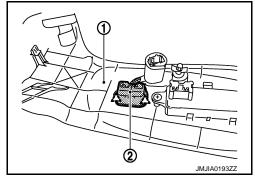
REMOVAL

CAUTION:

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

- Remove seat cushion outer finisher (1). Refer to <u>SE-234.</u> <u>"Removal and Installation"</u>
- 2. Remove lumbar support switch (2).





INSTALLATION

Install in the reverse order of removal.

CAUTION:

Always clamp the harness to the right place.

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Revision: 2010 March SE-255 2009 G37 Convertible

HEATED SEAT SWITCH

< REMOVAL AND INSTALLATION >

HEATED SEAT SWITCH

Exploded View

Refer to IP-24, "Exploded View".

Removal and Installation

REMOVAL

CAUTION:

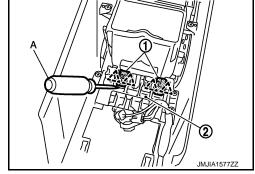
When removing and installing, use shop cloths to protect from damage.

- 1. Remove the console body assembly. Refer to IP-25, "Removal and Installation"
- 2. Remove heated seat switch (1) from switch bracket (2) with flatbladed screwdriver (A).



NOTE:

The same procedure is performed for passenger side.



INSTALLATION

Install in the reverse order of removal.

Revision: 2010 March SE-256 2009 G37 Convertible

CLIMATE CONTROLLED SEAT SWITCH

< REMOVAL AND INSTALLATION >

CLIMATE CONTROLLED SEAT SWITCH

Exploded View

Refer to IP-24, "Exploded View".

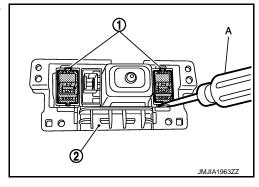
Removal and Installation

REMOVAL

CAUTION:

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

- 1. Remove the console upper finisher, console finisher assembly, cup holder assembly and console switch finisher. Refer to <u>IP-25</u>, "Removal and Installation"
- 2. Climate controlled seat switch (1) is removed from console switch finisher (2) using flat-bladed screwdriver (A) etc.



INSTALLATION

Install in the reverse order of removal.

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Revision: 2010 March SE-257 2009 G37 Convertible

CLIMATE CONTROLLED SEAT BLOWER FILTER

< REMOVAL AND INSTALLATION >

CLIMATE CONTROLLED SEAT BLOWER FILTER

SEAT CUSHION

SEAT CUSHION: Exploded View

INFOID:0000000004747445

Refer to SE-223, "Exploded View".

SEAT CUSHION: Removal and Installation

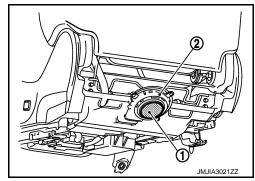
INFOID:0000000004747446

REMOVAL

CAUTION:

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

- 1. Remove the seat cushion rear finisher.
- 2. Turn blower filter (1) counter clockwise and remove it from climate controlled seat blower motor (2).



INSTALLATION

Install in the reverse order of removal.

Replacement interuals

Blower filter replacement interuals :Every 24 months or 48,000km

SEATBACK

SEATBACK: Exploded View

INFOID:0000000005031902

Refer to SE-223, "Exploded View".

SEATBACK: Removal and Installation

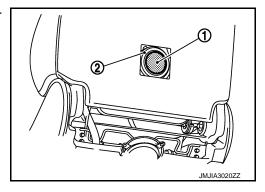
INFOID:0000000005031903

REMOVAL

CAUTION:

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

- 1. Remove the seatback escutcheon.
- 2. Turn blower filter (1) counter clockwise and remove it from climate controlled seat blower motor (2).



INSTALLATION

Install in the reverse order of removal.

Replacement interuals

CLIMATE CONTROLLED SEAT BLOWER FILTER

< REMOVAL AND INSTALLATION >

Blower filter replacement interuals :Every 24 months or 48,000km Α В С D Е F Н SE Κ L M Ν 0 Ρ

Revision: 2010 March SE-259 2009 G37 Convertible