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< BASIC INSPECTION >

BASIC INSPECTION DIAGNOSIS AND REPAIR WORK FLOW

WorkFlow

INFOID:000000005629728

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>><u>SE-158, "DTC Index"</u>.

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?

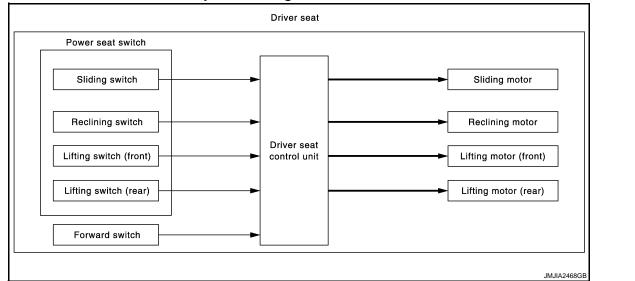
YES >> INSPECTION END NO >> GO TO 4.

INSPECTION AND ADJUSTMENT < BASIC INSPECTION > INSPECTION AND ADJUSTMENT А ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : De-В scription INFOID:000000005629729 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:000000005629730 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 INFOID:00000000562973 Initial setting is necessary when battery terminal is removed, driver seat control unit or passenger seat control unit is replaced. Н ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement INFOID:000000005629732 **1.**SYSTEM INITIALIZATION Perform system initialization. Refer to SE-9, "SYSTEM INITIALIZATION : Description". SE >> Work end. SYSTEM INITIALIZATION SYSTEM INITIALIZATION : Description INFOID:000000005629733 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:000000005629734 Μ INITIALIZATION PROCEDURE **1.** STEP-1 Ν Slide the seat to the front edge. NOTE: If seat sliding position is already at the front edge, slide the seat backward once it to the front edge again. >> Work end. Ρ

< SYSTEM DESCRIPTION >

SYSTEM DESCRIPTION POWER SEAT FOR DRIVER SIDE POWER SEAT FUNCTION

POWER SEAT FUNCTION : System Diagram



POWER SEAT FUNCTION : System Description

INFOID:000000005629736

INFOID:000000005629735

- 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.
- 3. Power walk-in switch OFF.

WAKE-UP MODE

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

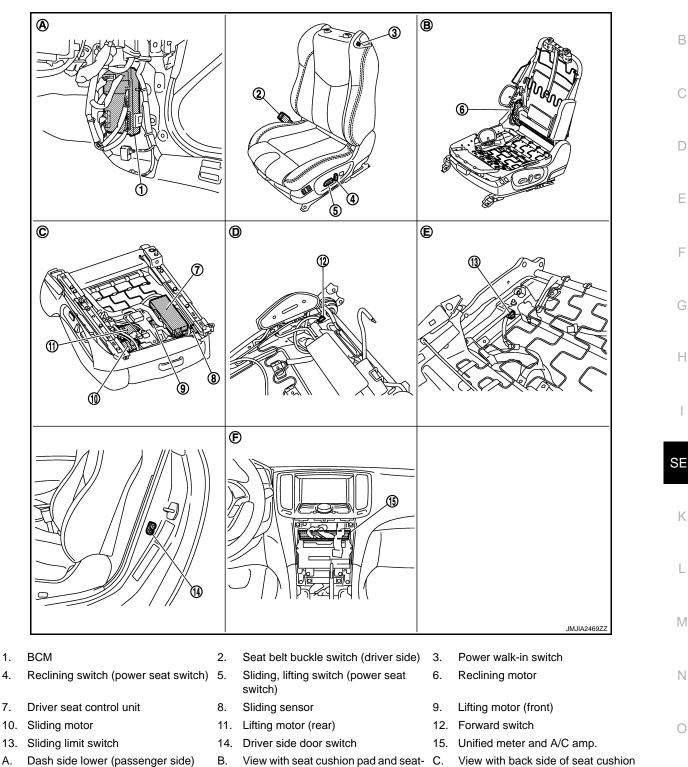
- 1. CAN communication.
- 2. Power seat switch.
- 3. Power walk-in switch.

< SYSTEM DESCRIPTION >

POWER SEAT FUNCTION : Component Parts Location



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- D. View with seatback pad removed
- back pad removed
- Ε. View with seat cushion pad removed F.
- Behind cluster lid C

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< SYSTEM DESCRIPTION >

POWER SEAT FUNCTION : Component Description

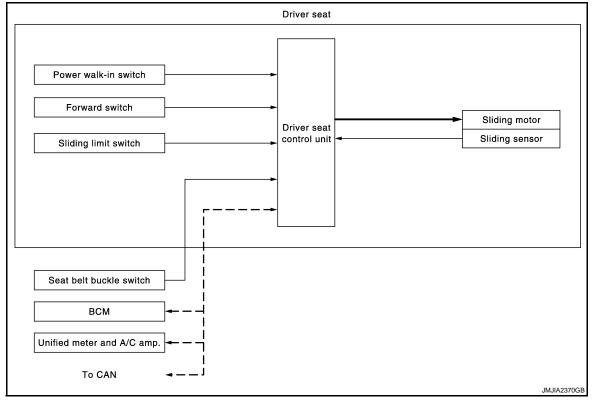
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Item	Function
Driver seat control unit	Operates the specific seat motor with the signal from the power seat switch
Power seat switch	Built-in reclining switch, sliding switch, and lifting switch
Reclining motor	Operates forward and backward movement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

POWER WALK-IN FUNCTION

POWER WALK-IN FUNCTION : System Diagram

INFOID:000000005629739



POWER WALK-IN FUNCTION : System Description

INFOID:000000005629740

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.

< SYSTEM DESCRIPTION >

OPERATION PROCEDURE А 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. В 3. Press the power walk-in switch. 4. Slide the seat to the front end position. С **Backward Operation** 1. Fold up the seatback after performing the forward operation. 2. Press the power walk-in switch. D 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. Е

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

DETAIL FLOW

Forward Operation

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

Backward Operation

Revision: 2009 Novemver

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< SYSTEM DESCRIPTION >

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

SLEEP MODE

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

WAKE-UP MODE

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

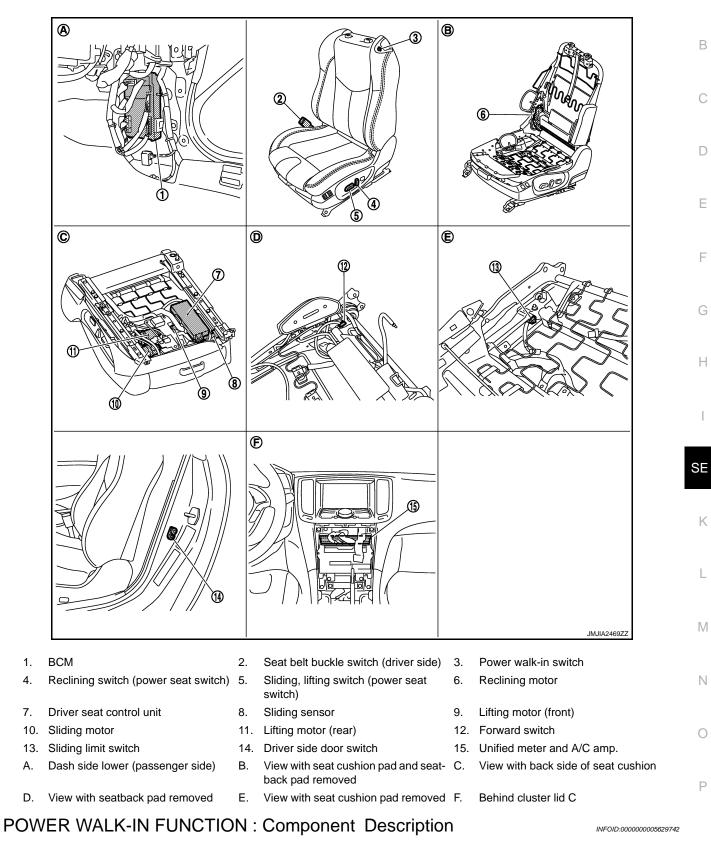
- 1. CAN communication.
- 2. Power seat switch.
- 3. Power walk-in switch.

< SYSTEM DESCRIPTION >

POWER WALK-IN FUNCTION : Component Parts Location

INFOID:000000005629741

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CONTROL UNITS

< SYSTEM DESCRIPTION >

Item	Function
Driver seat control unit	Main units of power walk-in functionIt is connected to the CAN.
BCM	 Transmits the following statuses to the driver seat control unit via CAN 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 commu- nication.

INPUT PARTS

Switches

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

Sensors

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

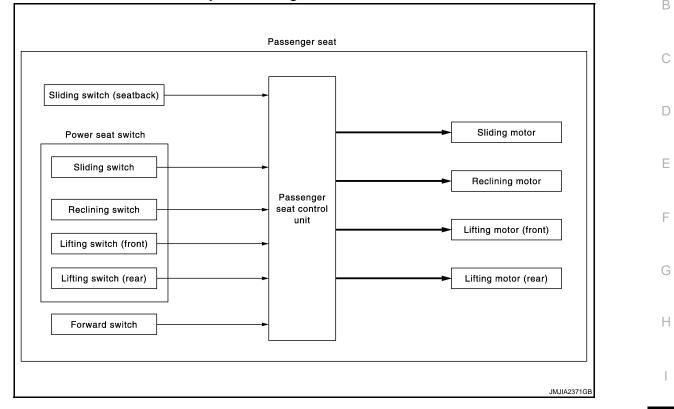
OUTPUT PARTS

Item	Function
Sliding motor	Slides the seat forward/backward.

< SYSTEM DESCRIPTION >

POWER SEAT FOR PASSENGER SIDE POWER SEAT FUNCTION

POWER SEAT FUNCTION : System Diagram



POWER SEAT FUNCTION : System Description

- Power seat is operative regardless of the ignition switch position because power supply is always supplied to 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.
- 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 and sliding switch (seatback).
- 2. Power walk-in switch.

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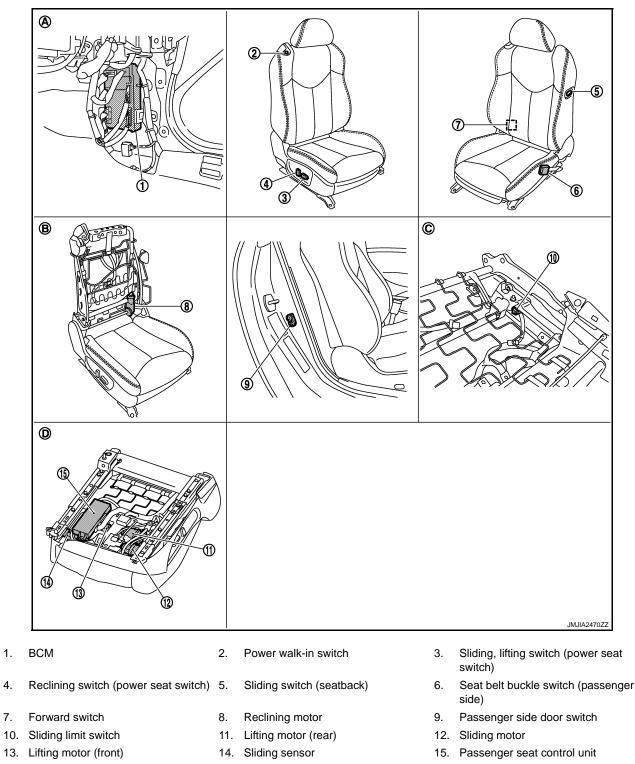
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< SYSTEM DESCRIPTION >

POWER SEAT FUNCTION : Component Parts Location

INFOID:000000005629745



C. View with seatback pad removed

Dash side lower (passenger side)

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Β. View with seatback pad removed

< SYSTEM DESCRIPTION >

POWER SEAT FUNCTION : Component Description

INFOID:000000005629746

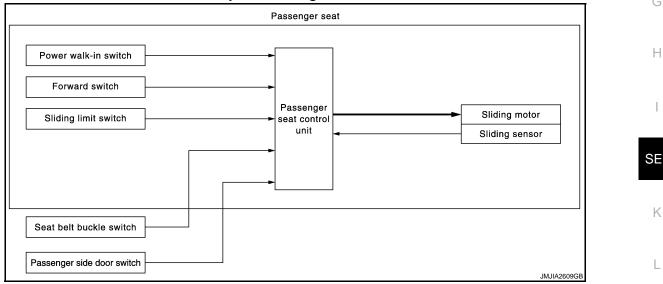
INFOID:000000005629747

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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 passeng 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 a control unit.		
Sliding motor Operates forward and backward slide of seat with the power supplied to passenger seat c unit.		
Lifting motor (front/rear)	Operates up and down movement of seat cushion with the power supplied to passenger seat con- trol unit.	
Forward switch	itch 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

INFOID:000000005629748

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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 on 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

< 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 per- forming the forward operation.
Seatback	Folded up

DETAIL FLOW

Forward Operation

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

Backward Operation

< SYSTEM DESCRIPTION >

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

SLEEP MODE

• The passenger seat control unit is equipped with the sleep mode to reduce the electric power consumption.

- The sleep mode is activated when all of the following conditions are satisfied.
- 1. When no power seat motors are moving.
- 2. Power walk-in switch 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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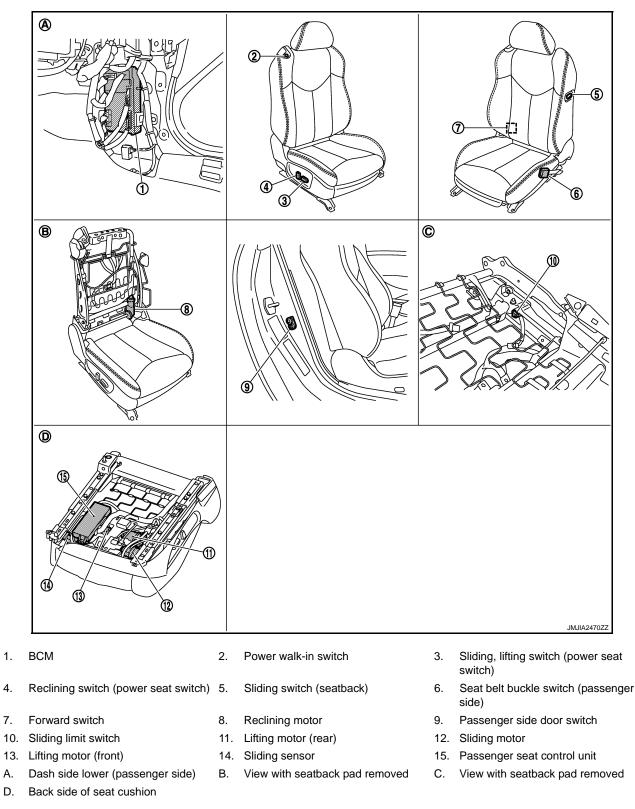
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< SYSTEM DESCRIPTION >

POWER WALK-IN FUNCTION : Component Parts Location

INFOID:000000005629749



POWER WALK-IN FUNCTION : Component Description

CONTROL UNITS

INFOID:000000005629750

< SYSTEM DESCRIPTION >

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

INPUT PARTS

Switches

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

Sensors

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

OUTPUT PARTS

Item	Function	
Sliding motor	Slides the seat forward/backward.	

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SIDE SUPPORT UNIT

< SYSTEM DESCRIPTION >

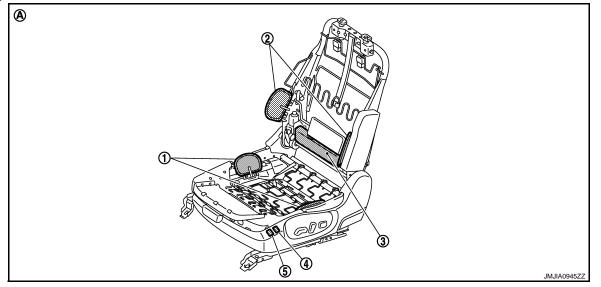
SIDE SUPPORT UNIT

System Description

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



- 1. Side support (seat cushion)
- Side support (seatback)

2.

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Side support unit

3.

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

Component Description

INFOID:000000005629753

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.

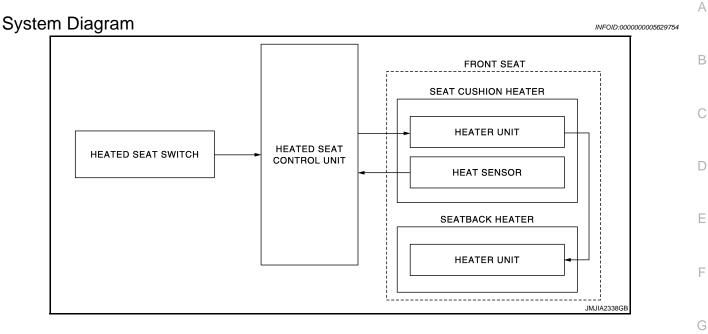
Side support switch (cushion side)

INFOID:000000005629751

INFOID:000000005629752

HEATED SEAT

< SYSTEM DESCRIPTION > HEATED SEAT



System Description

INFOID:000000005629755

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

OPERATION DESCRIPTION

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

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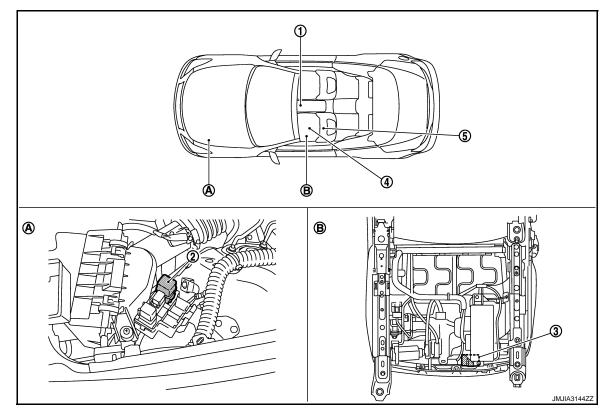
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HEATED SEAT

< SYSTEM DESCRIPTION >

Component Parts Location

INFOID:000000005629756



- 1. Heated seat switch
- 2. Heated seat relay
- 3. Heated seat control unit

- 4. Seat cushion heater
- Seatback heater
- 5. Backside of seat cushion
- A. Engine room fuse, fusesible link and B. relay box

Component Description

INFOID:000000005629757

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)

LUMBAR SUPPORT

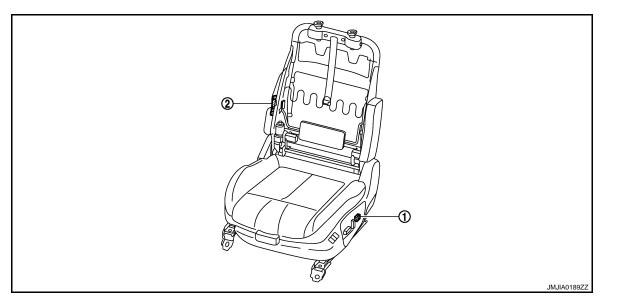
< SYSTEM DESCRIPTION >

LUMBAR SUPPORT

System Description

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

Component Parts Location



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

Component Description

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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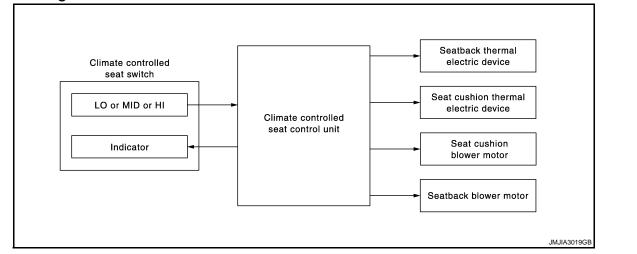
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CLIMATE CONTROLLED SEAT

< SYSTEM DESCRIPTION >

CLIMATE CONTROLLED SEAT

System Diagram



System Description

INFOID:000000005629762

INFOID:000000005629761

- 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 adjustsexchange 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

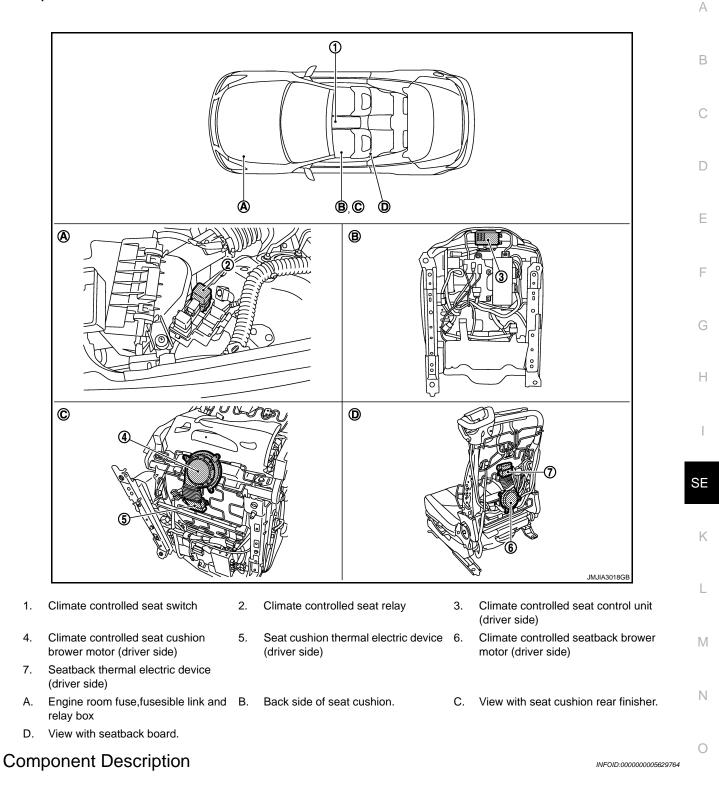
The fail-safe function is adopted for the climate controlled seat control to SE-197, "Fail-safe".

CLIMATE CONTROLLED SEAT

< SYSTEM DESCRIPTION >

Component Parts Location

INFOID:000000005629763



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

SE-29

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 con- trolled 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

The power seat system can be checked and diagnosed for component operation with CONSULT-III. **DIAGNOSTIC MODE**

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

CONSULT-III Function

SELF DIAGNOSTIC RESULTS Refer to SE-158, "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) sig- nal.
SLIDE SW-RR* ³	"ON/OFF"	×	×	ON/OFF status judged from the sliding switch (backward) signal.
RECLN SW-FR	"ON/OFF"	×	×	ON/OFF status judged from the reclining switch (forward) signal.
RECLN SW-RR	"ON/OFF"	×	×	ON/OFF status judged from the reclining switch (backward) signal.
LIFT FR SW-UP	"ON/OFF"	×	×	ON/OFF status judged from the lifting switch front (upward) signal.
LIFT FR SW-DN	"ON/OFF"	×	×	ON/OFF status judged from the lifting switch front (down-ward) signal.
LIFT RR SW-UP	"ON/OFF"	×	×	ON/OFF status judged from the lifting switch rear (upward) signal.
LIFT RR SW-DN	"ON/OFF"	×	×	ON/OFF status judged from the lifting switch rear (down-ward) signal.
MIR CON SW-UP	"ON/OFF"	×	×	ON/OFF status judged from the mirror switch (upward) sig- nal.
MIR CON SW-DN	"ON/OFF"	×	×	ON/OFF status judged from the mirror switch (downward) signal.
MIR CON SW-RH	"ON/OFF"	×	×	ON/OFF status judged from the door mirror remote control switch (passenger side) signal.
MIR CON SW-LH	"ON/OFF"	×	×	ON/OFF status judged from the door mirror remote control switch (driver side) signal.

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DIAGNOSIS SYSTEM (DRIVER SEAT C/U)

< SYSTEM DESCRIPTION >

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

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

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

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

DIAGNOSIS SYSTEM (DRIVER SEAT C/U)

< SYSTEM DESCRIPTION >

ACTIVE TEST CAUTION:

When driving vehicle, do not perform active test.

Test item Description		
SEAT SLIDE*	Activates/deactivates the sliding motor.	
SEAT RECLINING	Activates/deactivates the reclining motor.	
SEAT LIFTER FR	Activates/deactivates the lifting motor (front).	
SEAT LIFTER RR	Activates/deactivates the lifting motor (rear).	
TILT MOTOR	Activates/deactivates the tilt motor.	
TELESCO MOTOR	Activates/deactivates the telescopic motor.	
MIRROR MOTOR RH	Activates/deactivates the mirror motor (passenger side).	
MIRROR MOTOR LH	Activates/deactivates the mirror motor (driver side).	
MEMORY SW INDCTR	Turns ON/OFF the memory indicator.	

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

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DTC/CIRCUIT DIAGNOSIS U1000 CAN COMM CIRCUIT

Description

INFOID:000000005629767

INEOID-000000005629768

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

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

Special Repair Requirement

INFOID:000000005629770

INFOID:000000005629769

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

B2112 SLIDING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

B2112 SLIDING MOTOR

Description INFOID:00000000562977 The sliding motor is installed to the seat cushion frame. The sliding motor is activated via the driver seat control unit. Slides the seat forward/rearward by changing the rotation direction of sliding motor. DTC Logic INFOID:000000005629772 DTC DETECTION LOGIC DTC No. Trouble diagnosis name DTC detecting condition Possible cause The driver seat control unit detects the output of sliding · Driver seat control unit B2112 SEAT SLIDE motor output terminal for 0.1 seconds or more even if · Slide motor harness is shorted the sliding switch is not input DTC CONFIRMATION PROCEDURE **1.**STEP 1 1. Turn ignition switch ON. Check "Self diagnostic result" using CONSULT-III. 2. Is the DTC detected? >> Refer to SE-35, "Diagnosis Procedure". YES NO >> INSPECTION END Diagnosis Procedure INFOID:000000005629773 **1.**PERFORM DTC CONFIRMATION PROCEDURE 1. Turn ignition switch ON. Check "Self diagnostic result" using CONSULT-III. 2. SE Erase the DTC. 3. Perform DTC confirmation procedure. Refer to SE-35, "DTC Logic". 4. Is the DTC displayed again? YES >> GO TO 2. NO >> GO TO 4. 2.check sliding motor circuit (power short) 1. Turn ignition switch OFF. Disconnect sliding motor connector and driver seat control unit connector. 2. Check voltage between sliding motor harness connector and ground. 3. (+) Voltage (V) Sliding motor (-) (Approx.) Connector Terminal 35 0 B525 Ground 42 Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace harness.

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

1. Connect driver seat control unit connector.

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

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B2112 SLIDING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

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

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace driver seat control unit. Refer to <u>SE-259</u>, "Removal and Installation"

4. CHECK INTERMITTENT INCIDENT

Check intermittent incident. Refer to <u>GI-37, "Intermittent Incident"</u>.

>> INSPECTION END

B2113 RECLINING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

B2113 RECLINING MOTOR

Description INFOID:000000005629774 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:000000005629775 DTC DETECTION LOGIC Trouble diagnosis DTC No. DTC detecting condition Possible cause name The driver seat control unit detects the output of re-· Driver seat control unit B2113 SEAT RECLINING clining motor output terminal for 0.1 seconds or · Reclining motor harness is powmore even if the reclining switch is not input. er shorted DTC CONFIRMATION PROCEDURE 1.PEFORM DTC CONFIRMATION PROCEDURE 1. Turn ignition switch ON. 2. Check "Self diagnostic result" using CONSULT-III. Is the DTC detected? >> Refer to SE-37, "Diagnosis Procedure". YES >> INSPECTION END NO Diagnosis Procedure INFOID:000000005629776 1.PERFORM DTC CONFIRMATION PROCEDURE 1. Turn ignition switch ON. SE Check "Self diagnostic result" using CONSULT-III. 2. 3. Erase the DTC. 4. Perform DTC confirmation procedure. Refer to SE-37, "DTC Logic". Is the DTC displayed again? YES >> GO TO 2. NO >> Check intermittent incident. Refer to GI-37, "Intermittent Incident". **2.**CHECK RECLINING MOTOR CIRCUIT (POWER SHORT) 1. Turn ignition switch OFF. Disconnect reclining motor and driver seat control unit connector. 2. Check voltage between reclining motor harness connector and ground. 3.

	(+)			
	Reclini	ng motor	()	Voltage (V) (Approx.)	N
	Connector	Terminal			
	B524	36	Ground	0	0
_	DJ24	44	Giouna	0	_

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. 2.

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B2113 RECLINING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

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

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace driver seat control unit. Refer to <u>SE-259</u>, "Removal and Installation".

4. CHECK INTERMITTENT INCIDENT

Refer to GI-37, "Intermittent Incident".

>> INSPECTION END

POWER	SUPPLY AND	GROUND CIRCUI	Т	
< DTC/CIRCUIT DIAGNOSIS >				
POWER SUPPLY AND G	ROUND CIRC	UIT		-
DRIVER SEAT CONTROL	UNIT			А
DRIVER SEAT CONTROL U	INIT : Diagnosis	Procedure	INF0ID:00000005629777	В
NOTE: Do not disconnect the battery negatifirmed using CONSULT-III. 1.CHECK FUSE AND FUSIBLE LIN		driver seat control unit	connector until DTC is con-	С
Check that the following fuse and fus	sible link are not fusir	ng.		D
Terminal No.	Signal na	ame F	use and fusible link No.	D
33			K (40 A)	_
40	Battery powe	r supply	10 (10 A)	E
YES >> GO TO 2. NO >> Replace the blown fuse are blown. 2.CHECK POWER SUPPLY CIRCU 1. Turn ignition switch OFF. 2. Disconnect driver seat control un 3. Check voltage between driver sea	JIT nit connector.		circuit if fuse and fusible link	F G H
	eat control unit hame	ss connector and ground	u.	П
(+)	1		Voltage (V)	1
Driver seat contro	Terminal	(-)	(Approx.)	I
	33			
B504	40	Ground	Battery voltage	SE
Is the inspection result normal?YES>> GO TO 3.NO-1>> Repair or replace harnesNO-2>> Check circuit breaker, and 3. CHECK GROUND CIRCUIT				K
Check continuity between driver sea	t control unit harness	connector and ground.		
Driver seat control u	nit		Continuity	M
Connector	Terminal	Ground		
B503	32		Existed	Ν
B504 Is the inspection result normal?	48			
YES >> INSPECTION END NO >> Repair or replace harnes PASSENGER SEAT CONT				0
PASSENGER SEAT CONTR	OL UNIT : Diag	nosis Procedure	INFOID:000000005629778	Ρ
1. CHECK FUSE AND FUSIBLE LIN	١K			
Check that the following fuse is not f	using.			

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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.

(+ Passenger se) at control unit	()	Voltage (V)	
Connector	Terminal		(Approx.)	
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 sea	t 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.

5.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		B	Continuity		
Connector	Terminal	minal Connector Terminal		Continuity	
B553	33	M118	2	Existed	

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

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Passenger seat control Connector	unit	Terminal	Ground	4	Continuity
B553		33	Ground	u	Not existed
s the inspection result	normal?				
•	CM.Refer to @	@@.			
	replace harness				
HEATED SEAT C	CONTROL	JNH			
HEATED SEAT C	ONTROL U	NIT : Diagnos	sis Procedure	е	INF0ID:000000005625
1.CHECK FUSE					
Check that the followin	ig fuse is not fu	sing.			
	Signal name			Fuse No	0.
E	Battery power supp	У		35 (15 A	A)
s the inspection result	normal?				
YES >> GO TO 2.	a black (()	-#	(- (· · · · ·	
- ·		fter repairing the	affected circuit i	t a fuse is blow	'n.
2.CHECK POWER S					
 Turn ignition switch Disconnect heated 		ait connector			
 Disconnect neated Turn ignition switch 					
 Check voltage bet 		eat control unit ha	arness connecto	r and ground.	
	(+)				
	Heated seat con	trol unit		()	Voltage (V)
Cor	nector		ninal	()	(Approx.)
Driver side	B518				
Passenger side	B575	E	50	Ground	Battery voltage
s the inspection result	normal?	I			
YES >> GO TO 4.					
NO >> GO TO 3.					
3. CHECK POWER S		Τ1			
 Turn ignition switch Disconnect heated 					
		seat control unit	harness connec	tor and heated	seat relay terminal co
nector.					,
Hea	ted seat control un	it	Heate	d seat relay	
Connect	1	Terminal	Connector	Terminal	Continuity
Driver side	B518				
Passenger side	B575	60	E19	3	Existed
4. Check continuity b		seat control unit	harness connec	tor and around	<u> </u>
				9.00110	
	Heated seat con	trol unit			Continuity
		I			Continuity
	nector	Terr	ninal	Ground	Continuity
Con Driver side Passenger side			ninal	Ground	Not existed

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- YES >> Check heat seat relay.Refer to SE-105, "Component Function Check".
- NO >> Repair or replace harness.

4.CHECK POWER SUPPLY 2

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

(+)				Condition		Voltage (V) (Approx.)
Heated seat control unit			()			
Conn	ector	Terminal	*			()
Driver eide	B518				ON	Battery voltage
Driver side		66	Ground	Heated seat	OFF	0
Desserverside	DEZE	00	Ground	switch	ON	Battery voltage
Passenger side	B575				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.

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

I	Heated seat control ur	nit	Heated sea	t 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	I	LXISIEU

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

	Heated seat control unit		Continuity	
Co	nnector	Terminal	Ground	Continuity
Driver side	B518	Ground		Not existed
Passenger side	B575	00		NOL 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, "DRIVER SIDE : 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-267, "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.

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Heated seat control unit		1	_	Continuity
	nector	Terminal	Ground	·
Driver side	B518	48		Existed
Passenger side	B575			
<u>s the inspection result</u> YES >> INSPECT				
	replace harness.			
CHECK INTERMIT	TENT INCIDENT			
Check intermittent inci	dent.			
Refer to <u>GI-37, "Interm</u>	nittent Incident".			
>> INSPECT				
ΙΕΔΤΕΠ ΘΕΔΤ Θ	WITCH : Diagnos	sis Procedure		
	WITCHT. Diagno.			INFOID:00000000562978
.CHECK FUSE				
Check that the followin	ng fuse is not fusing.			
Terminal	No.	Signal name		Fuse No.
5		Ignition power supply		3 (10 A)
		• • • • •		
s the inspection result	normal?			
YES >> GO TO 2.				
YES >> GO TO 2. NO >> Replace th	ne blown fuse after rej		ircuit if a fuse is blow	
YES >> GO TO 2. NO >> Replace th CHECK POWER S	ne blown fuse after rej UPPLY		ircuit if a fuse is blow	
YES >> GO TO 2. NO >> Replace th CHECK POWER S Turn ignition switc	ne blown fuse after rej UPPLY h OFF.	pairing the affected c	ircuit if a fuse is blow	
YES >> GO TO 2. NO >> Replace the CHECK POWER S Turn ignition switc Disconnect heated	ne blown fuse after rej UPPLY h OFF. d seat switch connecto	pairing the affected c	ircuit if a fuse is blow	
YES >> GO TO 2. NO >> Replace the CHECK POWER S . Turn ignition switc . Disconnect heated . Turn ignition switc	ne blown fuse after rej UPPLY h OFF. d seat switch connecto	pairing the affected c		
YES >> GO TO 2. NO >> Replace the CHECK POWER S . Turn ignition switc . Disconnect heated . Turn ignition switc	ne blown fuse after rep UPPLY h OFF. d seat switch connecto h ON. ween heated seat swi	pairing the affected c		
YES >> GO TO 2. NO >> Replace the CHECK POWER S . Turn ignition switc . Disconnect heated . Turn ignition switc	ne blown fuse after rep UPPLY h OFF. d seat switch connecto h ON.	pairing the affected c	or and ground.	/n. Voltage (V)
YES >> GO TO 2. NO >> Replace the CHECK POWER S . Turn ignition switc . Disconnect heated . Turn ignition switc . Check voltage bet	he blown fuse after rep UPPLY h OFF. d seat switch connecto h ON. ween heated seat swi (+)	pairing the affected c		/n.
YES >> GO TO 2. NO >> Replace the CHECK POWER S . Turn ignition switc . Disconnect heated . Turn ignition switc . Check voltage bet	he blown fuse after rep UPPLY h OFF. d seat switch connector h ON. ween heated seat switch (+) Heated seat switch nector A/T models: M141	pairing the affected c	or and ground.	/n. Voltage (V)
YES >> GO TO 2. NO >> Replace the CHECK POWER S . Turn ignition switc . Disconnect heated . Turn ignition switc . Check voltage bet	he blown fuse after rep UPPLY h OFF. d seat switch connector h ON. ween heated seat switch (+) Heated seat switch nector A/T models: M141 M/T models: M175	pairing the affected c	or and ground.	/n. Voltage (V)
YES >> GO TO 2. NO >> Replace the CHECK POWER S . Turn ignition switc . Disconnect heated . Turn ignition switc . Check voltage bet	he blown fuse after rep UPPLY h OFF. d seat switch connector h ON. ween heated seat switch (+) Heated seat switch nector A/T models: M141	pairing the affected control of the original o	or and ground.	/N. Voltage (V) (Approx.)
YES >> GO TO 2. NO >> Replace the CHECK POWER S . Turn ignition switc . Disconnect heated . Turn ignition switc . Check voltage bet Cor Driver side	he blown fuse after rep UPPLY h OFF. d seat switch connector h ON. ween heated seat switch (+) Heated seat switch nector A/T models: M141 M/T models: M142 M/T models: M176	pairing the affected control of the original o	or and ground.	/N. Voltage (V) (Approx.)
YES >> GO TO 2. NO >> Replace the CHECK POWER S . Turn ignition switc . Disconnect heated . Turn ignition switc . Check voltage bet Cor Driver side Passenger side s the inspection result YES >> INSPECT	he blown fuse after rep UPPLY h OFF. d seat switch connector h ON. ween heated seat switch (+) Heated seat switch innector A/T models: M141 M/T models: M142 M/T models: M176	pairing the affected control of the original o	or and ground.	/N. Voltage (V) (Approx.)
YES >> GO TO 2. NO >> Replace the CHECK POWER S . Turn ignition switc . Disconnect heated . Turn ignition switc . Check voltage bet Cor Driver side Passenger side Sthe inspection result YES >> INSPECT NO >> GO TO 3.	he blown fuse after rep UPPLY h OFF. d seat switch connector h ON. ween heated seat switch (+) Heated seat switch nector A/T models: M141 M/T models: M175 A/T models: M176 A/T models: M176 A/T models: M176	pairing the affected control of the original o	or and ground.	/N. Voltage (V) (Approx.)
YES >> GO TO 2. NO >> Replace the CHECK POWER S . Turn ignition switc . Disconnect heated . Turn ignition switc . Check voltage bet Cor Driver side Passenger side s the inspection result YES >> INSPECT	he blown fuse after rep UPPLY h OFF. d seat switch connector h ON. ween heated seat switch (+) Heated seat switch nector A/T models: M141 M/T models: M175 A/T models: M176 A/T models: M176 A/T models: M176	pairing the affected control of the original o	or and ground.	/N. Voltage (V) (Approx.)
YES >> GO TO 2. NO >> Replace the CHECK POWER S Turn ignition switc Disconnect heated Turn ignition switc Check voltage bet Driver side Passenger side Sthe inspection result YES >> INSPECT NO >> GO TO 3. CHECK POWER S Turn ignition switc	he blown fuse after rep UPPLY h OFF. d seat switch connector h ON. ween heated seat switch (+) Heated seat switch nector A/T models: M141 M/T models: M175 A/T models: M176 A/T models: M176 A/T models: M176 Conreal? ION END	pairing the affected control of the original o	or and ground.	/N. Voltage (V) (Approx.)

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Heated seat switch			Fuse bl	Continuity	
Connector		Terminal	Connector	Terminal	Continuity
Driver side	A/T models: M141 M/T models: M175	5	M1	2A	Existed
Passenger side	A/T models: M142 M/T models: M176	5	IVII	27	Existed

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

Heated seat switch				Continuity
Connector 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	5		NOT EXISTED

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.

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

Is the inspection result normal?

YES >> GO TO 5.

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

5.CHECK INTERMITTENT INCIDENT

Check intermittent incident. Refer to <u>GI-37, "Intermittent Incident"</u>

>> INSPECTION END CLIMATE CONTROLLED SEAT CONTROL UNIT

CLIMATE CONTROLLED SEAT CONTROL UNIT : Diagnosis Procedure

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.

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

	(+)			Voltage	
Climate controlled s	eat control unit (driver sid	le)	(-)	(Approx.)	
Connector	Terminal				
B606	89		Ground	Battery voltage	
B607	B607 93		Croana	Dattery voltage	
the measurement value ES >> GO TO 3. O >> GO TO 4. CHECK GROUND CIR					
eck continuity between		(driver side) harnes	ss connector and	ground.	
-	eat control unit (driver sid	、 <i>、</i>		3	
Connector	Terminal		Ground	Continuity	
B606	90		-	Existed	
Turn ignition switch O Disconnect climate co Check continuity betw	ontrolled seat relay. veen climate controlle				
Turn ignition switch O Disconnect climate co Check continuity betw controlled seat relay h	FF. ontrolled seat relay. /een climate controll narness connector.	ed seat control unit	t (driver side) har		
Turn ignition switch O Disconnect climate co Check continuity betw	FF. ontrolled seat relay. /een climate controll narness connector.	ed seat control unit			
Turn ignition switch O Disconnect climate co Check continuity betw controlled seat relay h Climate controlled seat co	FF. ontrolled seat relay. veen climate controllo narness connector.	ed seat control unit Climate contro Connector	t (driver side) har olled seat relay	ness connector and	
Turn ignition switch O Disconnect climate co Check continuity betw controlled seat relay h Climate controlled seat co Connector	FF. ontrolled seat relay. veen climate controlle narness connector. ntrol unit (driver side) Terminal	ed seat control unit Climate contro	t (driver side) har olled seat relay	ness connector and	
Turn ignition switch O Disconnect climate co Check continuity betw controlled seat relay h Climate controlled seat con Connector B606	FF. ontrolled seat relay. veen climate controlle narness connector. ntrol unit (driver side) Terminal 89 93	ed seat control unit Climate contro Connector E20	t (driver side) har olled seat relay Terminal 6	rness connector and Continuity Existed	
Turn ignition switch ODisconnect climate coCheck continuity betwcontrolled seat relay hClimate controlled seat coConnectorB606B607Check continuity betw	FF. ontrolled seat relay. veen climate controlle narness connector. ntrol unit (driver side) Terminal 89 93	ed seat control unit Climate contro Connector E20 ed seat control unit	t (driver side) har olled seat relay Terminal 6	Continuity Existed ness connector and	
Turn ignition switch ODisconnect climate coCheck continuity betwcontrolled seat relay hClimate controlled seat coConnectorB606B607Check continuity betw	FF. ontrolled seat relay. veen climate controlle narness connector. ntrol unit (driver side) Terminal 89 93 veen climate controlle	ed seat control unit Climate contro Connector E20 ed seat control unit	t (driver side) har olled seat relay Terminal 6 t (driver side) har	rness connector and Continuity Existed	
Turn ignition switch O Disconnect climate co Check continuity betw controlled seat relay h Climate controlled seat relay h B606 B607 Check continuity betw Check continuity betw Climate controlled seat relay h	FF. portrolled seat relay. veen climate controlled harness connector. htrol unit (driver side) Terminal 89 93 veen climate controlled eat control unit (driver side)	ed seat control unit Climate contro Connector E20 ed seat control unit	t (driver side) har olled seat relay Terminal 6	rness connector and Continuity Existed ness connector and Continuity	
Turn ignition switch O Disconnect climate co Check continuity betw controlled seat relay h Climate controlled seat co B606 B607 Check continuity betw Climate controlled seat co Connector Climate controlled seat co Climate controlled seat co	FF. ontrolled seat relay. veen climate controlled narness connector. ntrol unit (driver side) Terminal 89 93 veen climate controlled eat control unit (driver side) 10 10 10 10 10 10 10 10 10 10	ed seat control unit Climate contro Connector E20 ed seat control unit	t (driver side) har olled seat relay Terminal 6 t (driver side) har	Continuity Existed ness connector and	

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(+)		()	Voltage	
Climate controlle	Climate controlled seat relay		(Approx.)	
Connector	Connector Terminal			
E20	2	- Ground	Pottory voltogo	
EZU	7	-	Battery voltage	
Is the measurement value norr	nal?			
YES >> GO TO 6.				
NO >> Repair or replace I				
6.CHECK CLIMATE CONTRO	OLLED 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 contro	Climate controlled seat relay		Continuity
Connector	Connector Terminal		Continuity
E20	E20 1		Existed

Does continuity exist?

YES >> GO TO 8.

NO >> Repair or replace harness.

8.CHECK INTERMITTENT INCIDENT

Refer to GI-37, "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.

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

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Climate controlled s	seat control unit (passenge	er side)		(-)		Voltage (Approx.)
Connector	Termina	al	-			(Approx.)
B626	89			Oracia		Detter wellere
B627	93			Ground		Battery voltage
the measurement val ES >> GO TO 3. O >> GO TO 4. CHECK GROUND C eck continuity betwe		r and grou	nd.			
Climate controlled s	seat control unit (passenge	er side)				
Connector	Termina		-	Ground		Continuity
B626	90					Existed
Turn ignition switch				WER SUPPLY	URU	
Check continuity be	controlled seat relay. etween climate contro at relay harness conne	lled seat o	control unit	: (passenger sid	le) har	ness connector and
Check continuity be mate controlled sea Climate controlled seat	etween climate contro at relay harness conne t control unit (passenger	lled seat c ector.		(passenger sid	le) har	
Check continuity be mate controlled sea Climate controlled seat	etween climate contro at relay harness conne	lled seat c ector.			le) har	ness connector and Continuity
Check continuity be mate controlled sea Climate controlled seat	etween climate contro at relay harness conne t control unit (passenger de)	illed seat c ector. Conr	Climate contra	olled seat relay	le) har	Continuity
Check continuity be mate controlled sea Climate controlled seat sid	etween climate contro at relay harness conne t control unit (passenger de) Terminal	illed seat c ector. Conr	Climate contr	olled seat relay	le) har	
Check continuity be mate controlled seat Climate controlled seat sid Connector B626 B627	etween climate contro at relay harness conne t control unit (passenger de) Terminal 89	illed seat c ector. Conr	Climate contra nector 20	olled seat relay Terminal 3		Continuity Existed
Check continuity be mate controlled sea Climate controlled seat sid Connector B626 B627 Check continuity be	etween climate contro at relay harness conne t control unit (passenger de) Terminal 89 93	illed seat c ector. Conr E illed seat c	Climate contra nector 20	olled seat relay Terminal 3		Continuity Existed connector and gro
Check continuity be mate controlled sea Climate controlled seat sid Connector B626 B627 Check continuity be	etween climate contro at relay harness conne t control unit (passenger de) Terminal 89 93 etween climate contro	Illed seat c ector. Conr E Illed seat c	Climate contra nector 20 control unit	olled seat relay Terminal 3		Continuity Existed
Check continuity be mate controlled seat Climate controlled seat sid Connector B626 B627 Check continuity be Climate controlle	etween climate contro at relay harness conne t control unit (passenger de) Terminal 89 93 etween climate contro ed seat control unit (driver s	Illed seat c ector. Conr E Illed seat c	Climate contra nector 20 control unit	olled seat relay Terminal 3 7 (driver side) ha		Continuity Existed connector and gro
Climate controlled seat Climate controlled seat Climate controlled seat Sin Connector B626 B627 Check continuity be Climate controlle Connector B626 B627 Check continuity be Climate controlle Connector B626 B627 Check continuity be Climate controlle Connector B626 B627 Check CILMATE C Turn ignition switch	etween climate contro at relay harness connect t control unit (passenger de) Terminal 89 93 etween climate contro ed seat control unit (driver s Termina 89 93 lue normal? eplace harness or con CONTROLLED SEAT F	Illed seat of ector.	Climate contra nector 20 control unit	olled seat relay Terminal 3 : (driver side) ha Ground	arness	Continuity Existed connector and gro Continuity Not existed
Climate controlled seat Climate controlled seat Climate controlled seat Sin Connector B626 B627 Check continuity be Climate controlle Connector B626 B627 Check continuity be Climate controlle Connector B626 B627 Check continuity be Climate controlle Connector B626 B627 Check CILMATE C Turn ignition switch	etween climate contro at relay harness connect t control unit (passenger de) Terminal 89 93 etween climate contro ed seat control unit (driver s Termina 89 93 lue normal? eplace harness or con CONTROLLED SEAT F	Illed seat of ector.	Climate contra nector 20 control unit	olled seat relay Terminal 3 : (driver side) ha Ground	arness	Continuity Existed connector and gro Continuity Not existed
Climate controlled seat Climate controlled seat Climate controlled seat Sin Connector B626 B627 Check continuity be Climate controlle Connector B626 B627 Check continuity be Climate controlle Connector B626 B627 Check continuity be Climate controlle Connector B626 B627 Check CILMATE C Turn ignition switch	etween climate contro at relay harness conne t control unit (passenger de) Terminal 89 93 etween climate contro ed seat control unit (driver s ceptace harness or con cONTROLLED SEAT F o ON. veen climate controlle	Illed seat of ector.	Climate contra nector 20 control unit	olled seat relay Terminal 3 : (driver side) ha Ground	arness	Continuity Existed connector and gro Continuity Not existed
Check continuity be mate controlled seat Climate controlled seat Sid Connector B626 B627 Check continuity be Climate controlle Connector B626 B627 Check continuity be	etween climate contro at relay harness conne t control unit (passenger de) Terminal 89 93 etween climate contro ed seat control unit (driver s control unit (driver s 89 93 lue normal? eplace harness or con cONTROLLED SEAT F n ON. veen climate controlle	Illed seat of ector.	Climate contra nector 20 control unit	olled seat relay Terminal 3 (driver side) ha Ground PPLY CIRCUIT connector and	arness	Continuity Existed connector and gro Continuity Not existed
Check continuity be mate controlled seat Climate controlled seat Sid Connector B626 B627 Check continuity be Climate controlle Connector B626 B627 Check continuity be	etween climate contro at relay harness conne t control unit (passenger de) Terminal 89 93 etween climate contro ed seat control unit (driver s d seat control unit (driver s Terminal 89 93 lue normal? eplace harness or con cONTROLLED SEAT F n ON. veen climate controlle Terminal (+)	Illed seat of ector.	Climate control nector 20 control unit DWER SUI	olled seat relay Terminal 3 (driver side) ha Ground PPLY CIRCUIT connector and	arness	Continuity Existed connector and gro Continuity Not existed nd.

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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 contro	olled seat relay		Continuity
Connector	Connector Terminal		Continuity
E20	E20 1		Existed

Does continuity exist?

YES >> GO TO 8.

NO >> Repair or replace harness.

8.CHECK INTERMITTENT INCIDENT

Refer to GI-37, "Intermittent Incident".

>> INSPECTION END

CLIMATE CONTROLLED SEAT CONTROL UNIT : Component Inspection INFOLD.000000005529782

1.CHECK CLIMATE CONTROLLED SEAT RELAY

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

trolled s	ite con- seat relay minal	Condition	Continuity		
3	5	12 V direct current supply between ter- minals 1 and 2.	Existed	0 5	
		No current supply	Not existed	6 3	6 3
6	7	12 V direct current supply between ter- minals 1 and 2.	Existed		JMJIA2104ZZ
		No current supply	Not existed		

Is the inspection result normal?

YES >> INSPECTION END.

NO >> Replace climate controlled seat relay.

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SLIDING SWITC	/1 1					А
DRIVER SIDE : De	escription				INFOID:000000056297	
 Sliding switch is equip The operation signal i 	s input to the driver s	eat contro	l unit wher			В
	Smponent Funct	ion Che	eck		INFOID:0000000056297	84
1. CHECK FUNCTION 1. Turn ignition switch						D
2. Select "SLIDE SW-	FR", "SLIDE SW-RR' h signal under the fol			" mode using CON	ISULT-III.	E
Monitor item		Con	dition		Status	
SLIDE SW-FR	Sliding switch (for	ward)	Operate		ON	F
		inara)	Release		OFF	Г
SLIDE SW-RR	Sliding switch (bac	ckward)	Operate		ON	
Is the indication normal		•	Release		OFF	G
DRIVER SIDE : Di 1. CHECK SLIDING SV 1. Turn ignition switch 2. Disconnect powers	WITCH SIGNAL					
3. Check voltage betw	seat switch connector veen power seat switc		s connecto	r and ground.		SE
3. Check voltage betv	seat switch connector		s connecto	r and ground.	Voltage (V/)	
Pc	seat switch connector veen power seat switc (+) ower seat switch	ch harness	s connecto	r and ground. (–)	Voltage (V) (Approx.)	SE K
	(+) (+) wer seat switch	ch harness	s connecto	-		
Pc	seat switch connector veen power seat switc (+) ower seat switch Termina 11	ch harness	-	-		
Procession Connector B511 Is the inspection result YES >> GO TO 3. NO >> GO TO 2. 2. CHECK SLIDING SV 1. Disconnect driver s	seat switch connector veen power seat switch (+) ower seat switch 11 26 normal? WITCH CIRCUIT eat control unit connector	al ector.		(–) Ground	(Approx.)	K L M
Pro- Connector B511 Is the inspection result YES >> GO TO 3. NO >> GO TO 2. 2. CHECK SLIDING SV 1. Disconnect driver s 2. Check continuity be nector.	seat switch connector veen power seat switch (+) ower seat switch 11 26 normal? WITCH CIRCUIT eat control unit connector	al ector.	narness co	(–) Ground	(Approx.) Battery voltage	K L M N
Pro- Connector B511 Is the inspection result YES >> GO TO 3. NO >> GO TO 2. 2. CHECK SLIDING SV 1. Disconnect driver s 2. Check continuity be nector.	seat switch connector veen power seat switch (+) ower seat switch 11 26 normal? WITCH CIRCUIT eat control unit connector etween driver seat co	ector. ntrol unit h	narness co	(-) Ground	(Approx.) Battery voltage	K L M N O
Pro- Connector B511 Is the inspection result YES >> GO TO 3. NO >> GO TO 2. 2.CHECK SLIDING SV 1. Disconnect driver s 2. Check continuity be nector. Driver seat	seat switch connector veen power seat switch (+) wer seat switch (+) wer seat switch 11 11 26 normal? WITCH CIRCUIT eat control unit connector etween driver seat co	ector. ntrol unit h	narness co Power se	(-) Ground nnector and power	(Approx.) Battery voltage	K L M N

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

26

26

< DTC/CIRCUIT DIAGNOSIS >

Driver se	eat control unit				Continuity
Connector	Ter	minal		round	Continuity
B503		11	G	rouna	Not existed
6303	:	26			NOT EXISTED
Is the inspection result nor	mal?				
YES >> Replace driver NO >> Repair or repla		nit. Refer to <u>S</u>	<u>SE-259, "Rer</u>	noval and Inst	allation".
3. CHECK SLIDING SWIT	ГСН				
Check sliding switch. Refer to <u>SE-50, "DRIVER</u>	SIDE : Compor	nent Inspectio	<u>on"</u> .		
Is the inspection result nor YES >> GO TO 4. NO >> Replace powe 4. CHECK INTERMITTEN	r seat switch. F	Refer to <u>SE-26</u>	63, "Remova	al and Installati	ion".
Check intermittent incident Refer to GI-37, "Intermitter					
>> INSPECTION	END				
DRIVER SIDE : Com	nponent Insp	pection			INFOID:00000000562978
1.CHECK SLIDING SWIT	ГСН				
 Turn ignition switch Ol Disconnect power sea Check continuity betw 	t switch conne		nals.		
Power seat sw	vitch		Con-liti-		Continuity
Terminal			Conditio	חמ	Continuity
	11			Backward	Existed
	11	1			

 32
 Other than above
 Not existed

 26
 Forward
 Existed

 Other than above
 Not existed

 Power
 Other than above
 Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power seat switch. Refer to <u>SE-263, "Removal and Installation"</u>. PASSENGER SIDE

PASSENGER SIDE : Description

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

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

PASSENGER SIDE : Component Function Check

1.CHECK FUNCTION

Check seat sliding operation with sliding switch.

Is the indication normal?

YES >> Sliding switch function is OK.

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

INFOID:000000005629787

INFOID:000000005629788

< DTC/CIRCUIT DIAGNOSIS >

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000005629789

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1.CHECK SLIDING SWITCH SIGNAL

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

(+) Passenger seat control unit		(–) Condi			Voltage (V)	
				Condition		C
Connector	Terminal				(Approx.)	
			Backward	0	Г	
DEE2	11	Ground	Sliding owitch	Other than above	Battery voltage	
B55226	Ground	Ground Sliding switch	Forward	0		
			Other than above	Battery voltage	E	

Is the inspection result normal?

YES >> Sliding switch circuit is OK.

NO >> GO TŎ 2.

2.CHECK SLIDING SWITCH INPUT SIGNAL

1. Disconnect power seat switch connector.

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

_	(•	+)			
	Power se	eat switch	()	Voltage (V) (Approx.)	
	Connector	Terminal			
	DEE 4	22	Cround	Potton / voltage	
	B554	23	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 3.

3.CHECK SLIDING SWITCH CIRCUIT

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

-	Continuity	eat switch	Power seat switch		Sliding swite
M	Continuity	Terminal	Connector	Terminal	Connector
—	Existed	22	B554	22	B561
	Existed	23	D004	23	1000
- N				·	

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

Sliding swite	ch (seatback)		Continuity	0
Connector	Terminal	Ground	0	
B561	22	Ground	Not existed	
6301	23		NOI EXISIEU	Р

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

Check sliding switch. Refer to <u>SE-52, "PASSENGER SIDE : Component Inspection"</u>.

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace power seat switch. Refer to <u>SE-263</u>, "Removal and Installation".

5. CHECK SLIDING SWITCH (SEATBACK)

Check sliding switch (seatback).

Refer to <u>SE-54</u>, "SEATBACK : Component Inspection".

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace sliding switch (seatback). Refer to <u>SE-234, "Exploded View"</u>.

6.CHECK INTERMITTENT INCIDENT

Check intermittent incident. Refer to <u>GI-37, "Intermittent Incident"</u>.

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:000000005629790

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	Cor	dition	Continuity
Terr	Terminal		Contractor	
	22		Forward	Existed
32	22	Sliding switch	Other than above	Not existed
52	22	- Sliding switch	Backward	Existed
	23		Other than above	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power seat switch. Refer to <u>SE-263, "Removal and Installation"</u>. SEATBACK

SEATBACK : Description

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

SEATBACK : Component Function Check

1.CHECK FUNCTION

Check seat sliding operation with sliding switch (seatback).

Is the inspection result normal?

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

NO >> Refer to <u>SE-52</u>, "SEATBACK : Diagnosis Procedure".

SEATBACK : Diagnosis Procedure

1.CHECK SLIDING SWITCH (SEATBACK) SIGNAL

1. Turn ignition switch OFF.

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

INFOID:000000005629792

INFOID:000000005629793

< DTC/CIRCUIT DIAGNOSIS >

Passenger sear control unit (-) Conductor Approx.) Connector Terminal Ground Stiding switch (seatback) Backward 0 B552 26 Ground Stiding switch (seatback) Other than above Battery voltage Forward 0 e inspection result normal? S >> GO TO 2. Other than above Battery voltage S >> GO TO 2. : : Second to unit Other than above Battery voltage Disconnect passenger seat control unit connector and sliding switch (seatback) connector. Check continuity between passenger seat control unit tharness connector and sliding switch (seatback) Continuity Passenger seat control unit Sliding switch (seatback) Continuity Connector Terminal Connector Terminal Passenger seat control unit Sliding switch (seatback) Continuity Connector Terminal Ground Continuity Passenger seat control unit Ground Continuity Continuity Connector Terminal Ground Continuity R >> GO TO 3. S >> Continuity e inspection result normal?	De	(+)	it		()		an dition		Voltage (V)
Bisse 11 Ground Sliding switch (seatback) Backward 0 0 26 Other than above Battery voltage 0 26 Other than above Battery voltage 1 26 Other than above Battery voltage 0 0 Other than above Battery voltage 2 > So OT 0 2. Siding switch (seatback) circuit is OK. >> > GO TO 2. : : Siding switch (seatback) connector 0 Disconnect passenger seat control unit connector and sliding switch (seatback) connector. Check continuity between passenger seat control unit harness connector and sliding switch (seatback) 0 11 B661 11 0 Existed Existed 0 11 B661 11 0 26 26 Continuity 0 0 11 Existed 0 11 B661 11 Existed 0 11 26 Continuity Not existed 0 11 26 Continuity Not existed 0 11 26 26 So OT 10 So OT 10 0 11 26 Continuity Not existed 0 11 G		1			(—)	C	ondition		
$\begin{array}{ c c c c c } \hline 11 \\ \hline 26 \\ \hline $	Connector	Terr	ninai				Pooleword		0
B552 26 Ground (seatback) Forward 0 e inspection result normal? S >> Sliding switch (seatback) circuit is OK. >> GO TO 2. HECK SLIDING SWITCH (SEATBACK) CIRCUIT Disconnect passenger seat control unit connector and sliding switch (seatback) connector. Check continuity between passenger seat control unit harness connector and sliding switch (seatback) Continuity Passenger seat control unit Sliding switch (seatback) Continuity Connector Terminal Connector Continuity B552 11 B561 11 Existed Check continuity between passenger seat control unit harness connector and ground. Passenger seat control unit Continuity Passenger seat control unit Siding switch (seatback) Continuity Connector Terminal Ground Continuity Reserver as a control unit Ground Continuity Continuity B552 11 B561 So QO TO 3. So QO TO 3. So QO TO 3. So QO TO 3. So QO TO 4. Continuity So > GO TO 4. So QO TO 4. Ground Continuity Existed Existed So > GO TO 4. So > QO TO 4. So >		1	1					bovo	-
26 1000000000000000000000000000000000000	B552			Gr	ound			above	
e inspection result normal? S →> Sliding switch (seatback) circuit is OK. →> GO TO 2. SHECK SLIDING SWITCH (SEATBACK) CIRCUIT Disconnect passenger seat control unit connector and sliding switch (seatback) connector. Check continuity between passenger seat control unit harness connector and sliding switch (seatback) Continuity Connector Terminal Connector Terminal Continuity Connector Terminal Connector Terminal Continuity S552 11 B561 11 Existed Check continuity between passenger seat control unit harness connector and ground. Passenger seat control unit Continuity Connector Terminal Ground Continuity Continuity between passenger seat control unit harness connector and ground. Passenger seat control unit Continuity between passenger seat control unit harness connector and ground. Passenger seat control unit Continuity Connector Terminal Ground Continuity S >> GO TO 3. > >> Repair or replace harness. HECK SLIDING SWITCH (SEATBACK) GROUND CIRCUIT ck continuity between sliding switch (seatback) harness connector and ground. Sliding switch (seatback) Continuity B561 32 Continuity B561 32 Continuity B561 32 Continuity Connector Terminal Ground Continuity B561 32 Continuity S >> Repair or replace harness. HECK SLIDING SWITCH (SEATBACK) GROUND CIRCUIT ck continuity between sliding switch (seatback) harness connector and ground. Sliding switch (seatback) Continuity B561 32 Continuity B561 32 Continuity B561 32 Continuity B561 32 Continuity B561 32 Continuity Continuity B561 32 Continuity B561 32 Continuity Continuity B561 32 Continuity B561 32 Continuity B57 Continuity B58 Continuity B58 Continuity B58 Continuity B58 Continuity B58 Continuity B58 Continuity B58 Continuity B58 Continuity B		2	:6			(,		bovo	
S >> Sliding switch (seatback) circuit is OK. >>> GO TO 2. PHECK SLIDING SWITCH (SEATBACK) CIRCUIT Disconnect passenger seat control unit connector and sliding switch (seatback) connector. Check continuity between passenger seat control unit harness connector and sliding switch (seatback) Connector Terminal Continuity Existed Check continuity between passenger seat control unit harness connector and ground. Passenger seat control unit Continuity Connector Terminal Ground Continuity e inspection result normal? S S >> GO TO 3. > >> Repair or replace harness. HECK SLIDING SWITCH (SEATBACK) GROUND CIRCUIT ck continuity between sliding switch (seatback) harness connector and ground. Sliding switch (seatback) Ground Continuity Existed e inspection result normal?	ha incraction ra	sult norm	al2					10010	Dattory voltage
Connector Terminal Connector Terminal Continuity B552 11 11 11 Existed Check continuity between passenger seat control unit harness connector and ground. Passenger seat control unit Continuity Passenger seat control unit Ground Continuity Continuity B552 11 Ground Continuity B552 11 Ground Not existed e inspection result normal? S S S S > GO TO 3. S S > >> Repair or replace harness. HECK SLIDING SWITCH (SEATBACK) GROUND CIRCUIT Continuity ck continuity between sliding switch (seatback) harness connector and ground. Continuity Sliding switch (seatback) Ground Continuity Connector Terminal Ground Continuity So >> GO TO 4. S S S >>> Repair or replace harness. SHECK SLIDING SWITCH (SEATBACK) Stiding switch (seatback). Existed e inspection result normal? S S S S <	ES >> Sliding O >> GO TC CHECK SLIDING Disconnect pas Check continui	switch (s 2. G SWITC ssenger s ty betwee	eatback) H (SEATI eat contro	BACK) (ol unit co	CIRCUIT				
Connector Terminal Connector Terminal Continuity B552 11 11 11 Existed Check continuity between passenger seat control unit harness connector and ground. Passenger seat control unit Continuity Passenger seat control unit Ground Continuity Continuity B552 11 Ground Continuity B552 11 Ground Not existed e inspection result normal? S S S S > GO TO 3. S S > >> Repair or replace harness. HECK SLIDING SWITCH (SEATBACK) GROUND CIRCUIT Continuity ck continuity between sliding switch (seatback) harness connector and ground. Continuity Sliding switch (seatback) Ground Continuity Connector Terminal Ground Continuity So >> GO TO 4. S S S >>> Repair or replace harness. SHECK SLIDING SWITCH (SEATBACK) Stiding switch (seatback). Existed e inspection result normal? S S S S <	Passon	ier seat con	trol unit			Sliding switch (see	thack)		
B552 11 B561 11 Existed Check continuity between passenger seat control unit harness connector and ground. Passenger seat control unit harness connector and ground. Passenger seat control unit Ground Continuity 0 11 Ground Continuity 0 11 Ground Continuity 0 11 Ground Not existed 0 26 0 Not existed 0 552 11 Not existed 0 11 Ground Not existed 0 s> Seq O TO 3. Seq O TO 3. Seq O TO 3. 0 >> Repair or replace harness. HECK SLIDING SWITCH (SEATBACK) GROUND CIRCUIT Continuity ck continuity between sliding switch (seatback) harness connector and ground. Existed Existed 0 Secon result normal? Sround Continuity S >> GO TO 4. Secon To 4. Secon To 4. Secon To 4. 0 >> Repair or replace harness. HECK SLIDING SWITCH (SEATBACK) Secon To 4. 0 >> Repair or replace harness. HECK SLIDING SWITCH (SEATBACK) Secon To 4.					Con	U (,		Continuity
B552 26 B661 26 Existed Check continuity between passenger seat control unit harness connector and ground. Passenger seat control unit harness connector and ground. Passenger seat control unit Ground Continuity 0 0 11 Ground Continuity 0 11 Ground Not existed Not existed e inspection result normal? 26 Not existed Not existed S >> GO TO 3. >> Repair or replace harness. Continuity HECK SLIDING SWITCH (SEATBACK) GROUND CIRCUIT Continuity Continuity S >> GO TO 3. Continuity Continuity 0 >> Repair or replace harness. Continuity Existed Silding switch (seatback) Ground Continuity 0 S S O TO 4. Existed 0 >> Repair or replace harness. HECK SLIDING SWITCH (SEATBACK) Existed ck sliding switch (seatback). or replace harness. Existed Existed 1 32 S S S S 0 >> Repair or replace harness. S <t< td=""><td></td><td></td><td></td><td></td><td>0011</td><td></td><td></td><td></td><td></td></t<>					0011				
Check continuity between passenger seat control unit harness connector and ground. Passenger seat control unit Passenger seat control unit Continuity Connector Terminal Continuity B552 11 B552 Continuity e inspection result normal? 26 Not existed S >> GO TO 3. >> Repair or replace harness. Not existed Check SLIDING SWITCH (SEATBACK) GROUND CIRCUIT Continuity Continuity ck continuity between sliding switch (seatback) harness connector and ground. Continuity Sliding switch (seatback) Ground Continuity Siding switch (seatback) Ground Continuity S >> GO TO 4. S >> GO TO 4. Existed P >> Repair or replace harness. EHECK SLIDING SWITCH (SEATBACK) Existed c inspection result normal? S >> GO TO 4. Existed Existed P >> Repair or replace harness. EHECK SLIDING SWITCH (SEATBACK) Existed Existed Existed c inspection result normal? S >> GO TO 4. S >> GO TO 5. S >> GO TO 5. S >> GO TO 5.	B552				B	561			Existed
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Connector Terminal Ground Continuity B552 11 Not existed Not existed e inspection result normal? 26 Not existed Not existed S >> GO TO 3. >> Repair or replace harness. State of the second	Check continui	ly betwee	in passen	iyei sea			inector and g	nounu.	
Connector Terminal Ground B552 11 Not existed e inspection result normal? 26 Not existed S >> GO TO 3. > >>> Repair or replace harness. . . Connector reminal Ground Continuity Ck continuity between sliding switch (seatback) harness connector and ground. Continuity Sliding switch (seatback) Ground Continuity Connector Terminal Ground Continuity B561 32 Continuity e inspection result normal? S >> GO TO 4. Existed > >> Repair or replace harness. . . . EHECK SLIDING SWITCH (SEATBACK) . . . S >> GO TO 4. . . . > >> Repair or replace harness. EHECK SLIDING SWITCH (SEATBACK) ck sliding switch (seatback). er to SE-54, "SEATBACK : Component Inspection". <td>P</td> <td>assenger se</td> <td>eat control u</td> <td>unit</td> <td></td> <td></td> <td></td> <td></td> <td>Continuity</td>	P	assenger se	eat control u	unit					Continuity
B552 11 Not existed 26 26 Not existed e inspection result normal? S >> GO TO 3. > >> Repair or replace harness.	Connecto	r		Terminal		Group	ч		Continuity
26 e inspection result normal? S >> GO TO 3. >> Repair or replace harness. CHECK SLIDING SWITCH (SEATBACK) GROUND CIRCUIT ck continuity between sliding switch (seatback) harness connector and ground. Sliding switch (seatback) Connector Terminal B561 32 e inspection result normal? S >> GO TO 4. > >> Repair or replace harness. CHECK SLIDING SWITCH (SEATBACK) ck sliding switch (seatback). cr to SE-54. "SEATBACK : Component Inspection". e inspection result normal? S S S >> GO TO 5.									
S >> GO TO 3. >>> Repair or replace harness. CHECK SLIDING SWITCH (SEATBACK) GROUND CIRCUIT ck continuity between sliding switch (seatback) harness connector and ground. Sliding switch (seatback) Connector Terminal B561 32 e inspection result normal? S >> GO TO 4. >> Repair or replace harness. CHECK SLIDING SWITCH (SEATBACK) ck sliding switch (seatback). cr to SE-54. "SEATBACK : Component Inspection". e inspection result normal? S >> GO TO 5.	DEED			11		0.00			Not ovioted
Connector Terminal Ground Continuity B561 32 Existed e inspection result normal? S >> GO TO 4. S >> GO TO 4. >> Repair or replace harness. CHECK SLIDING SWITCH (SEATBACK) Continuity ck sliding switch (seatback). Continuity er to SE-54. "SEATBACK : Component Inspection". Einspection result normal? S >> GO TO 5.		sult norm	al?				а 		Not existed
Connector Terminal Ground B561 32 Existed e inspection result normal? S >> GO TO 4. > >> Repair or replace harness. EXIDING SWITCH (SEATBACK) ck sliding switch (seatback). Existed er to SE-54. "SEATBACK : Component Inspection". e inspection result normal? S >> GO TO 5.	he inspection re ES >> GO TC O >> Repair CHECK SLIDIN	3. or replace G SWITC	e harness H (SEATI	26 5. BACK) (CIRCUIT			Not existed
e inspection result normal? S >> GO TO 4. >> Repair or replace harness. HECK SLIDING SWITCH (SEATBACK) ck sliding switch (seatback). er to SE-54. "SEATBACK : Component Inspection". e inspection result normal? S >> GO TO 5.	he inspection re ES >> GO TC O >> Repair CHECK SLIDIN eck continuity be	3. or replace G SWITC etween sli	e harness H (SEATI ding swite	26 s. BACK) (ch (seat		CIRCUIT			
S >> GO TO 4. >> Repair or replace harness. HECK SLIDING SWITCH (SEATBACK) ck sliding switch (seatback). er to <u>SE-54. "SEATBACK : Component Inspection"</u> . <u>e inspection result normal?</u> S >> GO TO 5.	he inspection re ES >> GO TC O >> Repair CHECK SLIDIN eck continuity be	3. or replace G SWITC etween sli Bliding swite	e harness H (SEATI ding swite	26 s. BACK) (ch (seat	back) hai	CIRCUIT	and ground.		
se replace dialing emicin (coursed), reich to <u>or zor, exploade nom</u> .	he inspection re ES >> GO TC O >> Repair CHECK SLIDIN eck continuity be Connecto B561	3. or replace G SWITC etween sli Bliding switc r	e harness H (SEATI ding swite th (seatback	26 S. BACK) (ch (seat k) Terminal	back) hai	CIRCUIT	and ground.		Continuity
HECK PASSENGER SEAT CONTROL UNIT OUTPUT SIGNAL	he inspection res ES >> GO TC O >> Repair CHECK SLIDING eck continuity be Connector B561 he inspection res ES >> GO TC O >> Repair CHECK SLIDING eck sliding switc fer to <u>SE-54, "SE</u> he inspection res ES >> GO TC O >> Replac	93. or replace G SWITC etween sli Sliding switc r sult norma or replace G SWITC h (seatba ATBACK sult norma o 5. e sliding s	e harness H (SEATI ding swite th (seatback al? e harness H (SEATI ck). <u>C Compo</u> al? switch (se	26 s. BACK) (ch (seat k) Terminal 32 s. BACK) onent Ins eatback)	back) hai	CIRCUIT rness connector Groun	and ground.		Continuity

< DTC/CIRCUIT DIAGNOSIS >

	+) eat control unit	(-)	Voltage (V) (Approx.)
Connector	Terminal	_ (Approx.)	
B552	11	Ground	Battery voltage
	26		

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace passenger seat control unit. Refer to <u>SE-260, "Removal and Installation"</u>.

6. CHECK INTERMITTENT INCIDENT

Check intermittent incident. Refer to <u>GI-37, "Intermittent Incident"</u>.

>> INSPECTION END

SEATBACK : Component Inspection

INFOID:000000005629794

1. CHECK SLIDING SWITCH

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

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace sliding switch (seatback). Refer to <u>SE-234, "Exploded View"</u>.

RECLINING SWITCH

< DTC/CIRCUIT DIAGNOSIS >			
RECLINING SWITCH			
DRIVER SIDE			
DRIVER SIDE : Description			INFOID:00000005629795
Reclining switch is equipped to the power	seat switc	h on the seat cushion si	de surface.
The operation signal is input to the driver s	seat contro	ol unit when the reclining	switch is operated.
DRIVER SIDE : Component Func	tion Ch	eck	INFOID:00000005629790
1.CHECK FUNCTION			
 Turn ignition switch ON. Select "RECLN SW-FR", "RECLN SW-F Check reclining switch signal under the 			ing CONSULT-III.
Monitor item	Сог	ndition	Status
RECLINE SW-FR Reclining switch ((forward)	Operate	ON
	(IOI wald)	Release	OFF
RECLINE SW-RR Reclining switch ((backward)	Operate	ON
s the indication normal?	. ,	Release	OFF
YES >> Reclining switch function is OK. NO >> Refer to <u>SE-55, "DRIVER SIDE</u> DRIVER SIDE : Diagnosis Proced	: Diagnos	is Procedure".	INFOID:000000005629793
CHECK RECLINING SWITCH SIGNAL			
 Turn ignition switch OFF. Disconnect power seat switch connecto Check voltage between power seat swit 		s connector and ground	
(+)			
Power seat switch		(-)	Voltage (V) (Approx.)
Connector Termin	nal		
B511 12 27		- Ground	Battery voltage
Is the inspection result normal?			
YES >> GO TO 3. NO >> GO TO 2.			
2. CHECK RECLINING SWITCH CIRCUIT			
 Disconnect driver seat control unit conn Check continuity between driver seat connector. 		harness connector and	power seat switch harness con-
Driver seat control unit		Power seat switch	

Driver seat	control unit	Power seat switch		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	P
B503	12	B511	12	Existed	
6303	27	6311	27	LAISIEU	

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

RECLINING SWITCH

< DTC/CIRCUIT DIAGNOSIS >

t control unit		Continuity
Terminal	Ground	Continuity
12	Ground	Not existed
27		NUL EXISIEU
nal?		
ce harness.	SE-259, "Removal and Insta	allation".
/ITCH		
IDE : Component Inspec	tion".	
nal?		
seat switch. Refer to <u>SE</u>	-263, "Removal and Installati	<u>on"</u> .
INCIDENT		
Incident".		
ND		
oonent Inspection		INFOID:00000000562979
/ITCH		
switch connector.	minals.	
	12 27 nal? seat control unit. Refer to ce harness. /ITCH IDE : Component Inspection nal? seat switch. Refer to SE r INCIDENT Incident". SND conent Inspection /ITCH F. switch connector.	Terminal Ground 12 27 al? seat control unit. Refer to SE-259, "Removal and Instate harness. /ITCH IDE : Component Inspection". hal? seat switch. Refer to SE-263, "Removal and Installating of the seat switch."

I Owel 30	ear switch	Con	dition	Continuity
Terr	minal	Condition		Continuity
	12		Backward	Existed
32	Reclining switch	Declining owitch	Other than above	Not existed
52		Forward	Existed	
	21		Other than above	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power seat switch. Refer to <u>SE-263. "Removal and Installation"</u>. PASSENGER SIDE

PASSENGER SIDE : Description

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

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

PASSENGER SIDE : Component Function Check

1.CHECK FUNCTION

Check seat reclining operation with reclining switch.

Is the indication normal?

YES >> Reclining switch function is OK.

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

SE-56

INFOID:000000005629799

INFOID:000000005629800

RECLINING SWITCH

< DTC/CIRCUIT DIAGNOSIS >

PASSENGER SIDE : Diagnosis Procedure

INFOID:00000000562980

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1.CHECK RECLINING SWITCH SIGNAL

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

(+	+)				
Passenger seat control unit		()	Condition		Voltage (V) (Approx.)
Connector	Terminal	-			(/ () () () () () () () () () () () () ()
	10			Backward	0
B552	12	Ground			Battery voltage
D002	07	Ground	Reclining switch	Forward	0
	27			Other than above	Battery voltage

Is the inspection result normal?

YES >> Reclining switch circuit is OK.

NO >> GO TO 2.

2. CHECK RECLINING SWITCH CIRCUIT

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

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

Passenger se	eat control unit	Power seat switch				Continuity
Connector	Terminal	Connector	Terminal	Continuity		
B552	12	B554	12	Existed		
0002	27	D004	27	EXISTED		

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

				0
Passenger se	eat control unit		Continuity	
Connector	Terminal	Ground	Continuity	IZ.
B552	12	Ground	Not existed	N
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-263, "Removal and Installation"</u>.

4.CHECK PASSENGER SEAT CONTROL UNIT OUTPUT SIGNAL

1. Connect passenger seat control unit connector.

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

(+)			
Passenger se	eat control unit	()	Voltage (V) (Approx.)	
Connector	Terminal			
B552	12	Ground	Battery voltage	
B332	27	Gibund	Dattery voltage	

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace passenger seat control unit. Refer to <u>SE-260, "Removal and Installation"</u>.

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident. Refer to<u>GI-37, "Intermittent Incident"</u>.

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:000000005629802

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	eat switch	Co	Condition		
Terr	minal	Condition		Continuity	
	10	Redining owitch	Backward	Existed	
32	12 27		Other than above	Not existed	
32		 Reclining switch 	Forward	Existed	
	21		Other than above	Not existed	

Is the inspection result normal?

- YES >> INSPECTION END
- NO >> Replace power seat switch. Refer to <u>SE-263, "Removal and Installation"</u>.

< DTC/CIRCUIT DIAC	GNOSIS >		-	-	
LIFTING SWITC	CH (FRONT)				
DRIVER SIDE					
DRIVER SIDE : D	escription				INFOID:000000005629803
Lifting switch (front) iThe operation signal					e surface.
DRIVER SIDE : C	omponent Funct	ion Ch	neck		INFOID:000000005629804
1.CHECK FUNCTION	1				
	h ON. W-UP", "LIFT FR SW- n (front) signal under t				CONSULT-III.
Monitor item		Co	ondition		Status
	Lifting owitch front	(110)	Operate		ON
LIFT FR SW-UP	Lifting switch front	(up)	Release		OFF
LIFT FR SW-DN	Lifting switch front	(down)	Operate		ON
	Lining Switch Hold	(down)	Release		OFF
	. ,		ss connecto	r and ground.	s
	(+)				
P	ower seat switch		_	()	Voltage (V) (Approx.)
Connector	Termina	al			(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
B511	13 28			Ground	Battery voltage
$\frac{\text{Is the inspection result}}{\text{YES}} >> \text{GO TO 3.} \\ \text{NO} >> \text{GO TO 2.} \\ \textbf{2.CHECK LIFTING S}$		CUIT	1		
	seat control unit conne etween driver seat co		harness co	nnector and powe	er seat switch harness con-
Driver sea	t control unit		Power s	eat switch	Continuity
Connector	Terminal	Co	nnector	Terminal	Continuity
	13		B511	13	Existed

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

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< DTC/CIRCUIT DIAGNOSIS >

Driver se	at control unit		Continuity
Connector	Termin	al Ground	Continuity
B503	13	Ground	Not existed
	28		Not existed
Is the inspection result norr	<u>nal?</u>		
		Refer to SE-259, "Removal and Ins	<u>stallation"</u> .
NO >> Repair or repla			
3. CHECK LIFTING SWIT	CH (FRONT)		
Check lifting switch (front).			
Refer to <u>SE-60, "DRIVER S</u>		nt Inspection".	
Is the inspection result norr	<u>nal?</u>		
YES >> GO TO 4.		_	
· · · ·		er to <u>SE-263, "Removal and Installa</u>	<u>ition"</u> .
4.CHECK INTERMITTEN	T INCIDENT		
Check intermittent incident.	1		
Refer to GI-37, "Intermitten	<u>t Incident"</u> .		
>> INSPECTION			
DRIVER SIDE : Com	ponent inspe	ction	INFOID:000000005629806
1.CHECK LIFTING SWIT	CH (FRONT)		
1. Turn ignition switch OF	F.		
2. Disconnect power seat			
 Check continuity between the second se	en power seat s	witch terminals.	
Power seat s	witch		
Terminal		Condition	Continuity

F Ower Se		Condition		Continuity	
Terr	ninal	Condition		Continuity	
	13		Down	Existed	
32	Lifting switch (front)	Lifting owitch (front)	Other than above	Not existed	
52		Up	Existed		
	20		Other than above	Not existed	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power seat switch. Refer to <u>SE-263, "Removal and Installation"</u>. PASSENGER SIDE

PASSENGER SIDE : Description

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

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

PASSENGER SIDE : Component Function Check

1.CHECK FUNCTION

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

Is the indication normal?

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

NO >> Refer to <u>SE-61. "PASSENGER SIDE : Diagnosis Procedure"</u>.

INFOID:000000005629807

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< DTC/CIRCUIT DIAGNOSIS >

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000005629809

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1.CHECK LIFTING SWITCH (FRONT) SIGNAL

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

				+)	(-	
Voltage (V) (Approx.)	Condition				Passenger seat control unit	
(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				Terminal	Connector	
0	Down			13		
Battery voltage	Other than above	Lifting owitch (front)	Ground	15	B552	
0	UP	Lifting switch (front)	Ground	28	B002	
Battery voltage	Other than above			28		

Is the inspection result normal?

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

NO >> GO TO 2.

2.CHECK LIFTING SWITCH (FRONT) CIRCUIT

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

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

Passenger se	eat control unit	Power seat switch		t control unit Power seat switch		Continuity
Connector	Terminal	Connector	Terminal	Continuity		
B552	13	P554	13	Existed		
6002	28	B554 -	28	Existed		

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

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

Is the inspection result normal?

YES >> GO TO 3.

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

Check lifting switch (front). Refer to SE-62, "PASSENGER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace power seat switch. Refer to SE-263, "Removal and Installation".

4.CHECK PASSENGER SEAT CONTROL UNIT OUTPUT SIGNAL

1. Connect passenger seat control unit connector.

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

(+) Passenger seat control unit			
		(-)	Voltage (V) (Approx.)
Connector	Terminal		(* 111)
B552	13	- Ground	Battony voltago
6002	28		Battery voltage

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace passenger seat control unit. Refer to <u>SE-260, "Removal and Installation"</u>.

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-37, "Intermittent Incident".

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:000000005629810

1. CHECK LIFTING SWITCH (FRONT)

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

Power seat switch Terminal		Condition		Continuity
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 <u>SE-263</u>, "Removal and Installation".

LIFTING SWITCH (REAR)

< DTC/CIRCUIT DIAGNOSIS > LIFTING SWITCH (REAR) **DRIVER SIDE** DRIVER SIDE : Description Lifting switch (rear) is equipped to the power seat switch on the seat cushion side surface. The operation signal is input to the driver seat control unit when the lifting switch (rear) is operated. **DRIVER SIDE : Component Function Check**

1.CHECK FUNCTION

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

Monitor item	Co	ondition	Status	
LIFT RR SW-UP	Lifting switch rear (up)	Operate	ON	
		Release	OFF	
LIFT RR SW-DN		Operate	ON	
	Lifting switch rear (down)	Release	OFF	

Is the indication normal?

- YES >> Lifting switch (rear) function is OK.
- NO >> Refer to <u>SE-63</u>, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE : Diagnosis Procedure

- 1.CHECK LIFTING SWITCH (REAR) SIGNAL
- 1. Turn ignition switch OFF.
- 2. Disconnect power seat switch connector.
- 3. Check voltage between power seat switch harness connector and ground.

David	(+)		Voltage (V)	K
Connector	eat switch Terminal	()	Voltage (V) (Approx.)	
DE11	14	Ground	Detter weltere	L
B511	29	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK LIFTING SWITCH (REAR) CIRCUIT

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

Driver seat	control unit	Power se	ear switch	Continuity	-
Connector	Terminal	Connector	Terminal	Continuity	P
B503	14	B511	14	Existed	_ '
6303	29	BOTT	29	EXISTED	

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

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LIFTING SWITCH (REAR)

< DTC/CIRCUIT DIAGNOSIS >

Driver seat	control unit		Continuity
Connector	Termina	Ground	Continuity
B503	14	Ground	Not existed
B303	29		NOT EXISTED
s the inspection result norma	<u>al?</u>		
		Refer to <u>SE-259, "Removal and Inst</u>	tallation".
NO >> Repair or replace			
3. CHECK LIFTING SWITC	H (REAR)		
Check lifting switch (rear). Refer to <u>SE-64, "DRIVER SI</u>	DE : Componen	Inspection".	
s the inspection result norma	al?		
YES >> GO TO 4. NO >> Replace power s	seat switch. Refe	r to <u>SE-263, "Removal and Installat</u>	ion".
4.CHECK INTERMITTENT	INCIDENT		
Check intermittent incident. Refer to <u>GI-37, "Intermittent</u>	Incident"		
	<u>inordoni </u> i		
>> INSPECTION E	ND		
DRIVER SIDE : Comp	onent Inspe	tion	INFOID:00000000562981
1. CHECK LIFTING SWITC	H (REAR)		
 Turn ignition switch OFF Disconnect power seat s 			
3. Check continuity betwee			
Power seat swi	tch	Condition	Continuity
Terminal		Condition	Continuity

1 60001 30	Tower seat switch		Condition	
Terr	minal			Continuity
	14	 Lifting switch (rear) 	Down	Existed
32			Other than above	Not existed
32	20		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-263. "Removal and Installation"</u>. PASSENGER SIDE

PASSENGER SIDE : Description

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

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

PASSENGER SIDE : Component Function Check

1.CHECK FUNCTION

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

Is the indication normal?

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

NO >> Refer to <u>SE-65</u>, "PASSENGER SIDE : Diagnosis Procedure".

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LIFTING SWITCH (REAR)

< DTC/CIRCUIT DIAGNOSIS >

PASSENGER SIDE : Diagnosis Procedure

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1.CHECK LIFTING SWITCH (REAR) SIGNAL

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

	+)			P.C	Voltage (V)	С
	eat control unit	()	Con	dition	(Approx.)	0
Connector	Terminal					
	14			Down	0	D
B552	14	Ground	Lifting switch (front)	Other than above	Battery voltage	
0002	29	Ground	Lining Switch (Holit)	Up	0	
	29			Other than above	Battery voltage	E

Is the inspection result normal?

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

NO >> GO TO 2.

2.CHECK LIFTING SWITCH (REAR) CIRCUIT

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

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

Passenger s	eat control unit	Power sear switch		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B552	14	B554	14	Existed
B332	29	6004	29	Existed

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

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK LIFTING SWITCH (REAR)

Check lifting switch (rear).

Refer to <u>SE-66, "PASSENGER SIDE : Component Inspection"</u>.

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace power seat switch. Refer to <u>SE-263, "Removal and Installation"</u>.

4.CHECK PASSENGER SEAT CONTROL UNIT OUTPUT SIGNAL

1. Connect passenger seat control unit connector.

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

((+)			
Passenger seat control unit		()	Voltage (V) (Approx.)	
Connector	Terminal		()]]]]]]]]]]]]]]]]]]	
B552	14 Ground	Battory voltago		
8552	29	Ground	Battery voltage	

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace passenger seat control unit. Refer to <u>SE-260, "Removal and Installation"</u>.

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident. Refer to <u>GI-37, "Intermittent Incident"</u>.

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:000000005629818

1.CHECK LIFTING SWITCH (REAR)

1. Turn ignition switch OFF.

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

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power seat switch. Refer to <u>SE-263</u>, "Removal and Installation".

POWER SEAT SWITCH GROUND CIRCUIT

-		H GROUND CIRCU	Т
< DTC/CIRCUIT DIAGNOS			
POWER SEAT SWI	ICH GROUND CII	RCUII	A
DRIVER SIDE			
DRIVER SIDE : Diagno	osis Procedure		INFOID:000000005629819
1.CHECK POWER SEAT S	WITCH GROUND CIRCUI	Т	
 Turn ignition switch OFF. Disconnect power seat s Check continuity betwee 	witch connector. n power seat switch conne	ector and ground.	С
Power se	at switch		D
Connector	Terminal	Ground	
B511	32		Existed E
Is the inspection result normal YES >> GO TO 2. NO >> Repair or replace 2.CHECK POWER SEAT SV	harness.	JIT	F
Check lifting switch (rear). Refer to <u>SE-64, "DRIVER SII</u>	DE : Component Inspectio	<u>n"</u> .	G
Is the inspection result norma	<u>ll?</u>		
YES >> GO TO 3. NO >> Replace power s	eat switch Refer to SE-26	3. "Removal and Installation	מע " H
3.CHECK INTERMITTENT			<u>, , , , , , , , , , , , , , , , , , , </u>
Check intermittent incident. Refer to <u>GI-37, "Intermittent I</u>	ncident".		1
>> INSPECTION EN PASSENGER SIDE	ID		SE
PASSENGER SIDE : D	iagnosis Procedure	9	INFOID:000000005629820 K
1.CHECK POWER SEAT S	WITCH GROUND CIRCUI	т	
 Turn ignition switch OFF. Disconnect power seat s Check continuity between 	witch connector. n power seat switch conne	ector and ground.	L
Power se	at switch		Continuity
Connector	Terminal	Ground	
B554	32		Existed N
Is the inspection result norma			
YES-1:When power seat sw YES-2:When all power seat NO >> Repair or replace	components do not opera		0
2.CHECK POWER SEAT S	WITCH INTERNAL CIRCU	JIT	
Check sliding switch. Refer to <u>SE-52, "PASSENGE</u>	R SIDE : Component Insp	pection".	P
Is the inspection result norma			
YES >> GO TO 3.	oot owitch Defor to CE OC	2 "Domoval and Installation	\n"
NO >> Replace power s 3.CHECK INTERMITTENT		3, "Removal and Installation	<u>) </u> .

POWER SEAT SWITCH GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

Check intermittent incident. Refer to <u>GI-37, "Intermittent Incident"</u>.

>> INSPECTION END

DTC/CIRCUIT DIAG	NOSIS >						
ORWARD SWI	ITCH						
RIVER SIDE							
RIVER SIDE : D	escription					INFOID:00000000	5629821
Forward switch is inst Forward switch detec							
RIVER SIDE : C	omponent	Functio	n Check			INFOID:00000000	5620822
CHECK FUNCTION	•						
. Turn ignition switch	ו ON.						
 Select "FORWARD Check the forward 	SW" in the "						
 Test item			C	ondition		Status	_
				Folded up		ON	
FORWARD SW		Driver side s	seatback	Folded down		OFF	
		`					
CHECK FORWARD Turn ignition switch Disconnect forward	SWITCH INF n OFF. d switch conne	PUT SIGNA	AL	or and ground.		INFOID:00000000	5629823
CHECK FORWARD Turn ignition switch Disconnect forward	SWITCH INF n OFF. d switch conne ween forward	PUT SIGNA	AL	or and ground.			
CHECK FORWARD Turn ignition switch Disconnect forward Check voltage betw	SWITCH INF n OFF. d switch conne ween forward	PUT SIGNA	AL	or and ground.		Voltage (V)	
CHECK FORWARD Turn ignition switch Disconnect forward Check voltage betw (+	SWITCH INF n OFF. d switch conne ween forward	PUT SIGNA	AL ness connec				
CHECK FORWARD Turn ignition switch Disconnect forward Check voltage betw (+) Forward Connector B512	9 SWITCH INF n OFF. d switch conne ween forward) I switch Terminal 41	PUT SIGNA	AL ness connec		ode	Voltage (V)	
CHECK FORWARD Turn ignition switch Disconnect forward Check voltage betw (+ Forward Connector B512 the inspection result YES >> GO TO 3. NO >> GO TO 2. CHECK FORWARD Disconnect driver s	SWITCH INF OFF. d switch conne ween forward switch Terminal <u>41 normal? SWITCH CIF</u> seat control un	PUT SIGNA	AL ness connect (-) Ground or.	Condition		Voltage (V) (Approx.) 5	-
CHECK FORWARD Turn ignition switch Disconnect forward Check voltage betw (+ Forward Connector B512 the inspection result (ES >> GO TO 3. NO >> GO TO 2. CHECK FORWARD Disconnect driver so Check continuity be tor.	SWITCH INF OFF. d switch conne ween forward switch Terminal <u>41 normal? SWITCH CIF</u> seat control un	PUT SIGNA	AL ness connect (-) Ground or. ol unit harne	Condition Not in the sleep mo		Voltage (V) (Approx.) 5	-
CHECK FORWARD Turn ignition switch Disconnect forward Check voltage betw (+ Forward Connector B512 the inspection result (ES >> GO TO 3. NO >> GO TO 2. CHECK FORWARD Disconnect driver so Check continuity be tor.	SWITCH INF o OFF. d switch conne ween forward i switch Terminal 41 normal? SWITCH CIF seat control un etween driver	PUT SIGN/ ector. switch har	AL ness connect (-) Ground or. ol unit harne	Condition Not in the sleep mo		Voltage (V) (Approx.) 5	-
CHECK FORWARD Turn ignition switch Disconnect forward Check voltage betw (+) Forward Connector B512 the inspection result (ES >> GO TO 3. NO >> GO TO 2. CHECK FORWARD Disconnect driver so Check continuity be tor. Driver seat	SWITCH INF OFF. d switch conne ween forward i switch Terminal 41 normal? SWITCH CIF seat control un etween driver t control unit	PUT SIGN/ ector. switch har	AL ness connect (-) Ground or. ol unit harne	Condition Not in the sleep mo Ss connector and forw Forward switch		Voltage (V) (Approx.) 5	-
CHECK FORWARD Turn ignition switch Disconnect forward Check voltage betw (+) Forward Connector B512 the inspection result YES >> GO TO 3. NO >> GO TO 2. CHECK FORWARD Disconnect driver so Check continuity be tor. Driver seat Connector B504	SWITCH INF OFF. d switch conne ween forward i switch Terminal 41 normal? SWITCH CIF seat control un etween driver t control unit Termina 41	PUT SIGN/ ector. switch har	AL ness connect (-) Ground or. ol unit harne	Condition Condition Not in the sleep mo Ss connector and forw Forward switch Terminal	vard swit	Voltage (V) (Approx.) 5 tch harness coni	-
.CHECK FORWARD Turn ignition switch Disconnect forward Check voltage betw (+) Forward Connector B512 the inspection result YES > GO TO 3. NO >> GO TO 2. .CHECK FORWARD Disconnect driver se Check continuity be tor. Driver seat Connector B504 Check continuity be	SWITCH INF OFF. d switch conne ween forward i switch Terminal 41 normal? SWITCH CIF seat control un etween driver t control unit Termina 41	PUT SIGN/ ector. switch harr RCUIT nit connect r seat contr	AL ness connect (-) Ground or. ol unit harne	Condition Condition Not in the sleep mo Seconnector and forw Forward switch Terminal 41	vard swit	Voltage (V) (Approx.) 5 tch harness cont Continuity Existed	-
Disconnect forward Check voltage betw (+) Forward Connector B512 the inspection result YES >> GO TO 3. NO >> GO TO 2. CHECK FORWARD Disconnect driver s Check continuity be tor. Driver seat Connector B504 Check continuity be	SWITCH INF o OFF. d switch conne ween forward i switch Terminal 41 normal? SWITCH CIF seat control unit t control unit Terminal 41 etween driver	PUT SIGN/ ector. switch harr RCUIT nit connect r seat contr	AL ness connect (-) Ground or. ol unit harne	Condition Condition Not in the sleep mo Seconnector and forw Forward switch Terminal 41	vard swit	Voltage (V) (Approx.) 5 tch harness coni	-

YES >> Replace driver seat control unit. Refer to <u>SE-259, "Removal and Installation"</u>

NO >> Repair or replace harness.

< DTC/CIRCUIT DIAGNOSIS >

3.CHECK FORWARD SWITCH GROUND CIRCUIT

Check continuity between forward switch harness connector and ground.

Forwar	d switch		Continuity	
Connector	Connector Terminal		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 <u>SE-70, "DRIVER SIDE : Component Inspection"</u>.

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace forward switch. Refer to <u>SE-234, "Exploded View"</u>.

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident. Refer to <u>GI-37, "Intermittent Incident"</u>.

>> INSPECTION END

DRIVER SIDE : Component Inspection

1.CHECK FORWARD SWITCH

1. Turn ignition switch OFF.

2. Disconnect forward switch connector.

3. Check continuity between forward switch terminals.

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace forward switch. Refer to <u>SE-234, "Exploded View"</u>.

PASSENGER SIDE

PASSENGER SIDE : Description

• Forward switch is installed on seatback frame.

Forward switch detects condition of seatback.

PASSENGER SIDE : Component Function Check

1.CHECK FUNCTION

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

Is the inspection result normal?

YES >> Forward switch function is OK.

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

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< DTC/CIRCUIT DIAGNOSIS >

PASSENGER SIDE : Diagnosis Procedure

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1.CHECK FORWARD SWITCH INPUT SIGNAL

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

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

Is the inspection result normal?

YES >> Forward switch circuit is OK.

NO >> GO TO 2.

2. CHECK FORWARD SWITCH CIRCUIT

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

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

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

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

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

 ${f 3.}$ FORWARD SWITCH GROUND CIRCUIT

Check continuity between forward switch harness connector and ground.

Forward	switch		Continuity	
Connector	Terminal	Ground	Continuity	
B556	32		Existed	
s the inspection result norma	?			
YES >> GO TO 4.				
NO >> Repair or replace	harness.			
4.CHECK FORWARD SWIT	СН			
Check forward switch.				—
Refer to <u>SE-72, "PASSENGE</u>	R SIDE : Component In	spection".		
s the inspection result norma	<u> ?</u>			
YES >> GO TO 5.				
NO >> Replace forward	switch. Refer to SE-234	<u>, "Exploded View"</u> .		
D.CHECK PASSENGER SE	AT CONTROL UNIT OL	ITPUT SIGNAL		
. Connect passenger seat	control unit connector.			_

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

< DTC/CIRCUIT DIAGNOSIS >

((+)			
Passenger se	Passenger seat control unit		Condition	Voltage (V) (Approx.)
Connector	Terminal			
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-260, "Removal and Installation"</u>.

6.CHECK INTERMITTENT INCIDENT

Check intermittent incident. Refer to <u>GI-37, "Intermittent Incident"</u>.

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:000000005629828

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace forward switch. Refer to <u>SE-234, "Exploded View"</u>.

< DTC/CIRCUIT DIAGNOSIS > SEAT BELT BUCKLE SWITCH А DRIVER SIDE DRIVER SIDE : Description INFOID:000000005629829 В Seat belt buckle switch is installed in seat belt buckle. Seat belt buckle switch detects condition of seat belt. **DRIVER SIDE : Component Function Check** INFOID:000000005629830 **1.**CHECK FUNCTION 1. Turn ignition switch ON. Select "SEAT BELT SW" in the "Data Monitor" mode using CONSULT-III. 2. 3. Check the forward switch signal under the following condition. Test item Condition Status Fastened ON SEAT BELT SW Driver side seat belt OFF Released Is the indication normal? YES >> Seat belt buckle switch (driver side) function is OK. NO >> Refer to SE-73, "DRIVER SIDE : Diagnosis Procedure". DRIVER SIDE : Diagnosis Procedure INFOID:000000005629831 Н 1.CHECK SEAT BELT BUCKLE SWITCH (DRIVER SIDE) INPUT SIGNAL 1. Turn ignition switch OFF. 2. Disconnect seat belt buckle switch (driver side) connector. 3. Check voltage between seat belt buckle switch (driver side) harness connector and ground. SE (+) Voltage (V) Seat belt buckle switch (driver side) (-) Condition (Approx.) Connector Terminal Κ B13 1 Ground 5 Not in the sleep mode Is the inspection result normal? YES >> GO TO 3. L NO >> GO TO 2. **2.**CHECK SEAT BELT BUCKLE SWITCH (DRIVER SIDE) CIRCUIT M 1. Disconnect driver seat control unit connector. Check continuity between driver seat control unit harness connector and seat belt buckle switch (driver side) harness connector. Ν Driver seat control unit Seat belt buckle switch (driver side) Continuity Connector Terminal Connector Terminal B503 5 B13 1 Existed 3 Check continuity between driver seat control unit harness connector and ground. Ρ Driver seat control unit Continuity Terminal Connector Ground B503 5 Not existed Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>SE-259</u>, "Removal and Installation".

< DTC/CIRCUIT DIAGNOSIS >

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

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

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

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK SEAT BELT BUCKLE SWITCH

Check seat belt buckle switch (driver side).

Refer to SE-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-234, "Exploded View"</u>.

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident. Refer to <u>GI-37, "Intermittent Incident"</u>.

>> INSPECTION END

DRIVER SIDE : Component Inspection

1.CHECK SEAT BELT BUCKLE SWITCH (DRIVER SIDE)

1. Turn ignition switch OFF.

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

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

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace seat belt buckle switch (driver side). Refer to <u>SE-234, "Exploded View"</u>. PASSENGER SIDE

PASSENGER SIDE : Description

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

Seat belt buckle switch detects condition of seat belt.

PASSENGER SIDE : Component Function Check

1.CHECK FUNCTION

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

Is the inspection result normal?

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

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

INFOID:000000005629834

INFOID:000000005629833

INFOID-000000005629832

< DTC/CIRCUIT DIAGNOSIS >

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000005629835

А

В

Е

F

Н

Κ

1.CHECK SEAT BELT BUCKLE SWITCH SIGNAL

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

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

Is the inspection result normal?

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

NO >> GO TO 2.

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

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

Passenger se	eat control unit	Seat belt buckle sw	itch (passenger side)	Continuity
Connector	Terminal	Connector	Terminal	Continuity
B552	5	B213	1	Existed

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

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

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

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

Seat belt buckle switch (passenger side)			Continuity	_		
Connector	Terminal	Ground	Continuity	I		
B213	2		Existed	_		
Is the inspection result normal'	2			-		
YES >> GO TO 4.						
NO >> Repair or replace I	narness.					
4.CHECK SEAT BELT BUCK	4. CHECK SEAT BELT BUCKLE SWITCH (PASSENGER SIDE)					
Check seat belt buckle switch.						
Refer to <u>SE-76, "PASSENGER</u>	SIDE : Component Ir	nspection".				
Is the inspection result normal	?	-				

YES >> GO TO 5.

NO >> Replace seat belt buckle switch (passenger side). Refer to <u>SE-234, "Exploded View"</u>.

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

1. Connect passenger seat control unit connector.

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

< DTC/CIRCUIT DIAGNOSIS >

(+)			
Passenger 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-260, "Removal and Installation"</u>.

6.CHECK INTERMITTENT INCIDENT

Check intermittent incident. Refer to <u>GI-37, "Intermittent Incident"</u>.

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:000000005629836

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) Terminal		Condition		Continuity
Ι	Z	Passenger side seat belt	Released	Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace seat belt buckle switch (passenger side). Refer to <u>SE-234, "Exploded View"</u>.

_	DTC/CIRCUIT DIAGNOS						
-	LIDING LIMIT SW RIVER SIDE	ПСН					А
DF	RIVER SIDE : Descr	ription				INFOID:00000005629837	В
	Bliding limit switch is insta Bliding limit switch detects						
	RIVER SIDE : Comp		-	bok			С
	CHECK FUNCTION			JUN		INFOID:000000005629838	
1.	Turn ignition switch ON.						D
1. 2. 3.	Select "FWD LIMIT SW Check the sliding limit s						Е
-	Test item		Con	dition		Status	
-		Soot oliding		Front edg	je	ON	_
	FWD LIMIT SW	Seat sliding	Other than above OFF				F
Y	the indication normal? ES >> Sliding limit swit O >> Refer to <u>SE-77.</u>			s Proced	<u>dure"</u> .		G
DF	RIVER SIDE : Diagn	osis Proced	ure			INFOID:000000005629839	
1.	CHECK SLIDING LIMIT	SWITCH INPUT	SIGNAI				Н
1. 2. 3.	Turn ignition switch OFF Disconnect sliding limit Check voltage between	- switch connector	r.	s connec	tor and ground.		I
	(+)						SE
	Sliding limit swi	tch	()		Condition	Voltage (V) (Approx.)	
	Connector	Terminal				(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	IZ.
	B514	4	Grour	nd	Not in the sleep mo	de 5	K
Y N	the inspection result norm ES >> GO TO 3. O >> GO TO 2. CHECK SLIDING LIMIT S Disconnect driver seat of Check continuity between nector.	SWITCH CIRCU	ector.	narness o	connector and slidi	ng limit switch harness con-	L
_							Ν
-	Driver seat contr			-	limit switch	Continuity	
-	Connector	Terminal		nector	Terminal		0
3.	B503 Check continuity betwee	4 en driver seat co		514 narness c	4 connector and grou	Existed Ind.	0
-		t control unit					Ρ
-	Connector	Termina	al	-	Ground	Continuity	
-	B503	4		-		Not existed	
ls f	the inspection result norm	-		<u> </u>			
	ES >> Replace driver s		Refer to S	<u>SE-259, "</u>	Removal and Insta	Illation".	

YES >> Replace driver seat control unit. Refer to <u>SE-259, "Removal and Installation"</u>.

< DTC/CIRCUIT DIAGNOSIS >

3.CHECK SLIDING LIMIT SWITCH GROUND CIRCUIT

Check continuity between sliding limit switch harness connector and ground.

Sliding lir	mit switch		Continuity
Connector	Terminal	Ground	Continuity
B514	32		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK SLIDING LIMIT SWITCH

Check sliding limit switch.

Refer to <u>SE-78, "DRIVER SIDE : Component Inspection"</u>.

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace sliding limit switch. Refer to <u>SE-234, "Exploded View"</u>.

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident. Refer to <u>GI-37, "Intermittent Incident"</u>.

>> INSPECTION END

DRIVER SIDE : Component Inspection

1.CHECK SLIDING LIMIT SWITCH

1. Turn ignition switch OFF.

2. Disconnect sliding limit switch connector.

3. Check continuity between sliding limit switch terminals.

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace sliding limit switch. Refer to <u>SE-234, "Exploded View"</u>.

PASSENGER SIDE

PASSENGER SIDE : Description

• Sliding limit switch is installed on seat cushion frame.

Sliding limit switch detects condition of seat sliding.

PASSENGER SIDE : Component Function Check

1.CHECK FUNCTION

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

YES >> Sliding limit switch function is OK.

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

INEOID:000000005629840

INFOID:000000005629841

INFOID:000000005629842

< DTC/CIRCUIT DIAGNOSIS > **PASSENGER SIDE : Diagnosis Procedure** INFOID:000000005629843 А 1.CHECK SLIDING LIMIT SWITCH SIGNAL 1. Turn ignition switch OFF. В 2. Check voltage between passenger seat control unit harness connector and ground. (+)Voltage (V) Passenger seat control unit (-) Condition (Approx.) Connector Terminal Sliding position is front edge and not in 5 D the sleep mode B552 4 Ground Other than above 0 Is the inspection result normal? YES >> Sliding switch circuit is OK. NO >> GO TO 2. 2.CHECK SLIDING LIMIT SWITCH CIRCUIT F 1. Disconnect passenger seat control unit connector and sliding limit switch connector. 2. Check continuity between passenger seat control unit harness connector and sliding limit switch harness connector. Passenger seat control unit Sliding limit switch Continuity Н Connector Terminal Connector Terminal B552 4 B558 4 Existed Check continuity between passenger seat control unit harness connector and ground. 3. Passenger seat control unit Continuity Connector Terminal Ground SE B552 4 Not existed Is the inspection result normal? Κ YES >> GO TO 3. NO >> Repair or replace harness. ${f 3.}$ CHECK SLIDING LIMIT SWITCH GROUND CIRCUIT Check continuity between sliding limit switch harness connector and ground. Sliding limit switch Continuity Μ Connector Terminal Ground B558 32 Existed Is the inspection result normal? Ν YES >> GO TO 4. NO >> Repair or replace harness. 4.CHECK SLIDING LIMIT SWITCH Check sliding limit switch. Refer to SE-80, "PASSENGER SIDE : Component Inspection". Is the inspection result normal? YES >> GO TO 5. NO >> Replace sliding limit switch. Refer to SE-234, "Exploded View". ${f 5.}$ CHECK PASSENGER SEAT CONTROL UNIT OUTPUT SIGNAL

1. Connect passenger seat control unit connector.

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

< DTC/CIRCUIT DIAGNOSIS >

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

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace passenger seat control unit. Refer to <u>SE-260, "Removal and Installation"</u>.

6.CHECK INTERMITTENT INCIDENT

Check intermittent incident. Refer to <u>GI-37, "Intermittent Incident"</u>.

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:000000005629844

1. CHECK SLIDING LIMIT SWITCH

1. Turn ignition switch OFF.

2. Disconnect sliding limit switch connector.

3. Check continuity between sliding limit switch terminals.

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace sliding limit switch. Refer to <u>SE-234, "Exploded View"</u>.

	NOSIS >			
POWER WALK-I				
DRIVER SIDE : De	scription			INFOID:00000005629845
Power walk-in switch is The operation signal is			n power walk-in switcl	h is operated.
DRIVER SIDE : Co	•			INFOID:00000005629846
. Turn ignition switch	ON.			
 Select "WALK-IN S\ Check the power was 	N" in the "Data Mon			
Test item		Co	ndition	Status
			Pressed	ON
WALK-IN SW	Power v	walk-in switch	Released	OFF
	- in switch function is -81, "DRIVER SIDE		cedure".	
		huro.		INFOID:00000005629847
RIVER SIDE : Dia	agnosis Proced	JUIE		
	-			
DRIVER SIDE : Dia	LK-IN SWITCH SIG			
CHECK POWER WA	LK-IN SWITCH SIG OFF. /alk-in switch conne	GNAL	nnector and ground.	
CHECK POWER WA	LK-IN SWITCH SIG OFF. /alk-in switch conne	GNAL	nnector and ground.	
CHECK POWER WA . Turn ignition switch . Disconnect power w . Check voltage betw	LK-IN SWITCH SIG OFF. /alk-in switch conne een power walk-in s	GNAL	nnector and ground.	Voltage (V) (Approx.)
CHECK POWER WA Turn ignition switch Disconnect power w Check voltage betw	LK-IN SWITCH SIG OFF. valk-in switch conne een power walk-in s	GNAL ector. switch harness co		Voltage (V) (Approx.)
CHECK POWER WA	LK-IN SWITCH SIG OFF. valk-in switch conne een power walk-in s (+) er walk-in switch Termir 30	GNAL ector. switch harness co		
CHECK POWER WA Turn ignition switch Disconnect power w Check voltage betw Connector B513 Sthe inspection result n YES >> GO TO 3. NO >> GO TO 2. CHECK POWER WA Disconnect driver se	LK-IN SWITCH SIG OFF. /alk-in switch conne een power walk-in s (+) er walk-in switch (+) er walk-in switch (+) (+) (+) (-) (-) (-) (-) (-) (-) (-) (-) (-) (-	SNAL ector. switch harness co	(–) Ground	(Approx.)
CHECK POWER WA Turn ignition switch Disconnect power w Check voltage betw Connector B513 Connector Sthe inspection result n YES >> GO TO 3. NO >> GO TO 2. CHECK POWER WA Disconnect driver se Check continuity be connector.	LK-IN SWITCH SIG OFF. valk-in switch conne een power walk-in s (+) er walk-in switch (+) er walk-in switch (+)	SNAL sector. switch harness co hal RCUIT hector. control unit harne	(-) Ground	(Approx.) Battery voltage
CHECK POWER WA Turn ignition switch Disconnect power w Check voltage betw Connector B513 the inspection result n YES >> GO TO 3. NO >> GO TO 2. CHECK POWER WA Disconnect driver se Check continuity be connector. Driver seat of	LK-IN SWITCH SIG OFF. valk-in switch conne een power walk-in s (+) er walk-in switch (+) er walk-in switch (-) er walk-in switch (-) er walk-in switch (-) er walk-in switch (-) er walk-in switch (-)	SNAL ector. switch harness co hal RCUIT hector. control unit harne	(-) Ground	(Approx.) Battery voltage
CHECK POWER WA Turn ignition switch Disconnect power w Check voltage betw Connector B513 the inspection result n YES >> GO TO 3. NO >> GO TO 3. NO >> GO TO 2. CHECK POWER WA Disconnect driver set Check continuity be connector. Driver seat of Connector	LK-IN SWITCH SIG OFF. valk-in switch conne een power walk-in s (+) er walk-in switch (+) er walk-in switch (+) er walk-in switch Termir 30 ormal?	SNAL sector. switch harness co hal RCUIT hector. control unit harne Power Connector	(-) Ground	(Approx.) Battery voltage wer walk-in switch harness
CHECK POWER WA Turn ignition switch Disconnect power w Check voltage betw Connector B513 The inspection result n YES >> GO TO 3. NO >> GO TO 3. NO >> GO TO 2. CHECK POWER WA Disconnect driver se Check continuity be connector. Driver seat of B503	LK-IN SWITCH SIG OFF. valk-in switch conne een power walk-in s (+) er walk-in switch (+) er walk-in switch Termira 30 wormal?	SNAL ector. switch harness co hal RCUIT hector. control unit harne Power Connector B513	(-) Ground ess connector and por walk-in switch Terminal 30	(Approx.) Battery voltage wer walk-in switch harness Continuity Existed
CHECK POWER WA Turn ignition switch Disconnect power w Check voltage betw Connector B513 Check continuity be connect driver set Check continuity be connector. Driver seat c Connector B503 Check continuity be connector B503 Che	LK-IN SWITCH SIG OFF. valk-in switch conne een power walk-in s (+) er walk-in switch (+) er walk-in switch (+) er walk-in switch Termin 30 bormal? LK-IN SWITCH CIR eat control unit conne tween driver seat control unit ago tween driver seat control unit	SNAL ector. switch harness co hal RCUIT hector. control unit harne Power Connector B513	(-) Ground	(Approx.) Battery voltage wer walk-in switch harness Continuity Existed
CHECK POWER WA Turn ignition switch Disconnect power w Check voltage betw Connector B513 the inspection result n YES >> GO TO 3. NO >> GO TO 2. CHECK POWER WA Disconnect driver se Check continuity be connector. Driver seat of Connector B503 Check continuity be Drive	LK-IN SWITCH SIG OFF. valk-in switch conne een power walk-in s (+) er walk-in switch (+) er walk-in switch Termira 30 cormal? LK-IN SWITCH CIF eat control unit conne stween driver seat control unit 30 tween driver seat control unit	SNAL actor. switch harness co hal RCUIT Actor. control unit harne Power Connector B513 control unit harness	(-) Ground ess connector and por walk-in switch Terminal 30 s connector and groun	(Approx.) Battery voltage wer walk-in switch harness Continuity Existed
CHECK POWER WA Turn ignition switch Disconnect power w Check voltage betw Connector B513 Check continuity be connect driver set Check continuity be connector. Driver seat c Connector B503 Check continuity be connector.	LK-IN SWITCH SIG OFF. valk-in switch conne een power walk-in s (+) er walk-in switch (+) er walk-in switch (+) er walk-in switch Termin 30 bormal? LK-IN SWITCH CIR eat control unit conne tween driver seat control unit control unit Terminal 30 tween driver seat control control unit	SNAL actor. switch harness co hal RCUIT Actor. control unit harne Power Connector B513 control unit harness	(-) Ground ess connector and por walk-in switch Terminal 30	(Approx.) Battery voltage wer walk-in switch harness Continuity Existed nd.

< DTC/CIRCUIT DIAGNOSIS >

3.CHECK POWER WALK-IN SWITCH GROUND CIRCUIT

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

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

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK POWER WALK-IN SWITCH

Check power walk-in switch.

Refer to <u>SE-82, "DRIVER SIDE : Component Inspection"</u>.

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace power walk-in switch. Refer to <u>SE-234, "Exploded View"</u>.

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident. Refer to <u>GI-37, "Intermittent Incident"</u>.

>> INSPECTION END

DRIVER SIDE : Component Inspection

1.CHECK POWER WALK-IN SWITCH

1. Turn ignition switch OFF.

2. Disconnect power walk-in switch connector.

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

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power walk-in switch. Refer to <u>SE-234, "Exploded View"</u>.

PASSENGER SIDE

PASSENGER SIDE : Description

• Power walk-in switch is installed on seatback.

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

PASSENGER SIDE : Component Function Check

1.CHECK FUNCTION

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

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

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

INFOID:000000005629849

INFOID:000000005629850

INFOID:000000005629848

DTC/CIRCUIT DIA	DE : Diagnosis I	Procedur	re		INFOID:000000005
	VALK-IN SWITCH SI				
. Turn ignition switc . Check voltage be		at control u	nit harness connecto	r and gro	bund.
(+)					
Passenger seat	control unit	(—)	Condit	on	Voltage (V) (Approx.)
Connector	Terminal				
B552	30	Ground	Power walk-in switch	Presseo	
O >> GO TO 2. CHECK POWER V Disconnect passe	Ik-in switch circuit is VALK-IN SWITCH CI enger seat control uni	RCUIT t connector	r and power walk-in s		
ness connector.		seat contro	DI UNIT NARNESS CONNE	ector and	I power walk-in switch I
Connector	seat control unit	Con	nector Term	inal	- Continuity
B552	30		557 3		Existed
Connector	nger seat control unit Termir	al	Ground		Continuity
•		ROUND CI	RCUIT		Not existed
heck continuity betw	een power walk-in sv	vitch harne	ess connector and gro	ound.	
	ower walk-in switch				Continuity
Connector	Term		Ground		-
B557 the inspection resul (ES >> GO TO 4.					Existed
-	replace harness.				
CHECK POWER V					
heck power walk-in s efer to SE-84, "PAS	switch. SENGER SIDE : Con	nponent Ins	spection".		
the inspection resul					
	oower walk-in switch.		E-234, "Exploded Vie	<u>ew"</u> .	
	SER SEAT CONTRO		TPUT		
Connect passeng	er seat control unit co	onnector.			

1. Connect passenger seat control unit connector.

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

< DTC/CIRCUIT DIAGNOSIS >

(Passenger se	(+) Passenger seat control unit		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-260, "Removal and Installation"</u>.

6.CHECK INTERMITTENT INCIDENT

Check intermittent incident. Refer to <u>GI-37, "Intermittent Incident"</u>.

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:000000005629852

1.CHECK POWER WALK-IN SWITCH

1. Turn ignition switch OFF.

2. Disconnect power walk-in switch connector.

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

Power wa	Power walk-in switch		Condition	
Terminal		Condition		Continuity
30	32	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-234, "Exploded View"</u>.

DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >	
DOOR SWITCH	А
Description	A
Detects passenger side doors open or closed condition.	В
Component Function Check	
1.CHECK FUNCTION	С
Check that passenger side power walk-in function operates. Is the inspection result normal? YES >> Door switch function is OK. NO >> Refer to SE-85, "Diagnosis Procedure".	D
Diagnosis Procedure	Е
1.CHECK PASSENGER SIDE DOOR SWITCH	
Check passenger side door switch. Refer to <u>SE-85, "Component Function Check"</u> .	F
<u>Is the inspection result normal?</u> YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts.	G
2.CHECK PASSENGER SIDE DOOR SWITCH INPUT SIGNAL	Н

1. Turn ignition switch OFF.

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

(+	·)				e
Passenger sea	at control unit	(—)	Condition		Signal (Reference value)
Connector	Terminal				(
B552	8	Ground	Passenger side door switch	Pressed	(V) 15 0 • • 10ms PKIB4960J
				Released	0 V

Is the inspection result normal?

YES >> Passenger side door switch circuit is OK.

NO >> GO TO 3.

3.CHECK PASSENGER SIDE DOOR SWITCH CIRCUIT

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

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

Passenger side door switch		Passenger se	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 sid	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 <u>GI-37, "Intermittent Incident"</u>.

>> INSPECTION END

< DTC/CIRCUIT DIAGNOSIS >

SLIDING SENSOR А DRIVER SIDE DRIVER SIDE : Description INFOID-00000005629856 В • The sliding sensor is installed on the seat slide cushion frame. The pulse signal is transmitted to the driver seat control unit when sliding is operated. • The driver seat control unit counts the pulse and calculates the sliding amount of the seat. DRIVER SIDE : Component Function Check INFOID:000000005629857 **1.**CHECK FUNCTION D 1. Turn ignition switch ON. Select "SLIDE PULSE" in the "Data Monitor" mode using CONSULT-III. 2. 3. Check sliding sensor signal under the following conditions. Test item Condition Status F Operate (forward) Change (increase)*1 SLIDE PULSE Seat sliding Operate (backward) Change (decrease)*1 Release No change^{*1} ^{*1}: The value at the seat position attained when the battery is connected is considered to be 32768. Is the indication normal? Н YES >> Sliding sensor function is OK. >> Refer to SE-87, "DRIVER SIDE : Diagnosis Procedure". NO DRIVER SIDE : Diagnosis Procedure INFOID:000000005629858 1.CHECK SLIDING SENSOR SIGNAL SE 1. Turn ignition switch OFF. Check signal between sliding sensor harness connector and ground with oscilloscope. 2. (+) Κ Signal Sliding sensor (-) Condition (Reference value) Connector Terminal 10mSec/div M Operate B526 24 Ground Seat sliding Ν 2V/div JMJIA0119ZZ Other than 0 V or 5 V above Is the inspection result normal? YES >> GO TO 2. NO >> GO TO 3. 2.check sliding sensor circuit 1. Disconnect driver seat control unit connector and sliding sensor connector.

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

< DTC/CIRCUIT DIAGNOSIS >

Driver seat	control unit	Sliding	Continuity		
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 <u>SE-259</u>, "Removal and Installation".

NO >> Repair or replace harness.

3.CHECK SLIDING SENSOR POWER SUPPLY

Check voltage between sliding sensor harness connector and ground.

	(+)		Voltage (V)
	g sensor	()	(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	control unit	Sliding	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-259</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	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 cont	rol unit			
Connec	ctor	Terminal		Ground	Continuity
B503	3	31			No existed
ne inspection i	result normal?				
S >> GO T					
•	ir or replace ha NG SENSOR G				
	er seat control u		rol unit harness o	connector and o	iround
	any between a			bonneotor and g	
	Driver seat cont	rol unit			Continuity
Connec	ctor	Terminal		Ground	
B503	3	31			Existed
ne inspection i	<u>esult normal?</u>				
			E-234, "Explode		2 H 2 H
) >> Repla		control unit. R	efer to <u>SE-259, '</u>	Removal and Ir	<u>istallation"</u> .
GOLINGLI					
SSENGER	SIDE : Des	cription			INFOID:00000000562
ne slidina sena	sor is installed a	n the seat sliv	de cushion frame	2	
			ger seat control		g is operated.
ne passenger	seat control uni	t counts the p	ulse and calcula	tes the sliding a	mount of the seat.
SSENGER	SIDE : Con	nponent Fu	Inction Chec	<	INFOID:000000005625
		nponent Fu	Inction Chec	K	INFOID:000000005623
SSENGER		nponent Fu	Inction Chec	K	INFOID:000000005623
CHECK FUNC	TION not power wall	•			INFOID:00000000562
CHECK FUNC eck whether or the indication n	TION not power wall <u>ormal?</u>	k-in function a			
CHECK FUNC eck whether or ne indication n S >> Slidir	TION not power wall ormal? og sensor functi	k-in function a	ctivates normally	v when power w	
CHECK FUNC eck whether or he indication n S >> Slidir D >> Refer	TION not power wall <u>ormal?</u> og sensor functi to <u>SE-89, "PAS</u>	k-in function a on is OK. SSENGER SII	ctivates normally	v when power w	
CHECK FUNC eck whether or he indication n S >> Slidir D >> Refer	TION not power wall ormal? og sensor functi	k-in function a on is OK. SSENGER SII	ctivates normally	v when power w	alk-in switch is pressed.
CHECK FUNC eck whether or the indication n S >> Slidir SSENGER	TION not power wall <u>ormal?</u> og sensor functi to <u>SE-89, "PAS</u>	<pre>c-in function a on is OK. SSENGER SII gnosis Pro</pre>	ctivates normally	v when power w	alk-in switch is pressed.
CHECK FUNC eck whether or the indication m SS >> Slidir SSENGER CHECK SLIDI	TION not power wall ormal? g sensor functi to <u>SE-89, "PAS</u> SIDE : Diag NG SENSOR S	<pre>c-in function a on is OK. SSENGER SII gnosis Pro</pre>	ctivates normally	v when power w	alk-in switch is pressed.
CHECK FUNC eck whether or the indication n SS >> Slidir SSENGER SSENGER CHECK SLIDI Turn ignition	TION not power wall ormal? g sensor functi to <u>SE-89, "PAS</u> SIDE : Diag NG SENSOR S	<pre>k-in function a on is OK. SSENGER SII gnosis Pro IGNAL</pre>	ctivates normally DE : Diagnosis F cedure	v when power w Procedure".	alk-in switch is pressed.
CHECK FUNC eck whether or <u>ne indication n</u> S >> Slidir S >> Refer SSENGER CHECK SLIDI Turn ignition Check signal	TION not power wall ormal? g sensor functi to <u>SE-89, "PAS</u> SIDE : Diag NG SENSOR S switch OFF. between passe	<pre>k-in function a on is OK. SSENGER SII gnosis Pro IGNAL</pre>	ctivates normally DE : Diagnosis F cedure	v when power w Procedure".	alk-in switch is pressed.
CHECK FUNC eck whether or <u>he indication n</u> S >> Slidir S >> Refer SSENGER CHECK SLIDI Turn ignition Check signal	TION not power wall ormal? g sensor functi to <u>SE-89, "PAS</u> SIDE : Diag NG SENSOR S switch OFF. between passe	k-in function a on is OK. SSENGER SII GNAL IGNAL	ctivates normally DE : Diagnosis f cedure	v when power w Procedure". connector and	alk-in switch is pressed.
CHECK FUNC eck whether or <u>he indication n</u> S >> Slidir SSENGER CHECK SLIDI Turn ignition Check signal	TION not power wall ormal? g sensor functi to <u>SE-89, "PAS</u> SIDE : Diag NG SENSOR S switch OFF. between passe +)	<pre>k-in function a on is OK. SSENGER SII gnosis Pro IGNAL</pre>	ctivates normally DE : Diagnosis f cedure	v when power w Procedure".	alk-in switch is pressed.
CHECK FUNC eck whether or <u>he indication n</u> S >> Slidir S >> Refer SSENGER CHECK SLIDI Turn ignition Check signal	TION not power wall ormal? g sensor functi to <u>SE-89, "PAS</u> SIDE : Diag NG SENSOR S switch OFF. between passe	k-in function a on is OK. SSENGER SII GNAL IGNAL	ctivates normally DE : Diagnosis f cedure	v when power w Procedure". connector and	alk-in switch is pressed.
CHECK FUNC eck whether or <u>he indication n</u> S >> Slidir SSENGER CHECK SLIDI Turn ignition Check signal	TION not power wall ormal? g sensor functi to <u>SE-89, "PAS</u> SIDE : Diag NG SENSOR S switch OFF. between passe +)	k-in function a on is OK. SSENGER SII GNAL IGNAL	ctivates normally DE : Diagnosis f cedure	v when power w Procedure". connector and	alk-in switch is pressed.
CHECK FUNC eck whether or <u>he indication n</u> S >> Slidir SSENGER CHECK SLIDI Turn ignition Check signal	TION not power wall ormal? g sensor functi to <u>SE-89, "PAS</u> SIDE : Diag NG SENSOR S switch OFF. between passe +)	k-in function a on is OK. SSENGER SII GNAL IGNAL	ctivates normally DE : Diagnosis f cedure	v when power w Procedure". connector and	alk-in switch is pressed.
CHECK FUNC eck whether or <u>he indication n</u> S >> Slidir SSENGER CHECK SLIDI Turn ignition Check signal	TION not power wall ormal? g sensor functi to <u>SE-89, "PAS</u> SIDE : Diag NG SENSOR S switch OFF. between passe +)	k-in function a on is OK. SSENGER SII GNAL IGNAL	ctivates normally DE : Diagnosis f cedure	v when power w Procedure". connector and	alk-in switch is pressed.
CHECK FUNC eck whether or <u>he indication n</u> S >> Slidir SSENGER CHECK SLIDI Turn ignition Check signal	TION not power wall ormal? g sensor functi to <u>SE-89, "PAS</u> SIDE : Diag NG SENSOR S switch OFF. between passe +)	k-in function a on is OK. SSENGER SII GNAL IGNAL	ctivates normally DE : Diagnosis f cedure	v when power w Procedure". connector and	alk-in switch is pressed.
CHECK FUNC eck whether or <u>he indication n</u> S >> Slidir C >> Refer SSENGER CHECK SLIDI Turn ignition Check signal	TION not power wall ormal? g sensor functi to <u>SE-89, "PAS</u> SIDE : Diag NG SENSOR S switch OFF. between passe +) eat control unit Terminal	k-in function a on is OK. SSENGER SII gnosis Pro IGNAL IGNAL (-)	ctivates normally DE : Diagnosis F cedure atrol unit harness Cor	v when power w Procedure". connector and	alk-in switch is pressed.
CHECK FUNC eck whether or <u>he indication n</u> S >> Slidir C >> Refer SSENGER CHECK SLIDI Turn ignition Check signal	TION not power wall ormal? g sensor functi to <u>SE-89, "PAS</u> SIDE : Diag NG SENSOR S switch OFF. between passe +) eat control unit Terminal	k-in function a on is OK. SSENGER SII gnosis Pro IGNAL IGNAL (-)	ctivates normally DE : Diagnosis F cedure atrol unit harness Cor	v when power w Procedure". connector and	alk-in switch is pressed.
CHECK FUNC eck whether or <u>he indication n</u> S >> Slidir C >> Refer SSENGER CHECK SLIDI Turn ignition Check signal	TION not power wall ormal? g sensor functi to <u>SE-89, "PAS</u> SIDE : Diag NG SENSOR S switch OFF. between passe +) eat control unit Terminal	k-in function a on is OK. SSENGER SII gnosis Pro IGNAL IGNAL (-)	ctivates normally DE : Diagnosis F cedure atrol unit harness Cor	v when power w Procedure". connector and	alk-in switch is pressed.

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

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

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK SLIDING SENSOR POWER SUPPLY

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

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

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

4. CHECK SLIDING SENSOR POWER SUPPLY CIRCUIT

1. Disconnect passenger seat control unit connector.

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

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

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

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

Is the inspection result normal?

YES >> Replace passenger seat control unit. Refer to <u>SE-260, "Removal and Installation"</u>.

- NO >> Repair or replace harness.
- **5.**CHECK SLIDING SENSOR GROUND CIRCUIT

1. Disconnect passenger seat control unit connector.

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

< DTC/CIRCUIT DIAGNOSIS >

Passenger seat c	ontrol unit	Sliding	g sensor	- Continuity
Connector	Terminal	Connector	Terminal	Continuity
B552	31	B568	31	Existed
Check continuity betwe	een passenger se	at control unit harnes	ss connector and gr	ound.
Passenger	seat control unit			Continuity
Connector			Ground	Continuity
B552	31			Not existed
the inspection result nor 'ES >> GO TO 6. IO >> Repair or repla .CHECK SLIDING SENS	ce harness.			
Connect passenger se Check continuity betwo			ss connector and gr	ound.
-	seat control unit			Continuity
Connector	Termina	al	Ground	
B552	31			Existed

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SLIDING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

SLIDING MOTOR DRIVER SIDE

DRIVER SIDE : Description

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

DRIVER SIDE : Component Function Check

1.CHECK FUNCTION

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

Tes	titem	Description	
	OFF		Stop
SEAT SLIDE	FR	Seat sliding	Forward
	RR		Backward

Is the operation of relevant parts normal?

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

DRIVER SIDE : Diagnosis Procedure

INFOID:000000005629864

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.

	+) 9 motor	(-)	Condition		Voltage (V) (Approx.)	
Connector	Terminal			(10)		
	35		Forward		Battery voltage	
B525	33	Ground	Slide switch	Other than above	0	
B323	42	Ground	Side 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	g motor	Driver seat control unit		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
B525	35	B504	35	Existed	
6020	42	D304	42	EXISTED	

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

INFOID:000000005629862

INFOID:000000005629863

SLIDING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

Driv	er seat control unit				0
Connector		Terminal		d	Continuity
B504		35	Grour		Not existed
B304		42			NOT EXISTED
O >> Repair or n SSENGER SID SSENGER SID he seat sliding moto he seat sliding moto he seat is slid forwa SSENGER SID CHECK SLIDING M eck sliding operation he inspection result ES >> Sliding mot	river seat contro replace harness DE : Descript or is installed to or is activated w ard/backward by DE : Compor IOTOR CIRCUI in with power sea normal? tor function is C	the seat cushic ith the passeng changing the r nent Functio T at switch.	on frame. ger seat control u rotation direction	of sliding motor.	". INFOID:0000000056
SSENGER SID CHECK SLIDING M Turn ignition switch	IOTOR POWER	R SUPPLY	re		INF01D:0000000056
SSENGER SID	IOTOR POWER n OFF. motor connecto ween sliding mo	R SUPPLY	nnector and grou	nd.	Voltage (V)
SSENGER SID CHECK SLIDING M Turn ignition switch Disconnect sliding Check voltage betw (+)	IOTOR POWER n OFF. motor connecto ween sliding mo	R SUPPLY or. otor harness co	nnector and grou		
CHECK SLIDING M Turn ignition switch Disconnect sliding Check voltage betw (+) Sliding mo	IOTOR POWER n OFF. motor connecto ween sliding mo	R SUPPLY or. otor harness co	nnector and grou	ondition Forward	Voltage (V) (Approx.) Battery voltage
CHECK SLIDING M Turn ignition switch Disconnect sliding Check voltage betw (+) Sliding mo	IOTOR POWER n OFF. motor connecto ween sliding mo	R SUPPLY or. otor harness co	nnector and grou	ondition Forward Other than above	Voltage (V) (Approx.) Battery voltage 0
SSENGER SID CHECK SLIDING M Turn ignition switch Disconnect sliding Check voltage betw (+) Sliding mo Connector	IOTOR POWER n OFF. motor connecto ween sliding mo	R SUPPLY or. otor harness co (-)	nnector and grou	ondition Forward	Voltage (V) (Approx.) Battery voltage
SSENGER SID CHECK SLIDING M Turn ignition switch Disconnect sliding Check voltage betw (+) Sliding mo Connector B567 he inspection result ES >> Replace sli O >> GO TO 2. CHECK SLIDING M Disconnect passen Check continuity b	IOTOR POWER motor connector ween sliding motor otor Terminal 35 42 <u>normal?</u> iding motor.	R SUPPLY or. otor harness co (-) Ground	nnector and grou	ondition Forward Other than above Backward Other than above	Voltage (V) (Approx.) Battery voltage 0 Battery voltage 0
SSENGER SID CHECK SLIDING M Turn ignition switch Disconnect sliding Check voltage betw (+) Sliding mo Connector B567 he inspection result ES >> Replace sli O >> GO TO 2. CHECK SLIDING M Disconnect passen	IOTOR POWER motor connector ween sliding motor otor Terminal 35 42 <u>normal?</u> iding motor.	R SUPPLY or. otor harness co (-) Ground	nnector and grou	ondition Forward Other than above Backward Other than above	Voltage (V) (Approx.) Battery voltage 0 Battery voltage 0
ASSENGER SID CHECK SLIDING M Turn ignition switch Disconnect sliding Check voltage betw (+) Sliding mo Connector B567 he inspection result ES >> Replace slid O >> GO TO 2. CHECK SLIDING M Disconnect passen Check continuity by nector.	IOTOR POWER motor connector ween sliding motor otor Terminal 35 42 <u>normal?</u> iding motor.	R SUPPLY or. otor harness co (-) Ground	nnector and grou	ondition Forward Other than above Backward Other than above	Voltage (V) (Approx.) Battery voltage 0 control unit harness control unit harnes contro
ASSENGER SID CHECK SLIDING M Turn ignition switch Disconnect sliding Check voltage betw (+) Sliding mo Connector B567 he inspection result ES >> Replace slid O >> GO TO 2. CHECK SLIDING M Disconnect passen Check continuity by nector.	IOTOR POWER n OFF. motor connector ween sliding motor terminal 35 42 normal? iding motor. IOTOR CIRCUI nger seat control etween sliding motor. IOTOR CIRCUI	R SUPPLY or. otor harness co (-) Ground T I unit connecto motor harness	nnector and grou	ondition Forward Other than above Backward Other than above Other than above	Voltage (V) (Approx.) Battery voltage 0 Battery voltage 0
SSENGER SID CHECK SLIDING M Turn ignition switch Disconnect sliding Check voltage betw (+) Sliding mo Connector B567 he inspection result ES >> Replace sli O >> GO TO 2. CHECK SLIDING M Disconnect passen Check continuity be nector.	IOTOR POWER motor connector ween sliding motor otor Terminal 35 42 normal? iding motor.	R SUPPLY or. otor harness co (-) Ground T I unit connecto motor harness	nnector and grou	ondition Forward Other than above Backward Other than above Other than above	Voltage (V) (Approx.) Battery voltage 0 Battery voltage 0 0

SLIDING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

at control unit		Continuity
Terminal	Ground	Continuity
35 42	Giouna	Not existed
3	Terminal 35	Terminal Ground

Is the inspection result normal?

YES >> Replace passenger seat control unit. Refer to <u>SE-260, "Removal and Installation"</u>.

RECLINING MOTOR

< DTC/CIRCUIT DIAGNOSIS > RECLINING MOTOR DRIVER SIDE

	ECLINING M RIVER SIDE	010	ĸ								А
DF	RIVER SIDE :	Descr	iption							INFOID:000000005629868	
• T	The seat reclining r The seat reclining r The seatback is rec	notor is	activated	d with t	he driver s	eat control		rection of r	eclining	g motor.	B C
DF	RIVER SIDE :	Comp	onent	Funct	ion Che	eck				INFOID:000000005629869	0
1.	CHECK RECLINI	NG MO ⁻			١						D
<u>ls t</u> Y N	Check reclining operation with power seat switch. <u>Is the inspection result normal?</u> YES >> Reclining motor function is OK. NO >> Refer to <u>SE-95, "DRIVER SIDE : Diagnosis Procedure"</u> .										E
DF	RIVER SIDE :	Diagn	osis Pi	roced	ure					INFOID:000000005629870	F
1. 2. 3.	CHECK RECLINII Turn ignition swit Disconnect reclin Check voltage be	tch OFF	tor conne	ector.		onnector ar	nd grou	ınd.			G
-	(+))									11
_	Reclining				()		Con	dition		Voltage (V) (Approx.)	
_	Connector	Terr	ninal					Forward		Detten ushara	
		3	86					Forward Other than	above	Battery voltage	
	B524			G	Fround	Reclining s	witch	Backward		Battery voltage	SE
_		4	4					Other than	above	0	
Y N	the inspection result ES >> Replace O >> GO TO 2 CHECK RECLINII Disconnect drive Check continuity tor.	reclinin 2. NG MO ⁻ r seat c	g motor. TOR CIR ontrol uni	it conne		connector	and dr	iver seat co	ontrol u	init harness connec-	K L M
-	Recl	ining mot	or			Driver seat	control	unit		Continuity	
_	Connector		Terminal		Con	nector		Terminal			Ν
	B524		36 44		B	504		36 44		Existed	0
3.	Check continuity	betwee	en reclinin	ng moto	or harness	connector	and gr	ound.	1		0
-		Reclinir	ng motor							Continuity	Р
-	Connector			Termina	al	1	Ground			Continuity	
				36							

Is the inspection result normal?

B524

YES >> Replace driver seat control unit. Refer to <u>SE-259, "Removal and Installation"</u>.

36

44

NO >> Repair or replace harness.

Not existed

< DTC/CIRCUIT DIAGNOSIS >

PASSENGER SIDE

PASSENGER SIDE : Description

- 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

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:000000005629873

INEOID-000000005629871

INFOID:000000005629872

1.CHECK RECLINING MOTOR POWER SUPPLY

1. Turn ignition switch OFF.

- 2. Disconnect reclining motor connector.
- 3. Check voltage between reclining motor harness connector and ground.

(+ Reclinin	,	()	Condition		Voltage (V) (Approx.)	
Connector	Terminal				(/ ())	
	20			Forward		
BECC	36	Crowned	Declining quitch	Other than above	0	
B566	4.4	Ground	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.

Reclini	ng motor	Passenger seat control unit		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
B566	36	B553	36	Existed	
B300	44		44	LXISIEU	

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

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

Is the inspection result normal?

YES >> Replace passenger seat control unit. Refer to <u>SE-260, "Removal and Installation"</u>.

LIFTING MOTOR (FRONT)

< DTC/CIRCUIT DIAGNOSIS >
LIFTING MOTOR (FRONT)
DRIVER SIDE

DRIVER SIDE : Description

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

DRIVER SIDE : Component Function Check

INFOID:000000005629875

INFOID:000000005629876

INFOID:000000005629874

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

DRIVER SIDE : Diagnosis Procedure

1.CHECK LIFTING MOTOR (FRONT) POWER SUPPLY

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

	+) otor (front)	(-)	Condition		Voltage (V) (Approx.)	
Connector	Terminal				(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	37		Downward		Battery voltage	
B528	57	Ground	Lifting owitch (front)	Other than above	0	
D028	45	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 driver seat control unit connector.
- 2. Check continuity between lifting motor (front) harness connector and driver seat control unit harness connector.

Continuity	control unit	Driver seat	otor (front)	Lifting mo
Continuity	Terminal	Connector	Terminal	Connector
Existed	37	B504	37	B528
EXISTED	45	D004	45	D320

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

	Lifting me	otor (front)		Continuity	Р
_	Connector	Terminal	Ground	Continuity	
_	B528	37	Ground	Not existed	
	D020	45		NOL EXISTED	

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>SE-259. "Removal and Installation"</u>.

LIFTING MOTOR (FRONT)

< DTC/CIRCUIT DIAGNOSIS >

PASSENGER SIDE

PASSENGER SIDE : Description

- 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

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:000000005629879

INEOID-000000005629877

INFOID:000000005629878

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 - /
	07			Downward	Battery voltage
B500	37	Oracia		Other than above	0
B569	45	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 m	Lifting motor (front)		Passenger seat control unit	
Connector	Terminal	Connector	Terminal	Continuity
B569	37	B553	37	Existed
D208	45		45	

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

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

Is the inspection result normal?

YES >> Replace passenger seat control unit. Refer to <u>SE-260, "Removal and Installation"</u>.

LIFTING MOTOR (REAR)

DRIVER SIDE : Description • The lifting motor (rear) is installed to the seat slide cushion frame. The lifting motor (rear) is activated with the driver seat control unit. The seat lifter (rear) is moved upward/downward by changing the rotation direction of lifting motor (rear). DRIVER SIDE : Component Function Check

1.CHECK LIFTING MOTOR (REAR) FUNCTION

Check lifting operation with power seat switch.

Is the inspection result normal?

- YES >> Lifting motor (rear) function is OK.
- NO >> Refer to SE-99, "DRIVER SIDE : Diagnosis Procedure".
- DRIVER SIDE : Diagnosis Procedure

1.CHECK LIFTING MOTOR (REAR) POWER SUPPLY

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

(+) Lifting motor (rear)		(–) Condi		dition	Voltage (V) (Approx.)
Connector	Terminal				(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	38	Ground	Lifting switch (rear)	Upward	Battery voltage
BE20				Other than above	0
B530				Downward	Battery voltage
				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 driver seat control unit connector.
- Check continuity between lifting motor (rear) harness connector and driver seat control unit harness con-2. nector.

Continuity	control unit	Driver seat	otor (rear)	Lifting m
Continuity	Terminal	Connector	Terminal	Connector
Existed	38	B504	38	B530
Existed	39	D004	39	D000

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

-	Lifting m	otor (rear)		Continuity	Р
-	Connector	Terminal	Ground	Continuity	
-	B530	38	Ground	Not existed	
	D000	39		NOI EXISIED	

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to SE-259, "Removal and Installation".

NO >> Repair or replace harness. А

В

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INFOID:000000005629880

INFOID:000000005629881

INFOID:000000005629882

< DTC/CIRCUIT DIAGNOSIS >

PASSENGER SIDE

PASSENGER SIDE : Description

- 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

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

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000005629885

INEOID-000000005629883

INFOID:000000005629884

1.CHECK LIFTING MOTOR (REAR) POWER SUPPLY

1. Turn ignition switch OFF.

- 2. Disconnect lifting motor (rear) connector.
- 3. Check voltage between lifting motor (rear) harness connector and ground.

	(+) Lifting motor (rear)		Con	dition	Voltage (V) (Approx.)	
Connector	Terminal	*			(FT -)	
	38			Upward	Battery voltage	
B570	30	- Ground	Lifting switch (rear)	Other than above	0	
6570	39			Downward	Battery voltage	
				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 m	Lifting motor (rear)		Passenger seat control unit	
Connector	Terminal	Connector	Terminal	Continuity
B570	38	B553	38	Existed
5570	39		39	LAISIEU

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

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

Is the inspection result normal?

YES >> Replace passenger seat control unit. Refer to <u>SE-260, "Removal and Installation"</u>.

HEATED SEAT SWITCH

		HEATED S	EAT SWITCH		
< DTC/CIRCUIT DI					
HEATED SEA	ISWITCH				
DRIVER SIDE					
DRIVER SIDE :	Description				INFOID:000000005629886
Adjusts heated seat	temperature and	deactivates hea	ted seat.		
DRIVER SIDE :	Component	Function Ch	eck		INFOID:000000005629887
1.CHECK FUNCTI	ON				
Check that heated s		eset temperature	when operating h	eated seat switch to	the optimal posi-
ion.			inter operating i		
s the inspection res					
	seat switch funct SE-101, "DRIVE		osis Procedure".		
DRIVER SIDE :	Diagnosis Pi	rocedure			INFOID:000000005629888
1. CHECK HEATED	-				
1. Turn ignition sw			DIGINAL		
2. Disconnect hear	ted seat control u	init connector.			
 Turn ignition sw Check voltage b 		eat control unit h	arness connector	and ground.	
		· · · · · · · · · · · · · · · · · · ·			
(+					Voltage (V)
Heated seat	Terminal	()	Col	ndition	(Approx.)
Connector	renninai			OFF	0
				1 (Min. temperature)	12.24
				2	12.33
B518	67	Ground	Heated seat switch	3	12.49
			position	4	12.63
				5	12.76
				6 (Max. temperature)	12.90
s the inspection res	ult normal?				
YES >> Heated NO >> GO TO	seat switch circu	it is OK.			
2.CHECK HEATED		CIRCUIT			
I. Turn ignition sw					
2. Disconnect hear	ted seat switch c		arness connector	and heated seat co	ontrol unit harness
	ed seat switch		Hosted cost cost-	unit	
			Heated seat control		Continuity
		U Co	nnector	Terminal	5
Heate Connector A/T models: M14 ² M/T models: M179	Termina		nnector 3518	Terminal 67	Existed

HEATED SEAT SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Heated seat	switch		Continuity
Connector	Terminal	Ground	Continuity
A/T models: M141 M/T models: M175	2		Not existed
the inspection result normal?	•		

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK HEATED SEAT SWITCH

Check heated seat switch.

Refer to <u>SE-102</u>, "DRIVER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace heated seat switch. Refer to <u>SE-267</u>, "Removal and Installation".

4.CHECK INTERMITTENT INCIDENT

Check intermittent incident. Refer to GI-37 "Intermittent Inciden

Refer to GI-37, "Intermittent Incident".

>> INSPECTION END

DRIVER SIDE : Component Inspection

INFOID:000000005629889

1.CHECK FRONT HEATED SEAT SWITCH

1. Turn ignition switch OFF.

2. Disconnect heated seat switch connector.

3. Check resistance between heated seat switch terminals.

Heated	seat switch				Resistance
Connector	Terr	minal	Condi	(KΩ) (Approx.)	
				ON	0
	1		OFF	∞	
		-	Heated seat switch position	1 (Min. temperature)	2.400
A/T models: M141	5			2	1.800
M/T models: M175	5	2		3	1.200
		2		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-267, "Removal and Installation"</u>. PASSENGER SIDE

PASSENGER SIDE : Description

Adjusts heated seat temperature and deactivates heated seat.

PASSENGER SIDE : Component Function Check

1.CHECK FUNCTION

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

SE-102

2010 G37 Convertible

INFOID:000000005629890

INFOID:000000005629891

HEATED SEAT SWITCH

	TC/CIRCUIT DIA						
		eat swit	ch function is C		agnosis Procedure	<u>)-</u> .	۵
PA	SSENGER SI				-	_	INFOID:000000005629892
	CHECK HEATED		•				Е
1. 2. 3. 4.	Turn ignition swit Disconnect heate Turn ignition swit	ch OFF. ed seat o ch ON.	control unit con	nector.	arness connector a	and ground.	C
-	(+))					
_	Heated seat	control un	hit	()	Cor	ndition	Voltage (V) (Approx.)
_	Connector	Tern	ninal				
						OFF	0
						1 (Min. temperature)	12.24 F
					Heated seat switch position	2	12.33
	B575	6	67 (Ground		3	12.49
						4	12.63
						5	12.76
_	he inspection resu					6 (Max. temperature)	12.90
2. 3.	Disconnect heate Check continuity connector.				rness connector a	nd heated seat co	ntrol unit harness
-	Heated	d seat swi	tch		Heated seat control	unit	
-	Connector		Terminal	Con	nector	Terminal	Continuity
	A/T models: M142 M/T models: M176		2	B	575	67	Existed
4.	Check continuity	betwee	n heated seat s	witch harn	less connector and	d ground.	N
_		Heated se	eat switch		-	C	ontinuity
_	Connector A/T models: M1	42	Termin	al	Ground		N
_	M/T models: M1		2			Nc	t existed
YI N	<u>he inspection resu</u> ES >> GO TO 3 O >> Repair of CHECK HEATED	replace	e harness.				C
Ch	eck heated seat sv	witch.					P
	fer to <u>SE-104, "PA</u>			nponent In	spection".		
	<u>he inspection resu</u> ES >> GO TO 4		<u>al (</u>				
N			seat switch. Re	fer to <u>SE-2</u>	267, "Removal and	Installation".	
4.	CHECK INTERMI	TTENT	INCIDENT				

< DTC/CIRCUIT DIAGNOSIS >

Check intermittent incident. Refer to <u>GI-37, "Intermittent Incident"</u>.

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:000000005629893

1. CHECK FRONT HEATED SEAT SWITCH

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

Heated seat switch		Condition		Resistance	
Connector	Terr	ninal	Con	dition	(KΩ) (Approx.)
		4		ON	0
		I		OFF	∞
				1 (Min. temperature)	2.400
A/T models: M142 5 M/T models: M176	5	2		2	1.800
			Heated seat switch position	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-267, "Removal and Installation"</u>.

HEATED SEAT RELAY

< DTC/CIRCUIT DIAGNO					
HEATED SEAT RE	LAY				
Description					INFOID:00000005629894
Power is supplied to the he	ated seat using ig	gnition pow	er supply	control.	
Component Function	Check				INFOID:000000005629895
1.CHECK FUNCTION					
	rms to preset ten	nperature v	vhen oper	ating heated sea	t switch to the optimal posi-
tion. <u>Is the inspection result norm</u> YES >> Heated seat re NO >> Refer to <u>SE-10</u>	ay function is Ok				
Diagnosis Procedure					INFOID:000000005629896
1.CHECK HEATED SEAT	RELAY POWER	SUPPLY			
 Turn ignition switch OF Disconnect heated sea Turn ignition switch ON Check voltage between 	t relay.	y terminal	connector	and ground.	
	(+)				
	seat relay	-		()	Voltage (V) (Approx.)
E19	Termina 2	al		Ground	Potton voltago
Is the inspection result norn				Gibulia	Battery voltage
YES >> GO TO 3. NO >> GO TO 2.					5
2.CHECK HEATED SEAT	RELAY POWER	SUPPLY C	CIRCUIT		
 Turn ignition switch OF Disconnect fuse block (Check continuity between 	J/B) connector.	elay termin	al connec	tor and fuse bloc	< (J/B) harness connector.
Heated seat r	elay		Fuse bl	ock (J/B)	Continuity
Connector	Terminal		nector	Terminal	
E19	2	M Nov tormin		2A	Existed
4. Check continuity betwe	en nealed seal n	elay termin	al connec	tor and ground.	
	seat relay				Continuity
Connector	Termina	al		Ground	-
E19 Is the inspection result norm	2				Not existed
YES >> GO TO 5. NO >> Repair or repla 3.CHECK HEATED SEAT	ce harness. RELAY GROUN	D CIRCUIT	-		

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

HEATED SEAT RELAY

	Heated se	eat relay			Continuity		
Conne	ector	Terminal	Grou	nd	Continuity		
E1	3	1			Existed		
the inspection	result norma	<u> ?</u>					
YES >> GO	-						
	air or replace						
CHECK HEA		ELAY					
Check heated se Refer to <u>SE-106</u>		t Increation"					
s the inspection							
•		/ circuit is OK.					
NO >> Rep	ace heated s	eat relay.					
D .CHECK INTE	RMITTENT I	NCIDENT					
Check intermitte							
Refer to <u>GI-37, "</u>	ntermittent Ir	ncident"					
	PECTION EN	חו					
-							
Component I	Ispection				INFOID:0000000056298		
	FED SEAT R	ELAY					
. Turn ignition	switch OFF.						
	heated seat r		•				
	iuity betweet	heated seat relay terminal	5.				
	v			3			
heated seat rela	<u> </u>	Condition	Continuity	Ĭ,			
heated seat rela Terminal				5			
	12 V dire	ct current supply between termi-	Existed				
	12 V direc nals 1 and No currer	d 2.	Existed		3		

NO >> Replace heated seat relay.

SEF497Y

HEAT SENSOR

		•	HEAT S	ENSOR		
< DTC/CIRCUI		5>				
HEAT SEN DRIVER SI						
	E : Descri	ption				INFOID:000000005629898
Detects seat cu	shion heater t	emperature ar	nd outputs t	o heated sea	at control unit.	
DRIVER SID		•	•			
						INFOID:000000005629899
1.CHECK FUN	ICTION					
Check that heat tion.	ted seat warn	ns to preset te	mperature v	when operat	ing heated seat s	witch to the optimal posi-
lion. Is the inspectior	n result norma	l?				
YES >> Hea	at sensor fund	tion is OK.				
		"DRIVER SID	-	sis Procedur	<u>e"</u>	
	DE : Diagno	osis Proced	ure			INFOID:000000005629900
	T SENSOR I	NPUT SIGNAL	_			
	n switch ON.					
		neated seat co	ntrol unit ha	arness conne	ector and ground.	
(+)					
	t control unit	(-)	U.ODOIDOD			Voltage (V)
Connector	Terminal					(Approx.)
					OFF	0
					1 (Min. temperature) 10.87 – 11.02
			2	2	10.93 – 11.07	
B518	69	Ground I	Heated seat	switch position		11.04 – 11.17
					4	11.13 - 11.26
					5	11.22 - 11.34
NOTE:					6 (Max. temperature	e) 11.31 – 11.43
Voltage is rest the inspection	n <u>result norma</u> it sensor is Ol TO 2.	<u>⊪?</u> ≺.	own as per t	the following	list depending or	n heater unit temperature.
	n switch OFF.					
2. Disconnect	heated seat of				n heater connector onnector and sea	or. t cushion heater harness
He	eated seat contro	l unit		Seat cushic	on heater	
Connect	or	Terminal	Conr	nector	Terminal	
B518		69	B	517	69	Existed
. Check cont	inuity betwee	n heated seat	control unit	harness cor	nnector and groun	d.
	Heated seat				round	Continuity
Conr		Termir	ial	G		

B518 Is the inspection result normal? 69

Not existed

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.

	+) nion heater	(-)	Voltage (V) (Approx.)	
Connector	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.
- 3. Check continuity between heated seat control unit harness connector and seat cushion heater harness connector.

Heated sea	t control unit	Seat cush	Continuity	
Connector	Terminal	Connector		
B518	66	B517	66	Existed

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

_	Heated sea	t control unit		Continuity	
_	Connector	Connector Terminal		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-245. "Removal and Installation"</u>.

6.CHECK INTERMITTENT INCIDENT

Check intermittent incident. Refer to <u>GI-37, "Intermittent Incident"</u>

>> INSPECTION END

DRIVER SIDE : Component Inspection

1.CHECK HEAT SENSOR

1. Turn ignition switch OFF.

- 2. Disconnect seat cushion heater connector.
- 3. Check resistance between seat cushion heater terminals.

INFOID:000000005629901

HEAT SENSOR

< DTC/CIRCUIT DIAGNOSIS >

Seat cushion heater			Condition	Resistance (KΩ)	
Т	erminal			(Approx.)	
66	69	When h	eat sensor temperature is 25°C (77°F)	9.9 – 10.1	
NOTE:					
	-	-	o temperature.		
Is the inspection					
	PECTION EN		Refer to <u>SE-234, "Exploded View"</u> .		
PASSENGE		non neater.	Refer to <u>OL-204, Exploded New</u> .		
	-				
PASSENGEI	R SIDE : De	escription		INFOID:00000000562990	
Detects seat cus	shion heater te	emperature a	and outputs to heated seat control unit.		
		•			
FASSENGEI	V SIDE . C	Juponem	t Function Check	INFOID:00000000562990	
1.CHECK FUN	CTION				
Check that heat	ed seat warm	s to preset to	emperature when operating heated seat sw	itch to the optimal posi-	
tion.				····· ·· ··· ··· ··· ··· ··· ···	
Is the inspection	result normal	<u>?</u>			
	t sensor funct	ion is OK.			
NO >> Refe	orto <u>CL 100</u> '	DAGGENIOF			
			ER SIDE : Diagnosis Procedure"		
PASSENGEI				INFOID:00000000562990	
PASSENGEI	R SIDE : Di	iagnosis F	Procedure	INFOID:00000000562990	
PASSENGEI 1.check hea	R SIDE : Di t sensor in	iagnosis F	Procedure	INFOID:00000000562990	
PASSENGEI 1.CHECK HEA 1. Turn ignitior	R SIDE : Di T SENSOR IN n switch ON.	iagnosis F IPUT SIGNA	Procedure	INFOID:00000000562990	
PASSENGEI 1.CHECK HEA 1. Turn ignitior	R SIDE : Di T SENSOR IN n switch ON.	iagnosis F IPUT SIGNA	Procedure	INFOID:00000000562990	
PASSENGEI 1.CHECK HEA 1. Turn ignitior 2. Check volta	R SIDE : Di T SENSOR IN n switch ON.	iagnosis F IPUT SIGNA	Procedure	INFOID:00000000562990	
PASSENGEI 1. CHECK HEA 1. Turn ignition 2. Check volta	R SIDE : Di T SENSOR IN switch ON. ge between he	iagnosis F IPUT SIGNA	Procedure	Voltage (V)	
PASSENGEI 1. CHECK HEA 1. Turn ignition 2. Check volta	R SIDE : Di T SENSOR IN n switch ON. ge between he	iagnosis F IPUT SIGNA eated seat co	Procedure		
PASSENGEI 1. CHECK HEA 1. Turn ignition 2. Check volta (Heated sea	R SIDE : Di T SENSOR IN n switch ON. ge between he +) t control unit	iagnosis F IPUT SIGNA eated seat co	Procedure	Voltage (V)	

2

3

4

5

6 (Max. temperature)

NOTE:	
Voltage is re	epeated within

69

Ground

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

Heated seat switch position

YES >> heat sensor is OK.

NO >> GO TO 2.

B575

2. CHECK HEAT SENSOR CIRCUIT

1. Turn ignition switch OFF.

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

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

10.93 - 11.07

11.04 - 11.17

11.13 - 11.26

11.22 - 11.34

11.31 - 11.43

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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.

$\mathbf{3}.$ 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.

	+) ion heater	()	Voltage (V) (Approx.)	
Connector	Terminal			
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

1. 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 seat control unit		Seat cush	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 <u>SE-111, "PASSENGER SIDE : Component Inspection"</u>.

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace seat cushion heater. Refer to <u>SE-234, "Exploded View"</u>.

6.CHECK INTERMITTENT INCIDENT

Check intermittent incident. Refer to <u>GI-37, "Intermittent Incident"</u>

HEAT SENSOR

	>> INSPE	CTION END			А
PA	SSENGER S	SIDE : Com	ponent Inspection	INFOID:000000005629905	i
1.	CHECK HEAT S	ENSOR			В
1. 2. 3.	Turn ignition sw Disconnect sea Check resistand	it cushion hea	ter connector. eat cushion heater terminals.		С
•	Seat cushi	on heater	Condition	Resistance (KΩ)	D
_	Term	inal	Condition	(Approx.)	
	66	69	When heat sensor temperature is 25°C (77°F)	9.9 – 10.1	Е
		-	ccording to temperature.		
		CTION END	heater. Refer to <u>SE-234, "Exploded View"</u> .		F
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< DTC/CIRCUIT DIAGNOSIS >

SEAT CUSHION HEATER DRIVER SIDE

DRIVER SIDE : Description

Warms the seat cushion.

DRIVER SIDE : Component Function Check

1.CHECK FUNCTION

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

Is the inspection result normal?

- YES >> Seat cushion heater function is OK.
- NO >> Refer to <u>SE-112, "DRIVER SIDE : Diagnosis Procedure"</u>.

DRIVER SIDE : Diagnosis Procedure

INFOID:000000005629908

INFOID:000000005629906

INFOID:000000005629907

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	*			(. + F)
B517	68	Ground	Heated seat	Operates	0 – Battery voltage
	00	Ground	nealeu 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

1. Turn ignition switch OFF.

2. Disconnect heated seat control unit connector.

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

Seat cushion heater		Heated sea	Continuity		
Connector	Terminal	Connector Terminal		Continuity	
B517	68	B518	68	Existed	

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

Seat cush	ion 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-261. "Removal and Installation"</u>.

NO >> Repair or replace harness.

3.CHECK SEAT CUSHION HEATER

SEAT CUSHION HEATER

		UN HEATER	
< DTC/CIRCUIT DIAGNOS Check seat cushion heater.	15 >		
Refer to <u>SE-113, "DRIVER S</u>		on".	ŀ
Is the inspection result norma YES >> GO TO 4.	<u>al?</u>		
	shion heater. Refer to SE-	234. "Exploded View".	E
4.CHECK SEAT CUSHION			
Check continuity between se			
Check continuity between se		connector and ground.	(
Seat cush	ion heater		Continuity
Connector	Terminal	Ground	[
B517	48		Existed
Is the inspection result norma YES >> GO TO 5.	al?		E
NO >> Repair or replace	e harness.		
5. CHECK INTERMITTENT	INCIDENT		
Check intermittent incident. Refer to <u>GI-37, "Intermittent</u>	Incident"		F
>> INSPECTION EI	ND		C
DRIVER SIDE : Comp	-		INFOID:000000005629909
1. CHECK SEAT CUSHION	HEATER		
	heater connector and sea en seat cushion heater ter		
Seat cushion heater			Resistance
Terminal		Condition	(Ω)
48 68	When heat sensor temp	perature is 20°C (68°E)	(Approx.) 2.6 – 3.0
NOTE:	When heat sensor temp		2.0 - 3.0
	es according to temperatu	re.	
Is the inspection result norma	al?		l
YES >> INSPECTION EI			
NO >> Replace seat cu: PASSENGER SIDE	shion heater. Refer to <u>SE-</u>	234, "Exploded View".	
			Ν
PASSENGER SIDE : [Description		INFOID:00000005629910
Warms the seat cushion.			1
	Component Eurotion	Chock	
PASSENGER SIDE : (INFOID:000000005629911
1.CHECK FUNCTION			(
Check that heated seat warr tion.	ns to preset temperature v	when operating heated seat s	
Is the inspection result norma	al?		F
YES >> Seat cushion he		agnosis Procedure".	
PASSENGER SIDE : [-	INFOID:000000005629912
1.CHECK FRONT SEAT CU	JSHION HEATER INPUT	SIGNAL	
	95	110	

SEAT CUSHION HEATER

< DTC/CIRCUIT DIAGNOSIS >

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.

	+) nion heater	(–) Condition		Voltage (V) (Approx.)	
Connector	Terminal				
B574	69	68 Ground Heate	Heated seat	Operates	0 – Battery voltage
6074	00		68 Ground Heated seat		Other than above

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.

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

Seat cush	Seat cushion heater		Heated seat control unit			
Connector	Terminal	Connector	Terminal	Continuity		
B574	68	B575	68	Existed		

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

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

Is the inspection result normal?

YES >> Replace heated seat control unit. Refer to <u>SE-261, "Removal and Installation"</u>.

NO >> Repair or replace harness.

3.CHECK SEAT CUSHION HEATER

Check seat cushion heater.

Refer to <u>SE-115</u>, "PASSENGER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace seat cushion heater. Refer to <u>SE-234, "Exploded View"</u>.

4.CHECK SEAT CUSHION HEATER GROUND CIRCUIT

1. Turn ignition switch OFF.

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

Seat cusl	nion heater		Continuity
Connector	Terminal	Ground	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.

SEAT CUSHION HEATER

< DTC/CIRCUIT DIAGNOSIS >

Refer to GI-37, "Intermittent Incident"

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:000000005629913 B

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1.CHECK SEAT CUSHION HEATER

1. Turn ignition switch OFF.

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

3. Check resistance between seat cushion heater terminals.

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

NOTE:

Resistance value changes according to temperature.

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace seat cushion heater. Refer to <u>SE-234, "Exploded View"</u>.

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SEATBACK HEATER

< DTC/CIRCUIT DIAGNOSIS >

SEATBACK HEATER DRIVER SIDE

DRIVER SIDE : Description

Warms the seat cushion.

DRIVER SIDE : Component Function Check

1.CHECK FUNCTION

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

Is the inspection result normal?

- YES >> Seatback heater function is OK.
- NO >> Refer to <u>SE-116, "DRIVER SIDE : Diagnosis Procedure"</u>.

DRIVER SIDE : Diagnosis Procedure

1.CHECK SEATBACK HEATER

1. Turn ignition switch OFF.

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

	Seatback heater			Resistance
Connector	Terminal		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-234, "Exploded View"</u>.

NO >> Replace seatback heater. Refer to <u>SE-234, "Exploded View"</u>.

PASSENGER SIDE

PASSENGER SIDE : Description

Warms the seat cushion.

PASSENGER SIDE : Component Function Check

1.CHECK FUNCTION

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

Is the inspection result normal?

YES >> Seatback heater function is OK.

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

PASSENGER SIDE : Diagnosis Procedure

1.CHECK SEATBACK HEATER

1. Turn ignition switch OFF.

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

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INFOID:000000005629918

SEATBACK HEATER

< DTC/CIRCUIT DIAGNOSIS >

S	eatback heater		Condition	Resistance
onnector	Termi	inal		(Ω) (Approx.)
3582	1	2	When heat sensor temperature is 20°C (68°F)	4.0 - 4.7
<u>pection re</u> >> Repla	<u>esult normal?</u> ce seat cushi	on heater.	to temperature. Refer to <u>SE-234, "Exploded View"</u> . er to <u>SE-234, "Exploded View"</u> .	

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DRIVER SIDE : Description INEOID.000000005629920 Illuminates the indicator that indicates the operating status of heated seat. **DRIVER SIDE : Component Function Check** INFOID:000000005629921 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. >> Refer to SE-118, "DRIVER SIDE : Diagnosis Procedure". NO DRIVER SIDE : Diagnosis Procedure INFOID:000000005629922 1. CHECK HEATED SEAT SWITCH INDICATOR GROUND CIRCUIT Turn ignition switch OFF 1. 2. Disconnect heated seat switch connector. 3. Check continuity between heated seat switch harness connector and ground. Heated seat switch Continuity Connector Terminal Ground A/T models: M141 6 Existed M/T models: M175 Is the inspection result normal? >> Replace heated seat switch. Refer to SE-267, "Removal and Installation". YES NO >> Repair or replace harness. PASSENGER SIDE PASSENGER SIDE : Description INFOID:000000005629923 Illuminates the indicator that indicates the operating status of heated seat. **PASSENGER SIDE : Component Function Check** INFOID:000000005629924 **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. >> Refer to SE-118, "PASSENGER SIDE : Diagnosis Procedure". NO **PASSENGER SIDE : Diagnosis Procedure** INFOID:000000005629925 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 seat switch Continuity Connector Terminal Ground A/T models: M142 6 Existed M/T models: M176

HEATED SEAT SWITCH INDICATOR

Is the inspection result normal?

< DTC/CIRCUIT DIAGNOSIS >

DRIVER SIDE

HEATED SEAT SWITCH INDICATOR

	HEATED SEAT SWITCH INDICATOR /CIRCUIT DIAGNOSIS >	
YES NO	 >> Replace heated seat switch. Refer to <u>SE-267, "Removal and Installation"</u>. >> Repair or replace harness. 	A
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CLIMATE CONTROLLED SEAT SWITCH

< DTC/CIRCUIT DIAGNOSIS >

CLIMATE CONTROLLED SEAT SWITCH

Description

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

1.CHECK FUNCTION

Check that climate controlled seat activates when operating climate controlled seat control switch. <u>Is the inspection result normal?</u>

- YES >> Climate controlled seat switch is OK.
- NO >> Refer to SE-120, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:000000005629928

INFOID:000000005629926

INFOID:000000005629927

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.

(+) Climate controlled seat control unit			(-)			Voltage (V)
Connector Terminal			Condition		(Approx.)	
					LO COOL	0.8 - 1.5
Driver side B60		02		Climate controlled seat	MID COOL	1.6 - 2.5
		92		switch	HI COOL	2.6 - 4.2
	DC07				OFF	0
	B007		Ground		LO HEAT	0.8 - 1.5
		91		Climate controlled seat switch	MID HEAT	1.6 - 2.5
					HI HEAT	2.6 - 4.2
					OFF	0
			Ground		LO COOL	0.8 - 1.5
		92		Climate controlled seat switch	MID COOL	1.6 - 2.5
		92			HI COOL	2.6 - 4.2
Passenger side	B627				OFF	0
Passenger side	D027		4		LO HEAT	0.8 - 1.5
		91		Climate controlled seat	MID HEAT	1.6 - 2.5
		JI		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

1. 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 cotr	olled seat co	ontrol unit	Continuity			
	Connector		Terminal	Connector	Те	erminal		
Driver side	COOL	M177	2	B607		92		
Driver side	HEAT		3	D007		91	Existed	
	COOL		2	D 007		92	Existed	
Passenger side	HEAT	M178	3	B627		91	_	
Check continu	ity between clima	ate control	led seat swite	ch harness co	onnector a	nd groun	d.	
	Climate controlled	seat switch					Continuity	
	Connector		Terminal				Continuity	
Driver eide	COOL	N 4 4 7 7	2	0-	o u o d			
Driver side	HEAT	M177	3	Gr	ound			
	COOL		2				Not existed	
Passenger side	HEAT	M178	3					
Turn ignition s	mate controlled s			harness conr	nector and	laround		
						ground		
	(+)					-		
	(+) Climate controlled	seat switch		(-)		Vol	tage (V) pprox.)	
		seat switch	Terminal			Vol	tage (V) pprox.)	
Driver side	Climate controlled	seat switch M177		()		Vol (A	pprox.)	
Driver side Passenger side he inspection re	Climate controlled Connector		Terminal			Vol (A		
Passenger side he inspection re ES >> GO TO O >> GO TO CHECK CLIMA Turn ignition s Disconnect cli Check continu	Climate controlled Connector esult normal? O 5. O 4. TE CONTROLLE	M177 M178 D SEAT S	Terminal 1 1 SWITCH POV	(-) Groun	d ′ CIRCUIT	Vol (A Batte	pprox.)	
Passenger side he inspection re ES >> GO TC O >> GO TC CHECK CLIMA Turn ignition s Disconnect cli Check continu control unit ha	Climate controlled Connector esult normal? O 5. O 4. TE CONTROLLE witch OFF. mate controlled s uity between clim	M177 M178 D SEAT S eat contro ate contro	Terminal 1 1 SWITCH POV ol unit connec olled seat swi	(-) Groun	d CIRCUIT	Vol (A Batte	pprox.)	
Passenger side he inspection re ES >> GO TO O >> GO TO CHECK CLIMA Turn ignition s Disconnect cli Check continu control unit ha	Climate controlled Connector esult normal? O 5. O 4. TE CONTROLLE witch OFF. mate controlled s uity between clim rness connector.	M177 M178 D SEAT S eat contro ate contro	Terminal 1 1 SWITCH POV ol unit connec olled seat swi	(-) Groun VER SUPPLY tor. tch harness of	d CIRCUIT	Vol (A Batte	pprox.)	
Passenger side he inspection re ES >> GO TO O >> GO TO CHECK CLIMA Turn ignition s Disconnect cli Check continu control unit ha	Climate controlled Connector esult normal? O 5. O 4. TE CONTROLLE witch OFF. mate controlled s uity between clim irness connector. mate controlled seat	M177 M178 D SEAT S eat contro ate contro	Terminal 1 1 SWITCH POV ol unit connec olled seat swi	(-) Groun VER SUPPLY tor. tch harness of Climate cotrolled	d CIRCUIT connector	Vol (A Batte	pprox.) ery voltage nate controlled s Continuity	
Passenger side he inspection re ES >> GO TO O >> GO TO CHECK CLIMA Turn ignition s Disconnect cli Check continu control unit ha Cli Cr Driver side	Climate controlled Connector esult normal? D 5. D 4. TE CONTROLLE witch OFF. mate controlled s uity between clim irness connector. mate controlled seat	M177 M178 D SEAT S eat contro ate contro	Terminal 1 1 SWITCH POV ol unit connec olled seat swi	(-) Groun VER SUPPLY tor. tch harness of Climate cotrolled Connector	d CIRCUIT connector I seat contro Termi	Vol (A Batte	pprox.)	
Passenger side <u>ie inspection re</u> S >> GO TO D >> GO TO CHECK CLIMA Turn ignition s Disconnect cli Check continu control unit ha Cli Co Driver side Passenger side	Climate controlled Connector esult normal? D 5. D 4. TE CONTROLLE witch OFF. mate controlled s uity between clim irrness connector. mate controlled seat onnector M177	M177 M178 D SEAT S eat contro ate contro switch Ter	Terminal 1 1 SWITCH POV I unit connec I est swi minal 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(-) Groun VER SUPPLY tor. tch harness of Climate cotrolled Connector B607 B627	d CIRCUIT connector I seat contro Termi 94 94	Vol (A Batte	nate controlled s Continuity Existed	
Passenger side he inspection re ES >> GO TO D >> GO TO CHECK CLIMA Turn ignition s Disconnect cli Check continu control unit ha Cli Co Driver side Passenger side Check continu	Climate controlled Connector esult normal? D 5. D 4. TE CONTROLLE witch OFF. mate controlled s uity between clim irness connector. mate controlled seat onnector M177 M178	M177 M178 D SEAT S eat contro ate contro switch Ter ate control	Terminal 1 1 SWITCH POV I unit connec I est swi minal 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(-) Groun VER SUPPLY tor. tch harness of Climate cotrolled Connector B607 B627	d CIRCUIT connector I seat contro Termi 94 94	Vol (A Batte	nate controlled s Continuity Existed	
Passenger side he inspection re ES >> GO TC O >> GO TC CHECK CLIMA Turn ignition s Disconnect cli Check continu control unit ha Cli Cc Driver side Passenger side Check continu	Climate controlled Connector esult normal? D 5. D 4. TE CONTROLLE witch OFF. mate controlled seat ity between climate onnector M177 M178 hity between climate	M177 M178 D SEAT S eat contro ate contro switch Ter ate control ate control	Terminal 1 1 SWITCH POV I unit connec I est swi minal 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(-) Groun VER SUPPLY tor. tch harness of Climate cotrolled Connector B607 B627 ch harness co	d CIRCUIT connector I seat contro Termi 94 94	Vol (A Batte	nate controlled s Continuity Existed	
Passenger side he inspection re ES >> GO TC O >> GO TC CHECK CLIMA Turn ignition s Disconnect cli Check continu control unit ha Cli Cc Driver side Passenger side Check continu	Climate controlled Connector esult normal? D 5. D 4. TE CONTROLLE witch OFF. mate controlled seat ity between climater onnector M177 M178 ity between climater Climate controlled seat	M177 M178 D SEAT S eat contro ate contro switch Ter ate control ate control	Terminal 1 1 SWITCH POV ol unit connec olled seat swit 1 1 led seat swite	(-) Groun VER SUPPLY tor. tch harness of Climate cotrolled Connector B607 B627	d CIRCUIT connector I seat contro Termi 94 94	Vol (A Batte	nate controlled s Continuity Existed	

CLIMATE CONTROLLED SEAT SWITCH

< DTC/CIRCUIT DIAGNOSIS >

- YES >> Replace climate controlled seat control unit. Refer to SE-246, "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-268, "Removal and Installation"</u>.

6.CHECK INTERMITTENT INCIDENT

Refer to GI-37, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:000000005629929

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 controlled seat switch		Terr	minal	Condition			Continuity		
		2			COOL mode	ON	Existed		
Driver side M177	N 4 4 7 7	2		Climate controlled seat switch	COOL mode	OFF	Not existed		
	IVI I / /	3				ON	Existed		
		3			HEAT mode	OFF	Not existed		
	M178			2			COOL mode	ON	Existed
Dessengerside		2	2	Climate controlled seat switch	COOL mode	OFF	Not existed		
Passenger side		2	- 1			ON	Existed		
		3			HEAT mode	OFF	Not existed		

Is the inspection result normal?

YES >> Climate controlled seat switch is OK.

NO >> Replace climate controlled seat switch. Refer to <u>SE-268, "Removal and Installation"</u>.

SEATBACK THERMAL ELECTRIC DEVICE

< DTC/CIRCUIT DIAGNOSIS >

SEATBACK THERMAL ELECTRIC DEVICE

Description

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?

- YFS >> Seatack thermal device function is OK.
- >> Refer to SE-123, "Diagnosis Procedure". NO

Diagnosis Procedure

1. CHECK SEATBACK THERMAL ELECTRIC DEVICE SIGNAL

1. Turn ignition switch ON.

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

	(+)							
Seatback thermal electric device		(—)	(–) Condition		Voltage (V) (Approx.)			
Connec	ctor	Terminal				(, (PP-0))		
Driver side B602	00			HEAT and COOL	0 - battery voltage*			
	Pcop	88			Climate con- trolled seat	Other than above	0	
	85	switch	HEAT and COOL	0 - battery voltage*	_			
		60	Cround	aund	Other than above	0		
		00	Ground		HEAT and COOL	0 - battery voltage*		
Decementarida	DCOO	88		Climate con-	Other than above	0		
Passenger side B622	05		trolled seat switch	HEAT and COOL	0 - battery voltage*			
		85			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

1. Turn ignition switch OFF.

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

Clir	Climate controlled seat control unit Connector Terminal		Seatback therm	Continuity	D	
Co			Connector	Terminal	Continuity	
Driver eide DCOC	88	D 000	88			
Driver side	B606	85	B602	85	Eviete d	
Passenger side B626	DCOC	88	DC00	88	- Existed	
	85	B622	85	-		

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

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SEATBACK THERMAL ELECTRIC DEVICE

< DTC/CIRCUIT DIAGNOSIS >

Cli	mate controlled seat co	ntrol unit		Continuity
Connector		Terminal		Continuity
Driver side	de B606	88	Ground	
Driver side	BOOO	85	- Grouna	Not existed
Passenger side B626	88		inot existed	
Passenger side	D020	85		

Is the inspection result normal?

YES >> Replace climate controlled seat control unit. Refer to <u>SE-246, "Disassembly and Assembly"</u>.

NO >> Repair or replace harness.

SEATBACK THERMAL ELECTRIC DEVICE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

SEATBACK THERMAL ELECTRIC DEVICE SENSOR

Description

Measures seatback temperature.

Diagnosis Procedure

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.

Climate	(+) Climate controlled seat control unit Connector Terminal		()	Condition	Voltage (V) (Approx.)	_
Conr			-		(Applox.)	E
Driver side	B608	105	Ground	Climate controlled seat	1 - 5	
Passenger side B628		Giodila	operated	1-5	F	

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 Connector Terminal		Seatback therm	al electric device	Continuity	_	
		Terminal	Connector	Terminal	- Continuity	
	DCOR	105	B602	105	- Eviated	- SI
Driver side	B608	104		104		
Passenger side	B628	105	Daga	105	- Existed	ŀ
	D020	104	B622	104	_	

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

					_
Clin	nate controlled seat contro		Continuity		
Con	Connector			Continuity	
Driver side	B608	105	Ground		M
Driver side	Bouo	104	Giouna	Not existed	
Passangar sida	B628	105		NOT EXISTED	Ν
Passenger side	D020	104	-		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

${ m 3.}$ CHECK SEATBACK THERMAL ELECTRIC DEVICE SENSOR

Check resistance between seatback thermal electric device connector.

Seatback thermal electric device Connector		_	Torminal		
		Terminal		(KΩ) (Approx.)	
Driver side	B602	105	104	1	
Passenger side	B622	105	104	I	

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INFOID:000000005629933

INFOID:000000005629934

SEATBACK THERMAL ELECTRIC DEVICE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

- YES >> Replace climate controlled seat control unit. Refer to <u>SE-246, "Disassembly and Assembly"</u>.
- NO >> Replace seatback thermal electric device.

SEAT CUSHION THERMAL ELECTRIC DEVICE

< DTC/CIRCUIT DIAGNOSIS >

SEAT CUSHION THERMAL ELECTRIC DEVICE

Description

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

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

1. CHECK SEAT CUSHION THERMAL ELECTRIC DEVICE SIGNAL

1. Turn ignition switch ON.

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

	(+)									
Seat cushion thermal electric device		(-)		Condition	Voltage (V) (Approx.)					
Connec	ctor	Terminal				(
		87			HEAT and COOL	0 - battery voltage*				
Driver side	B603	07		Climate con- trolled seat	Other than above	0				
		86		switch	HEAT and COOL	0 - battery voltage*				
		00	Ground		Other than above	0				
		87	Ground	Ground	Cround	Cround	Ground	Ground	HEAT and COOL	0 - battery voltage*
Dessenger side	Pegg	07		Climate con-	Other than above	0				
Passenger side	B623			trolled seat switch	HEAT and COOL	0 - battery voltage*				
		86			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

1. Turn ignition switch OFF.

2. 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.

Clim	nate controlled seat co	ntrol unit	Seat cushion ther	mal electric device	Continuity
Co	nnector	Terminal	Connector	Terminal	Continuity
Driver side	Rece	87	B603	87	
Driver side	B606	86	D003	86	Existed
Decemper aide	B626	87	B623	87	Existed
Passenger side	D020	86	D023	86	

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INFOID:000000005629935

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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
Co	Connector		-	Continuity
Driver side	B606	87	Ground	
Diverside	Booo	86	Giodila	Not existed
Passangar sida	B626	87	-	NUL EXISTED
rassenger side	Passenger side B626			

Is the inspection result normal?

YES >> Replace climate controlled seat control unit. Refer to <u>SE-246, "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

Measures seat cushion temperature.

Diagnosis Procedure

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.

	(+)					
Climate controlled seat control unit		rol unit	(-)	Condition	Voltage (V) (Approx.)	-
Conne	Connector					E
Driver side	B608	- 103	Ground	Climate controlled seat operated	4 5	
Passenger side	B628	103	Ground	Climate controlled seat operated	1 - 5	F

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

1. Turn ignition switch OFF.

- 2. 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.

Clin	mate controlled seat control unit		Seat cushion thermal electric device		Continuity	
Со	nnector	Terminal	Connector	Terminal	- Continuity	SE
Driver eide	BCOD	103	DC02	103		
Driver side	B608	102	B603	102	Eviated	k
Dessengereide	Pc29	103	DC00	103	- Existed	N
Passenger side	B628	102	B623	102		

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

Cli	mate controlled seat co	ntrol unit		Continuity	
Сс	onnector	Terminal		Continuity	M
Driver side	Pc09	103	Ground		
Driver side	DOUO	B608 102	Ground	Not existed	NI
Desserverside	DC20	103			Ν
Passenger side	B628	102			

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

${ m 3.}$ CHECK SEAT CUSHION THERMAL ELECTRIC DEVICE SENSOR

Check resistance between seat cushion thermal electric device connector.

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INFOID:000000005629938

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SEAT CUSHION THERMAL ELECTRIC DEVICE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

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

Is the inspection result normal?

YES >> Replace climate controlled seat control unit. Refer to <u>SE-245, "Removal and Installation"</u>.

NO >> Replace seat cushion thermal electric device.

CLIMATE CONTROLLED SEATBACK BLOWER MOTOR

< DTC/CIRCUIT DIAGNOSIS >

CLIMATE CO	ONTROL	LED SE	ATBAC	K BLOWER MC	DTOR										
Description						INFOID:000000005629940									
Sends air flow to tl	he seatback														
Component F	-					INFOID:000000005629941									
1.CHECK FUNC															
			witch to the	e HEAT and COOL mo	do position abo	ak that the alimate									
controlled seatbac					de position, che	ck that the climate									
s the inspection re															
	te controlled to <u>SE-134, '</u>														
Diagnosis Pro						INFOID:000000005629942									
		JLLED SEA	I BACK BL	OWER MOTOR POW	ER SUPPLY										
. Turn ignition s 2. Check voltage		imate contro	olled seatba	ack blower motor harn	ess connector ar	id ground.									
	(+)														
Climate control		ower motor	()	Conditi	on	Voltage (V)									
Connee	ctor	Terminal				(Approx.)									
		604			HEAT mode	Battery voltage									
Driver side	B604			Climate controlled seat switch	COOL mode										
		99	Ground	Ground	Ground	Ground	Ground	Ground	Ground	Ground	Ground	Ground		Other than above	0
Passenger side	B624										Climate controlled seat	HEAT mode	Battery voltage		
r doooliger elde	DOLI			switch	Other than above	0									
. Turn ignition s	O 3. O 2. TE CONTR witch OFF.	OLLED BLC													
	ity between	climate cor	trolled sea	ector and climate con atback blower motor h											
Climate	controlled seath	back blower mo	otor	Climate controlled se	eat control unit	Continuity									
	nector	Te	erminal	Connector	Terminal										
Driver side Passenger side	B604 B624		99	B608 B628	99	Existed									
_	-	climate con	trolled sea	tback blower motor ha	rness connector	and ground.									
	-					<u> </u>									
	controlled sea	tback blower n			C	ontinuity									
Driver side	B604		Terminal	Ground											
2	2001		99		N	ot existed									

Is the inspection result normal?

B624

YES >> Replace climate controlled seat control unit. Refer to SE-246, "Disassembly and Assembly". NO >> Repair or replace harness.

Passenger side

Not existed

CLIMATE CONTROLLED SEATBACK BLOWER MOTOR

< DTC/CIRCUIT DIAGNOSIS >

$\mathbf{3}.$ 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 Connector Terminal		()	Condition		Voltage (V) (Approx.)	
					(
Driver side B604				HEAT mode	7.5 - 8	
	B604	96	Ground	Climate controlled seat	LO COOL	6.5
					MID COOL	8
Passenger side B624				HI COOL	12	
	B024				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

1. Turn ignition switch OFF.

2. Disconnect climate controlled seatback 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	Climate controlled seatback blower motor			Climate controlled seat control unit		
Co	nnector	Terminal	Connector	Terminal	- Continuity	
Driver side	B604	96	B608	96	Eviptod	
Passenger side	B624	90	B628	90	Existed	

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

Climate	e controlled seatback l	blower motor		Continuity	
Connector		Terminal	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-246, "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.

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

Climate	Climate controlled seatback blower motor			Climate controlled seat control unit		
Connector		Terminal	Connector	Terminal	- Continuity	
Driver side	B604	98	B608	98	Eviptod	
Passenger side	B624	90	B628	90	Existed	

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

CLIMATE CONTROLLED SEATBACK BLOWER MOTOR

< DTC/CIRCUIT DIAGNOSIS >

Climate c	ontrolled seatback blo	ower motor		Continuity	
Conn	ector	Terminal	Ground	Continuity	
Driver side	B604	98	Ground	Not existed	
Passenger side B624		_ 90		Notexisted	
he inspection res	sult normal?				
ES >> GO TO O >> Repair (6. or replace harnes:	S.			

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.

C	Climate controlled seat contr	ol unit		Continuity	E
	Connector	Terminal	Ground	Continuity	
Driver side	B608	09	Ground	Existed	_
Passenger side	B628	98		Existed	F

Is the inspection result normal?

YES >> Replace climate controlled seatback blower motor. Refer to <u>SE-246, "Disassembly and Assem-</u> bly".

NO >> Replace climate controlled seat control unit. Refer to SE-246, "Disassembly and Assembly".

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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

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:000000005629945

1. CHECK CLIMATE CONTROLLED SEAT CUSHION BLOWER MOTOR POWER SUPPLY

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

Climate controlle	(+) d seat cushion	blower motor	()	Condition	on	Voltage (V) (Approx.)	
Connector Terminal							
						HEAT mode	Battery voltage
Driver side B605		Ground	Climate controlled seat switch	COOL mode	Dattery voltage		
	101			Other than above	0		
	101	101	Ground		HEAT mode	Battery voltage	
Passenger side B625			Climate controlled seat switch	COOL mode	ballery vollage		
					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

1. Turn ignition switch OFF.

2. 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	Climate controlled seat cushion blower motor		Climate controlle	Climate controlled seat control unit		
Co	onnector	Terminal	Connector	Terminal	Continuity	
Driver side	B605	101	B608	101	Existed	
Passenger side	B625	101	B628	101	Existed	

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

Climate	controlled seat cushion	blower motor		Continuity
Co	onnector	Terminal	Ground	Continuity
Driver side	B605	Ground	Not existed	
Passenger side	B625	101		NOT EXISTED

Is the inspection result normal?

YES >> Replace climate controlled seat control unit. Refer to <u>SE-246, "Disassembly and Assembly"</u>. NO >> Repair or replace harness.

INFOID:000000005629943

INFOID:000000005629944

CLIMATE CONTROLLED SEAT CUSHION BLOWER MOTOR

< DTC/CIRCUIT DIAGNOSIS >

$\mathbf{3}$.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 Connector Terminal		()	Condition		Voltage (V) (Approx.)		
					(
				HEAT mode	7.5 - 8		
Driver side	ide B605		Ground	Climate controlled seat	LO COOL	6.5	
		97			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-

- 1. Turn ignition switch OFF.
- Disconnect climate controlled seat cushion blower motor connector 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	
Connector		Terminal	Connector	Terminal	Continuity
Driver side	B605	97	B608	97	Existed
Passenger side	B625		B628		

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

Climate of	controlled seat cushio	n blower motor		Oractionaites	- ĸ	
Connector		Terminal	Ground	Continuity		
Driver side	B605	07	97	Giouna	Not existed	_
Passenger side	B625	- 97		NOL EXISTED	L	

Is the inspection result normal?

YES >> Replace climate controlled seat control unit. Refer to <u>SE-246, "Disassembly and Assembly"</u>. NO >> Repair or replace harness.

5.CHECK CLIMATE CONTROLLED SEAT CUSHION BLOWER MOTOR GROUND CIRCUIT

- 1. Turn ignition switch OFF.
- 2. 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		
Connector		Terminal	Connector	Terminal	Continuity	Р
Driver side	B605	98 -	B608	98	Existed	
Passenger side	B625		B628	90		

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	
Connector		Terminal	Cround	Continuity	
Driver side	B605	0.9	98	Ground	Not existed
Passenger side	B625	90		INOL EXISLED	

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

$6. {\sf CHECK} \ {\sf CLIMATE} \ {\sf CONTROLLED} \ {\sf SEAT} \ {\sf BLOWER} \ {\sf MOTOR} \ {\sf GROUND}$

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 blow		Continuity	
Connector		Terminal	Cround	Continuity
Driver side	B605	09	Ground	Eviated
Passenger side	B625	98		Existed

Is the inspection result normal?

YES >> Replace climate controlled seat cushion blower motor. Refer to <u>SE-246, "Disassembly and</u> <u>Assembly"</u>.

NO >> Replace climate controlled seat control unit. Refer to <u>SE-246, "Disassembly and Assembly"</u>.

CLIMATE CONTROLLED SEAT SWITCH INDICATOR < DTC/CIRCUIT DIAGNOSIS > CLIMATE CONTROLLED SEAT SWITCH INDICATOR Description INFOID:000000005629946 Turns ON the indicator that indicates the operating status of climate controlled seat HEAT or COOL mode. **Component Function Check** INFOID:000000005629947 **1.**CHECK FUNCTION Check that the related indicator lamp illuminates when climate controlled seat switch is set to HEAT or COOL mode. D Is the inspection result normal? YES >> Climate controlled seat switch indicator function is OK. >> Refer to SE-137, "Diagnosis Procedure". NO Diagnosis Procedure INFOID:000000005629948

1.CHECK CLIMATECONTROLLED SEAT SWITCH GROUND CIRCUIT

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

Climate controlled seat switch				Continuity	
Cor	Connector Terminal		Ground	Continuity	Н
Driver side	M177	e	Glound	Existed	-
Passenger side	M178	0		Existed	
	14 10				

Is the inspection result normal?

YES >> GO TO 2.

>> Repair or replace harness. NO

2.check climate controlled seat control unit output signal

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

	(+)									
Climate controlled seat control unit Connector Terminal		(–) Condition		Voltage (V) (Approx.)		L				
		Terminal				(Approx)				
Driver side		95			HEAT mode	Battery voltage	_			
	B608	90		Climate controlled seat	OFF	0	M			
		DOOO	100		Chinate controlled seat	COOL mode	Battery voltage			
		100	Ground		OFF	0	N			
					95	Ground		HEAT mode	Battery voltage	
Passenger side		95		Climate controlled seat	OFF	0				
	0020	B628			COOL mode	Battery voltage	С			
		100			OFF	0				

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace climate controlled seat control unit. Refer to SE-246, "Disassembly and Assembly".

 ${f 3.}$ CHECK CLIMATE CONTROLLED SEAT SWITCH INDICATOR 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 3. control unit harness connector.

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CLIMATE CONTROLLED SEAT SWITCH INDICATOR

< DTC/CIRCUIT DIAGNOSIS >

Climate controlled seat switch			Climate controlle	Continuity	
Connector		Terminal	Connector	Terminal	Continuity
Driver side Passenger side	M177	4	B608	100	Existed
		5		95	
		4	D COO	100	
	M178	5	B628	95	-

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

(Climate controlled seat	switch		Continuity
Connector		Terminal		Continuity
Driver side	M177	4	Ground	
Driver side		5	Giouna	Not existed
Passenger side	1470	4		NOT EXISTED
Fassenger side	M178	5		

Is the inspection result normal?

YES >> Replace climate controlled seat switch. Refer to <u>SE-268, "Removal and Installation"</u>.

NO >> Repair or replace harness.

CLIMATE CONTROLLED SEAT BLOWER FILTER	
< DTC/CIRCUIT DIAGNOSIS >	
CLIMATE CONTROLLED SEAT BLOWER FILTER SEATBACK BLOWER MOTOR	А
SEATBACK BLOWER MOTOR : Diagnosis Procedure	D
1.CHECK CLIMATE CONTROLLED SEATBACK BLOWER FILTER	D
Remove climate controlled seatback blower motor filter and check that there is no clogging by dirt or foreign matters.	С
<u>Is the inspection result normal?</u> YES >> INSPECTION END NO >> Replace climate controlled seatback blower filter. Refer to <u>SE-269, "SEATBACK : Removal and</u> <u>Installation"</u> . SEAT CUSHION BLOWER MOTOR	D
SEAT CUSHION BLOWER MOTOR : Diagnosis Procedure	E
1. CHECK CLIMATE CONTROLLED SEAT CUSHION BLOWER FILTER	F
Remove climate controlled seat cushion blower motor filter and check that there is no clogging by dirt or for- eign matters. <u>Is the inspection result normal?</u> YES >> INSPECTION END	G
NO >> Replace climate controlled seat cushion blower filter. Refer to <u>SE-269, "SEAT CUSHION :</u> <u>Removal and Installation"</u> .	Η

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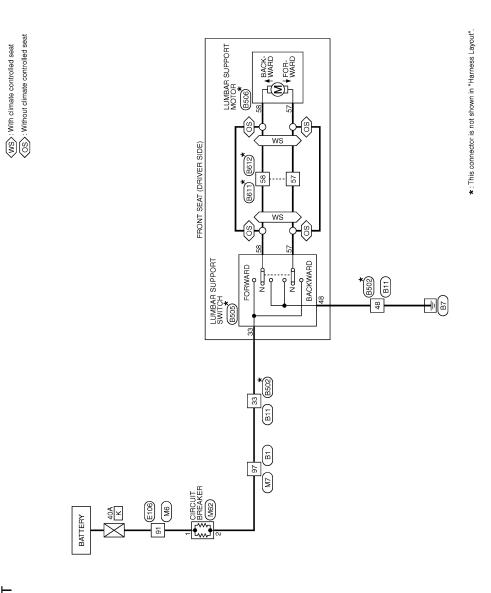
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< DTC/CIRCUIT DIAGNOSIS >

LUMBAR SUPPORT

Wiring Diagram - LUMBAR SUPPORT -

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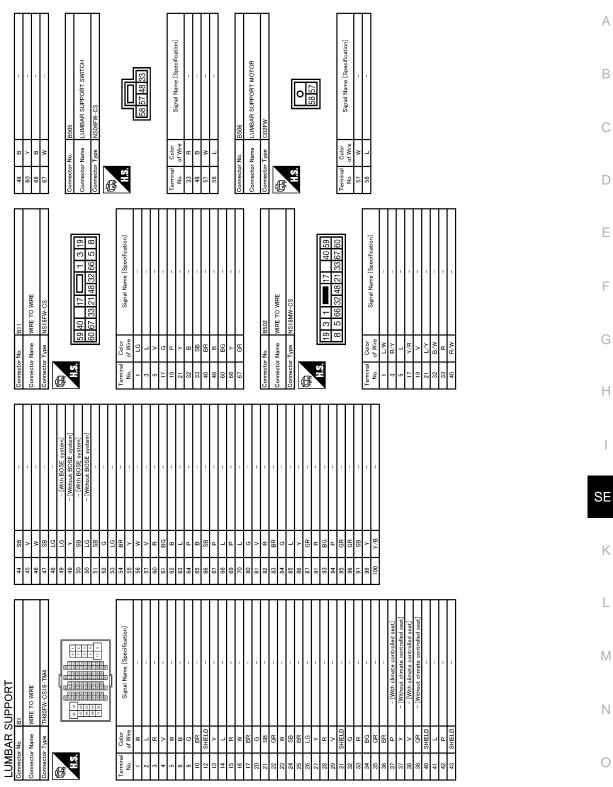


LUMBAR SUPPORT

2009/11/10

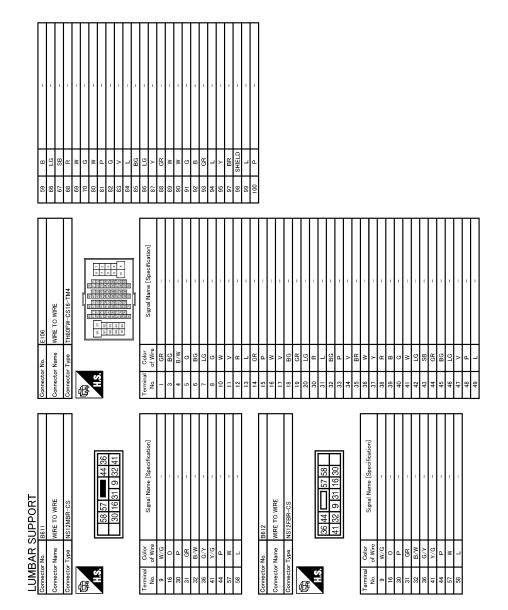
LUMBAR SUPPORT

< DTC/CIRCUIT DIAGNOSIS >



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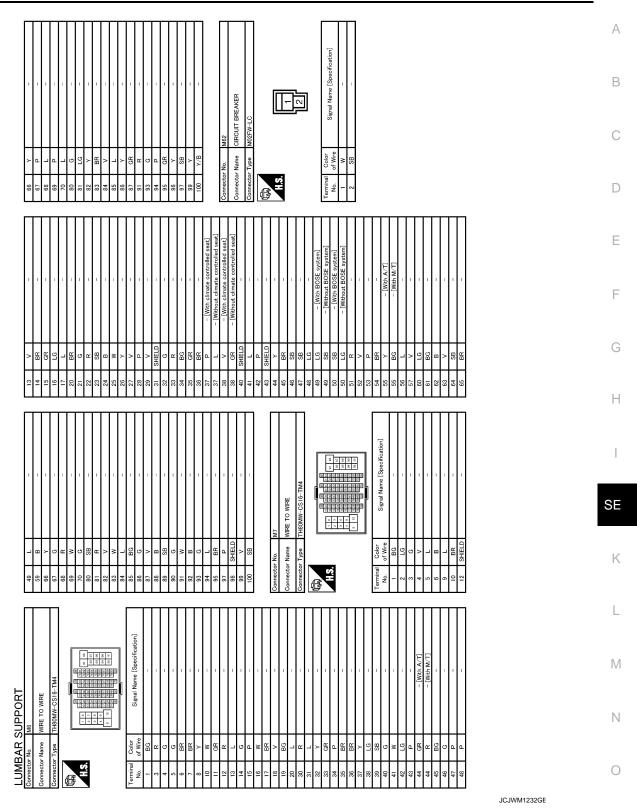
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LUMBAR SUPPORT

< DTC/CIRCUIT DIAGNOSIS >



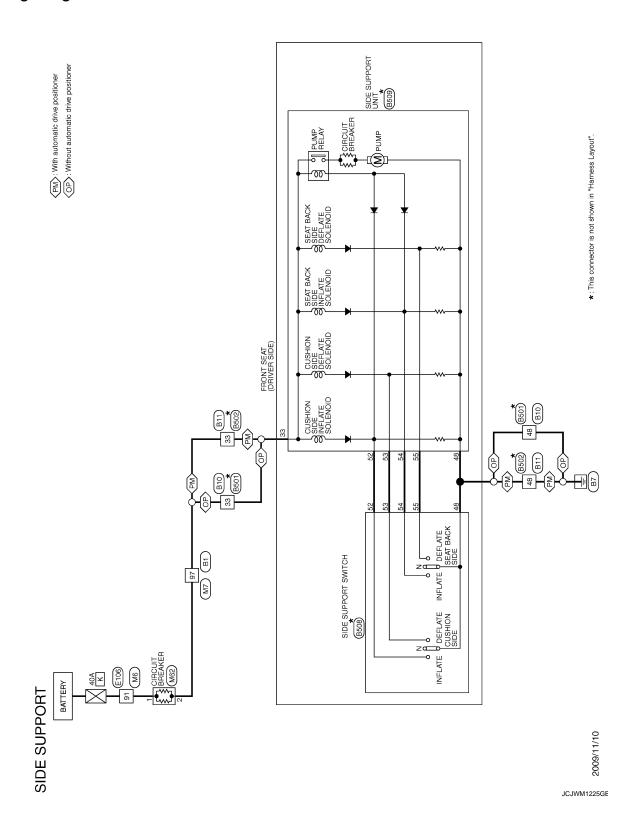
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< DTC/CIRCUIT DIAGNOSIS >

SIDE SUPPORT

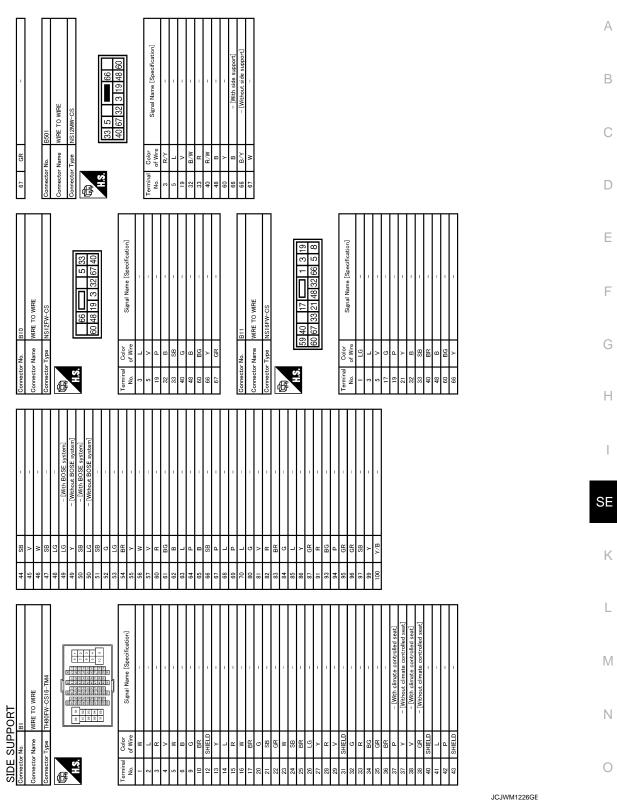
Wiring Diagram - SIDE SUPPORT -

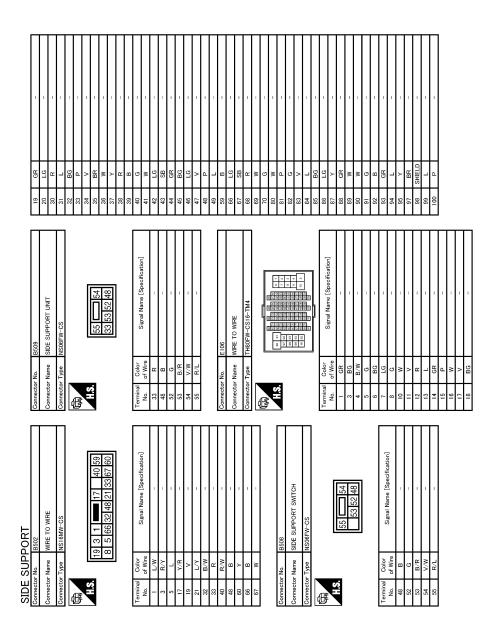
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SIDE SUPPORT

< DTC/CIRCUIT DIAGNOSIS >

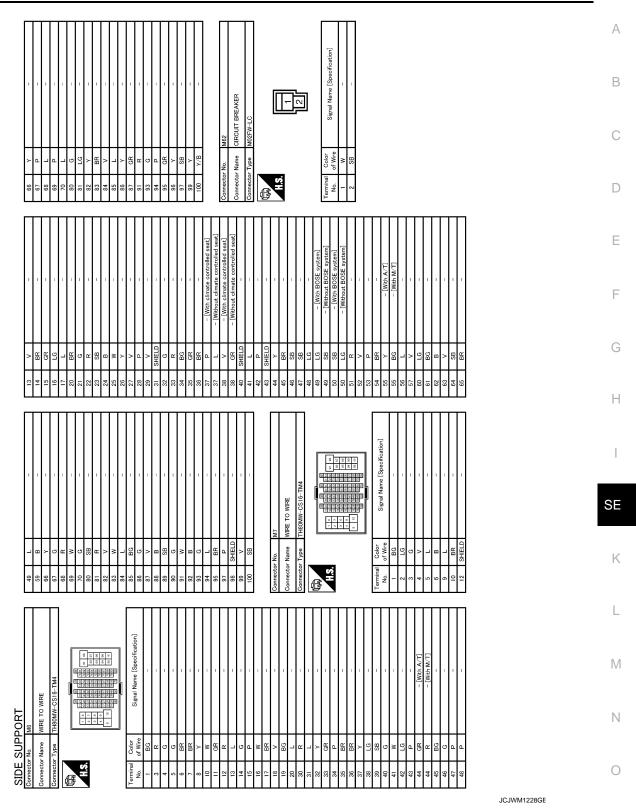




JCJWM1227GE

SIDE SUPPORT

< DTC/CIRCUIT DIAGNOSIS >



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

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

Reference Value

INFOID:000000005629953

VALUES ON THE DIAGNOSIS TOOL

CONSULT-III MONITOR ITEM

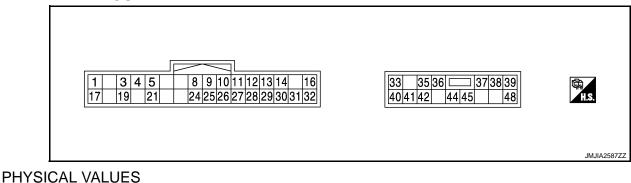
Monitor Item	Con	dition	Value/Status	
SLIDE SW-FR	Sliding switch (front)	Operate	ON	
SLIDE SW-FR	Silding Switch (Ironi)	Release	OFF	
SLIDE SW-RR	Sliding switch (rear)	Operate	ON	
SLIDE SW-RR	Silding Switch (rear)	Release	OFF	
FORWARD SW	Seat back	Folded down	ON	
FORWARD SW	Seal Dack	Other than above	OFF	
WALK-IN SW	Power walk-in switch	Pressed	ON	
		Other than above	OFF	
WD LIMIT SW	Seat sliding	Front edge	ON	
	Seat situling	Other than above	OFF	
SEAT BELT SW	Seat belt	Front edge	ON	
SEAT BEET SW	Searbeit	Other than above	OFF	
DETENT SW ^{*1}	A/T selector lever	P position	OFF	
DETENT SW	Art selector level	Other than above	ON	
PARK BRAKE SW ^{*2}	Parking brake	Applied	ON	
FARN BRANE SVV -	I AINING DIANE	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

*2: M/T model

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

TERMINAL LAYOUT



< ECU DIAGNOSIS INFORMATION >

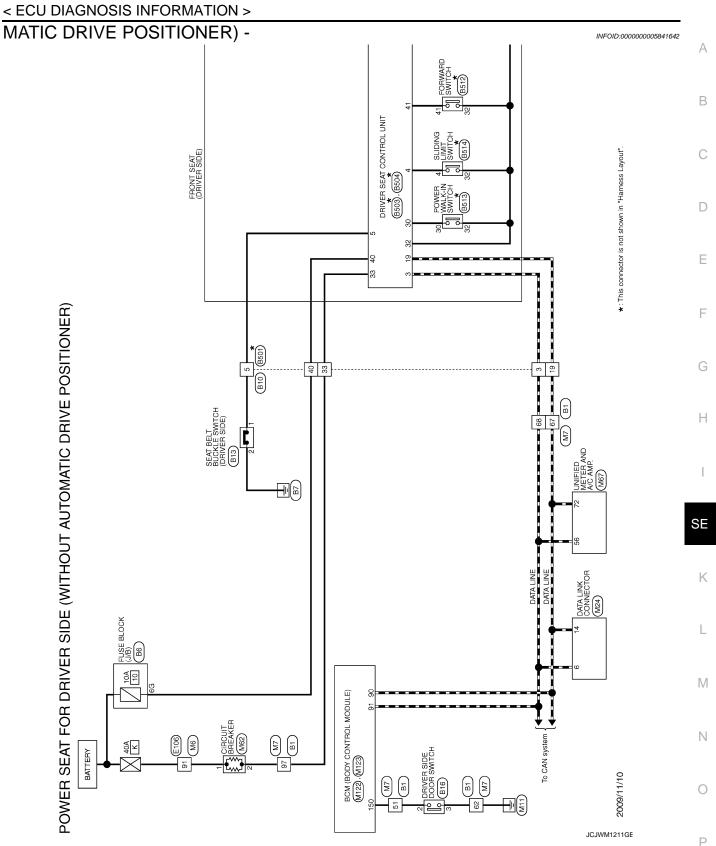
	nal No. color)	Description		Condition		
(+)	(–)	Signal name	Input/ Out- put			Voltage (V) (Approx.)
3 (R/Y)	_	CAN-H		-	_	_
4 (O/B)	Ground	Sliding limit switch signal	Input	Seat sliding front e Other than above*	dge	0 5
		Seat belt buckle		Ignition switch OFF tened*	and seat belt fas-	5
5 (L)	Ground	switch 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
		พลเน อญาสเ			Release	Battery voltage
12 (SB)	Ground	Reclining switch backward signal	Input	Reclining switch	Operate (backward)	0
(SB)		backwaru signai		-	Release	Battery voltage
13 (LG/R)	Ground	Lifting switch (front) downward signal	Input	Lifting switch (front)	Operate (downward)	0
		uownwaru signar		(nont)	Release	Battery voltage
14 (G/B)	Ground	Lifting switch (rear) downward signal	Input	Lifting switch (rear)	Operate (downward)	0
(=,=)		-		()	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 The sec sec sec sec sec sec sec sec sec se
					Stop	0 or 5
26 (Y)	Ground	Sliding switch for- ward signal	Input	Sliding switch	Operate (forward)	0
. ,		, , , , , , , , , , , , , , , , , , ,			Release	Battery voltage
27 (R/G)	Ground	Reclining switch for- ward signal	Input	Reclining switch	Operate (forward)	0
/		5			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
	1	aprici a orginal		(Release	Battery voltage

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

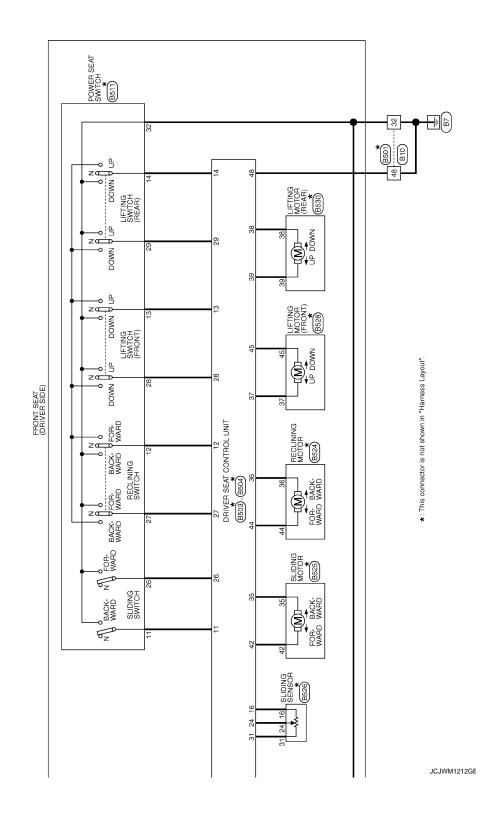
	Terminal No. (Wire color)					
(+)	()	Signal name	Input/ Out- put	Con	dition	Voltage (V) (Approx.)
30 (P)	Ground	Power walk-in switch signal	Input	Power walk-inPressedswitchOther than above		0 Battery voltage
31 (GR)	Ground	Sensor ground		-	_	0
32 (B/W)	Ground	Ground (signal)		-	_	0
33 (R)	Ground	Power source (C/B)	Input	-	-	Battery voltage
35	Ground	Sliding motor for- ward output	Out-	Seat sliding	Operate (forward)	Battery voltage
(W/R)		ward output	put	_	Release	0
36	Ground	Reclining motor for-	Out-	Seat reclining (forward)		Battery voltage
(G/Y)		ward output signal	put		Release	0
37 (G/W)	Ground	Lifting motor (front) downward output	Out-	Seat lifting (front)	Operate (downward)	Battery voltage
(0/11)		downward output	put		Stop	0
38 (L/Y)	Ground	Lifting motor (rear) upward output	Out- put	Seat lifting (rear) Operate (upward)		Battery voltage
(Ľ/Т)		upward output	put		Stop	0
39 (R/B)	Ground	Lifting motor (rear) downward output	Out- put	Seat lifting (rear)	Operate (downward)	Battery voltage
(P ***		Stop	0
40 (R/W)	Ground	Power source (Fuse)	Input	-	_	Battery voltage
41	Ground	Forward switch sig-	Input	Seatback is folded	down	0
(Y/G)		nal	mput	Other than above*		5
42 (W)	Ground	Sliding motor back- ward output	Out- put	Seat sliding	Operate (backward)	Battery voltage
()		hald balpat	put		Stop	0
44 (P)	Ground	Reclining motor backward output	Out- put	Seat reclining	Operate (backward)	Battery voltage
(.)			P ~.		Stop	0
45 (L/R)	Ground	Lifting motor (front) upward output	Out- put	Seat lifting (front)	Operate (upward)	Battery voltage
()			- ~ ·		Stop	0
48 (B)	Ground	Ground (power)	_	-	_	0

*: Not in the sleep mode.

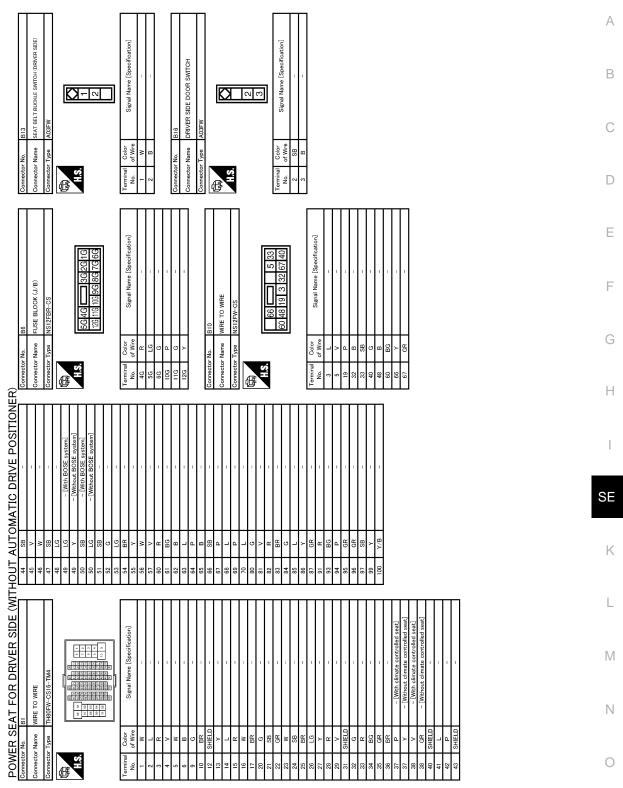
Wiring Diagram - POWER SEAT SYSTEM FOR DRIVER SIDE (WITHOUT AUTO-



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

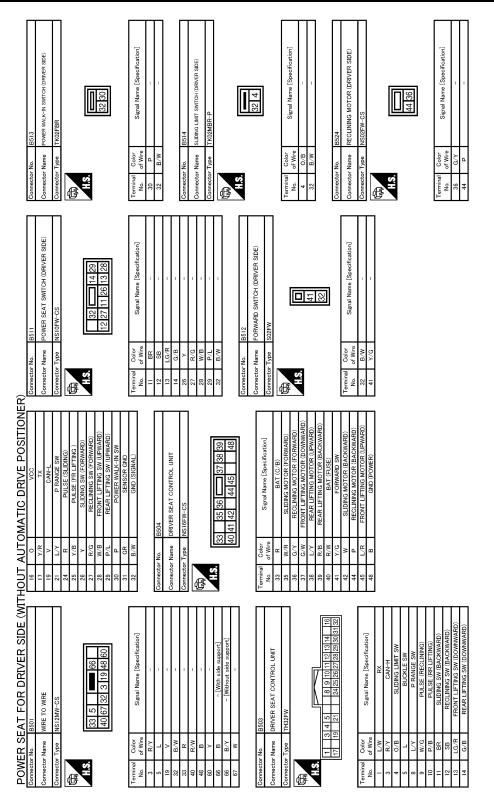


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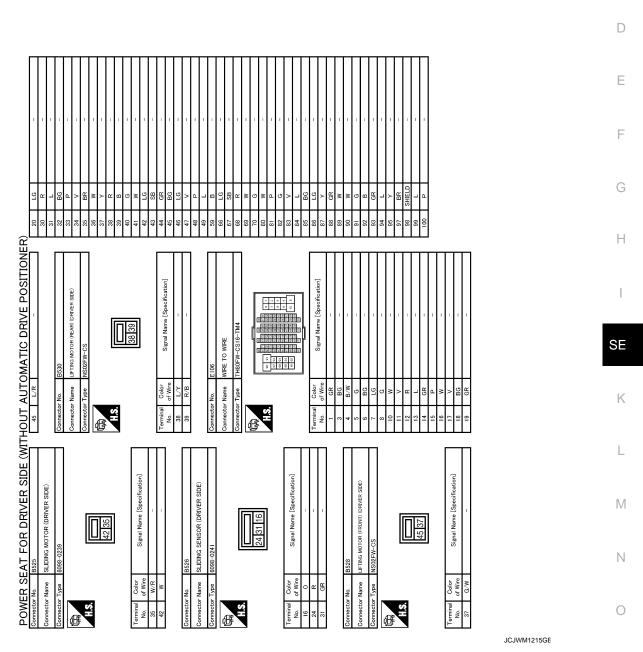
JCJWM1213GE

< ECU DIAGNOSIS INFORMATION >



JCJWM1214GE

< ECU DIAGNOSIS INFORMATION >



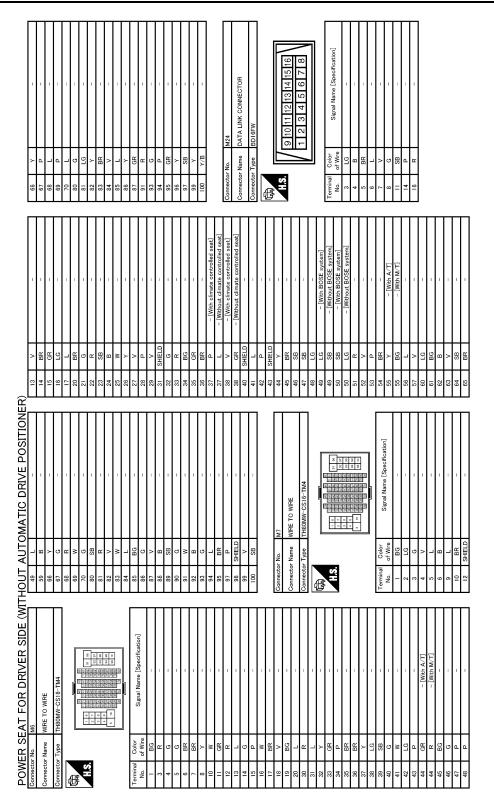
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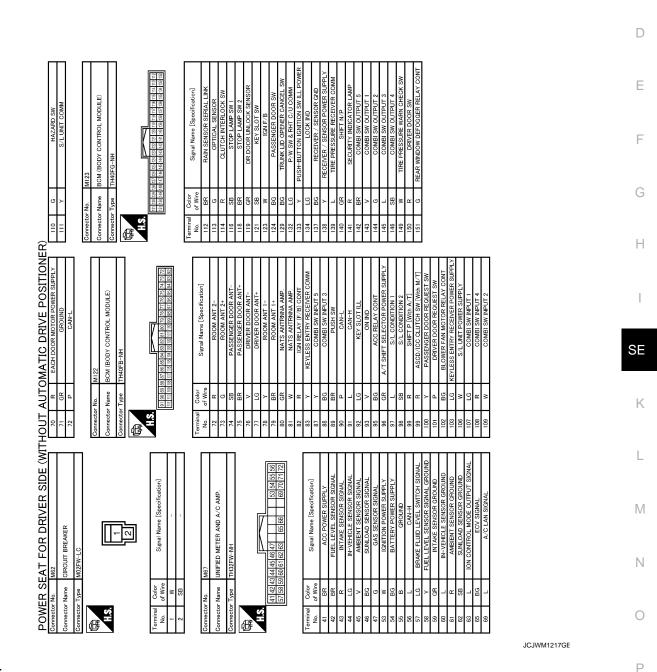
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< ECU DIAGNOSIS INFORMATION >



JCJWM1216GE

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



Fail-Safe

INFOID:000000005629955

А

В

С

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: <u>SE-34, "DTC Log-</u> <u>ic"</u>
Only manual functions operate normally.	Tilt sensor	B2118	ADP-53, "DTC Logic"
	Telescopic sensor	B2119	ADP-56, "DTC Logic"
	Detent switch	B2126	ADP-59, "DTC Logic"
	Parking brake switch	B2127	ADP-61, "DTC Logic"
Only manual functions, except door mirror, operate normally.	UART communication	B2128	ADP-63, "DTC Logic"
Only manual functions, except seat sliding, operate normally.	Seat sliding output*1	B2112	<u>SE-35, "DTC Log-</u> <u>ic"</u>
Only manual functions, except seat reclining, operate normally.	Seat reclining output*1	B2113	<u>SE-37, "DTC Log-</u> <u>ic"</u>

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

DTC Index

INFOID:000000005629956

CONSULT-III	Tim	ing ^{*1}		
display	Current mal- function	Previous mal- function	Item	Reference page
CAN COMM CIRCUIT* ² [U1000]	0	1-39	CAN communication	With ADP: ADP-48, "DTC Logic" Without ADP:
[]				<u>SE-34, "DTC Log-</u> <u>ic"</u>
SEAT SLIDE*2	0	1-39	Seat slide motor output	With ADP: ADP-49, "DTC Logic"
[B2112]	0	1-39	Seat side motor output	Without ADP: <u>SE-35, "DTC Log-</u> <u>ic"</u>
SEAT RECLINING* ² [B2113]	0	1-39	Seat reclining motor output	<u>SE-37, "DTC Log-</u> <u>ic"</u>
TILT SENSOR [B2118]	0	1-39	Tilt sensor input	ADP-53, "DTC Logic"
TELESCO SENSOR [B2119]	0	1-39	Telescopic sensor input	ADP-56, "DTC Logic"
DETENT SW [B2126]	0	1-39	Detention switch condition	ADP-59, "DTC Logic"
PARKING BRAKE [B2127]	0	1-39	Parking brake switch condition	ADP-61, "DTC Logic"
UART COMM [B2128]	0	1-39	UART communication	ADP-63, "DTC Logic"

*1.

< ECU DIAGNOSIS INFORMATION >

• 0: Current malfunction is present

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

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

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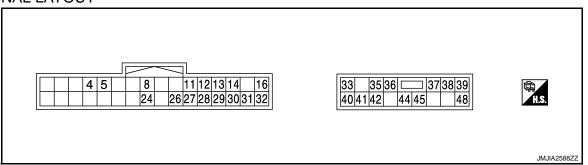
< ECU DIAGNOSIS INFORMATION >

PASSENGER SEAT CONTROL UNIT

Reference Value

INFOID:000000005629957

TERMINAL LAYOUT



PHYSICAL VALUES

	nal No. color)	Description		- Condition		Voltage (V)	
(+)	()	Signal name	Input/ Output	Con		(Approx.)	
4	Ground	Sliding limit switch	Input	Seat sliding front edge		0	
(O/B)	Giouna	signal	input	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 PKIB4960J	
11 (BR)	Ground	Sliding switch back- ward signal	Input	Sliding switch	Operate (backward)	0	
(BI()					Release	Battery voltage	
12 (SB)	Ground	Ground Reclining switch Input Reclining	Reclining switch	Operate (backward)	0		
(00)		backward signal			Release	Battery voltage	
13 (LG/R)	Ground	Lifting switch (front)		Input	Lifting switch	Operate (downward)	0
(LG/K)		downward signal		(front)	Release	Battery voltage	
14 (G/B)	Ground	Lifting switch (rear) downward signal	Input	Lifting switch (rear)	Operate (downward)	0	
(0, -)				()	Release	Battery voltage	
16 (O)	Ground	Sensor power sup- ply	Output	-	_	Battery voltage	

< ECU DIAGNOSIS INFORMATION >

	nal No. color)	Description		Condition		Voltage (V)
(+)	(-)	Signal name	Input/ Output	Con	aition	(Approx.)
24 (R)	Ground	Sliding sensor sig- nal	Input	Seat sliding	Operate	10mSec/div
					Stop	0 or 5
26 (Y)	Ground	Sliding switch for- ward signal	Input	Sliding switch	Operate (forward)	0
()		5			Release	Battery voltage
27 (R/G)	Ground	Reclining switch for- ward signal	Input	Reclining switch	Operate (forward)	0
· · /		5			Release	Battery voltage
28 (W/B)	Ground	Lifting switch (front) upward signal	Input	Seat lifting switch (front)	Operate (upward)	0
· · ·					Release	Battery voltage
29 (P/L)	Ground	Lifting switch (rear) upward signal	Input	Seat lifting switch (rear)	Operate (upward)	0
(()	Release	Battery voltage
30 (P)	Ground	Power walk-in switch signal	Input	Power walk-in switch	Pressed	0
31	Ground	Sensor ground			Other than above	Battery voltage
(GR)	0.04.14					
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)	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}		Damas			Stop	0
40 (R/W)	Ground	Power source (Fuse)	Input	-	_	Battery voltage
41	Ground	Forward switch sig-	Input	Seatback is folded	down	0
(Y/G)		nal	P ***	Other than above*		5

Revision: 2009 Novemver

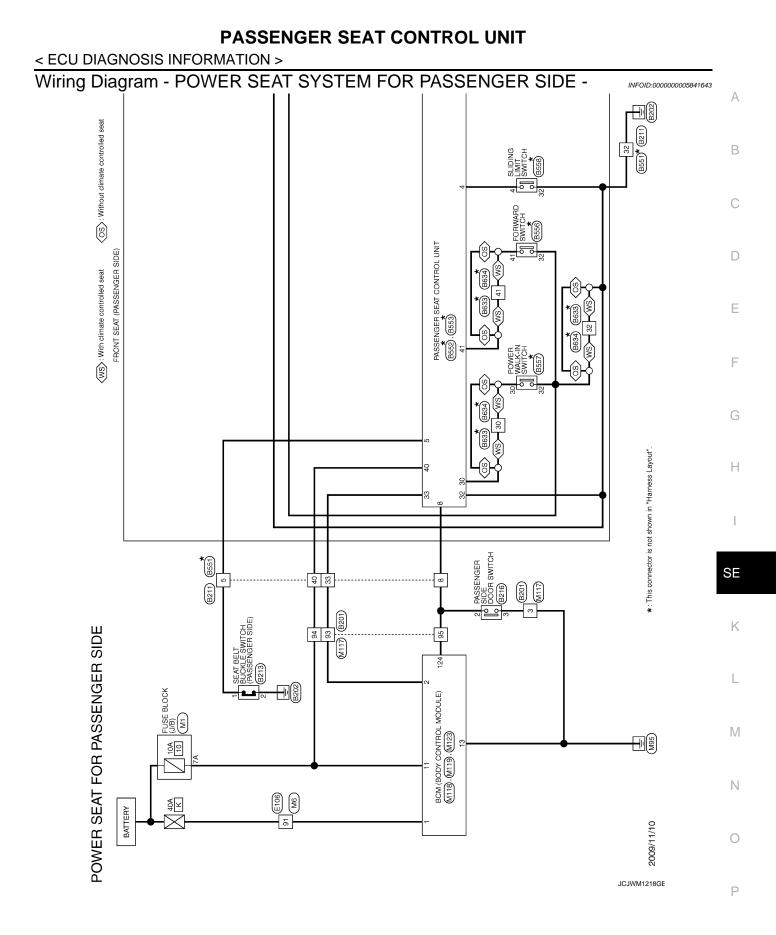
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	nal No. color)	Description		Condition		Voltage (V)
(+)	()	Signal name	Input/ Output	Con		(Approx.)
42 (W)	Ground	Sliding motor back- ward output	Output Seat sliding		Operate (backward)	Battery voltage
(VV)		ward output			Stop	0
44 (P)	Ground Reclining motor backward output			Output Seat reclining	Operate (backward)	Battery voltage
(1)		backward output			Stop	0
45 (W/B) ^{*1}	Ground	Lifting motor (front)	Output	Seat lifting (front)	Operate (upward)	Battery voltage
(L/R) ^{*2}					Stop	0
48 (B)	Ground	Ground (power)	_	_		0

*: Not in the sleep mode.

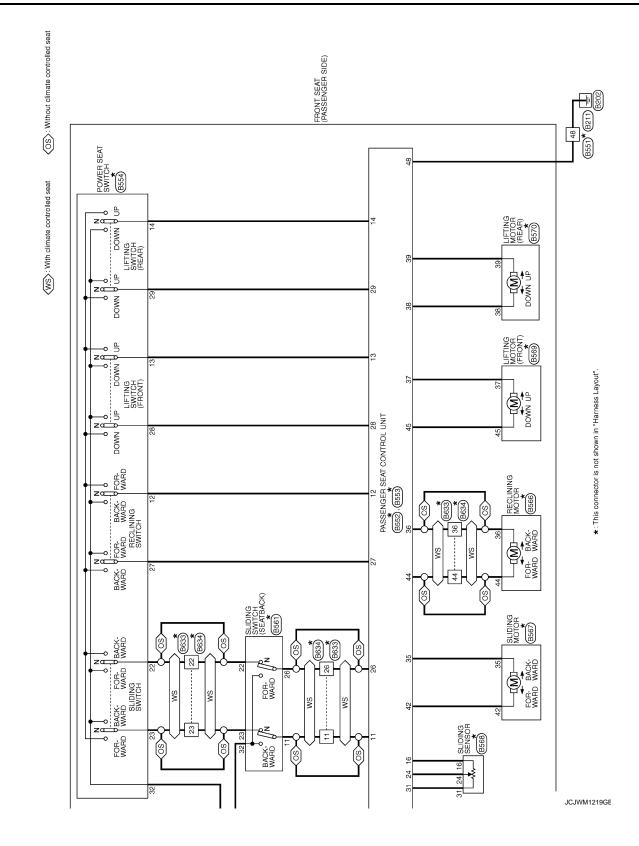
*1:With climate controlled seat.

*2:Without climate controlled seat.

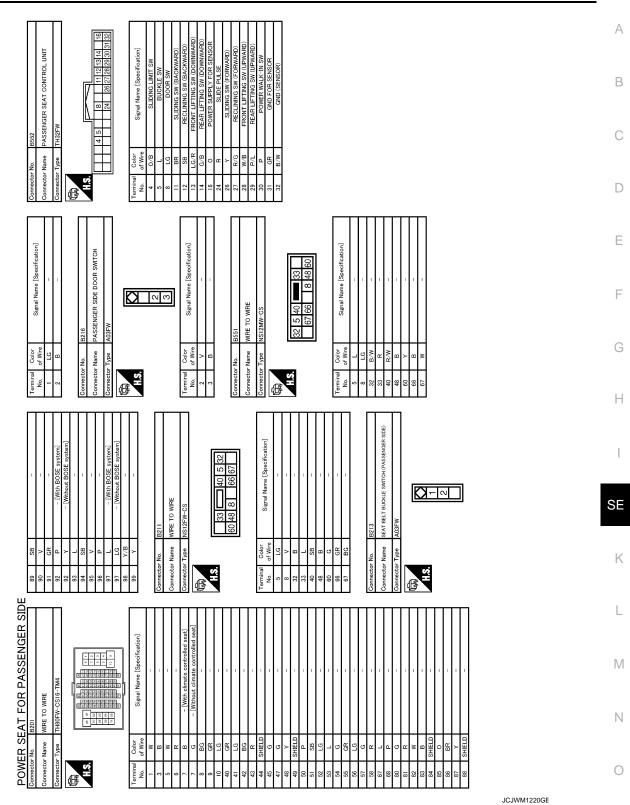


2010 G37 Convertible

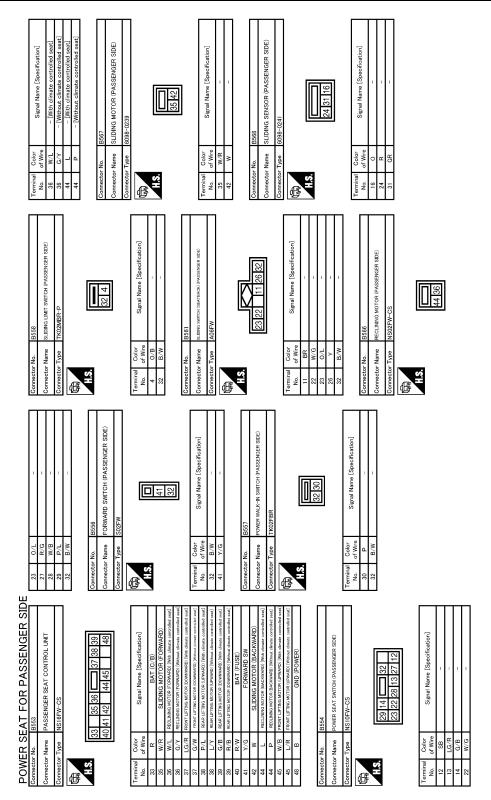
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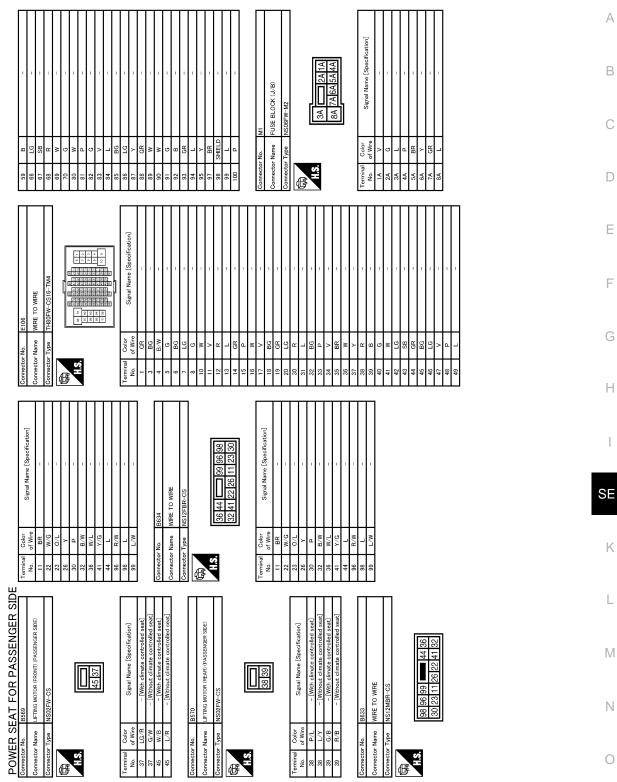


JCJWM1221GE

PASSENGER SEAT CONTROL UNIT

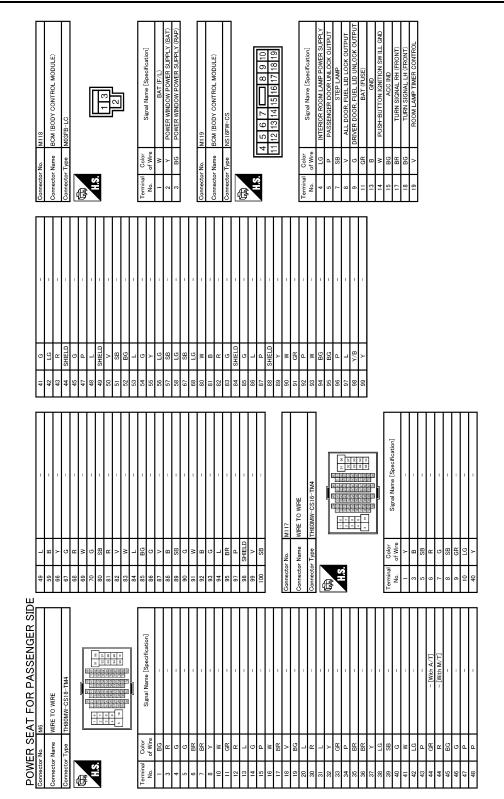
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JCJWM1223GE

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	1 I I I I I I I I I I I I I		L
EAT FOR PASSENG MI23 BEM (BOPY CONTROL MODULE) TH40FG-NH	 Signal Name (Specification) Signal Name (Specification) RAN SENSOR SERAL LINK OPTICAL SENSOR STOP LAMP SW 2 STOP LAMP SW 2 STOP LAMP SW 2 STOP LAMP SW 2 DR DOR NULCOK SENSOR KEY 2017 SM EQUITION SW LILL DORER PASSENGER DOR SW 2018 FJ 10 PASSENGER DOR SW 2018 FJ 10 RECEIVER / SENSOR FOWE RECEIVER / SENSOR FOWE SUPPLY RECEIVER / SENSOR FOWE RECEIVER / SENSOR FOWE RECEIVER / SENSOR FOWE RECEIVER / SENSOR FOWE RECEIVER / SENSOR FOWE RECEIVER / SENSOR FOWE RECEIVER / SENSER FOWE RECEIVER / SENSOR FOWE RECEIVER / SENSER FOWE RECEIVER / SENSER FOWE RECEIVER / SENSER FOWE RECEIVER / SENSER FOWE<td></td><td>M</td>		M
	Res Signal 1 1<		Ν
POWER SE Connector Name Connector Name Connector Type 計3 問題回回	Terminal Color No. of Wire No. of Wire 1112 B 1133 G 1114 R 1113 G 1113 G 1113 G 1113 G 1114 R 1119 G 1119 G 1123 LG 1233 LG 133 L 144 R 143 R 144 R 150 R 151 G 151 G		0
		JCJWM1224GE	

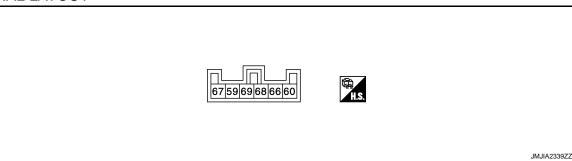
JCJWM1224GE

< ECU DIAGNOSIS INFORMATION >

HEATED SEAT CONTROL UNIT

Reference Value

INFOID:000000005629959



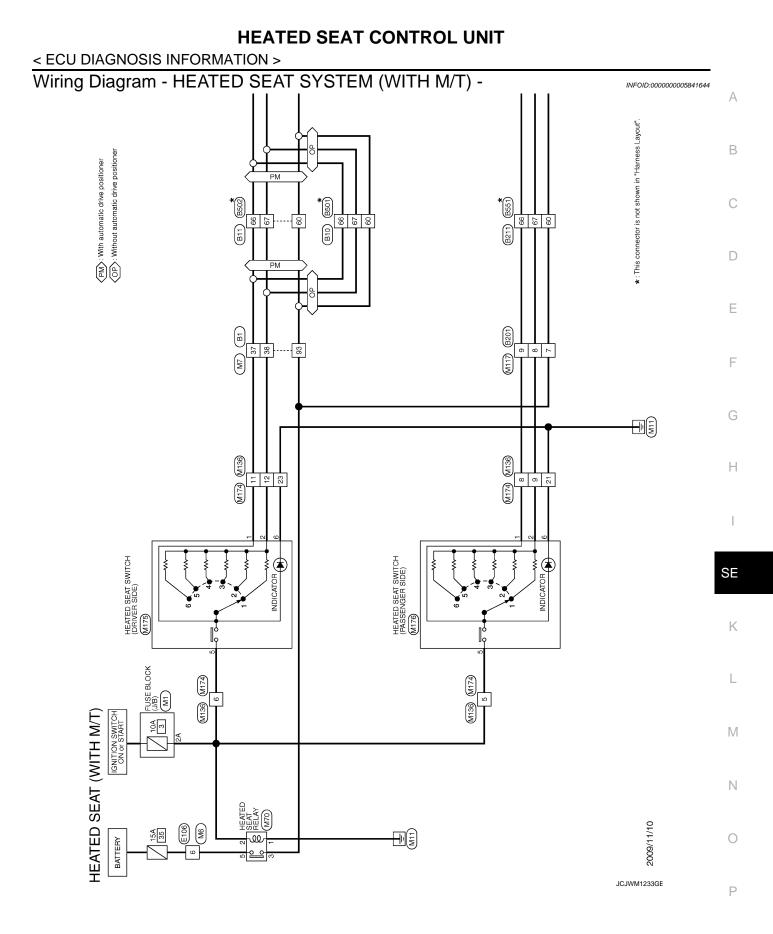
PHYSICAL VALUES

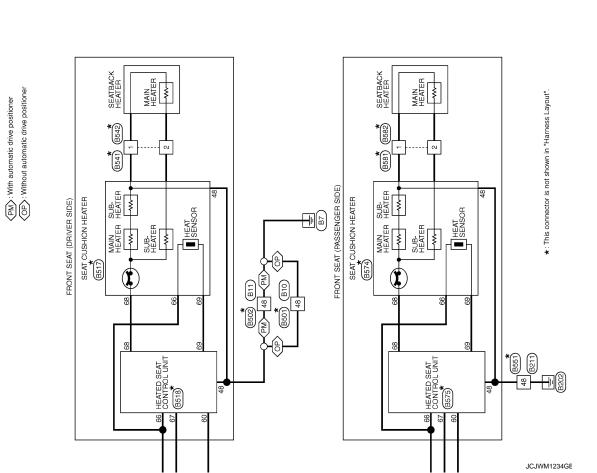
	nal No. color)	Description			Condition	Voltage (V)	
(+)	(-)	Signal name	Input/ Output	Condition		(Approx.)	
59 (B)	Ground	Ground	_	Ignition switch O	N	0	
60	Ground	IGN power supply	Input	Ignition switch	OFF or ACC	0	
(Y)	Giouna		mput	Ignition Switch	ON	Battery voltage	
66		Heated seat operation sig-			Operate	Battery voltage	
(B) ^{*1} (B/Y) ^{*2}	Ground	nal	Input	Heated seat	Other than above	0	
		ound Heated seat switch signal			OFF	0	
			Input	Heated seat switch	1 (Min. temperature)	12.24	
					2	12.33	
67 (W)	Ground				3	12.49	
()					4	12.63	
					5	12.76	
					6 (Max. temperature)	12.90	
68	Cround	Seat cushion heater pow-	Ground Seat cushion heater pow-	Output	Heated seat	Operate	0 – Battery voltage
(R/W)	Ground	er supply	Output	Healed 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.

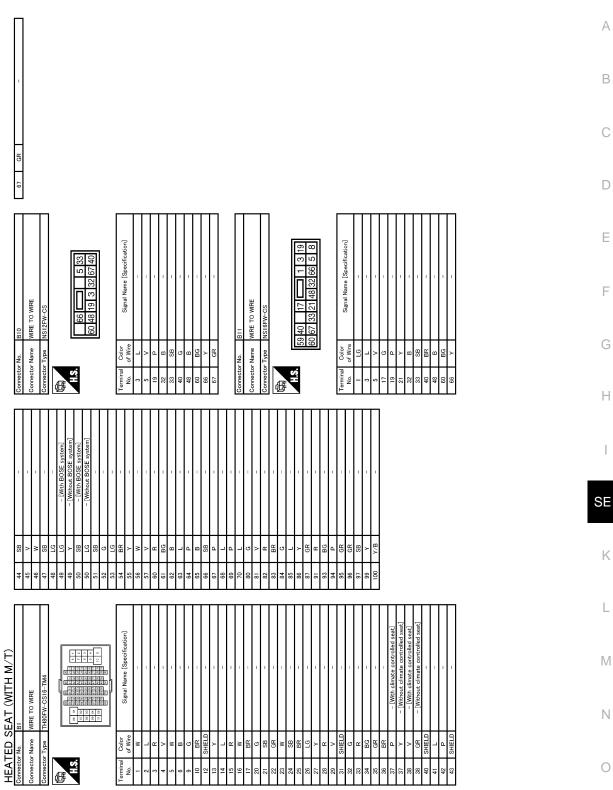
*2:Without side support.





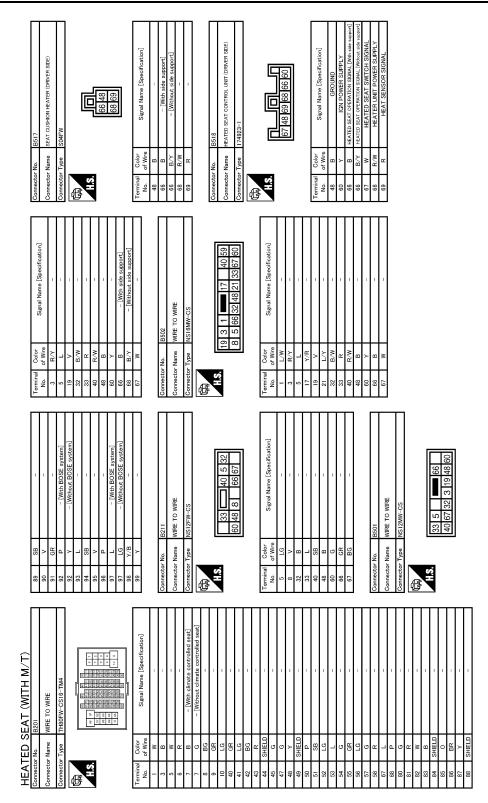
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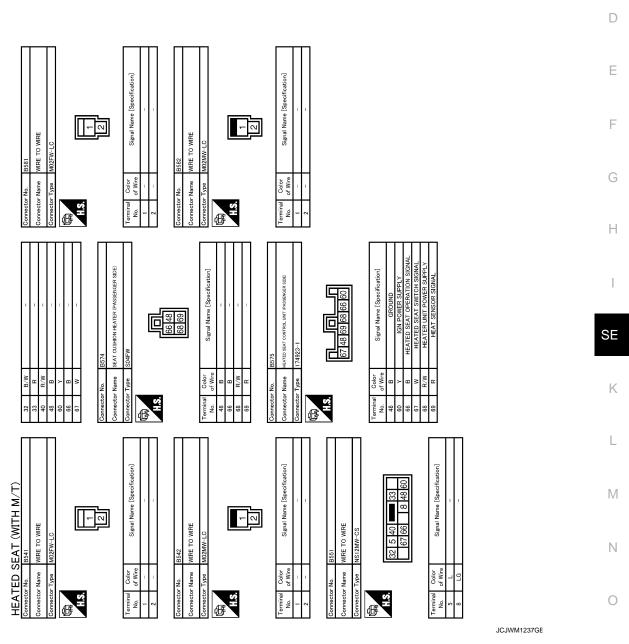
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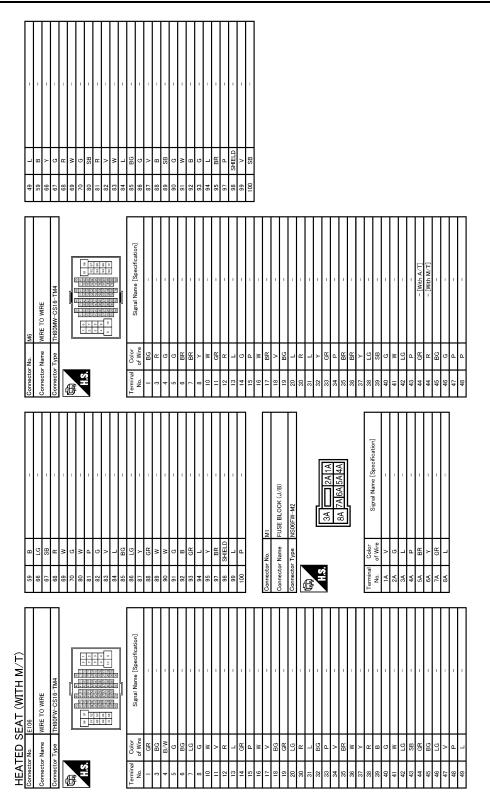
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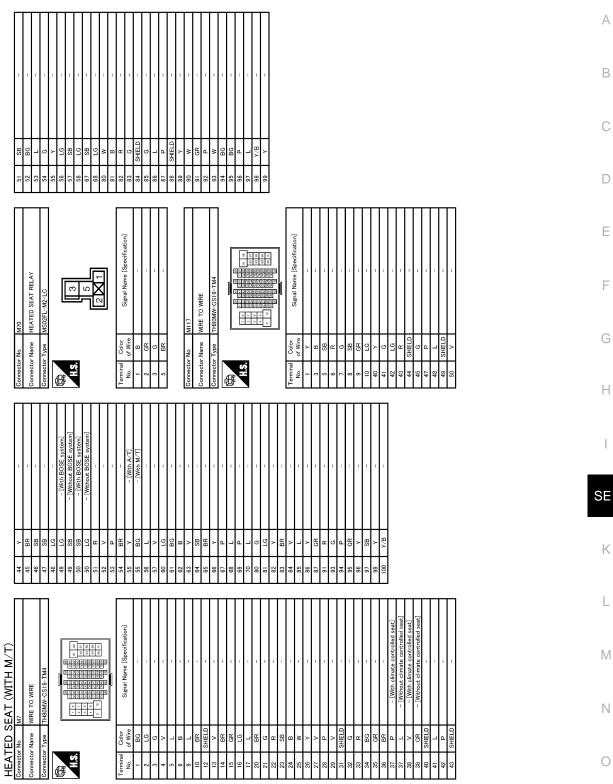
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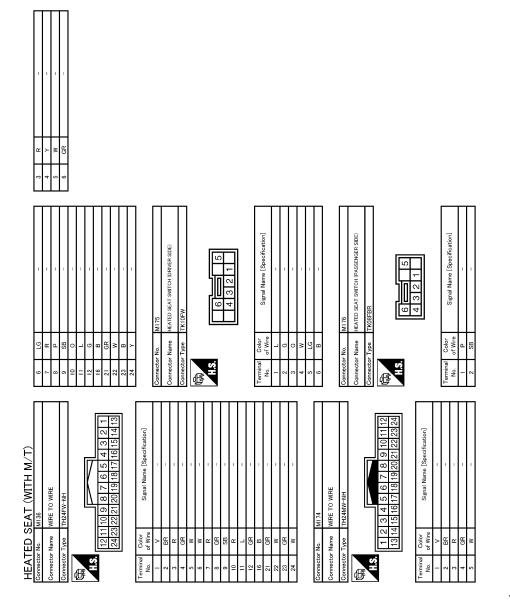
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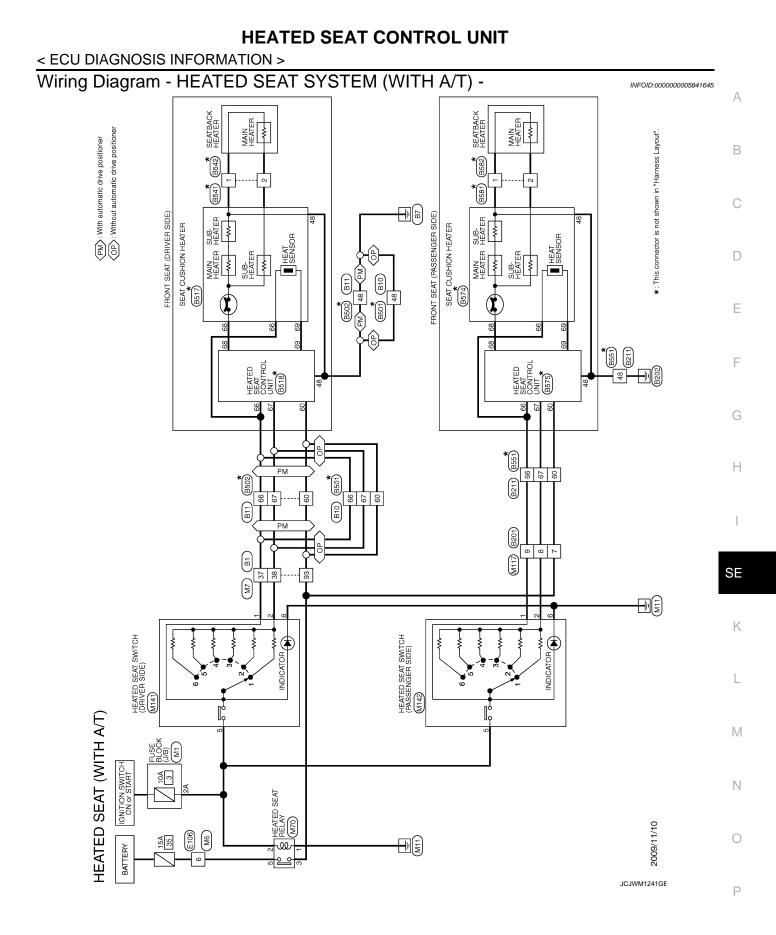


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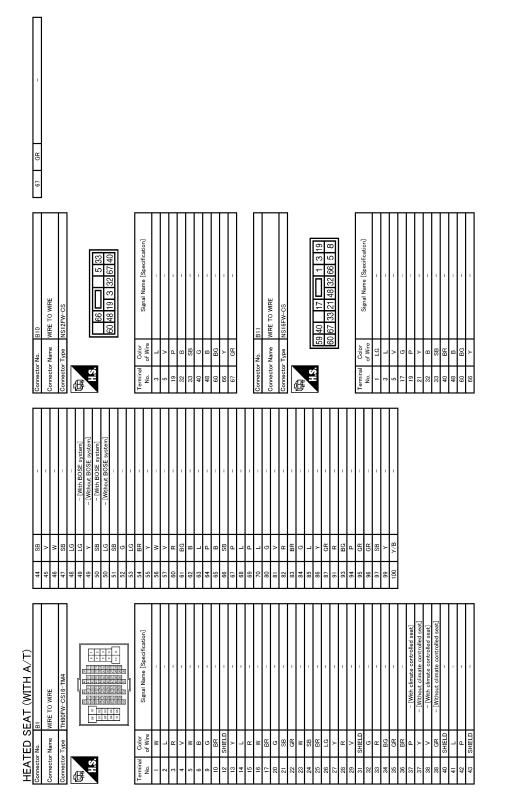
JCJWM1240GE



Revision: 2009 Novemver

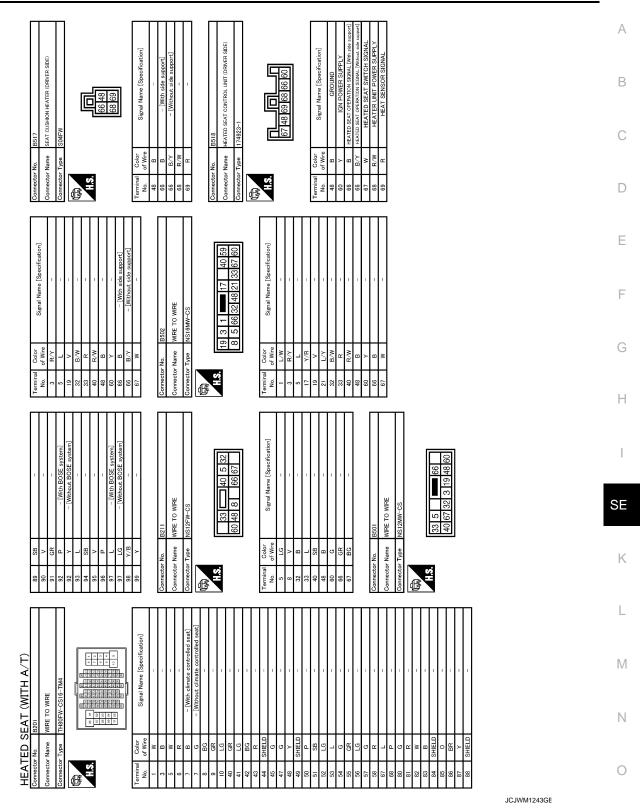
2010 G37 Convertible

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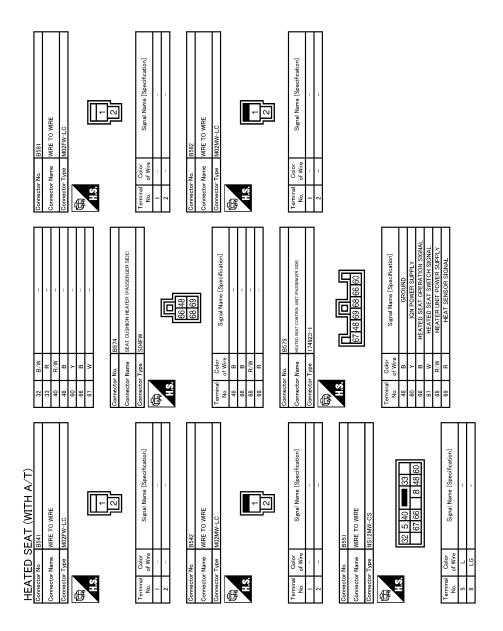
JCJWM1242GE

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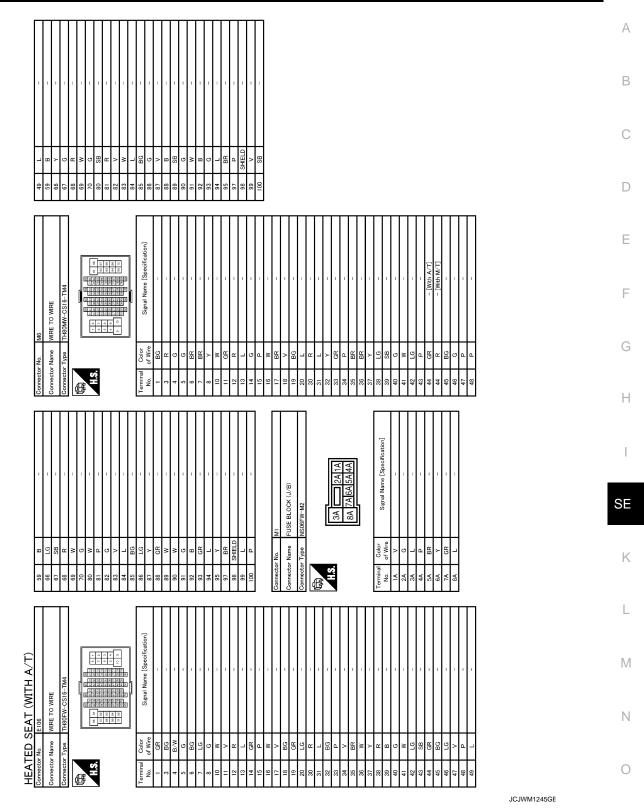
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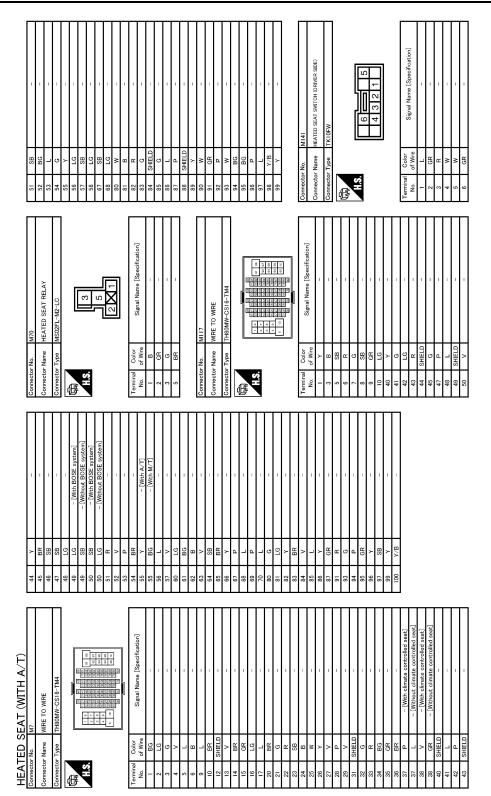


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JCJWM1246GE

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EAT (WITH A/T) Mi42 Mi42 Signal Name [Specification]	Μ
	Ν
HEATED Commercer Name Commercer Name No. 1 6 0 0 7 7 6 0 0 7 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	JCJWM1247GE
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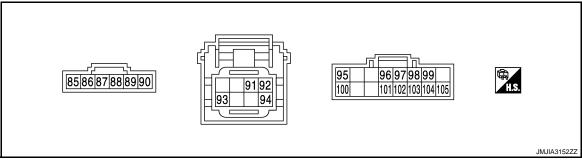
< ECU DIAGNOSIS INFORMATION >

CLIMATE CONTROLLED SEAT CONTROL UNIT

Reference Value

INFOID:000000005629962

TERMINAL LAYOUT



PHYSICAL VALUES

Terr	minal No.	Wire	Description				Value
+	-	color	Signal name	Input/ Output	Condition		(Approx.)
85	Ground	G	Seatback thermal electric device COOL	Output	Climate controlled seat	HEAT or COOL	0 - Battery voltage*
			signal		Switch	OFF	0
86	Ground	G/W	Seat cushion thermal electric device COOL-	Output	Climate controlled seat	HEAT or COOL	0 - Battery voltage*
			signal		SWIGH	OFF	0
87	Ground	G/B	Seat cushion thermal electric device HEAT	Output	Climate controlled seat switch	HEAT or COOL	0 - Battery voltage*
			signal		SWIICH	OFF	0
88	Ground	G/R	Seatback thermal electric device HEAT	Output	Climate controlled seat	HEAT or COOL	0 - Battery voltage*
			signal	1	switch	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
31			The reasonable for the reasonabl		switch	LO HEAT	0.8 - 1.5
						OFF	0
	Ground	×		Input		HI COOL	2.6 - 4.2
92			COOL switch signal		Climate controlled seat	MID COOL	1.6 - 2.5
92			COOL SWITCH SIGNAL		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
90	Ground	R/L	signal	Output	switch	OFF	0

< ECU DIAGNOSIS INFORMATION >

Ter	minal No.	Wire	Description				Value
+	-	color	Signal name	Input/ Output	Condition		(Approx.)
						HEAT	7.5 - 8
00	Ground		Seatback blower mo-	Output	Climate controlled seat	HI COOL	12
96	Ground	L/W	tor speed control sig- nal	Output	switch	MID COOL	8
						LO COOL	6.5
						HEAT	7.5 - 8
97	Ground	R	seat cushion blower motor speed control	Output	Climate controlled seat	HI COOL	12
97	Ground	K	signal	Output	switch	MID COOL	8
						LO COOL	6.5
98	Ground	R/W	Blower motor ground	_	—		0
99	Ground	L	Statback blower mo-	Output	Climate controlled seat switch	HEAT or COOL	Battery voltage
			tor power supply		Other than the above		0
100	Ground	GR	COOL switch indica-	Output	Climate controlled seat	COOL	Battery voltage
100	Ground	GI	tor signal	Output	switch	OFF	0
101	Ground	GR/R	Seat cushion blower motor power supply	Output	Climate controlled seat 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

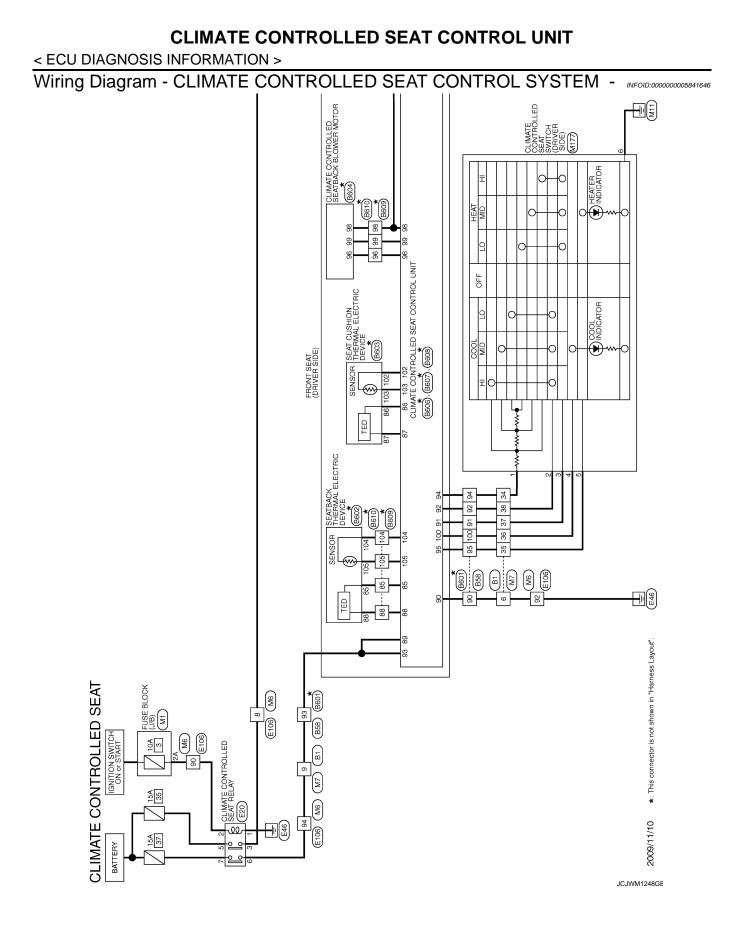
NOTE:

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

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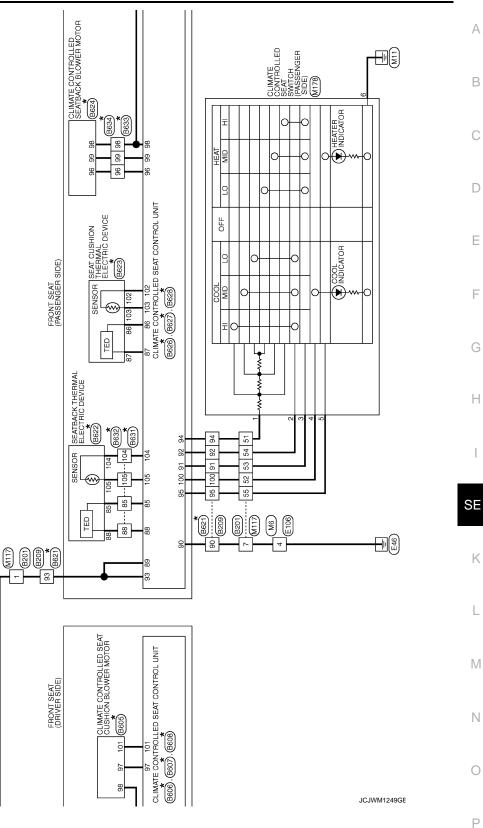
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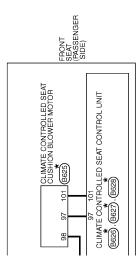
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< ECU DIAGNOSIS INFORMATION >

★ : This connector is not shown in "Harness Layout".

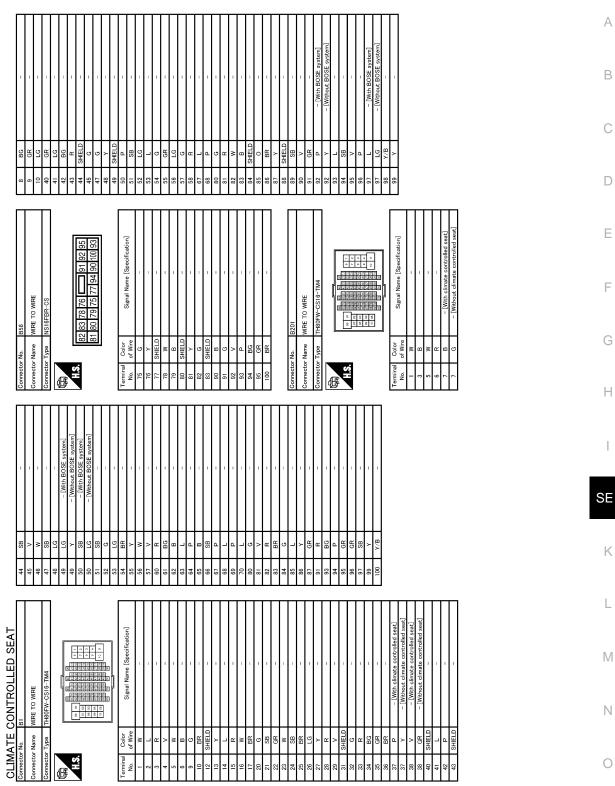




*: This connector is not shown in "Harness Layout".

JCJWM1250GE

< ECU DIAGNOSIS INFORMATION >



JCJWM1251GE

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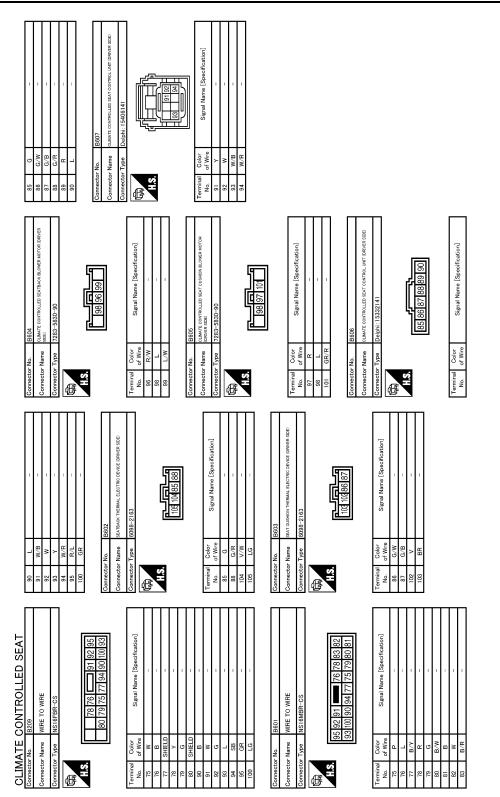
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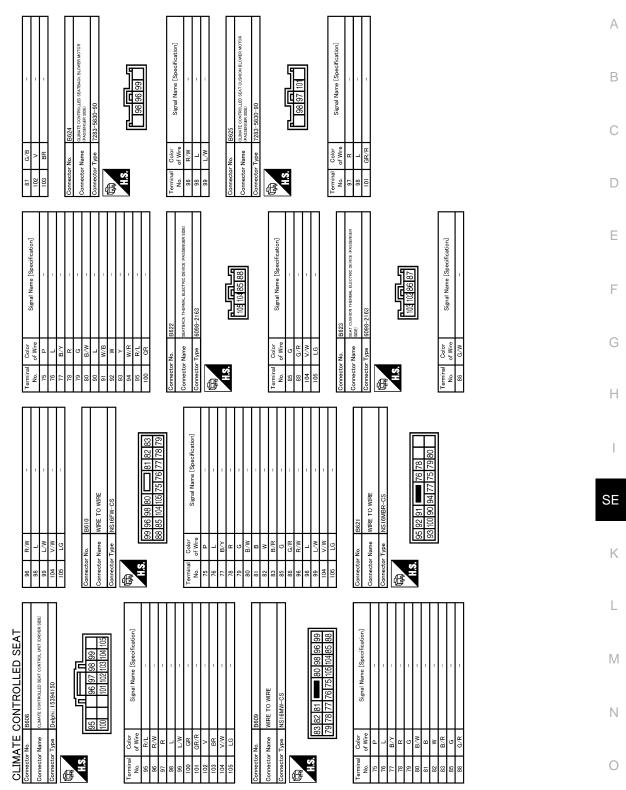
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< ECU DIAGNOSIS INFORMATION >



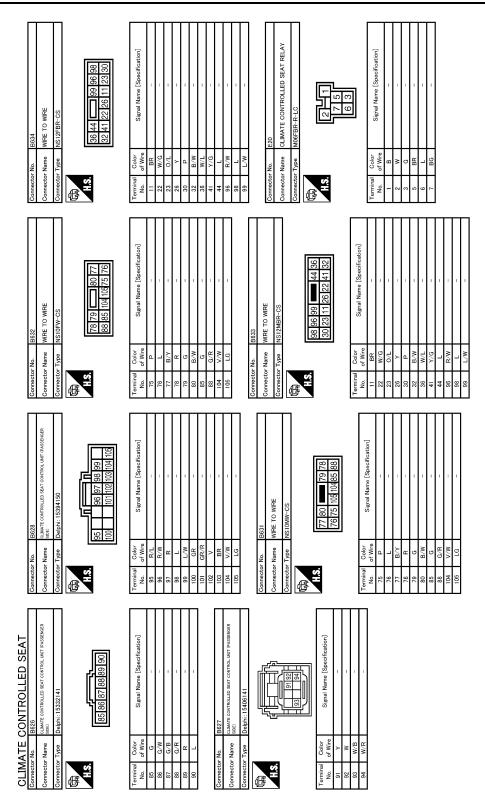
JCJWM1252GE

< ECU DIAGNOSIS INFORMATION >



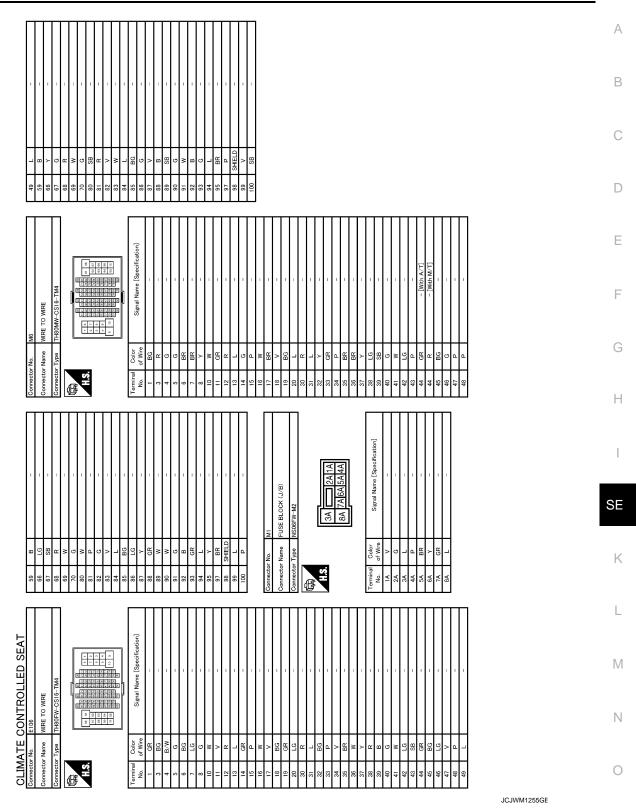
JCJWM1253GE

< ECU DIAGNOSIS INFORMATION >

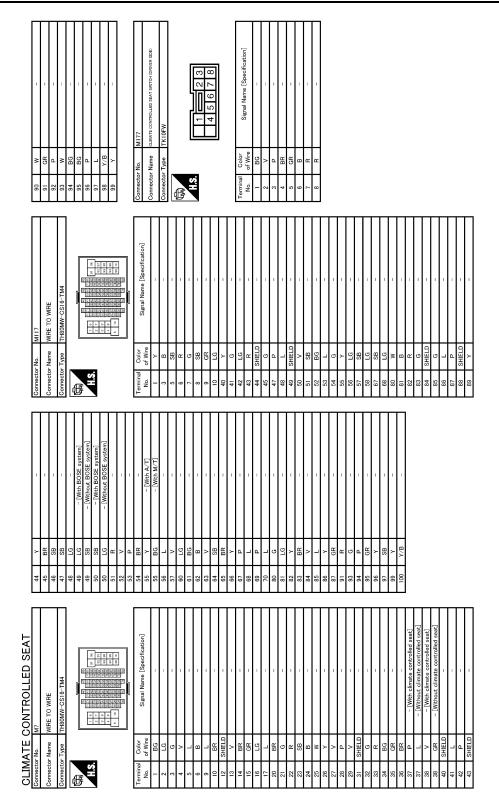


JCJWM1254GE

< ECU DIAGNOSIS INFORMATION >



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JCJWM1256GE

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ail-safe)

- 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 ther- mal electric device and seat cushion thermal electric de- vice 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, 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, 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 in 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

< 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.

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ALL COMPONENTS OF POWER SEAT DO NOT OPERATE < SYMPTOM DIAGNOSIS >	
SYMPTOM DIAGNOSIS	
ALL COMPONENTS OF POWER SEAT DO NOT OPERATE DRIVER SIDE	
DRIVER SIDE : Diagnosis Procedure	INFOID:000000005629965
1. CHECK POWER SUPPLY CIRCUIT AND GROUND CIRCUIT	
Check power supply circuit and ground circuit. Refer to <u>SE-39, "DRIVER SEAT CONTROL UNIT : Diagnosis Procedure"</u> . Is the inspection result normal?	
YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2.CHECK POWER SEAT SWITCH GROUND CIRCUIT	
Check power seat switch ground circuit. Refer to <u>SE-67, "DRIVER SIDE : Diagnosis Procedure"</u> . <u>Is the inspection result normal?</u> YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts. 3. CONFIRM THE OPERATION	
Check the operation again. <u>Is the result normal?</u> YES >> Check intermittent incident. Refer to <u>GI-37. "Intermittent Incident"</u> . NO >> GO TO 1. PASSENGER SIDE	
PASSENGER SIDE : Diagnosis Procedure	INFOID:000000005629966
1. CHECK POWER SUPPLY AND GROUND CIRCUIT	
Check power supply and ground circuit. Refer to <u>SE-39, "PASSENGER SEAT CONTROL UNIT : Diagnosis Procedure"</u> . Is the inspection result normal?	
YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2.CHECK POWER SEAT SWITCH GROUND CIRCUIT	
Check power seat switch ground circuit. Refer to <u>SE-67, "PASSENGER SIDE : Diagnosis Procedure"</u> .	
Is the inspection result normal?	
YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts.	
3. CONFIRM THE OPERATION	
Check the operation again.	
Is the result normal?	
 YES >> Check intermittent incident. Refer to <u>GI-37. "Intermittent Incident"</u>. NO >> GO TO 1. 	

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

< SYMPTOM DIAGNOSIS >	
POWER SEAT SWITCH (PASSENGER SIDE) DOES NOT OPERATE ANY COMPONENTS	A
Diagnosis Procedure	В
1.CHECK POWER SEAT SWITCH GROUND CIRCUIT	D
Check power seat switch ground circuit. Refer to <u>SE-67, "PASSENGER SIDE : Diagnosis Procedure"</u> . Is the inspection result normal?	С
YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2.CONFIRM THE OPERATION	D
Check the operation again. Is the result normal?	E
YES >> Check intermittent incident. Refer to <u>GI-37. "Intermittent Incident"</u> . NO >> GO TO 1.	F
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< SYMPTOM DIAGNOSIS >

SLIDING FUNCTION DOES NOT OPERATE DRIVER SIDE

DRIVER SIDE : Diagnosis Procedure	INFOID:000000005629968
1.CHECK SLIDING MECHANISM	
Check for the following. Mechanism deformation or pinched foreign materials. Interference with other parts because of poor installation. Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2.CHECK SLIDING SWITCH	
Check sliding switch. Refer to <u>SE-49, "DRIVER SIDE : Component Function Check"</u> .	
Is the inspection result normal?	
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".	
Is the inspection result normal?	
YES >> GO TO 4.	
NO >> Repair or replace the malfunctioning parts.	
4.CONFIRM THE OPERATION	
Check the operation again.	
Is the result normal?	
YES >> Check intermittent incident. Refer to <u>GI-37, "Intermittent Incident"</u> .	
NO >> GO TO 1. PASSENGER SIDE	
PASSENGER SIDE : Diagnosis Procedure	INFOID:000000005629969
1. CHECK SLIDING OPERATION	
Check sliding operation.	
Which sliding switch is malfunctioning?	
Both sides>>GO TO 2. Seatback side>>GO TO 4.	
Power seat switch side>>GO TO 5.	
2. CHECK SLIDING MECHANISM	
Check for the following.	
 Mechanism deformation or pinched foreign materials. 	
Interference with other parts because of poor installation.	
Is the inspection result normal?	
YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts.	
3. CHECK SLIDING MOTOR	

Check sliding motor. Refer to <u>SE-93, "PASSENGER SIDE : Component Function Check"</u>. Is the inspection result normal?

SLIDING FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >	
YES >> GO TO 4.	
NO >> Repair or replace the malfunctioning parts.	A
4. CHECK SLIDING SWITCH (SEATBACK)	
Check sliding switch (seatback).	В
Refer to <u>SE-52, "SEATBACK : Component Function Check"</u> .	
Is the inspection result normal?	
YES >> GO TO 6.	С
NO >> Repair or replace the malfunctioning parts.	C
5. CHECK SLIDING SWITCH	
Check sliding switch.	D
Refer to <u>SE-50, "PASSENGER SIDE : Component Function Check"</u> .	
Is the inspection result normal?	
YES >> GO TO 6.	E
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 <u>GI-37, "Intermittent Incident"</u> .	G
NO >> GO TO 1.	G

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RECLINING FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

RECLINING FUNCTION DOES NOT OPERATE DRIVER SIDE

DRIVER SIDE	
DRIVER SIDE : Diagnosis Procedure	INFOID:000000005629970
1.CHECK RECLINING MECHANISM	
 Check for the following. Mechanism deformation or pinched foreign materials. Interference with other parts because of poor installation. Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2.CHECK RECLINING SWITCH 	
Check reclining switch.	
Refer to <u>SE-55, "DRIVER SIDE : Component Function Check"</u> . Is the inspection result normal?	
YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts. 3. CHECK FORWARD SWITCH	
Check forward switch.	
Refer to <u>SE-69, "DRIVER SIDE : Component Function Check"</u> . Is the inspection result normal?	
YES >> GO TO 4.	
NO >> Repair or replace the malfunctioning parts. 4.CHECK RECLINING MOTOR	
Check reclining motor.	
Refer to SE-95, "DRIVER SIDE : Component Function Check".	
Is the inspection result normal?	
YES >> GO TO 5. NO >> Repair or replace the malfunctioning parts.	
5.CONFIRM THE OPERATION	
Check the operation again.	
Is the result normal?	
YES >> Check intermittent incident. Refer to <u>GI-37, "Intermittent Incident"</u> . NO >> GO TO 1.	
PASSENGER SIDE	
PASSENGER SIDE : Diagnosis Procedure	INFOID:000000005629971
1.CHECK RECLINING MECHANISM	
Check for the following.Mechanism deformation or pinched foreign materials.Interference with other parts because of poor installation.	
Is the inspection result normal?	
YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts.	
2. CHECK RECLINING SWITCH	
Check reclining switch.	

Refer to <u>SE-56. "PASSENGER SIDE : Component Function Check"</u>. <u>Is the inspection result normal?</u>

RECLINING FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >	
YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts.	А
3. CHECK FORWARD SWITCH	
Check forward switch. Refer to <u>SE-70, "PASSENGER SIDE : Component Function Check"</u> .	В
Is the inspection result normal?	
YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts.	С
4.CHECK RECLINING MOTOR	
Check reclining motor. Refer to <u>SE-96, "PASSENGER SIDE : Component Function Check"</u> .	D
<u>Is the inspection result normal?</u> YES >> GO TO 5. NO >> Repair or replace the malfunctioning parts.	E
5. CONFIRM THE OPERATION	_
Check the operation again.	———— F
Is the result normal?	
YES >> Check intermittent incident. Refer to <u>GI-37, "Intermittent Incident"</u> . NO >> GO TO 1.	G

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LIFTING FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

LIFTING FUNCTION DOES NOT OPERATE FRONT

FRONT : Diagnosis Procedure

INFOID:000000005629972

1.CHECK LIFTING MECHANISM

Check for the following.

• Mechanism deformation or pinched foreign materials.

• Interference with other parts because of poor installation.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CHECK LIFTING SWITCH (FRONT)

Check lifting switch (front).

Driver side: Refer to <u>SÉ-59, "DRIVER SIDE : Component Function Check"</u>.

• Passenger side: Refer to <u>SE-60, "PASSENGER SIDE : Component Function Check"</u>.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK LIFTING MOTOR (FRONT)

Check lifting motor (front).

- Driver side: Refer to <u>SÉ-97, "DRIVER SIDE : Component Function Check"</u>.
- Passenger side: Refer to <u>SE-98, "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 <u>GI-37, "Intermittent Incident"</u>.

NO >> GO TO 1.

REAR

REAR : Diagnosis Procedure

1.CHECK LIFTING MECHANISM

Check for the following.

• Mechanism deformation or pinched foreign materials.

• Interference with other parts because of poor installation.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK LIFTING SWITCH (REAR)

Check lifting switch (rear).

- Driver side: Refer to <u>SE-63</u>, "DRIVER SIDE : Component Function Check".
- Passenger side: Refer to <u>SE-64, "PASSENGER SIDE : Component Function Check"</u>.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK LIFTING MOTOR (REAR)

Check lifting motor (rear).

INFOID:000000005629973

LIFTING FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >	
 Driver side: Refer to <u>SE-99, "DRIVER SIDE : Component Function Check"</u>. Passenger side: Refer to <u>SE-100, "PASSENGER SIDE : Component Function Check"</u>. 	A
Is the inspection result normal?	A
YES >> GO TO 4.	5
NO >> Repair or replace the malfunctioning parts. 4.CONFIRM THE OPERATION	В
Check the operation again.	
Is the result normal?	С
YES >> Check intermittent incident. Refer to <u>GI-37, "Intermittent Incident"</u> .	
NO >> GO TO 1.	D
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POWER WALK-IN FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

POWER WALK-IN FUNCTION DOES NOT OPERATE DRIVER SIDE

DRIVER SIDE	
DRIVER SIDE : Diagnosis Procedure	INFOID:000000005629974
1. CHECK SEAT SLIDING OPERATION	
Check seat sliding operation.	
Is the inspection result normal?	
YES >> GO TO 2.	
NO >> Refer to <u>SE-202, "DRIVER SIDE : Diagnosis Procedure"</u> .	
2. PERFORM INITIALIZATION PROCEDURE	
1. Perform initialization procedure.	
Refer to <u>SE-9, "SYSTEM INITIALIZATION : Special Repair Requirement"</u> .	
 Check power walk-in function. Refer to <u>SE-12</u>, "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 <u>SE-81, "DRIVER SIDE : Component Function Check"</u> .	
Is the inspection result normal?	
YES >> GO TO 4.	
NO >> Repair or replace the malfunctioning parts.	
4. CHECK SEAT BELT BUCKLE SWITCH	
Check seat belt buckle switch. Refer to <u>SE-73, "DRIVER SIDE : Component Function Check"</u> .	
Is the inspection result normal?	
YES >> GO TO 5.	
NO >> Repair or replace the malfunctioning parts.	
5. CHECK FORWARD SWITCH	
Check forward switch.	
Refer to <u>SE-69, "DRIVER SIDE : Component Function Check"</u> . Is the inspection result normal?	
YES >> GO TO 6.	
NO >> Repair or replace the malfunctioning parts.	
6.CHECK SLIDING LIMIT SWITCH	
Check sliding limit switch. Refer to 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 <u>SE-85, "Component Function Check"</u>	
Is the inspection result normal? YES >> GO TO 8.	
NO >> Repair or replace the malfunctioning parts.	

>> Repair or replace the malfunctioning parts.

8. CHECK SLIDING SENSOR

POWER WALK-IN FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >	
Check sliding sensor. Refer to <u>SE-87, "DRIVER SIDE : Component Function Check"</u> .	Δ
Is the inspection result normal?	А
YES >> GO TO 9. NO >> Repair or replace the malfunctioning parts.	В
9.CONFIRM THE OPERATION	
Check the operation again. Refer to <u>SE-12. "POWER WALK-IN FUNCTION : System Description"</u> .	С
<u>Is the result normal?</u> YES >> Check intermittent incident. Refer to <u>GI-37, "Intermittent Incident"</u> . NO >> Replace driver seat control unit. Refer to <u>SE-259, "Removal and Installation"</u> . PASSENGER SIDE	D
PASSENGER SIDE : Diagnosis Procedure	Е
1. CHECK SEAT SLIDING OPERATION	_
Check seat sliding operation. <u>Is the inspection result normal?</u>	F
YES >> GO TO 2. NO >> Refer to <u>SE-202, "PASSENGER SIDE : Diagnosis Procedure"</u> .	G
2. PERFORM INITIALIZATION PROCEDURE	
 Perform initialization procedure. Refer to <u>SE-9, "SYSTEM INITIALIZATION : Special Repair Requirement"</u>. Check power walk-in function. 	Н
Refer to <u>SE-12, "POWER WALK-IN FUNCTION : System Description"</u> . Is the inspection result normal?	
YES >> Power walk-in function is normal. NO >> GO TO 3. 3. CHECK POWER WALK-IN SWITCH	SE
Check power walk-in switch. Refer to <u>SE-82, "PASSENGER SIDE : Component Function Check"</u> .	K
Is the inspection result normal?	
YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts. 4. CHECK SEAT BELT BUCKLE SWITCH	L
Check seat belt buckle switch.	M
Refer to SE-74, "PASSENGER SIDE : Component Function Check".	
<u>Is the inspection result normal?</u> YES >> GO TO 5. NO >> Repair or replace the malfunctioning parts.	Ν
5. CHECK FORWARD SWITCH	
Check forward switch. Refer to <u>SE-70, "PASSENGER SIDE : Component Function Check"</u> .	0
<u>Is the inspection result normal?</u> YES >> GO TO 6.	Ρ
YES >> GO TO 6. NO >> Repair or replace the malfunctioning parts.	
6. CHECK SLIDING LIMIT SWITCH	
Check sliding limit switch. Refer to <u>SE-78, "PASSENGER SIDE : Component Function Check"</u> .	

Is the inspection result normal?

POWER WALK-IN FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

YES >> GO TO 7.

NO >> Repair or replace the malfunctioning parts.

7. CHECK PASSENGER SIDE DOOR SWITCH

Check passenger side door switch.

Refer to SE-85, "Component Function Check"

Is the inspection result normal?

YES >> GO TO 8.

NO >> Repair or replace the malfunctioning parts.

8.CHECK SLIDING SENSOR

Check sliding sensor.

Refer to SE-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 <u>SE-12, "POWER WALK-IN FUNCTION : System Description"</u>.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-37, "Intermittent Incident".

NO >> Replace passenger seat control unit. Refer to <u>SE-260, "Removal and Installation"</u>.

HEATED SEAT DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >	
HEATED SEAT DOES NOT OPERATE	^
BOTH SIDES	A
BOTH SIDES : Diagnosis Procedure	976 B
1.CHECK HEATED SEAT SWITCH POWER SUPPLY	
Check heated seat switch power supply. Refer to <u>SE-43, "HEATED SEAT SWITCH : Diagnosis Procedure"</u> .	С
Is the inspection result normal?	
YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts.	D
2.CHECK HEATED SEAT RELAY	
Check heated seat relay. Refer to <u>SE-105, "Component Function Check"</u> .	E
Is the inspection result normal?	_
YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts.	F
3. CHECK HEATED SEAT CONTROL UNIT POWER SUPPLY AND GROUND CIRCUIT	
Check heated seat switch power supply and ground circuit. Refer to <u>SE-41, "HEATED SEAT CONTROL UNIT : Diagnosis Procedure"</u> .	G
Is the inspection result normal?	Н
YES >> GO TO 4.	
NO >> Repair or replace the malfunctioning parts.	
4.CONFIRM THE OPERATION	
Confirm the operation again.	
<u>Is the inspection result normal?</u> YES >> Check intermittent incident. Refer to <u>GI-37, "Intermittent Incident"</u> .	SE
NO >> GO TO 1.	
DRIVER SIDE	V
DRIVER SIDE : Diagnosis Procedure	977
1.CHECK HEATED SEAT SWITCH POWER SUPPLY	L
Check heated seat switch power supply. Refer to SE-43, "HEATED SEAT SWITCH : Diagnosis Procedure".	_
Is the inspection result normal?	M
YES >> GO TO 2.	
NO >> Repair or replace the malfunctioning parts.	
2. CHECK HEATED SEAT CONTROL UNIT POWER SUPPLY AND GROUND CIRCUIT	N
Check heated seat switch power supply and ground circuit. Refer to <u>SE-41, "HEATED SEAT CONTROL UNIT : Diagnosis Procedure"</u> .	0
Is the inspection result normal?	
YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts.	_
3. CHECK HEATED SEAT SWITCH	Р
Check heated seat switch.	
Refer to <u>SE-101, "DRIVER SIDE : Component Function Check"</u> .	
Is the inspection result normal?	
YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts.	

HEATED SEAT DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

4.CHECK SEAT CUSHION HEATER

Check seat cushion heater.

Refer to <u>SE-112</u>, "DRIVER SIDE : 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 <u>GI-37, "Intermittent Incident"</u>.

NO >> GO TO 1.

PASSENGER SIDE

PASSENGER SIDE : Diagnosis Procedure

1.CHECK HEATED SEAT SWITCH POWER SUPPLY

Check heated seat switch power supply. Refer to <u>SE-43, "HEATED SEAT SWITCH : Diagnosis Procedure"</u>.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

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

Check heated seat switch power supply and ground circuit. Refer to SE-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 <u>SE-102, "PASSENGER SIDE : Component Function Check"</u>.

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.CHECK SEAT CUSHION HEATER

Check seat cushion heater.

Refer to <u>SE-113. "PASSENGER SIDE : Component Function Check"</u>.

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to <u>GI-37, "Intermittent Incident"</u>.
- NO >> GO TO 1.

INFOID:000000005629978

SEATBACK HEATER ONLY DOES NOT OPERATE	
< SYMPTOM DIAGNOSIS >	
SEATBACK HEATER ONLY DOES NOT OPERATE DRIVER SIDE	A
DRIVER SIDE : Diagnosis Procedure	В
1.CHECK SEATBACK HEATER	
Check seatback heater. Refer to <u>SE-116, "DRIVER SIDE : Component Function Check"</u> . Is the inspection result normal?	С
YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2.CONFIRM THE OPERATION	D
Confirm the operation again.	E
<u>Is the inspection result normal?</u> YES >> Check intermittent incident. Refer to <u>GI-37, "Intermittent Incident"</u> . NO >> GO TO 1. PASSENGER SIDE	F
PASSENGER SIDE : Diagnosis Procedure	G
1.CHECK SEATBACK HEATER	
Check seatback heater. Refer to <u>SE-116, "PASSENGER SIDE : Component Function Check"</u> .	Н
<u>Is the inspection result normal?</u> YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts.	I
2.CONFIRM THE OPERATION	SE
Confirm the operation again. <u>Is the inspection result normal?</u>	
YES >> Check intermittent incident. Refer to <u>GI-37, "Intermittent Incident"</u> . NO >> GO TO 1.	K

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CANNOT ADJUST HEATED SEAT TEMPERATURE

< SYMPTOM DIAGNOSIS >

CANNOT ADJUST HEATED SEAT TEMPERATURE DRIVER SIDE

INFOID:000000005629981

1.CHECK HEATED SEAT SWITCH

Check heated seat switch. Refer to <u>SE-101, "DRIVER SIDE : Component Function Check"</u>.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK HEAT SENSOR

Check heat sensor. Refer to <u>SE-107, "DRIVER SIDE : Description"</u>.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to <u>GI-37, "Intermittent Incident"</u>.

NO >> Replace heated seat control unit. Refer to <u>SE-261, "Removal and Installation"</u>.

PASSENGER SIDE

PASSENGER SIDE : Diagnosis Procedure

1.CHECK HEATED SEAT SWITCH

Check heated seat switch.

Refer to <u>SE-102</u>, "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 <u>SE-109</u>, "PASSENGER SIDE : Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to <u>GI-37, "Intermittent Incident"</u>.

NO >> Replace heated seat control unit. Refer to <u>SE-261, "Removal and Installation"</u>.

INFOID:000000005629982

HEATED SEAT SWITCH INDICATOR DOES NOT TURN ON

HEATED SEAT SWITCH INDICATOR DOES NOT TURN ON	
< SYMPTOM DIAGNOSIS > HEATED SEAT SWITCH INDICATOR DOES NOT TURN ON DRIVER SIDE	ļ
DRIVER SIDE : Diagnosis Procedure	
1. CHECK HEATED SEAT SWITCH INDICATOR	E
Check heated seat switch indicator. Refer to <u>SE-118, "DRIVER SIDE : Component Function Check"</u> . <u>Is the inspection result normal?</u> YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2. CONFIRM THE OPERATION	
Confirm the operation again. <u>Is the inspection result normal?</u> YES >> Check intermittent incident. Refer to <u>GI-37, "Intermittent Incident"</u> . NO >> GO TO 1. PASSENGER SIDE	E
PASSENGER SIDE : Diagnosis Procedure	C
1.CHECK HEATED SEAT SWITCH INDICATOR	
Check heated seat switch indicator. Refer to <u>SE-118, "PASSENGER SIDE : Component Function Check"</u> . <u>Is the inspection result normal?</u>	ŀ
YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts.	
2.CONFIRM THE OPERATION	SI
Confirm the operation again. <u>Is the inspection result normal?</u> YES >> Check intermittent incident. Refer to <u>GI-37, "Intermittent Incident"</u> . NO >> GO TO 1.	ŀ
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CLIMATE CONTROLLED SEAT DOES NOT OPERATE.

< SYMPTOM DIAGNOSIS >

CLIMATE CONTROLLED SEAT DOES NOT OPERATE. DRIVER SIDE

DRIVER SIDE : Diagnosis Procedure

INFOID:000000005629985

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?

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-37, "Intermittent Incident".

NO >> GO TO 1.

seatback

1.CHECK CLIMATE CONTROLLED SEATBACK BLOWER MOTOR

Check climate controlled seatback blower motor. Refer to <u>SE-131</u>, "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-37, "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-37, "Intermittent Incident".

NO >> GO TO 1.

Revision: 2009 Novemver

CLIMATE CONTROLLED SEAT DOES NOT OPERATE.

< SYMPTOM DIAGNOSIS >	
PASSENGER SIDE	А
PASSENGER SIDE : Diagnosis Procedure	
Both sides	В
1. CHECK CLIMATE CONTROLLED SEAT CONTROL UNIT POWER SUPPLY AND GROUND CIRCUIT	
Check climate controlled seat control unit power supply circuit.	C
Refer to <u>SE-44, "CLIMATE CONTROLLED SEAT CONTROL UNIT : Diagnosis Procedure"</u> . Is the inspection result normal?	
YES >> GO TO 2.	D
NO >> Repair or replace the malfunctioning parts. 2.CHECK CLIMATE CONTROLLED SEAT SWITCH	
Check climate controlled seat switch.	E
Refer to <u>SE-120, "Component Function Check"</u> .	
Is the inspection result normal? YES >> GO TO 3.	F
NO >> Repair or replace the malfunctioning parts.	
3. CONFIRM THE OPERATION	G
Confirm the operation again.	
Is the inspection result normal? YES >> Check intermittent incident. Refer to GI-37, "Intermittent Incident".	F
NO $>>$ GO TO 1.	I
Seatback	
1. CHECK CLIMATE CONTROLLED SEATBACK BLOWER MOTOR	I
Check climate controlled seatback blower motor.	
Refer to <u>SE-131, "Component Function Check"</u>	SE
<u>Is the inspection result normal?</u> YES >> GO TO 2.	
NO >> Repair or replace the malfunctioning parts.	k
2.CONFIRM THE OPERATION	
Confirm the operation again.	L
Is the inspection result normal? YES >> Check intermittent incident. Refer to GI-37, "Intermittent Incident".	
NO >> GO TO 1.	N
Seat cushion	
1. CHECK CLIMATE CONTROLLED SEAT CUSHION BLOWER MOTOR	Ν
Check climate controlled seat cushion blower motor.	
Refer to <u>SE-134, "Component Function Check"</u> . Is the inspection result normal?	С
YES >> GO TO 2.	
NO >> Repair or replace the malfunctioning parts.	F
Confirm the operation again. <u>Is the inspection result normal?</u>	
YES >> Check intermittent incident. Refer to <u>GI-37, "Intermittent Incident"</u> .	
NO $>>$ GO TO 1.	

TEMPERATURE ADJUSTMENT IS IMPOSSIBLE

< SYMPTOM DIAGNOSIS >

TEMPERATURE ADJUSTMENT IS IMPOSSIBLE SEAT CUSHION BLOWER MOTOR

SEAT CUSHION BLOWER MOTOR : Description

INFOID:000000005629987

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:000000005629988

1.CHECK CLIMATE CONTROLLED SEATBACK BLOWER FILTER

Check climate controlled seatback blower filter. Refer to <u>SE-139</u>, "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 <u>SE-120, "Component Function Check"</u>.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

 $\mathbf{3}$.check climate controlled seatback blower motor

Check climate controlled seatback blower motor. Refer to <u>SE-131</u>, "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 <u>GI-37, "Intermittent Incident"</u>.

NO >> GO TO 1.

SEAT CUSHION BLOWER MOTOR

SEAT CUSHION BLOWER MOTOR : Description

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:000000005629990

INFOID:00000000562998

1.CHECK CLIMATE CONTROLLED SEAT CUSHION BLOWER FILTER

Check climate controlled seat cushion blower filter. Refer to <u>SE-139, "SEAT CUSHION BLOWER MOTOR : Diagnosis Procedure"</u>.

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 <u>SE-120, "Component Function Check"</u> .	А
Is the inspection result normal?	
YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts.	В
${\bf 3.}$ CHECK CLIMATE CONTROLLED SEAT CUSHION BLOWER MOTOR	
Check climate controlled seat cushion blower motor. Refer to <u>SE-134, "Component Function Check"</u> .	С
Is the inspection result normal?	
YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts.	D
4.CONFIRM THE OPERATION	
Confirm the operation again.	Ε
Is the inspection result normal?	
 YES >> Check intermittent incident. Refer to <u>GI-37, "Intermittent Incident"</u>. NO >> GO TO 1. 	F
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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:000000005629991

1.CHECK CLIMATE CONTROLLED SEAT SWITCH

Check climate controlled seat switch. Refer to <u>SE-120, "Component Function Check"</u>.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-37. "Intermittent Incident".

NO >> GO TO 1.

CLIMATE CONTROLLED SEAT ACTIVATES ONCE BUT STOPS IMMEDIATELY < SYMPTOM DIAGNOSIS > CLIMATE CONTROLLED SEAT ACTIVATES ONCE BUT STOPS IMMEDI-А ATELY SEATBACK BLOWER MOTOR В SEATBACK BLOWER MOTOR : Description INFOID:000000005629992 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 INFOID:000000005629993 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. F 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? Н YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts. ${ m 3.}$ CHECK SEATBACK THERMAL ELECTRIC DEVICE Check seatback thermal electric device. Refer to SE-123, "Component Function Check". Is the inspection result normal? SE YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts. ${f 4.}$ CHECK CLIMATE CONTROLLED SEATBACK BLOWER MOTOR K 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. M 5.CONFIRM THE OPERATION Confirm the operation again. Is the inspection result normal? Ν YES >> Check intermittent incident. Refer to GI-37, "Intermittent Incident". NO >> GO TO 1. SEAT CUSHION BLOWER MOTOR SEAT CUSHION BLOWER MOTOR : Description INFOID:000000005629994 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:000000005629995 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 <u>SE-139, "SEAT CUSHION BLOWER MOTOR : Diagnosis Procedure"</u>.

<u>Is the inspection result normal?</u> YES >> GO TO 2.

YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts.

2.CHECK SEAT CUSHION THERMAL ELECTRIC DEVICE SENSOR

Check seat cushion thermal electric device sensor. Refer to <u>SE-129</u>, "Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK SEAT CUSHION THERMAL ELECTRIC DEVICE

Check seat cushion thermal electric device. Refer to <u>SE-127</u>, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.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 5.

NO >> Repair or replace the malfunctioning parts.

5.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to <u>GI-37, "Intermittent Incident"</u>.

NO >> GO TO 1.

SEAT SWITCH INDICATOR IS NOT ILLUMINATED IN HEAT OR COOL POSI-TION

< SYMPTOM DIAGNOSIS >	
SEAT SWITCH INDICATOR IS NOT ILLUMINATED IN HEASITION	AT OR COOL PO-
Diagnosis Procedure	INFOID:00000005629996
1. CHECK CLIMATE CONTROLLED SEAT SWITCH INDICATOR	
Check climate controlled seat indicator. Refer to <u>SE-137, "Component Function Check"</u> .	

Is the inspection result normal?

YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to <u>GI-37. "Intermittent Incident"</u>.

NO >> GO TO 1.

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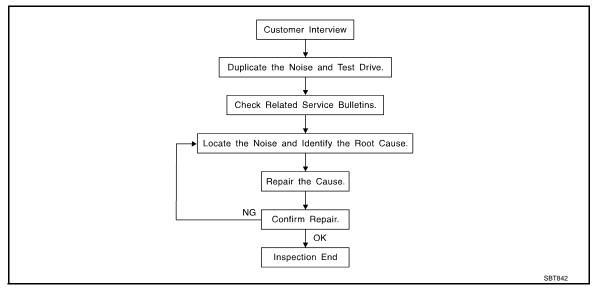
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< SYMPTOM DIAGNOSIS >

SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow



CUSTOMER INTERVIEW

Interview the customer if possible, to determine the conditions that exist when the noise occurs. Use the Diagnostic Worksheet during the interview to document the facts and conditions when the noise occurs and any of customer's comments; refer to <u>SE-228</u>, "Diagnostic Worksheet". This information is necessary to duplicate the conditions that exist when the noise occurs.

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

DUPLICATE THE NOISE AND TEST DRIVE

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

INFOID:000000005629997

< SYMPTOM DIAGNOSIS >

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

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

CHECK RELATED SERVICE BULLETINS

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

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

LOCATE THE NOISE AND IDENTIFY THE ROOT CAUSE

- 1. Narrow down the noise to a general area. To help pinpoint the source of the noise, use a listening tool (Chassis ear: J-39570, Engine ear and mechanics stethoscope).
- 2. Narrow down the noise to a more specific area and identify the cause of the noise by:
- Removing the components in the area that is are suspected to be the cause of the noise.
 Do not use too much force when removing clips and fasteners, otherwise clips and fastener can be broken or lost during the repair, resulting in the creation of new noise.
- Tapping or pushing/pulling the component that is are suspected to be the cause of the noise.
 Do not tap or push/pull the component with excessive force, otherwise the noise will be eliminated only temporarily.
- Feeling for a vibration by hand by touching the component(s) that is are suspected to be the cause of the noise.
- Placing a piece of paper between components that are suspected to be the cause of the noise.
- Looking for loose components and contact marks. Refer to SE-226, "Inspection Procedure".

REPAIR THE CAUSE

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

CAUTION:

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

М Always check with the Parts Department for the latest parts information. The following materials are contained in the Nissan Squeak and Rattle Kit (J-43980). Each item can be ordered separately as needed. URETHANE PADS [1.5 mm (0.059 in) thick] Ν Insulates connectors, harness, etc. 76268-9E005: 100 \times 135 mm (3.94 \times 5.31 in)/76884-71L01: 60 \times 85 mm (2.36 \times 3.35 in)/76884-71L02:15 \times 25 mm (0.59 \times 0.98 in) INSULATOR (Foam blocks) Insulates components from contact. Can be used to fill space behind a panel. 73982-9E000: 45 mm (1.77 in) thick, 50×50 mm (1.97 \times 1.97 in)/73982-50Y00: 10 mm (0.39 in) thick, 50 \times 50 mm (1.97 \times 1.97 in) Ρ INSULATOR (Light foam block) 80845-71L00: 30 mm (1.18 in) thick, 30×50 mm (1.18 \times 1.97in) FELT CLOTHTAPE Used to insulate where movement does not occur. Ideal for instrument panel applications. 68370-4B000: 15 × 25 mm (0.59 × 0.98 in) pad/68239-13E00: 5 mm (0.20 in) wide tape roll The following materials, not found in the kit, can also be used to repair squeaks and rattles. UHMW (TEFLON) TAPE

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< SYMPTOM DIAGNOSIS >

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

CONFIRM THE REPAIR

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

Inspection Procedure

INFOID:000000005629998

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

INSTRUMENT PANEL

Most incidents are caused by contact and movement between:

- 1. The cluster lid A and instrument panel
- 2. Acrylic lens and combination meter housing
- 3. Instrument panel to front pillar garnish
- 4. Instrument panel to windshield
- 5. Instrument panel mounting pins
- 6. Wiring harnesses behind the combination meter
- 7. A/C defroster duct and duct joint

These incidents can usually be located by tapping or moving the components to duplicate the noise or by pressing on the components while driving to stop the noise. Most of these incidents can be repaired by applying felt cloth tape or silicon spray (in hard to reach areas). Urethane pads can be used to insulate wiring harness.

CAUTION:

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

CENTER CONSOLE

Components to pay attention to include:

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

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

DOORS

Pay attention to the following:

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

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

TRUNK

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

- 1. Trunk lid dumpers out of adjustment
- 2. Trunk lid striker out of adjustment
- 3. The trunk lid torsion bars knocking together
- 4. A loose license plate or bracket

< SYMPTOM DIAGNOSIS >
Most of these incidents can be repaired by adjusting, securing or insulating the item(s) or component(s) caus- ng the noise.
SUNROOF/HEADLINING
Noises in the sunroof/headlining area can often be traced to one of the following:
1. Sunroof lid, rail, linkage or seals making a rattle or light knocking noise
2. Sunvisor shaft shaking in the holder
3. Front or rear windshield touching headlining and squeaking
Again, pressing on the components to stop the noise while duplicating the conditions can isolate most of these incidents. Repairs usually consist of insulating with felt cloth tape.
SEATS
When isolating seat noise it's important to note the position the seats in and the load placed on the seat when the noise occurs. These conditions should be duplicated when verifying and isolating the cause of the noise. Cause of seat noise include:
1. Headrest rods and holder
2. A squeak between the seat pad cushion and frame
3. The rear seatback lock and bracket
These noises can be isolated by moving or pressing on the suspected components while duplicating the con-
ditions under which the noise occurs. Most of these incidents can be repaired by repositioning the component or applying urethane tape to the contact area.
JNDERHOOD
Some interior noise may be caused by components under the hood or on the engine wall. The noise is then transmitted into the passenger compartment. Causes of transmitted underhood noise include:
1. Any component mounted to the engine wall
Components that pass through the engine wall
3. Engine wall mounts and connectors
4. Loose radiator mounting pins
5. Hood bumpers out of adjustment
6. Hood striker out of adjustment
These noises can be difficult to isolate since they cannot be reached from the interior of the vehicle. The best method is to secure, move or insulate one component at a time and test drive the vehicle. Also, engine RPM or load can be changed to isolate the noise. Repairs can usually be made by moving, adjusting, securing, or insulate the noise.
insulating the component causing the noise.

< SYMPTOM DIAGNOSIS >

Diagnostic Worksheet



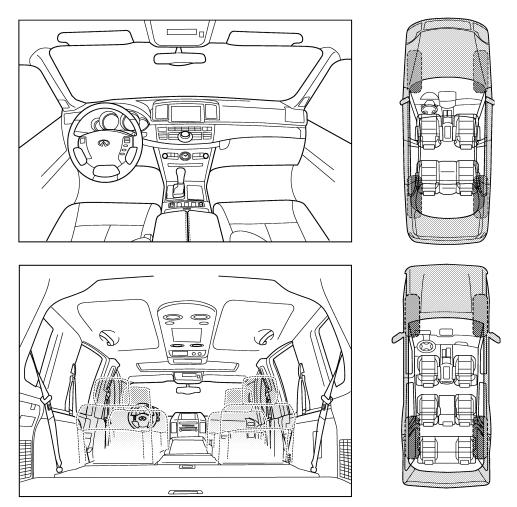
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

Dear Infiniti Customer:

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

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

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



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

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INFOID:000000005629999

< SYMPTOM DIAGNOSIS >

II. WHEN DOES IT OCCUR? (please check the boxes that apply) anytime after sitting out in the rain 1st time in the morning when it is raining or wet only when it is cold outside dry or dusty conditions only when it is hot outside other: III. WHEN DRIVING: IV. WHAT TYPE OF NOISE through driveways squeak (like tennis shoes on a clean floor) over rough roads creak (like walking on an old wooden floor) only aboutmph knock (like a knock at the door) on acceleration tick (like a clock second hand) coming to a stop thump (heavy, muffled knock noise) on turns: left, right or either (circle) buzz (like a bumble bee) with passengers or cargo miles or minutes	
anytime after sitting out in the rain 1st time in the morning when it is raining or wet only when it is cold outside dry or dusty conditions only when it is hot outside other: I. WHEN DRIVING: IV. WHAT TYPE OF NOISE through driveways squeak (like tennis shoes on a clean floor) over rough roads creak (like walking on an old wooden floor) over speed bumps rattle (like shaking a baby rattle) only about mph knock (like a knock at the door) on acceleration tick (like a clock second hand) coming to a stop thump (heavy, muffled knock noise) on turns: left, right or either (circle) buzz (like a bumble bee) with passengers or cargo buzz (like a bumble bee)	
1 st time in the morning when it is raining or wet only when it is cold outside dry or dusty conditions only when it is hot outside other: III. WHEN DRIVING: IV. WHAT TYPE OF NOISE through driveways squeak (like tennis shoes on a clean floor) over rough roads creak (like walking on an old wooden floor) over speed bumps rattle (like shaking a baby rattle) only about mph knock (like a knock at the door) on acceleration tick (like a clock second hand) on turns: left, right or either (circle) buzz (like a bumble bee) with passengers or cargo buzz (like a bumble bee)	
III. WHEN DRIVING: IV. WHAT TYPE OF NOISE	
over rough roads creak (like walking on an old wooden floor) over speed bumps rattle (like shaking a baby rattle) only about mph knock (like a knock at the door) on acceleration tick (like a clock second hand) coming to a stop thump (heavy, muffled knock noise) on turns: left, right or either (circle) buzz (like a bumble bee) with passengers or cargo other:	
 only about mph on acceleration coming to a stop on turns: left, right or either (circle) with passengers or cargo other: 	
 on turns: left, right or either (circle) buzz (like a bumble bee) with passengers or cargo other: 	
TO BE COMPLETED BY DEALERSHIP PERSONNEL Test Drive Notes: YES NO Initials of perso	
Vehicle test driven with customer Image: Constant of the sector of t	
VIN: Customer Name: W.O.# Date:	
This form must be attached to Work Order	

< PRECAUTION >

PRECAUTION PRECAUTIONS

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

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

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which 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

INFOID:000000005630001

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

INFOID:000000005630003

INFOID:000000005630002

- 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.

PRECAUTIONS

< PRECAUTION >

- 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 preven-А tion measures.

Precaution for Work

- INFOID:000000005630004 В 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. D • 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. Ε - 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.
- F - 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.

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< PREPARATION >

PREPARATION PREPARATION

Special Service Tool

INFOID:000000005630005

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

(Tool number Kent-Moore No.) Tool name	Description
(J39570) Chassis ear	SIIA0993E	Locates the noise
(J43980) NISSAN Squeak and Rattle Kit	SIIA0994E	Repairs the cause of noise
Commercial Service T	ool	INFOID:000000005630006
	Tool name	Description
Engine ear	SIIA0995E	Locates the noise
	B M	

Hook and pick tool

JMKIA3050ZZ

JMJIA0490ZZ

Removes the snap pins

< PREPARATION > CLIP LIST

Clip List

А

INFOID:000000005874510

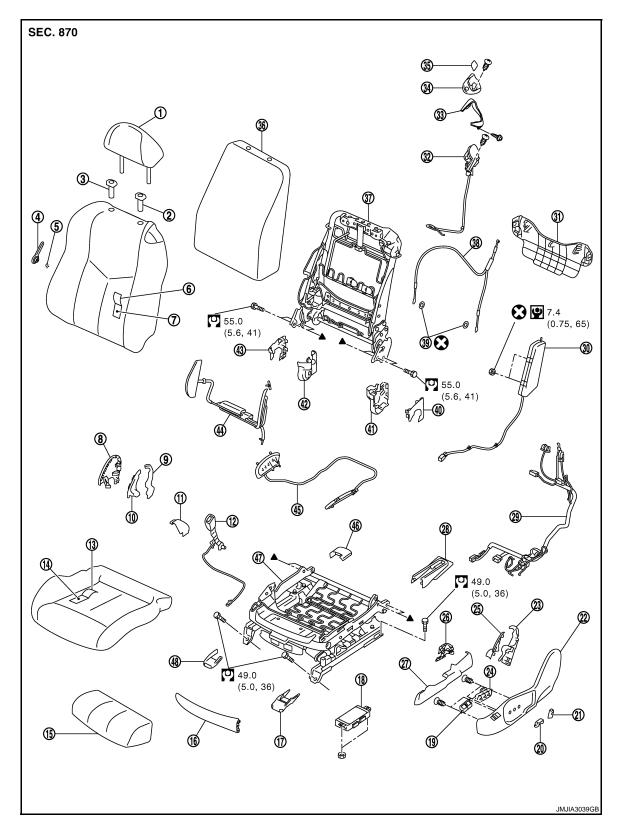
[]			<u>г</u>	В
Shapes	Removal & Installation	Shapes	Removal & Installation	
T 7 7 7	Removal: Remove by bending up with flat-bladed screwdrivers or clip remover.	Clip A Clip B	Removal: Finisher Clip A	C
Le bel		Clip A Clip B (Grommet)	Removal: Flat-bladed screwdriver Body	F
0 9	Removal: Remove with a clip remover. Removal: Push center pin to catching position. (Do not remove center pin by hitting it.) Push		Clip A Clip A Clip A Clip B (Grommet) Removal: Holder portion of clip must be spread out to remove rod.	G
	Push			H
	Removal: Remove by bending up with flat-bladed screwdrivers or clip remover.		 Removal: 1. Screw out with a Phillips screwdriver. 2. Remove female portion with flat-bladed screwdriver. 	SE
Ŷ	Removal:		Removal: Installation: Rotate 45° to remove.	M
	Removal:		Removal:	O

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< REMOVAL AND INSTALLATION > REMOVAL AND INSTALLATION FRONT SEAT

Exploded View

DRIVER'S SEAT



INFOID:000000005630007

< REMOVAL AND INSTALLATION >

1.	Headrest	2.	Headrest holder (locked)	3.	Headrest holder (free)	А
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)	В
10	. Seat cushion inner finisher inside (front)	11.	Seat slide inner finisher	12.	Seat belt buckle	D
13	. Seat cushion trim	14.	Seat cushion pad	15.	Seat cushion pad (front)	0
16	. Seat cushion front finisher	17.	Front outer slide cover	18.	Seat control unit	С
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	D
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	E
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	F
40	. Reclining device outer cover (out- side)	41.	Reclining device outer cover (inside)	42.	Reclining device inner cover (inside)	
43	. Reclining device inner cover (out- side)	44.	Seatback side support bag and unit	45.	Seat cushion side support bag	G
46	. Rear inner slide cover	47.	Seat cushion frame	48.	Front inner slide cover	
Re	fer to GI-4, "Components" for symbols	in the	figure.			Н

DRIVER'S SEAT WITH HEADREST SPEAKER

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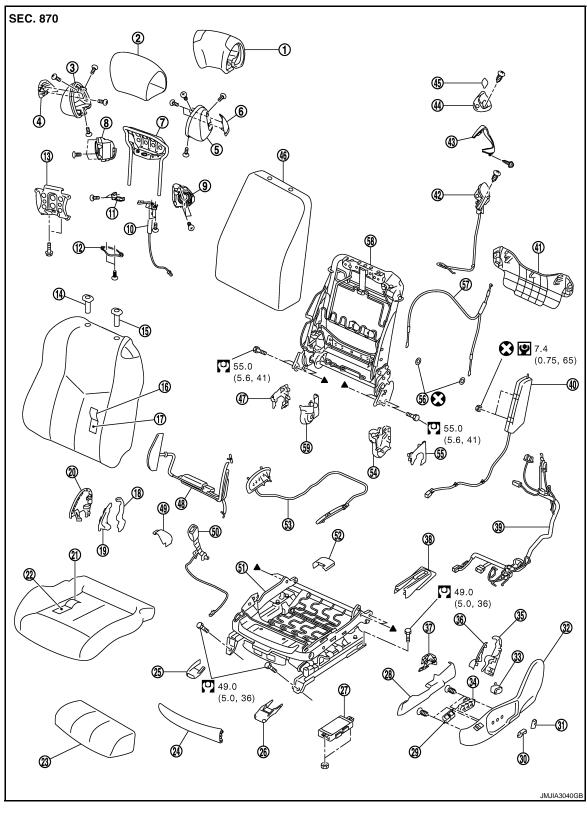
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< REMOVAL AND INSTALLATION >



- 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)

< REMOVAL AND INSTALLATION >

16.	Seatback trim	17.	Seatback pad	18.	Seat cushion inner finisher inside (rear)	А
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	В
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	С
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	D
40.	Side air bag module	41.	Seatback lower panel	42.	Walk-in lever	D
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 (out- side)	48.	Seatback side support bag and unit	Е
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 (out- side)	56.	Push nut	57.	Reclining device wire	Г
58.	Seatback frame	59.	Reclining device inner cover (inside)			
Refe	er to <u>GI-4, "Components"</u> for symbols	in the	figure.			G
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DRIVER'S SEAT WITH HEADREST SPEAKER AND AIR CONDITIONER

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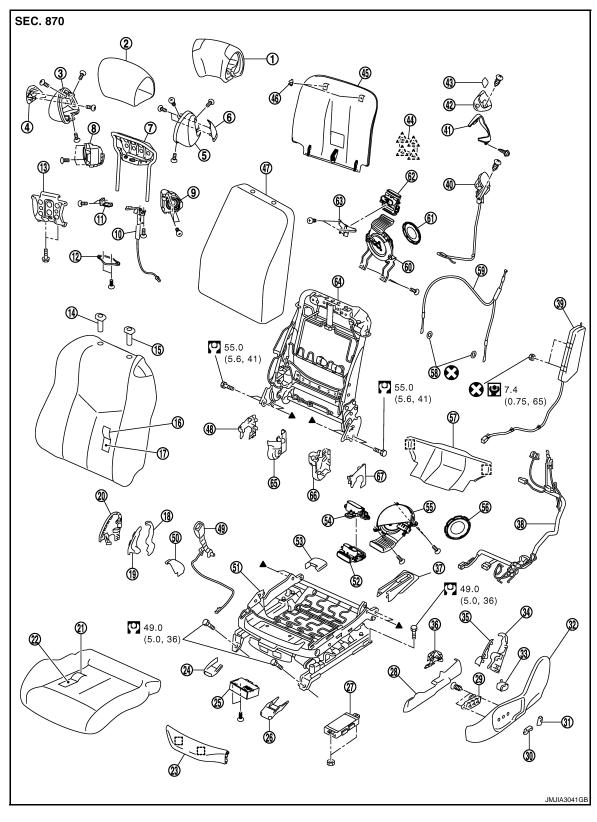
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< REMOVAL AND INSTALLATION >



- 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)

< REMOVAL AND INSTALLATION >

16.	Seatback trim	17.	Seatback pad	18.	Seat cushion inner finisher inside (rear)	А
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	В
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	С
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	D
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 (out- side)	E
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	F
55.	Seat cushion blower unit	56.	Seat cushion A/C filter	57.	Seatback lower panel	I
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	G
64.	Seatback frame	65.	Reclining device inner cover (inside)	66.	Reclining device outer cover (inside)	
67.	Reclining device outer cover (out- side)					Н
Refe	er to <u>GI-4, "Components"</u> for symbols i	in the	figure.			
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PASSENGER'S SEAT

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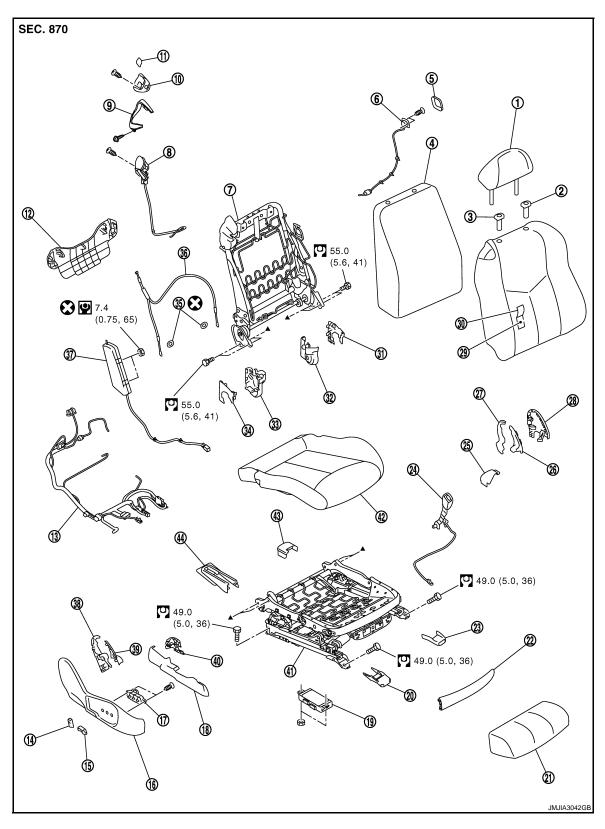
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< REMOVAL AND INSTALLATION >



- 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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< 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	А
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	В
31.	Reclining device inner cover (out- side)	32.	Reclining device inner cover (inside)	33.	Reclining device outer cover (inside)	
34.	Reclining device outer cover (out- side)	35.	Push nut	36.	Reclining device wire	С
37.	Side air bag module	38.	Seat cushion outer finisher inside (rear)	39.	Seat cushion outer finisher inside (front)	D
40.	Seat slide outer finisher (inside)	41.	Seat cushion frame	42.	Seat cushion trim & pad	D
43.	Rear inner slide cover	44.	Rear outer slide cover			
Refe	er to <u>GI-4, "Components"</u> for symbols i	n the	figure.			Е
PSSE	NGER'S SEAT WITH HEAD	RE	ST SPEAKER			L

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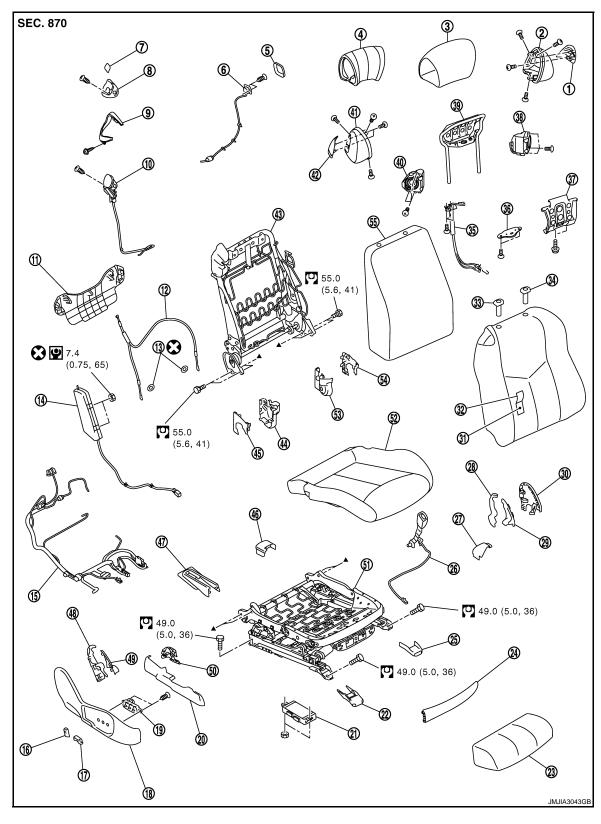
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< REMOVAL AND INSTALLATION >



- 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



< REMOVAL AND INSTALLATION >

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 (out- side)
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 (out- side)
55.	Seatback silencer				
Ref	er to GI-4, "Components" for symbols	in the	figure.		

PASSENGER'S SEAT WITH HEADREST SPEAKER AND AIR CONDITIONER

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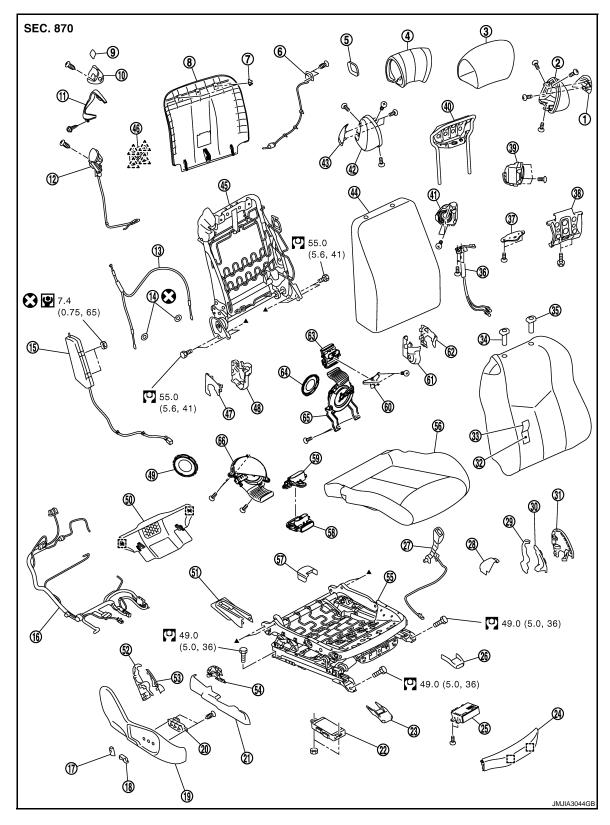
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< REMOVAL AND INSTALLATION >



- 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 (out- side)	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 (out- side)	63.	Seatback thermal electric device
64.	Seatback A/C filter	65.	Seatback blower unit	66.	Seat cushion blower unit
Refer to <u>GI-4, "Components"</u> for symbols in the figure.					

Removal and Installation

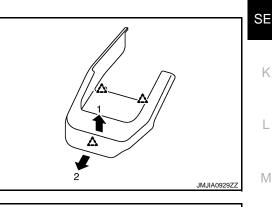
REMOVAL

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.

:Pawl



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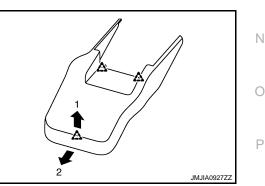
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- b. Front inner slide cover
 - Slide the seat to the rearmost position.
 - Pull up the front edge of the front slide cover to release the pawls.
 - Slide the front slide cover forward to release the pawls.

2 : Pawl

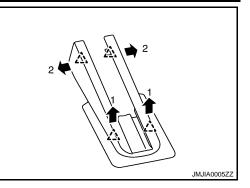


- 2. Remove the mounting bolts on the front side of the front seat.
- 3. Remove the rear slide cover.

< 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.

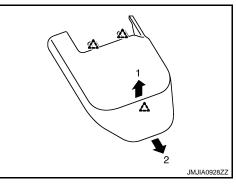
2 :Pawl





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

♪ : Pawl



- 4. Remove the mounting bolts on the rear side of the front seat.
- 5. 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 NEG-</u> <u>ATIVE TERMINAL : Special Repair Requirement</u>". (without automatic drive positioner models) Refer to <u>SE-9</u>, "<u>ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Require-</u> <u>ment</u>".

Disassembly and Assembly

INFOID:000000005630009

SEATBACK

Disassembly

1. Remove the seat cushion outer finisher.

< REMOVAL AND INSTALLATION >

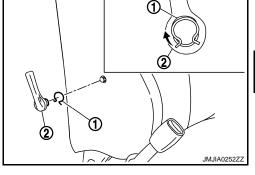
- · Remove the metal clips, clips and pawls, and then pull out seat cushion outer finisher.
 - () : Clip : Metal clip
 - 🕂 : Pawl
- Disconnect the seat control switch, lumbar support switch (except for driver side seat with air conditioner) and side support switch (with side support seat only) harness connector.
- Remove the seat cushion outer finisher inside (front, rear).
- Remove the seat cushion inner finisher.
 - Remove the seat cushion inner finisher inside (front, rear) by releasing the metal clip and pull it up together with the cover.
 - Remove the seat cushion inner finisher inside (front, rear) from the seat cushion inner finisher by releasing the pawls.



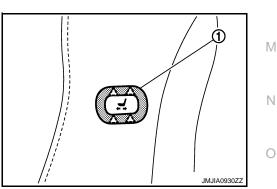
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3. Remove the lumbar support lever knob. (with manual lumbar support seat only.) Pull snap ring (1) upward, and remove lumbar support lever

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

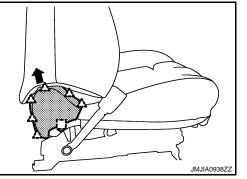


Remove the seatback trim and seatback pad. • Remove the pawls, and then pull out slide switch escutcheon (1) (passenger's seat only).



Remove seatback board.

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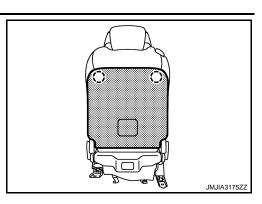
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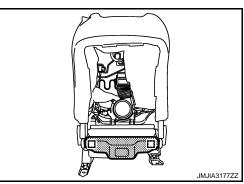
: Pawl

< REMOVAL AND INSTALLATION >

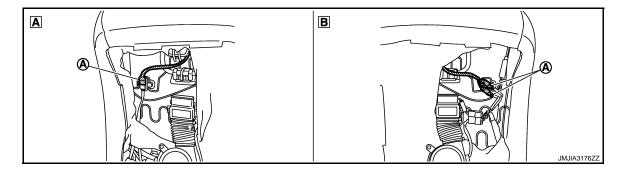
(_) : Clip



- Remove the seatback lower panel.
 - : Metal clip

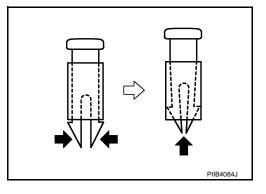


• Disconnect headrest speaker harness connector (A). (except seat without headrest speaker.)



- (A) : Driver seat
- (B) : Passenger seat
- Remove headrest.
- Remove headrest holders. CAUTION:

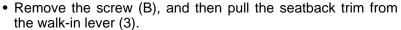
Before installing headrest holder check its orientation. (front/rear and right/left)



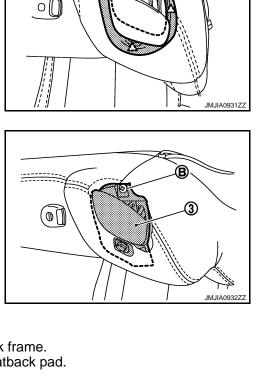
- Remove side air bag module.
- Remove the walk-in lever cap.

< REMOVAL AND INSTALLATION >

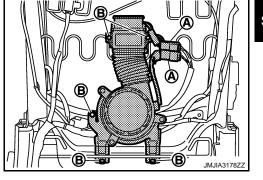
- Remove the screw (A) and pawls, and then walk-in lever upper escutcheon (2).
 - : Pawl



- 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).

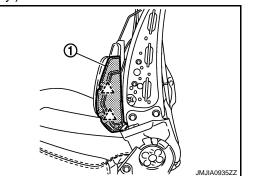


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- 7. Disconnect the harness connectors.
- 8. Remove the side support bag and unit. (with side support seats only.)
 - Remove the pawls, and then remove side support bag (1).
 - Remove the side support unit.





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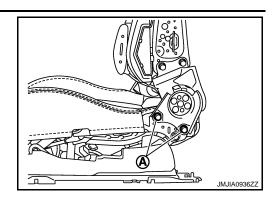
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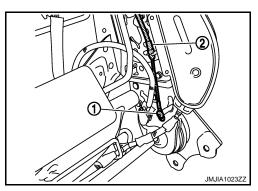
9. Remove the seatback frame.

< 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.

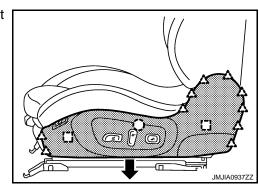
SEAT CUSHION

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).
- 2. Remove the seat cushion inner finisher.

< REMOVAL AND INSTALLATION >

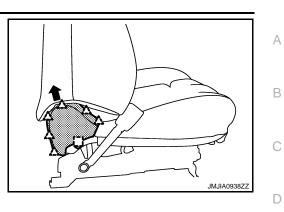
Remove the seat cushion front finisher.

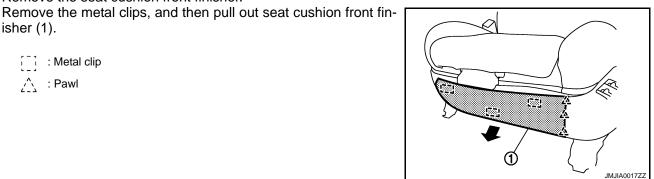
- Remove the seat cushion inner finisher inside (front, rear) by releasing the metal clip and pull it up together with the cover. • Remove the seat cushion inner finisher inside (front, rear) from
- the seat cushion inner finisher by releasing the pawls.
 - : Metal clip 2 : Pawl

: Metal clip : Pawl

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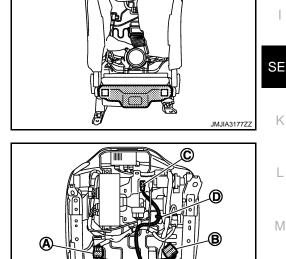
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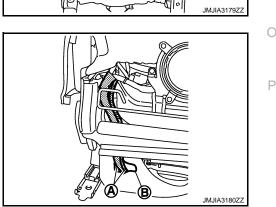
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- Remove seatback lower panel. 4.
 - : Metal clip

- 5. Disconnect harness connectors (A) and (B).
- Remove side air bag harness connector fixing clips (C). 6.
- 7. Remove side air bag harness fixing clamp (D).

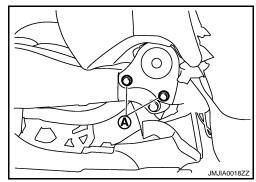
Remove seat cushion trim retainers and pull out harness (A) 8. through the hole of seat cushion trim (B).



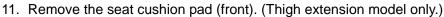


< REMOVAL AND INSTALLATION >

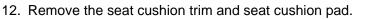
9. Remove the seatback mounting bolts (A), and then remove the seatback assembly.



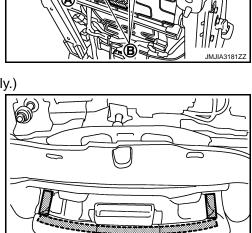
- 10. Remove seat cushion air conditioner unit.(except seat without air conditioner.)
 - Disconnect harness connectors (A).
 - Remove seatback air conditioner unit mounting screws (B).

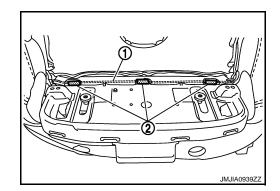


- Remove the retainer.
- Remove the seat cushion pad (front).



• Remove the seat cushion trim wire (1) from the hook (2).

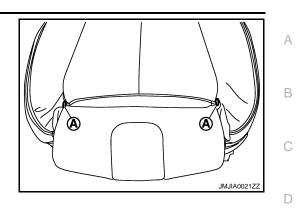




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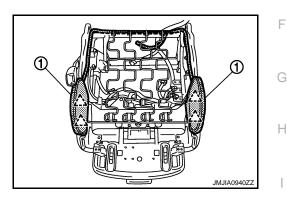
< REMOVAL AND INSTALLATION >

• 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).





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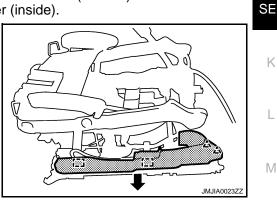
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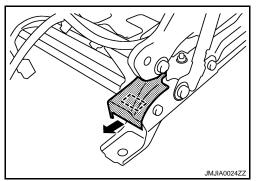
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- 14. Remove the seat slide outer finisher.
 - Remove the metal clip and pawls, and then pull out seat slide outer finisher (outside).
 - Remove the metal clip, and then pull out seat slide outer finisher (inside).

: Metal clip



- 15. Remove the seat slide inner finisher. Remove the metal clip, and then pull out seat slide inner finisher.
 - : Metal clip 1 1



Assembly

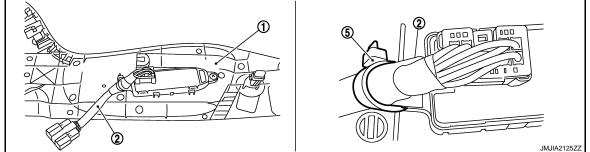
Assemble in the reverse order of disassembly. 1.

< REMOVAL AND INSTALLATION >

CAUTION:

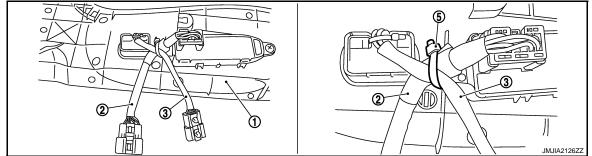
Install the hog rings of seat cushion trim in position, and then securely connect the trim or trim cord with the pad side wire.

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



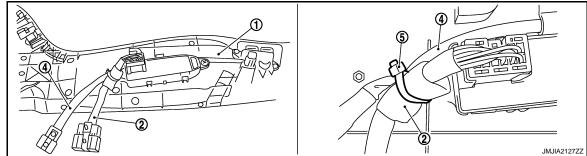
Fix seat control harness (2) to seat cushion outer finisher (1) boss using a self locking band (5) as shown in the figure.

b. Normal seat with lumbar support switch



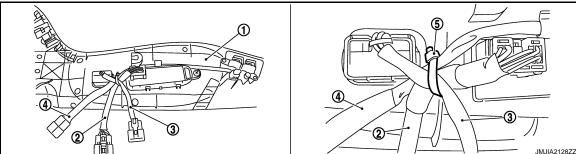
Locate lumbar support switch harness (3) in the forehand position, cross seat control harness (2), and fix to seat cushion outer finisher (1) boss using a self locking band (5) as shown in the figure.

c. Sport seat without lumbar support switch



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

d. Sport seat with lumbar support switch

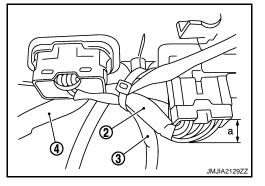


Locate side support switch harness (4) in the upper position of seat control harness (2). Locate lumbar support switch harness (3) crossing in the forehand position, and fix to seat cushion outer finisher (1) boss using a self locking band (5) as shown in the figure.

CAUTION:

< 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.



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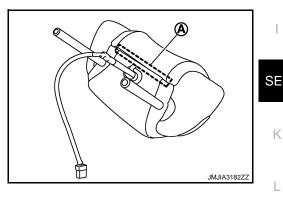
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 Locate lumbar support switch harness crossing in the upper position, fix seat control harness connector (B), lumbar support switch harness connector (C), and side support harness connector (D) as shown in the figure.

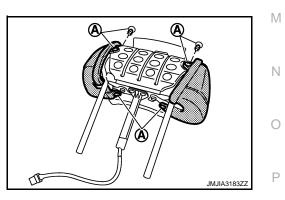
HEADREST (WITH HEADREST SPEAKER ONLY)

Disassembly

1. Remove headrest trim retainer (A), and then remove headrest trim cover.



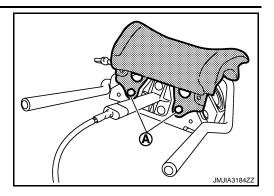
- 2. Remove headrest cover.
- 3. Remove headrest pad.
- 4. Remove mounting screws (A), and then remove headrest outer/ inner grille.



- 5. Remove following parts after removing headrest outer/inner grille.
 - Headrest outer/inner escutcheon.
 - Microphone (for AudioPilot®). Refer to AV-419, "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-417, "Removal and Installation".

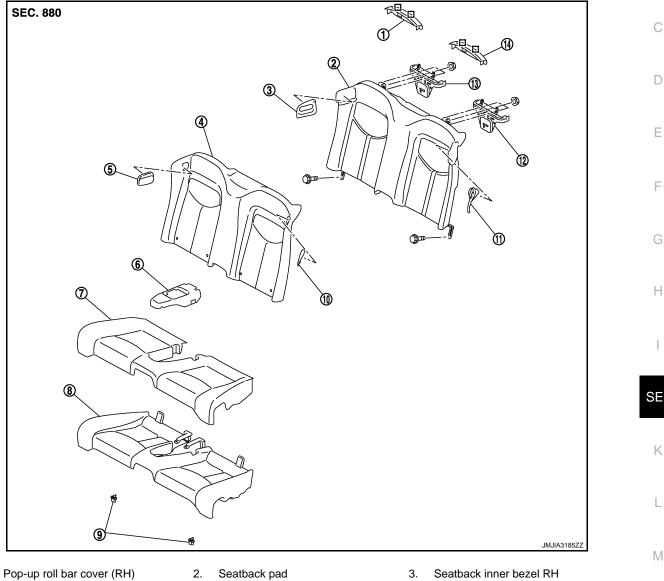
Assembly

Assembly in the reverse order of disassembly.

REAR SEAT

Exploded View

REAR SEAT



4. Seatback trim

1.

- Seat cushion trim 7.
- 10. Rear seat belt escutcheon LH
- 13. Seatback bracket RH
- [] : Metal clip

Removal and Installation

REMOVAL **CAUTION:**

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

1. Remove the seat cushion.

- 5. Rear seat belt escutcheon RH
- Seat cushion pad 8.
- 11. Seatback inner bezel LH
- 14. Pop-up roll bar cover (LH)
- 6. Seat cushion tray
- 9. Seat cushion hook
- 12. Seatback bracket LH
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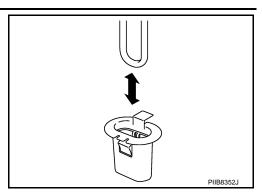
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SE-257

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

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.
- 3. Remove seatback inner bezels (LH/RH).

Assembly

Assemble in the reverse order of disassembly.

CAUTION:

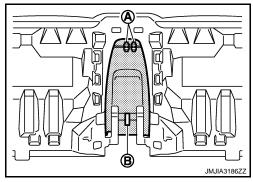
Install the hog rings of seatback trim in position, and then securely connect the trim or trim cord with the seatback frame.

SEAT CUSHION

Disassembly

1. 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

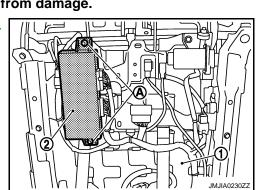
Refer to SE-234, "Exploded View".

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-245. "Removal and Installa-</u> tion".
- 2. Remove mounting bolts (A).
- 3. Remove driver seat control unit (2).



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



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PASSENGER SEAT CONTROL UNIT

Exploded View

Refer to SE-234, "Exploded View".

Removal and Installation

REMOVAL

CAUTION: When removing and installing, use shop cloths to protect parts from damage. NOTE: The same procedure is performed for driver side. Refer to <u>SE-259</u>, "Removal and Installation".

INSTALLATION Install in the reverse order of removal. CAUTION: Always clamp the harness to the right place. INFOID:000000005630015

INFOID:000000005630016

HEATED SEAT CONTROL UNIT

< REMOVAL AND INSTALLATION >		
HEATED SEAT CONTROL UNIT		A
Exploded View	INFOID:000000005630017	
Refer to <u>SE-234, "Exploded View"</u> .		В
Removal and Installation	INFOID:000000005630018	
REMOVAL CAUTION:		С
 When removing and installing, use shop cloths to protect parts from damage. 1. Remove the front seat. 2. Disconnect heated seat control unit connector. 	l	D
3. Remove the heated seat control unit from the heated seat control unit stay. Refer to <u>SE-2</u> . <u>View</u> ".	34, "Exploded	E
INSTALLATION Install in the reverse order of removal. CAUTION: Always clamp the harness to the right place.		F
Always clamp the namess to the right place.	(G

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AUTOMATIC DRIVE POSITIONER CONTROL UNIT

< REMOVAL AND INSTALLATION >

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

Exploded View

Refer to <u>IP-12, "A/T MODELS : Exploded View"</u> (A/T models) or <u>IP-22, "M/T MODELS : Exploded View"</u> (M/T models).

Removal and Installation

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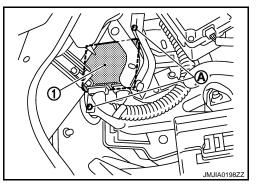
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REMOVAL

CAUTION:

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

- 1. Remove the battery negative terminal.
- Remove the instrument driver lower panel. Refer to <u>IP-13, "A/T</u> <u>MODELS : Removal and Installation"</u> (A/T models) or <u>IP-23, "M/</u> <u>T MODELS : Removal and Installation"</u> (M/T models).
- 3. Remove the screws (A).
- 4. Remove automatic drive positioner control unit (1).



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

POWER SEAT SWITCH

Removal and Installation

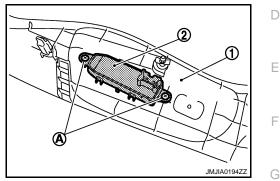
REMOVAL

CAUTION:

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

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

- 1. Remove the seat cushion outer finisher (1). Refer to <u>SE-245.</u> <u>"Removal and Installation"</u>.
- 2. Remove the screws (A).
- 3. Remove the power seat switch (2) from the seat cushion outer finisher.



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

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SLIDING SWITCH SEATBACK

SEATBACK : Removal and Installation

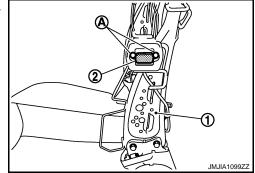
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REMOVAL

CAUTION:

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

- 1. Remove seatback pad. Refer to <u>SE-245, "Removal and Installa-</u> tion".
- 2. Remove screws (A).
- 3. Disconnect seat sliding switch (seatback) connector.
- Remove seat sliding switch (seatback) (2) from seatback frame (1).



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

SIDE SUPPORT SWITCH

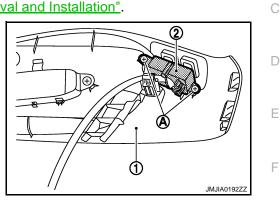
Removal and Installation

REMOVAL

CAUTION:

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

- 1. Remove seat cushion outer finisher (1). Refer to <u>SE-245, "Removal and Installation"</u>.
- 2. Remove screws (A).
- 3. Remove side support switch (2) from seat cushion outer finisher.



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

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LUMBAR SUPPORT SWITCH

Removal and Installation

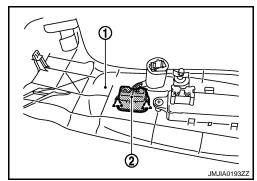
REMOVAL

CAUTION:

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

- 1. Remove seat cushion outer finisher (1). Refer to <u>SE-245</u>. <u>"Removal and Installation"</u>
- 2. Remove lumbar support switch (2).

2 : Pawl



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

HEATED SEAT SWITCH

< REMOVAL AND INSTALLATION >

HEATED SEAT SWITCH

Exploded View

Refer to IP-33, "A/T MODELS : Exploded View" (A/T models) or IP-38, "M/T MODELS : Exploded View" (M/T models).

Removal and Installation

REMOVAL

CAUTION:

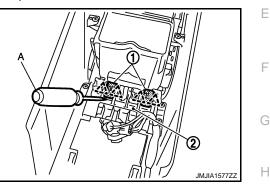
When removing and installing, use shop cloths to protect from damage.

- 1. Remove the console body assembly. Refer to <u>IP-34, "A/T MODELS : Removal and Installation"</u> (A/T models) or <u>IP-38, "M/T MODELS : Removal and Installation"</u> (M/T models).
- 2. Remove heated seat switch (1) from switch bracket (2) with flatbladed screwdriver (A).

: Pawl $\hat{\Box}$

NOTE:

The same procedure is performed for passenger side.



INSTALLATION

Install in the reverse order of removal.

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CLIMATE CONTROLLED SEAT SWITCH

< REMOVAL AND INSTALLATION >

CLIMATE CONTROLLED SEAT SWITCH

Exploded View

Refer to <u>IP-33</u>, "A/T MODELS : Exploded View" (A/T models) or <u>IP-38</u>, "M/T MODELS : Exploded View" (M/T models).

Removal and Installation

INFOID:000000005630028

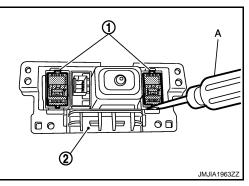
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REMOVAL

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-34</u>, "A/T <u>MODELS</u> : <u>Removal and Installation</u>" (A/T models) or <u>IP-38</u>, "<u>M/T MODELS</u> : <u>Removal and Installation</u>" (M/T models).
- 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.

CLIMATE CONTROLLED SEAT BLOWER FILTER < REMOVAL AND INSTALLATION > CLIMATE CONTROLLED SEAT BLOWER FILTER А SEAT CUSHION SEAT CUSHION : Exploded View INFOID:000000005630029 В Refer to SE-234, "Exploded View". SEAT CUSHION : Removal and Installation INFOID:000000005630030 REMOVAL **CAUTION:** D 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 cli-Ε mate controlled seat blower motor (2). F JMJIA3021ZZ Н **INSTALLATION** Install in the reverse order of removal. Replacement interuals Blower filter replacement interuals : Every 24 months or 48,000km SE SEATBACK SEATBACK : Exploded View INFOID:000000005630031 Κ Refer to SE-234, "Exploded View". SEATBACK : Removal and Installation INFOID:000000005630032 REMOVAL CAUTION: Μ 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 cli-Ν mate controlled seat blower motor (2). ന Ρ

INSTALLATION Install in the reverse order of removal.

Replacement interuals

Blower filter replacement interuals :Every 24 months or 48,000km