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DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION > **BASIC INSPECTION** Α DIAGNOSIS AND REPAIR WORK FLOW Work Flow INFOID:0000000004250013 **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. D >> GO TO 2. $2.\mathsf{REPRODUCE}$ THE MALFUNCTION INFORMATION Е Check the malfunction on the vehicle that the customer describes. Inspect the relation of the symptoms and the condition when the symptoms occur. F >> GO TO 3. ${f 3.}$ 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. Н >> GO TO 4. f 4.IDENTIFY THE MALFUNCTIONING PARTS WITH "COMPONENT DIAGNOSIS" Perform the diagnosis with "Component diagnosis" of the applicable system. >> GO TO 5. SE ${f 5}$. REPAIR OR REPLACE THE MALFUNCTIONING PARTS Repair or replace the specified malfunctioning parts. K >> GO TO 6. 6. FINAL CHECK Check that malfunctions are not reproduced when obtaining the malfunction information from the customer, referring to the symptom inspection result in step 2. Are the malfunctions corrected? M YES >> INSPECTION END NO >> GO TO 3. N

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INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

INSPECTION AND ADJUSTMENT

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Description

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

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL: Special Repair Requirement

1.SYSTEM INITIALIZATION

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

>> Work end.

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Description

INFOID:0000000004250016

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

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement

1.SYSTEM INITIALIZATION

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

>> Work end.

SYSTEM INITIALIZATION

SYSTEM INITIALIZATION: Description

INFOID:0000000004250018

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:0000000004250019

INITIALIZATION PROCEDURE

1. STEP-1

Slide the seat to the front edge.

NOTF:

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

>> Work end.

SYSTEM DESCRIPTION

POWER SEAT FOR DRIVER SIDE POWER SEAT FUNCTION

POWER SEAT FUNCTION: System Diagram

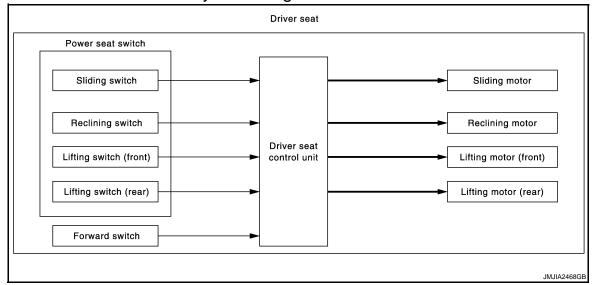
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POWER SEAT FUNCTION: System Description

INFOID:0000000004543874

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

SLIDING OPERATION

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

RECLINING OPERATION

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

LIFTING OPERATION

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

SLEEP MODE

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

WAKE-UP MODE

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

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

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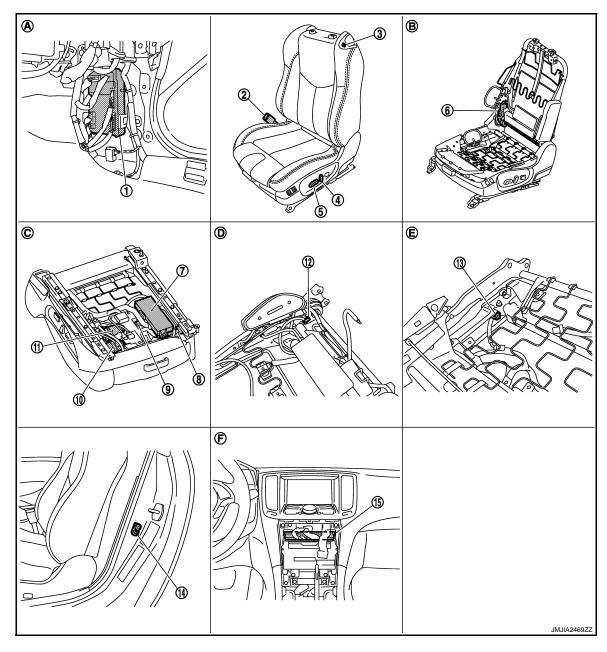
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POWER SEAT FUNCTION: Component Parts Location

INFOID:0000000004543875



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

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

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

< SYSTEM DESCRIPTION >

POWER SEAT FUNCTION: Component Description

INFOID:0000000004543876

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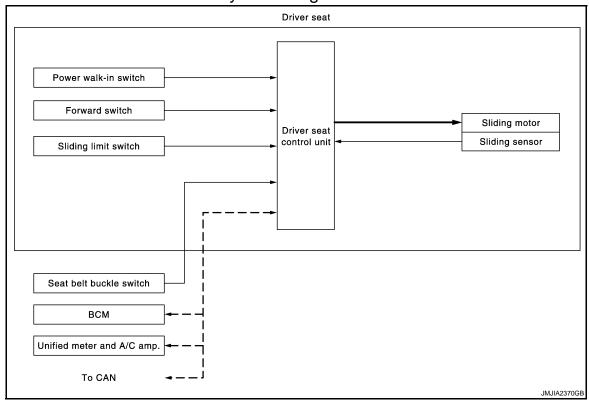
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Item	Function	
Driver seat control unit	Operates the specific seat motor with the signal from the power seat switch	
Power seat switch	Built-in reclining switch, sliding switch, and lifting switch	
Reclining motor	Operates forward and backward movement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

POWER WALK-IN FUNCTION

POWER WALK-IN FUNCTION: System Diagram

INFOID:0000000004543877



POWER WALK-IN FUNCTION: System Description

INFOID:0000000004543878

OUTLINE

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

Forward Operation

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

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

Backward Operation

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

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

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< SYSTEM DESCRIPTION >

OPERATION PROCEDURE

Forward Operation

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

Backward Operation

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

OPERATION CONDITION

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

Forward Operation

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

Backward Operation

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

DETAIL FLOW

Forward Operation

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

Backward Operation

< SYSTEM DESCRIPTION >

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

SLEEP MODE

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

WAKE-UP MODE

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

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

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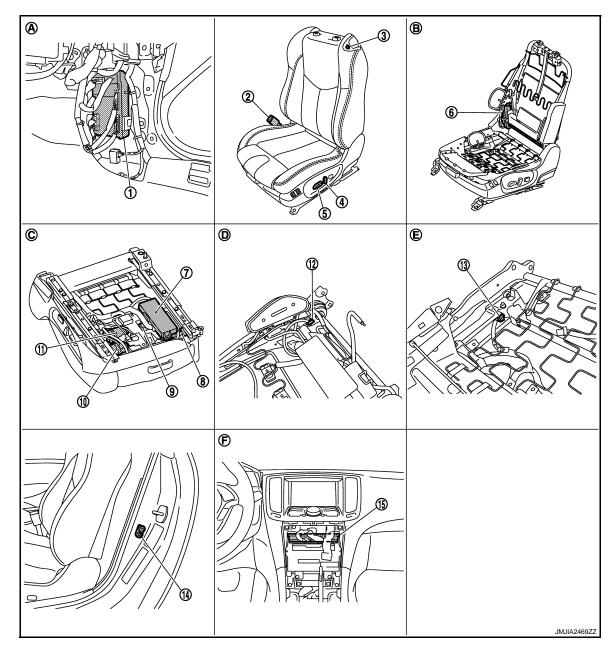
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POWER WALK-IN FUNCTION: Component Parts Location

INFOID:0000000004555012



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

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

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

POWER WALK-IN FUNCTION : Component Description

INFOID:0000000004543880

CONTROL UNITS

< SYSTEM DESCRIPTION >

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

INPUT PARTS

Switches

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

Sensors

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

OUTPUT PARTS

Item	Function
Sliding motor	Slides the seat forward/backward.

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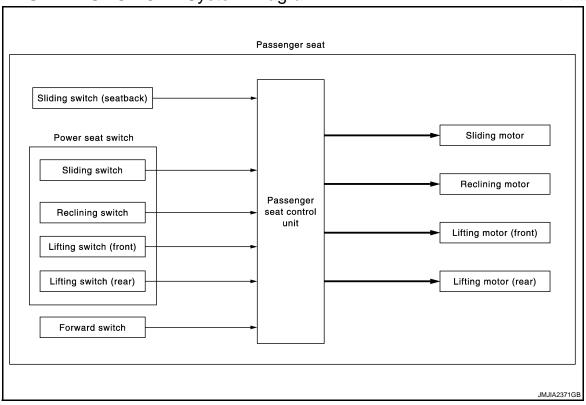
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POWER SEAT FOR PASSENGER SIDE POWER SEAT FUNCTION

POWER SEAT FUNCTION: System Diagram

INFOID:0000000004543881



POWER SEAT FUNCTION: System Description

INFOID:0000000004543882

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

SLIDING OPERATION

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

RECLINING OPERATION

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

LIFTING OPERATION

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

SLEEP MODE

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

WAKE-UP MODE

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

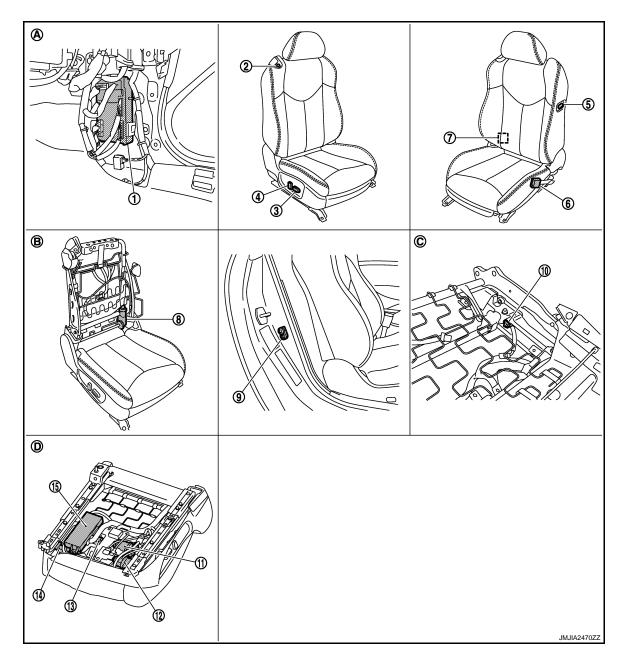
- 1. Power seat switch and sliding switch (seatback).
- 2. Power walk-in switch.

POWER SEAT FOR PASSENGER SIDE

< SYSTEM DESCRIPTION >

POWER SEAT FUNCTION: Component Parts Location

INFOID:0000000004543883



- 1. BCM M118, M119, M123
- 4. Reclining switch (power seat switch) B554
- 7. Forward switch B556
- 10. Sliding limit switch B558
- 13. Lifting motor (front) B569*
- A. Dash side lower (passenger side)
- D. Back side of seat cushion
- *: With 8-way power passenger's seat

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

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

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POWER SEAT FUNCTION: Component Description

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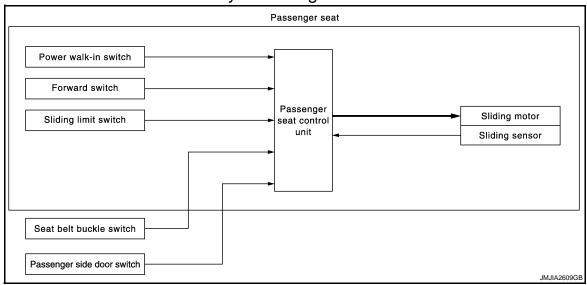
Item	Function	
BCM	The power received from battery to passenger seat control unit is supplied at all times.	
Passenger seat control unit	Operates each motor with the signal from the power seat switch and sliding switch (seatback).	
Power seat switch	Built-in reclining switch, sliding switch, and lifting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

^{*:} With 8-way power passenger's seat

POWER WALK-IN FUNCTION

POWER WALK-IN FUNCTION: System Diagram

INFOID:0000000004543885



POWER WALK-IN FUNCTION: System Description

INFOID:0000000004543886

OUTLINE

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

Forward Operation

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

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

Backward Operation

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

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

OPERATION PROCEDURE

POWER SEAT FOR PASSENGER SIDE

< SYSTEM DESCRIPTION >

Forward Operation

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

Backward Operation

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

OPERATION CONDITION

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

Forward Operation

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

Backward Operation

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

DETAIL FLOW

Forward Operation

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

Backward Operation

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POWER SEAT FOR PASSENGER SIDE

< SYSTEM DESCRIPTION >

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

SLEEP MODE

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

WAKE-UP MODE

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

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

POWER WALK-IN FUNCTION: Component Parts Location

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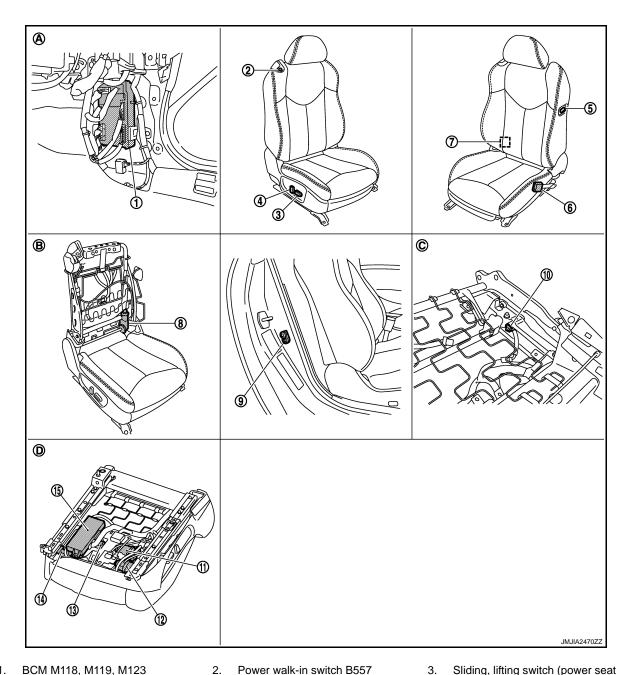
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- BCM M118, M119, M123
- Reclining switch (power seat switch) 5. B554
- 7. Forward switch B556
- 10. Sliding limit switch B558
- 13. Lifting motor (front) B569*
- A. Dash side lower (passenger side)
- Back side of seat cushion
- 8. Reclining motor B566
 - 11. Lifting motor (rear) B570*
 - Sliding sensor B568
 - B. View with seatback pad removed

Sliding switch (seatback) B561

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

*: With 8-way power passenger's seat

POWER WALK-IN FUNCTION: Component Description

CONTROL UNITS

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POWER SEAT FOR PASSENGER SIDE

< SYSTEM DESCRIPTION >

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

INPUT PARTS

Switches

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

Sensors

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

OUTPUT PARTS

Item	Function
Sliding motor	Slides the seat forward/backward.

SIDE SUPPORT UNIT

System Description

INFOID:0000000004250040

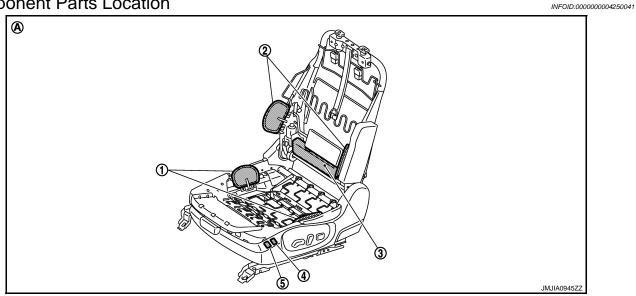
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- While operating the side support switch, the pump located inside side support unit operates and adjust the air pressure in seat cushion and seatback side support.
- It is possible to soften the side support, by allowing some air to escape, by deflating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

Component Parts Location



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

Component Description

INFOID:00000000004250042

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

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HEATED SEAT

System Diagram

FRONT SEAT

SEAT CUSHION HEATER

HEATED SEAT

CONTROL UNIT

HEAT SENSOR

SEATBACK HEATER

HEATER UNIT

HEATER UNIT

SEATBACK HEATER

HEATER UNIT

System Description

INFOID:0000000004543890

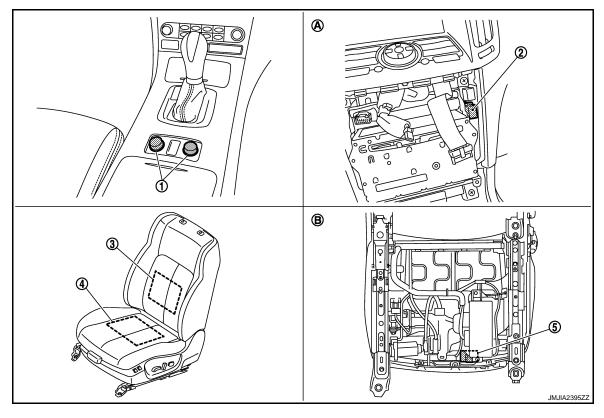
- Heated seat is activated by heated seat switch while ignition switch is ON, and is equipped with the function to warm seat cushion and seatback.
- Heated seat is equipped with the 6-stage temperature adjustment function that adjusts temperature by operating heated seat switch to the optimal position.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

OPERATION DESCRIPTION

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

Component Parts Location

INFOID:0000000004543891



- 1. Heated seat switch
 - Driver side A/T M141 M/T M175
 - · Passenger side A/T M142 M/T M176
- Heated seat relay M70
- A. Behind cluster lid C

- Seatback heater
 - Driver side B542
 - Passenger side B582
- Seat cushion heater
 - Driver side B517, B541
 - Passenger side B574, B581

- Heated seat control unit
 - Driver side B518
 - Passenger side B575
- B. Backside of seat cushion

Component Description

INFOID:0000000004543892

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

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LUMBAR SUPPORT

< SYSTEM DESCRIPTION >

LUMBAR SUPPORT

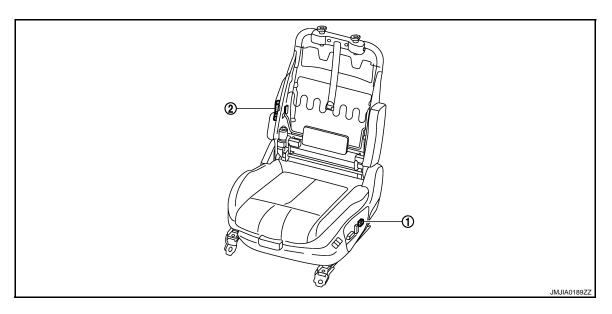
System Description

INFOID:0000000004250046

- 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

INFOID:0000000004250047



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

Component Description

INFOID:0000000004250048

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

DIAGNOSIS SYSTEM (DRIVER SEAT C/U)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (DRIVER SEAT C/U)

Diagnosis Description

INFOID:0000000004250049

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

DIAGNOSTIC MODE

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

CONSULT-III Function

INFOID:0000000004250050

SELF DIAGNOSTIC RESULTS

Refer to ADP-162, "DTC Index".

DATA MONITOR

Monitor Item	Unit	Main Signals	Selection From Menu	Contents
SET SW	"ON/OFF"	×	×	ON/OFF status judged from the setting switch signal.
MEMORY SW 1	"ON/OFF"	×	×	ON/OFF status judged from the seat memory switch 1 signal.
MEMORY SW 2	"ON/OFF"	×	×	ON/OFF status judged from the seat memory switch 2 signal.
SLIDE SW-FR*3	"ON/OFF"	×	×	ON/OFF status judged from the sliding switch (forward) signal.
SLIDE SW-RR*3	"ON/OFF"	×	×	ON/OFF status judged from the sliding switch (backward) signal.
RECLN SW-FR	"ON/OFF"	×	×	ON/OFF status judged from the reclining switch (forward) signal.
RECLN SW-RR	"ON/OFF"	×	×	ON/OFF status judged from the reclining switch (backward) signal.
LIFT FR SW-UP	"ON/OFF"	×	×	ON/OFF status judged from the lifting switch front (upward) signal.
LIFT FR SW-DN	"ON/OFF"	×	×	ON/OFF status judged from the lifting switch front (downward) signal.
LIFT RR SW-UP	"ON/OFF"	×	×	ON/OFF status judged from the lifting switch rear (upward) signal.
LIFT RR SW-DN	"ON/OFF"	×	×	ON/OFF status judged from the lifting switch rear (downward) signal.
MIR CON SW-UP	"ON/OFF"	×	×	ON/OFF status judged from the mirror switch (upward) signal.
MIR CON SW-DN	"ON/OFF"	×	×	ON/OFF status judged from the mirror switch (downward) signal.
MIR CON SW-RH	"ON/OFF"	×	×	ON/OFF status judged from the door mirror remote control switch (passenger side) signal.
MIR CON SW-LH	"ON/OFF"	×	×	ON/OFF status judged from the door mirror remote control switch (driver side) signal.

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DIAGNOSIS SYSTEM (DRIVER SEAT C/U)

< SYSTEM DESCRIPTION >

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

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

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

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

DIAGNOSIS SYSTEM (DRIVER SEAT C/U)

< SYSTEM DESCRIPTION >

ACTIVE TEST

CAUTION:

When driving vehicle, do not perform active test.

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

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

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DTC/CIRCUIT DIAGNOSIS

U1000 CAN COMM CIRCUIT

Description INFOID:000000004543893

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-30, "Diagnosis Procedure"</u>.

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000004543895

Refer to LAN-26, "Interview Sheet".

Special Repair Requirement

INFOID:0000000004543896

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

B2112 SLIDING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

B2112 SLIDING MOTOR

Description INFOID:0000000004543897

- 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:0000000004543898

DTC DETECTION LOGIC

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

DTC CONFIRMATION PROCEDURE

1.STEP 1

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

Is the DTC detected?

>> Refer to SE-31, "Diagnosis Procedure". YES

NO >> INSPECTION END

Diagnosis Procedure

1. PERFORM DTC CONFIRMATION PROCEDURE

- Turn ignition switch ON.
- Check "Self diagnostic result" using CONSULT-III.
- Erase the DTC.
- Perform DTC confirmation procedure. Refer to SE-31, "DTC Logic".

Is the DTC displayed again?

YES >> GO TO 2.

NO >> GO TO 4.

2.check sliding motor circuit (power short)

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

(+)			V. 16 0.0
Slidin	g motor	(–)	Voltage (V) (Approx.)
Connector	Terminal		(11 - 7
B525	35	Ground	0
DJ2J	42	Giodila	U

SE-31

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.check driver seat control unit output signal

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

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B2112 SLIDING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

(+) Driver seat control unit		(-)	Voltage (V) (Approx.)
Connector	Terminal		(* *F******)
B504	35	Ground	0
D304	42	Ground	U

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace driver seat control unit. Refer to <u>SE-196, "Removal and Installation"</u>

4. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-41, "Intermittent Incident".

>> INSPECTION END

B2113 RECLINING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

B2113 RECLINING MOTOR

Description INFOID:0000000004543900

- 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:0000000004543901

DTC DETECTION LOGIC

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

DTC CONFIRMATION PROCEDURE

${f 1}$.PEFORM DTC CONFIRMATION PROCEDURE

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

Is the DTC detected?

>> Refer to SE-33, "Diagnosis Procedure". YES

>> INSPECTION END NO

Diagnosis Procedure

1. PERFORM DTC CONFIRMATION PROCEDURE

- Turn ignition switch ON.
- Check "Self diagnostic result" using CONSULT-III.
- Erase the DTC.
- Perform DTC confirmation procedure. Refer to <a>SE-33, "DTC Logic".

Is the DTC displayed again?

YES >> GO TO 2.

NO >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".

2.CHECK RECLINING MOTOR CIRCUIT (POWER SHORT)

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

(+)		(–)	Voltage (V) (Approx.)
Reclining motor			
Connector	Terminal		(11 /
B524	36	Ground	0
D324	44	Ground	O

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.check driver seat control unit output signal

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

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B2113 RECLINING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

(+) Driver seat control unit		(-)	Voltage (V) (Approx.)
Connector	Terminal		(11)
B504	36	Ground	0
D304	44		

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace driver seat control unit. Refer to <u>SE-196, "Removal and Installation"</u>.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> INSPECTION END

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

POWER SUPPLY AND GROUND CIRCUIT DRIVER SEAT CONTROL UNIT

INFOID:0000000004543904

DRIVER SEAT CONTROL UNIT: Diagnosis Procedure

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

1. CHECK FUSE AND FUSIBLE LINK

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

Terminal No.	Signal name	Fuse and fusible link No.
33	Dotton: nower cample	K (40 A)
40	Battery power supply	10 (10 A)

Is the inspection result normal?

YES >> GO TO 2.

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

2.CHECK POWER SUPPLY CIRCUIT

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

(+) Driver seat control unit		(–)	Voltage (V) (Approx.)
Connector	Terminal		(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
B504	33	Ground	Battery voltage
	40		

Is the inspection result normal?

YES >> GO TO 3.

NO-1 >> Repair or replace harness.

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

3.CHECK GROUND CIRCUIT

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

Driver seat control unit			Continuity
Connector	Terminal	Ground Existed	Continuity
B503	32		Evieted
B504	48		EXISTECT

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair or replace harness.

PASSENGER SEAT CONTROL UNIT

PASSENGER SEAT CONTROL UNIT : Diagnosis Procedure

INFOID:0000000004543905

1. CHECK FUSE AND FUSIBLE LINK

Check that the following fuse is not fusing.

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POWER SUPPLY AND GROUND CIRCUIT

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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 CIRCUIT

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

(+)			V. 16 (A.)
Passenger seat control unit		(–)	Voltage (V) (Approx.)
Connector	Terminal		
B553	33	Ground	Battery voltage
5555	40	Ground	Dattery Voltage

Is the inspection result normal?

YES >> GO TO 3.

NO-1 >> Repair or replace harness.

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

3. CHECK GROUND CIRCUIT

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

Passenger seat control unit			Continuity
Connector	Terminal	Ground Existed	Continuity
B552	32		Evieted
B553	48		Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair or replace harness.

HEATED SEAT CONTROL UNIT

HEATED SEAT CONTROL UNIT: Diagnosis Procedure

INFOID:0000000004543906

1.CHECK FUSE

Check that the following fuse is not fusing.

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

Is the inspection result normal?

YES >> GO TO 2.

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

2.CHECK POWER SUPPLY 1

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

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(+) Heated seat control unit			(–)	Voltage (V) (Approx.)	
Connector		Terminal		(πρίολ.)	
Driver side	B518	60	Ground	Pottoni voltogo	
Passenger side	B575	60	Giound	Battery voltage	

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 3.

3.CHECK POWER SUPPLY CIRCUIT 1

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

Heated seat control unit		Heated s	Continuity		
Coni	nector	Terminal	Connector	Terminal	Continuity
Driver side	B518	60	M70	2	Existed
Passenger side	B575	00	IVI7U	3	

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

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

Is the inspection result normal?

YES >> Repair or replace harness between heated seat relay and fuse holder.

NO >> Repair or replace harness between heated seat control unit and heated seat relay.

4. CHECK POWER SUPPLY 2

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

(+) Heated seat control unit		(–)	Condition		Voltage (V) (Approx.)	
Conr	nector	Terminal				(лергол.)
Driver side	DE10				ON	Battery voltage
Driver side	B518	66	Ground	Heated seat	OFF	0
Passenger side B575	00	Giodila	switch	ON	Battery voltage	
	B375				OFF	0

Is the inspection result normal?

YES >> GO TO 7.

NO >> GO TO 5.

5. CHECK POWER SUPPLY CIRCUIT 2

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

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Heated seat control unit		Heated sea	Continuity		
Conr	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	LAISIEU

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

Heated seat control unit				Continuity	
Connector		Terminal	0	Continuity	
Driver side	B518	66	Ground	Not existed	
Passenger side	B575	00		Not existed	

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

6.CHECK HEATED SEAT SWITCH

Check heated seat switch.

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

Is the inspection result normal?

YES >> GO TO 8.

NO >> Replace heated seat switch. Refer to <u>SE-204, "Removal and Installation"</u>.

7.CHECK GROUND CIRCUIT

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

Heated seat control unit				Continuity	
Connector		Terminal	One way	Continuity	
Driver side	B518	59	Ground	Existed	
Passenger side	B575	39		Existed	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair or replace harness.

8.CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-41, "Intermittent Incident".

>> INSPECTION END

HEATED SEAT SWITCH

HEATED SEAT SWITCH: Diagnosis Procedure

1.CHECK FUSE

Check that the following fuse is not fusing.

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

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Is the inspection result normal?

YES >> GO TO 2.

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

2. CHECK POWER SUPPLY

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

(+)				V 16 0.0
Heated seat switch			(–)	Voltage (V) (Approx.)
Connector Terminal		Terminal		(11 - 7
Driver side	A/T models: M141 M/T models: M175	5	Ground	Rattony voltago
Passenger side	A/T models: M142 M/T models: M176	5	Ground	Battery voltage

Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 3.

3.CHECK POWER SUPPLY CIRCUIT

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

Heated seat switch		Fuse ble	Continuity		
Cor	nnector	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				

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	E	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)

Turn ignition switch ON.

2. Check voltage between fuse block (J/B) connector (fuse block side) and ground.

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

Is the inspection result normal?

YES >> GO TO 5.

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

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5. CHECK INTERMITTENT INCIDENT

Check intermittent incident.
Refer to GI-41, "Intermittent Incident"

>> INSPECTION END

< DTC/CIRCUIT DIAGNOSIS >

SLIDING SWITCH

DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000004543908

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

DRIVER SIDE : Component Function Check

INFOID:0000000004543909

1. CHECK FUNCTION

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

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

Is the indication normal?

YES >> Sliding switch function is OK.

NO >> Refer to <u>SE-41</u>, "<u>DRIVER SIDE</u>: <u>Diagnosis Procedure</u>".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000004543910

1. CHECK SLIDING SWITCH SIGNAL

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

	+) eat switch	(-)	Voltage (V) (Approx.)	
Connector	Terminal			
B511	11 26	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK SLIDING SWITCH CIRCUIT

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

Driver seat	control unit	Power seat switch		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B503	11	B511	11	Existed
	26	5311	26	LAISIGU

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

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

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>SE-196, "Removal and Installation"</u>.

NO >> Repair or replace harness.

3.CHECK SLIDING SWITCH

Check sliding switch.

Refer to SE-42, "DRIVER SIDE: Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace power seat switch. Refer to <u>SE-200, "Removal and Installation"</u>.

4. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-41, "Intermittent Incident".

>> INSPECTION END

DRIVER SIDE : Component Inspection

INFOID:0000000004543911

1. CHECK SLIDING SWITCH

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

Power seat switch		Condition		Continuity
Terr	Terminal		Condition	
	11		Backward	Existed
32	11	Cliding quitab	Other than above	Not existed
32		Sliding switch	Forward	Existed
	26		Other than above	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power seat switch. Refer to SE-200, "Removal and Installation".

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000004543912

- Sliding switch is equipped to the power seat switch on the seat cushion side surface.
- The operation signal is input to the passenger seat control unit when the sliding switch is operated.

PASSENGER SIDE: Component Function Check

INFOID:0000000004543913

1. CHECK FUNCTION

Check seat sliding operation with sliding switch.

Is the indication normal?

YES >> Sliding switch function is OK.

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

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PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000004543914

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1. CHECK SLIDING SWITCH SIGNAL

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

(+) Passenger seat control unit		(–)	Condition		Voltage (V) (Approx.)
Connector	Terminal				(. 'Ebreyn')
-	11			Backward	0
B552	11	Ground	Sliding switch	Other than above	Battery voltage
D332	26	Ground	Silding Switch	Forward	0
	20			Other than above	Battery voltage

Is the inspection result normal?

>> Sliding switch circuit is OK.

NO >> GO TŎ 2.

2.check sliding switch input signal

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

(+) Power seat switch		(-)	Voltage (V) (Approx.)	
Connector	Terminal		(
B554	22	Ground	Battery voltage	
D334	23	Ground	ballery vollage	

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 3.

3.check sliding switch circuit

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

Sliding swi	tch (seatback)	Power seat switch		Continuity
Connector	Terminal	Connector Terminal		Continuity
B561	22	B554	22	Existed
D301	23	D004	23	Existed

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

Sliding swite	Sliding switch (seatback)			
Connector	Terminal	Ground	Continuity	
B561	22	Ground	Not existed	
B30 I	23		Not existed	

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

4. CHECK SLIDING SWITCH

Check sliding switch.

Refer to SE-44, "PASSENGER SIDE: Component Inspection".

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Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace power seat switch. Refer to <u>SE-200, "Removal and Installation"</u>.

5. CHECK SLIDING SWITCH (SEATBACK)

Check sliding switch (seatback).

Refer to SE-46, "SEATBACK: Component Inspection".

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace sliding switch (seatback). Refer to <u>SE-179, "Exploded View"</u>.

6.check intermittent incident

Check intermittent incident.

Refer to GI-41, "Intermittent Incident".

>> INSPECTION END

PASSENGER SIDE: Component Inspection

INFOID:0000000004543915

1. CHECK SLIDING SWITCH

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

Power se	Power seat switch		Condition	
Terr	minal	Con	Idition	Continuity
	22	- Sliding switch	Forward	Existed
32	22		Other than above	Not existed
32	23		Backward	Existed
			Other than above	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power seat switch. Refer to <u>SE-200, "Removal and Installation"</u>.

SEATBACK

SEATBACK: Description

INFOID:0000000004543916

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

SEATBACK: Component Function Check

INFOID:0000000004543917

1. CHECK FUNCTION

Check seat sliding operation with sliding switch (seatback).

Is the inspection result normal?

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

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

SEATBACK: Diagnosis Procedure

INFOID:0000000004543918

1. CHECK SLIDING SWITCH (SEATBACK) SIGNAL

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

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

Is the inspection result normal?

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

NO >> GO TO 2.

2.check sliding switch (seatback) circuit

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

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

Passenger s	eat control unit	Sliding switch (seatback)		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B552	11	B561	11	Existed
D002	26	D001	26	Existed

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

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

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

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

Sliding swite	ch (seatback)		Continuity
Connector	Terminal	Ground	Continuity
B561	32		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK SLIDING SWITCH (SEATBACK)

Check sliding switch (seatback).

Refer to SE-46, "SEATBACK: Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace sliding switch (seatback). Refer to <u>SE-179</u>, "Exploded View".

5. CHECK PASSENGER SEAT CONTROL UNIT OUTPUT SIGNAL

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

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(+) Passenger seat control unit		(-)	Voltage (V) (Approx.)	
Connector	Terminal		(/ (pp. 5/11)	
B552	11	Ground	Pattory voltage	
D002	26	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace passenger seat control unit. Refer to <u>SE-197, "Removal and Installation"</u>.

6. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-41, "Intermittent Incident".

>> INSPECTION END

SEATBACK: Component Inspection

INFOID:0000000004543919

1. CHECK SLIDING SWITCH

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

Sliding swite	ch (seatback)	Condition		Continuity
Terr	minal			Continuity
	11		Backward	Existed
32	11		Other than above	Not existed
32	26	Sliding switch (seatback)	Forward	Existed
			Other than above	Not existed
11	23	Silding 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-179, "Exploded View"</u>.

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RECLINING SWITCH

DRIVER SIDE

DRIVER SIDE : Description

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

DRIVER SIDE : Component Function Check

INFOID:0000000004543921

1. CHECK FUNCTION

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

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

Is the indication normal?

YES >> Reclining switch function is OK.

NO >> Refer to <u>SE-47</u>, "<u>DRIVER SIDE</u>: <u>Diagnosis Procedure</u>".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000004543922

1. CHECK RECLINING SWITCH SIGNAL

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

(+)			V-16 (A.O.	
Power seat switch		(–)	Voltage (V) (Approx.)	
Connector	Terminal			
B511	12	Ground	Rattory voltago	
БЭТТ	27	- Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK RECLINING SWITCH CIRCUIT

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

Driver seat control unit		Power seat switch		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B503	12	B511	12	Existed
B503	27	5 5511	27	LXISTEG

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

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Driver se	Driver seat control unit		Continuity	
Connector	Terminal	Ground	Continuity	
B503	12	Ground	Not existed	
D303	27	-	Not existed	

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>SE-196, "Removal and Installation"</u>.

NO >> Repair or replace harness.

3. CHECK RECLINING SWITCH

Check reclining switch.

Refer to SE-48, "DRIVER SIDE: Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace power seat switch. Refer to <u>SE-200, "Removal and Installation"</u>.

4. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-41, "Intermittent Incident".

>> INSPECTION END

DRIVER SIDE : Component Inspection

INFOID:0000000004543923

1. CHECK RECLINING SWITCH

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

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power seat switch. Refer to SE-200, "Removal and Installation".

PASSENGER SIDE

PASSENGER SIDE: Description

INFOID:0000000004543924

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

PASSENGER SIDE: Component Function Check

INFOID:0000000004543925

1. CHECK FUNCTION

Check seat reclining operation with reclining switch.

Is the indication normal?

YES >> Reclining switch function is OK.

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

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PASSENGER SIDE : Diagnosis Procedure

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1. CHECK RECLINING SWITCH SIGNAL

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

(+) Passenger seat control unit		(–) Con-		ndition	Voltage (V) (Approx.)
Connector	Terminal				(Approx.)
	12	Ground	Reclining switch	Backward	0
B552	12			Other than above	Battery voltage
D332	27	Ground	Recilling Switch	Forward	0
	27			Other than above	Battery voltage

Is the inspection result normal?

>> Reclining switch circuit is OK.

NO >> GO TO 2.

2.CHECK RECLINING SWITCH CIRCUIT

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

Passenger s	Passenger seat control unit		eat switch	Continuity
Connector	Terminal	Connector	Terminal	Continuity
B552	12	B554	12	Existed
D332	27	6554	27	Existed

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

Passenger seat control unit			Continuity	
Connector Terminal		- Ground	Continuity	
B552	12	Ground	Not existed	
	27		INOL 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-50, "PASSENGER SIDE: Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace power seat switch. Refer to <u>SE-200, "Removal and Installation"</u>.

f 4.CHECK PASSENGER SEAT CONTROL UNIT OUTPUT SIGNAL

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

(+)		\/altaga (\/)	
Passenger seat control unit		(–)	Voltage (V) (Approx.)	
Connector	Terminal			
B552	12	Ground	Battery voltage	
	27	Ground	ballery voltage	

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Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace passenger seat control unit. Refer to <u>SE-197, "Removal and Installation"</u>.

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-41, "Intermittent Incident".

>> INSPECTION END

PASSENGER SIDE: Component Inspection

INFOID:0000000004543927

1. CHECK RECLINING SWITCH

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

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power seat switch. Refer to <u>SE-200, "Removal and Installation"</u>.

< DTC/CIRCUIT DIAGNOSIS >

LIFTING SWITCH (FRONT)

DRIVER SIDE

DRIVER SIDE: Description

INFOID:0000000004543928

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- Lifting switch (front) is equipped to the power seat switch on the seat cushion side surface.
- The operation signal is input to the driver seat control unit when the lifting switch (front) is operated.

DRIVER SIDE : Component Function Check

INFOID:0000000004543929

1. CHECK FUNCTION

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

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

Is the indication normal?

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

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

DRIVER SIDE: Diagnosis Procedure

INFOID:0000000004543930

1. CHECK LIFTING SWITCH (FRONT) SIGNAL

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

	+) eat switch	(–)	Voltage (V) (Approx.)	
Connector	Terminal			
B511	13	Ground Battery voltage		
D311	28	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.check lifting switch (front) circuit

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

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

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

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Driver seat	control unit		Continuity	
Connector	Terminal	Ground	Continuity	
B503	13		Not existed	
D303	28		Not existed	

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>SE-196, "Removal and Installation"</u>.

NO >> Repair or replace harness.

${f 3.}$ CHECK LIFTING SWITCH (FRONT)

Check lifting switch (front).

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

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace power seat switch. Refer to <u>SE-200, "Removal and Installation"</u>.

4. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-41, "Intermittent Incident".

>> INSPECTION END

DRIVER SIDE : Component Inspection

INFOID:0000000004543931

1. CHECK LIFTING SWITCH (FRONT)

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

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power seat switch. Refer to SE-200, "Removal and Installation".

PASSENGER SIDE

PASSENGER SIDE: Description

INFOID:0000000004543932

- Lifting switch (front) is equipped to the power seat switch on the seat cushion side surface.
- The operation signal is input to the passenger seat control unit when the lifting switch (front) is operated.

PASSENGER SIDE: Component Function Check

INFOID:0000000004543933

1. CHECK FUNCTION

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

Is the indication normal?

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

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

< DTC/CIRCUIT DIAGNOSIS >

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000004543934

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- 1. CHECK LIFTING SWITCH (FRONT) SIGNAL
- Turn ignition switch OFF.
- Check voltage between passenger seat control unit harness connector and ground.

(+) Passenger seat control unit		(–)	Con	Condition		
Connector	Terminal				(Approx.)	
	12	13 Ground Lifting switch		Down	0	
B552	13		Lifting switch (front)	Other than above	Battery voltage	
B332	20	Ground	Litting Switch (front)	UP	0	
	28		Other than above	Battery voltage		

Is the inspection result normal?

>> Lifting switch (front) circuit is OK.

NO >> GO TO 2.

2.check lifting switch (front) circuit

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

Passenger s	eat control unit	Power seat switch		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B552	13	B554	13	Existed
B332	28	6554	28	Existed

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

Passenger seat control unit			Continuity	
Connector	Terminal	Ground	Continuity	
B552	13		Not existed	
D332	28	_	NOT EXISTED	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK LIFTING SWITCH (FRONT)

Check lifting switch (front).

Refer to SE-54, "PASSENGER SIDE: Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace power seat switch. Refer to <u>SE-200, "Removal and Installation"</u>.

f 4.CHECK PASSENGER SEAT CONTROL UNIT OUTPUT SIGNAL

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

(+) Passenger seat control unit			\/altaga (\/\)	
		(–)	Voltage (V) (Approx.)	
Connector	Terminal			
B552	13	Ground	Battery voltage	
B332	28	Ground	Dattery voltage	

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< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace passenger seat control unit. Refer to <u>SE-197, "Removal and Installation"</u>.

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-41, "Intermittent Incident".

>> INSPECTION END

PASSENGER SIDE: Component Inspection

INFOID:0000000004543935

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		Condition		Continuity
Terr	minal		matton	Continuity
	42		Down	Existed
32	13	Lifting quitab (front)	Other than above	Not existed
32	28	Lifting switch (front)	Up	Existed
			Other than above	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power seat switch. Refer to <u>SE-200, "Removal and Installation"</u>.

< DTC/CIRCUIT DIAGNOSIS >

LIFTING SWITCH (REAR)

DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000004543936

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- Lifting switch (rear) is equipped to the power seat switch on the seat cushion side surface.
- The operation signal is input to the driver seat control unit when the lifting switch (rear) is operated.

DRIVER SIDE : Component Function Check

INFOID:0000000004543937

1. CHECK FUNCTION

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

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

Is the indication normal?

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

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

DRIVER SIDE: Diagnosis Procedure

INFOID:0000000004543938

1. CHECK LIFTING SWITCH (REAR) SIGNAL

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

(+)		(–)	Voltage (V) (Approx.)	
Power seat switch				
Connector	Terminal		(11, 22.4)	
B511	14	Ground	Battory voltago	
ВЭТТ	29	- Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.check lifting switch (rear) circuit

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

Driver seat	iver seat control unit Power sear s		ear switch	Continuity
Connector	Terminal	Connector Terminal		Continuity
B503	14	B511	14	Existed
	29	B311	29	LAISteu

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

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< DTC/CIRCUIT DIAGNOSIS >

Driver seat control unit			Continuity
Connector	Terminal	Ground	Continuity
B503	14	Giouna	Not existed
B303	29		Not existed

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>SE-196, "Removal and Installation"</u>.

NO >> Repair or replace harness.

3.CHECK LIFTING SWITCH (REAR)

Check lifting switch (rear).

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

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace power seat switch. Refer to <u>SE-200, "Removal and Installation"</u>.

4. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-41, "Intermittent Incident".

>> INSPECTION END

DRIVER SIDE : Component Inspection

INFOID:0000000004543939

1. CHECK LIFTING SWITCH (REAR)

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

Power seat switch		Condition		Continuity
Terminal				
	14	Lifting switch (rear)	Down	Existed
32			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 SE-200, "Removal and Installation".

PASSENGER SIDE

PASSENGER SIDE: Description

INFOID:0000000004543940

- Lifting switch (rear) is equipped to the power seat switch on the seat cushion side surface.
- The operation signal is input to the passenger seat control unit when the lifting switch (rear) is operated.

PASSENGER SIDE: Component Function Check

INFOID:0000000004543941

1. CHECK FUNCTION

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

Is the indication normal?

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

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

< DTC/CIRCUIT DIAGNOSIS >

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000004543942

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1. CHECK LIFTING SWITCH (REAR) SIGNAL

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

	(+) Passenger seat control unit		(–) Condi		Voltage (V) (Ap- prox.)
Connector	Terminal				p.c,
	14	Ground	Lifting switch (front)	Down	0
B552	B552 29			Other than above	Battery voltage
D332			Litting Switch (Horit)	Up	0
				Other than above	Battery voltage

Is the inspection result normal?

>> Lifting switch (front) circuit is OK.

NO >> GO TO 2.

2.check lifting switch (rear) circuit

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

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

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

Passenger seat control unit			Continuity
Connector	Connector Terminal		Continuity
B552	14	Ground	Not existed
	29		Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK LIFTING SWITCH (REAR)

Check lifting switch (rear).

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

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace power seat switch. Refer to <u>SE-200, "Removal and Installation"</u>.

f 4.CHECK PASSENGER SEAT CONTROL UNIT OUTPUT SIGNAL

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

(+)			V-14 () ()	
Passenger seat control unit		(–)	Voltage (V) (Approx.)	
Connector	Terminal			
B552	14	Ground	Battery voltage	
5552	29	Ground	Battery Voltage	

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Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace passenger seat control unit. Refer to <u>SE-197, "Removal and Installation"</u>.

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-41, "Intermittent Incident".

>> INSPECTION END

PASSENGER SIDE: Component Inspection

INFOID:0000000004543943

1. CHECK LIFTING SWITCH (REAR)

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

Power seat switch Terminal		Condition		Continuity
32	14	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-200, "Removal and Installation"</u>.

POWER SEAT SWITCH GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

POWER SEAT SWITCH GROUND CIRCUIT

DRIVER SIDE

DRIVER SIDE: Diagnosis Procedure

INFOID:0000000004543944

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

Power seat switch			Continuity
Connector Terminal		Ground	Continuity
B511	32		Existed

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

2.CHECK POWER SEAT SWITCH INTERNAL CIRCUIT

Check lifting switch (rear).

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace power seat switch. Refer to SE-200, "Removal and Installation".

${f 3.}$ CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-41, "Intermittent Incident".

>> INSPECTION END

PASSENGER SIDE

PASSENGER SIDE: Diagnosis Procedure

INFOID:0000000004543945

CHECK POWER SEAT SWITCH GROUND CIRCUIT

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

Power seat switch			Continuity
Connector Terminal		Ground	Continuity
B554	32		Existed

Is the inspection result normal?

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

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

NO >> Repair or replace harness.

2.CHECK POWER SEAT SWITCH INTERNAL CIRCUIT

Check sliding switch.

Refer to SE-44, "PASSENGER SIDE: Component Inspection".

Is the inspection result normal?

>> GO TO 3. YES

NO >> Replace power seat switch. Refer to <u>SE-200, "Removal and Installation"</u>.

3.CHECK INTERMITTENT INCIDENT

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POWER SEAT SWITCH GROUND CIRCUIT

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Check intermittent incident.

Refer to GI-41, "Intermittent Incident".

>> INSPECTION END

< DTC/CIRCUIT DIAGNOSIS >

FORWARD SWITCH

DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000004543946

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

DRIVER SIDE: Component Function Check

INFOID:0000000004543947

1. CHECK FUNCTION

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

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

Is the indication normal?

YES >> Forward switch function is OK.

>> Refer to SE-61, "DRIVER SIDE: Diagnosis Procedure". NO

DRIVER SIDE: Diagnosis Procedure

INFOID:0000000004543948

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

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

(+) Forward switch		(–)	Condition	Voltage (V) (Approx.)
Connector	Terminal			, , ,
B512	41	Ground	Not in the sleep mode	5

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK FORWARD SWITCH CIRCUIT

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

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

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

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

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to SE-196, "Removal and Installation"

NO >> Repair or replace harness.

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3.check forward switch ground circuit

Check continuity between forward switch harness connector and ground.

Forward switch			Continuity
Connector Terminal		Ground	Continuity
B512	32		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK FORWARD SWITCH

Check forward switch.

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

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace forward switch. Refer to <u>SE-179</u>, "Exploded View".

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-41, "Intermittent Incident".

>> INSPECTION END

DRIVER SIDE: Component Inspection

INFOID:0000000004543949

1. CHECK FORWARD SWITCH

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

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace forward switch. Refer to <u>SE-179</u>, "Exploded View".

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000004543950

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

PASSENGER SIDE: Component Function Check

INFOID:0000000004543951

1. CHECK FUNCTION

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

Is the inspection result normal?

YES >> Forward switch function is OK.

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

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PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000004543952

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1. CHECK FORWARD SWITCH INPUT SIGNAL

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

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

Is the inspection result normal?

YES >> Forward switch circuit is OK.

NO >> GO TO 2.

2.CHECK FORWARD SWITCH CIRCUIT

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

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

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

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.FORWARD SWITCH GROUND CIRCUIT

Check continuity between forward switch harness connector and ground.

Forward switch			Continuity	
Connector Terminal		Ground	Continuity	
B556	32		Existed	

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Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK FORWARD SWITCH

Check forward switch.

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

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace forward switch. Refer to <u>SE-179</u>, "Exploded View".

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

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

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Connect passenger seat control unit connector.

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(+) Passenger seat control unit				Valtage (V)
		(-)	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-197, "Removal and Installation"</u>.

6. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-41, "Intermittent Incident".

>> INSPECTION END

PASSENGER SIDE: Component Inspection

INFOID:0000000004543953

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	ninal	Condition		Continuity	
32	32 41 Passenger's	Passenger side seatback	Folded up	Not existed	
	41	Passenger side seatback	Folded down	Existed	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace forward switch. Refer to <u>SE-179</u>, "Exploded View".

< DTC/CIRCUIT DIAGNOSIS >

SEAT BELT BUCKLE SWITCH

DRIVER SIDE

DRIVER SIDE: Description

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

DRIVER SIDE: Component Function Check

INFOID:0000000004543955

1. CHECK FUNCTION

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

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

Is the indication normal?

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

NO >> Refer to SE-65, "DRIVER SIDE: Diagnosis Procedure".

DRIVER SIDE: Diagnosis Procedure

INFOID:0000000004543956

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

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

Seat belt buckle s	(+) Seat belt buckle switch (driver side)		Condition	Voltage (V) (Approx.)
Connector	Terminal			(/ (pp. 6/)
B13	1	Ground	Not in the sleep mode	5

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

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

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

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

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

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

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to SE-196, "Removal and Installation".

NO >> Repair or replace harness.

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${f 3.}$ 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	Connector Terminal		Continuity
B13	2		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK SEAT BELT BUCKLE SWITCH

Check seat belt buckle switch (driver side).

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

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace seat belt buckle switch (driver side). Refer to <u>SE-179, "Exploded View"</u>.

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-41, "Intermittent Incident".

>> INSPECTION END

DRIVER SIDE: Component Inspection

INFOID:0000000004543957

1. CHECK SEAT BELT BUCKLE SWITCH (DRIVER SIDE)

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

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace seat belt buckle switch (driver side). Refer to <u>SE-179</u>, "Exploded View".

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000004543958

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

PASSENGER SIDE : Component Function Check

INFOID:0000000004543959

1. CHECK FUNCTION

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

Is the inspection result normal?

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

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

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PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000004543960

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1. CHECK SEAT BELT BUCKLE SWITCH SIGNAL

- 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			, , ,	
B552	5	Ground	Passenger side seat belt is fastened, and not in the sleep mode	5	
			Other than above	0	

Is the inspection result normal?

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

NO >> GO TO 2.

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

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

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

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

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK SEAT BELT BUCKLE SWITCH (PASSENGER SIDE) GROUND CIRCUIT

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

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

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

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

Check seat belt buckle switch.

Refer to SE-68, "PASSENGER SIDE: Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace seat belt buckle switch (passenger side). Refer to <u>SE-179</u>, "Exploded View".

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

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

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Connect passenger seat control unit connector.

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(+))/-lt () ()
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-197, "Removal and Installation"</u>.

6. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-41, "Intermittent Incident".

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:0000000004543961

1. CHECK SEAT BELT BUCKLE SWITCH (PASSENGER SIDE)

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

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace seat belt buckle switch (passenger side). Refer to <u>SE-179</u>. "Exploded View".

< DTC/CIRCUIT DIAGNOSIS >

SLIDING LIMIT SWITCH

DRIVER SIDE

DRIVER SIDE: Description

INFOID:0000000004543962

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

DRIVER SIDE: Component Function Check

INFOID:0000000004543963

1. CHECK FUNCTION

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

Test item	Condition		Status
FWD LIMIT SW Seat sliding	Front edge	ON	
I WD LIWII SW	D LIMIT SW Seat sliding	Other than above	OFF

Is the indication normal?

YES >> Sliding limit switch function is OK.

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

DRIVER SIDE: Diagnosis Procedure

INFOID:0000000004543964

1. CHECK SLIDING LIMIT SWITCH INPUT SIGNAL

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

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK SLIDING LIMIT SWITCH CIRCUIT

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

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

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

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

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to SE-196, "Removal and Installation".

NO >> Repair or replace harness. SE

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${f 3.}$ check sliding limit switch ground circuit

Check continuity between sliding limit switch harness connector and ground.

Sliding limit switch			Continuity	
Connector	Connector Terminal			
B514	32		Existed	

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK SLIDING LIMIT SWITCH

Check sliding limit switch.

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

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace sliding limit switch. Refer to <u>SE-179</u>, "Exploded View".

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-41, "Intermittent Incident".

>> INSPECTION END

DRIVER SIDE: Component Inspection

INFOID:0000000004543965

1. CHECK SLIDING LIMIT SWITCH

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

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace sliding limit switch. Refer to <u>SE-179</u>, "Exploded View".

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000004543966

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

PASSENGER SIDE: Component Function Check

INFOID:0000000004543967

1. CHECK FUNCTION

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

3 the mapection result norman:

YES >> Sliding limit switch function is OK.

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

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PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000004543968

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1. CHECK SLIDING LIMIT SWITCH SIGNAL

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

,	+) eat control unit	(-)	Condition	Voltage (V) (Approx.)	
Connector	Terminal			(, tpp.ox.)	
B552	4	Ground	Sliding position is front edge and not in the sleep mode	5	
			Other than above	0	

Is the inspection result normal?

YES >> Sliding switch circuit is OK.

NO >> GO TO 2.

2.CHECK SLIDING LIMIT SWITCH CIRCUIT

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

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

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

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK SLIDING LIMIT SWITCH GROUND CIRCUIT

Check continuity between sliding limit switch harness connector and ground.

Sliding limit switch			Continuity	
Connector	Terminal	Ground	Continuity	
B558	32		Existed	

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

CHECK SLIDING LIMIT SWITCH

Check sliding limit switch.

Refer to SE-72, "PASSENGER SIDE: Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace sliding limit switch. Refer to <u>SE-179</u>, "Exploded View".

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

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

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	(+)			V. Ita 0.0
Passenger seat control unit		(–)	Condition	Voltage (V) (Approx.)
Connector	Terminal			,
B552	4	Ground	Not in the sleep mode	5

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace passenger seat control unit. Refer to <u>SE-197, "Removal and Installation"</u>.

6. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-41, "Intermittent Incident".

>> INSPECTION END

PASSENGER SIDE: Component Inspection

INFOID:0000000004543969

1. CHECK SLIDING LIMIT SWITCH

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

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace sliding limit switch. Refer to <u>SE-179</u>, "Exploded View".

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POWER WALK-IN SWITCH

DRIVER SIDE

DRIVER SIDE: Description

INFOID:0000000004543970

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

DRIVER SIDE: Component Function Check

INFOID:0000000004543971

1. CHECK FUNCTION

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

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

Is the indication normal?

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

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

DRIVER SIDE: Diagnosis Procedure

INFOID:0000000004543972

$oldsymbol{1}$ -CHECK POWER WALK-IN SWITCH SIGNAL

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

Power wa	+) Ilk-in switch	(-)	Voltage (V) (Approx.)
Connector	Terminal		(/ .pp. 0/)
B513	30	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK POWER WALK-IN SWITCH CIRCUIT

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

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

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

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

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to SE-196, "Removal and Installation".

NO >> Repair or replace harness.

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3.check power walk-in switch ground circuit

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

Power walk-in switch			Continuity
Connector	Terminal	Ground	Continuity
B513	32		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK POWER WALK-IN SWITCH

Check power walk-in switch.

Refer to SE-74, "DRIVER SIDE: Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace power walk-in switch. Refer to <u>SE-179</u>, "Exploded View".

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-41, "Intermittent Incident".

>> INSPECTION END

DRIVER SIDE: Component Inspection

INFOID:0000000004543973

1. CHECK POWER WALK-IN SWITCH

- 1. Turn ignition switch OFF.
- Disconnect power walk-in switch connector.
- 3. Check continuity between power walk-in switch terminals.

Power walk-in switch		Condition		Continuity
Terr	Terminal		lation	Continuity
30	32	Power walk-in switch	Pressed	Existed
	32	FOWEI WAIK-III SWILCII	Released	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power walk-in switch. Refer to <u>SE-179</u>, "Exploded View".

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000004543974

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

PASSENGER SIDE: Component Function Check

INFOID:0000000004543975

1. CHECK FUNCTION

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

Is the indication normal?

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

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

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PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000004543976

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1. CHECK POWER WALK-IN SWITCH SIGNAL

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

	+) eat control unit	(-)	–) Condition		Voltage (V) (Approx.)
Connector	Terminal				(41)
B552	30	Ground	Power walk-in switch	Pressed	0
D332	30		FOWEI WAIK-III SWILCII	Released	Battery voltage

Is the inspection result normal?

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

NO >> GO TO 2.

2. CHECK POWER WALK-IN SWITCH CIRCUIT

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

Passenger se	Passenger seat control unit		Power walk-in switch	
Connector	Terminal	Connector Terminal		Continuity
B552	30	B557	30	Existed

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

Passenger seat control unit			Continuity
Connector	Terminal	Ground	Continuity
B552	30		Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK POWER WALK-IN SWITCH GROUND CIRCUIT

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

Power wa	Power walk-in switch		Continuity
Connector	Terminal	Ground	Continuity
B557	32		Existed

SE-75

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK POWER WALK-IN SWITCH

Check power walk-in switch.

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

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace power walk-in switch. Refer to <u>SE-179</u>. "Exploded View".

5. CHECK PASSENGER SEAT CONTROL UNIT OUTPUT

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

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Passenger se	Passenger seat control unit		Voltage (V) (Approx.)
Connector	Terminal		, , , ,
B552	30	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace passenger seat control unit. Refer to <u>SE-197, "Removal and Installation"</u>.

6. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-41, "Intermittent Incident".

>> INSPECTION END

PASSENGER SIDE: Component Inspection

INFOID:0000000004543977

1. CHECK POWER WALK-IN SWITCH

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

Power walk-in switch		Condition		Continuity
Terr	minal	Con	aition	Continuity
30	32	Power walk-in switch	Pressed	Existed
	32	FOWEI WAIK-III SWILCII	Released	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power walk-in switch. Refer to <u>SE-179</u>, "Exploded View".

DOOR SWITCH

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DOOR SWITCH

Description INFOID:000000004543978

Detects passenger side doors open or closed condition.

Component Function Check

1.CHECK FUNCTION

Check that passenger side power walk-in function operates.

Is the inspection result normal?

YES >> Door switch function is OK.

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

Diagnosis Procedure

1. CHECK PASSENGER SIDE DOOR SWITCH

Check passenger side door switch.

Refer to SE-77, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.check passenger side door switch input signal

1. Turn ignition switch OFF.

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

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

Is the inspection result normal?

YES >> Passenger side door switch circuit is OK.

NO >> GO TO 3.

3.CHECK PASSENGER SIDE DOOR SWITCH CIRCUIT

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

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

Passenger si	de door switch	Passenger se	eat control unit	Continuity
Connector	Terminal	Connector	Terminal	Continuity
B216	2	B552	8	Existed

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

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DOOR SWITCH

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

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-41, "Intermittent Incident".

>> INSPECTION END

< DTC/CIRCUIT DIAGNOSIS >

SLIDING SENSOR DRIVER SIDE

INFOID:0000000004543981

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- DRIVER SIDE : Description
- 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:0000000004543982

1. CHECK FUNCTION

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

Test item	Condition		Status
		Operate (forward)	Change (increase)*1
SLIDE PULSE	Seat sliding	Operate (backward)	Change (decrease)*1
		Release	No change ^{*1}

^{*1:} The value at the seat position attained when the battery is connected is considered to be 32768.

Is the indication normal?

YES >> Sliding sensor function is OK.

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

DRIVER SIDE: Diagnosis Procedure

INFOID:0000000004543983

1. CHECK SLIDING SENSOR SIGNAL

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

(+) Sliding sensor		(–) Condition		Signal (Reference value)	
Connector	Terminal				(1.0.0.0.00)
B526	24	Ground	Seat sliding	Operate Other than above	10mSec/div 2V/div JMJIA0119ZZ

Is the inspection result normal?

YES >> GO TO 2.

NO >> GO TO 3.

2.CHECK SLIDING SENSOR CIRCUIT

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

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

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

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

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to SE-196, "Removal and Installation".

NO >> Repair or replace harness.

3.CHECK SLIDING SENSOR POWER SUPPLY

Check voltage between sliding sensor harness connector and ground.

	+)		Voltage (V)	
Sliding 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	Driver seat control unit		sensor	Continuity
Connector	Terminal	Connector	Terminal	Continuity
B503	16	B526	16	Existed

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

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

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>SE-196, "Removal and Installation"</u>.

NO >> Repair or replace harness.

5. CHECK SLIDING SENSOR GROUND CIRCUIT

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

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

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

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

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

6.CHECK SLIDING SENSOR GROUND

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

Driver seat control unit			Continuity
Connector Terminal		Ground	Continuity
B503	3 31		Existed

Is the inspection result normal?

YES >> Replace sliding sensor. Refer to <u>SE-179</u>. "Exploded View".

NO >> Replace driver seat control unit. Refer to <u>SE-196, "Removal and Installation"</u>.

PASSENGER SIDE

PASSENGER SIDE: Description

INFOID:0000000004543984

INFOID:0000000004543985

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

PASSENGER SIDE : Component Function Check

1. CHECK FUNCTION

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

Is the indication normal?

YES >> Sliding sensor function is OK.

NO >> Refer to <u>SE-81, "PASSENGER SIDE : Diagnosis Procedure"</u>.

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000004543986

1. CHECK SLIDING SENSOR SIGNAL

Turn ignition switch OFF.

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

(+)					Signal		
Passenger sea	at control unit	(–)	Condition				(Reference value)
Connector	Terminal				(1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
B552	24	Ground	Seat sliding	Operate	10mSec/div		
				Other than above	0 V or 5 V		

Is the inspection result normal?

YES >> Sliding sensor function is OK.

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NO >> GO TO 2.

2. CHECK SLIDING SENSOR CIRCUIT

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

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

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

Passenger seat control unit			Continuity	
Connector	Connector Terminal		Continuity	
B552	24		Not existed	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK SLIDING SENSOR POWER SUPPLY

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

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

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

4. CHECK SLIDING SENSOR POWER SUPPLY CIRCUIT

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

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

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

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

Is the inspection result normal?

YES >> Replace passenger seat control unit. Refer to <u>SE-197</u>, "Removal and Installation".

NO >> Repair or replace harness.

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

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

< DTC/CIRCUIT DIAGNOSIS >

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

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

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

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

6. CHECK SLIDING SENSOR GROUND

1. Connect passenger seat control unit connector.

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

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

Is the inspection result normal?

YES >> Replace sliding sensor. Refer to <u>SE-179</u>, "Exploded View".

NO >> Replace passenger seat control unit. Refer to <u>SE-197</u>, "Removal and Installation".

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< DTC/CIRCUIT DIAGNOSIS >

SLIDING MOTOR DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000004543987

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

DRIVER SIDE: Component Function Check

INFOID:0000000004543988

1. CHECK FUNCTION

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

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

Is the operation of relevant parts normal?

YES >> Sliding motor function is OK.

NO >> Refer to SE-84, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE: Diagnosis Procedure

INFOID:0000000004543989

1. CHECK SLIDING MOTOR POWER SUPPLY

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

(+) Sliding motor		(–) Con		ndition	Voltage (V) (Approx.)
Connector	Connector Terminal				(* 155.57.1)
	35	Ground		Forward	Battery voltage
B525	33		Slide switch	Other than above	0
D020	42		Slide Switch	Backward	Battery voltage
	42			Other than above	0

Is the inspection result normal?

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

2. CHECK SLIDING MOTOR CIRCUIT

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

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

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

< DTC/CIRCUIT DIAGNOSIS >

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

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to SE-196, "Removal and Installation".

NO >> Repair or replace harness.

3. CHECK SLIDING MOTOR

Check sliding motor.

Refer to SE-85, "DRIVER SIDE: Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace sliding motor. Refer to <u>SE-179</u>, "Exploded View".

4.CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-41, "Intermittent Incident".

>> INSPECTION END

DRIVER SIDE: Component Inspection

1. CHECK SLIDING MOTOR-1

Visually check the sliding motor for foreign objects, and check that the sliding motor is not broken.

Is the inspection result normal?

YES >> GO TO 2.

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

2. CHECK SLIDING MOTOR-2

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

Item	Terr	Operation	
пеш	(+)	(-)	Operation
Cliding motor	35	42	Forward
Sliding motor	42	35	Backward

Is the inspection result normal?

YES >> INSPECTION END

>> Replace sliding motor. Refer to SE-179, "Exploded View".

PASSENGER SIDE

PASSENGER SIDE : Description

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

PASSENGER SIDE: Component Function Check

CHECK SLIDING MOTOR CIRCUIT

Check sliding operation with power seat switch.

Is the inspection result normal?

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YES >> Sliding motor function is OK.

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

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000004543993

1. CHECK SLIDING MOTOR POWER SUPPLY

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

(+) Sliding motor		(–)	Condition		Voltage (V) (Approx.)	
Connector	Terminal				(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	25			Forward	Battery voltage	
D567	B567 35	Ground	Slide switch	Other than above	0	
B307				Backward	Battery voltage	
	42			Other than above	0	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK SLIDING MOTOR CIRCUIT

1. Disconnect passenger seat control unit connector.

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

Slidin	g motor	Passenger seat control unit		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B567	35	B553	35	Existed
D307	42	B000	42	Existed

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

Passenger	Passenger seat control unit		Continuity
Connector	Terminal	Ground	Continuity
B553	35	Ground	Not existed
D000	42	- -	INOL EXISIED

Is the inspection result normal?

YES >> Replace passenger seat control unit. Refer to <u>SE-197</u>, "Removal and Installation".

NO >> Repair or replace harness.

3. CHECK SLIDING MOTOR

Check sliding motor.

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

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace sliding motor. Refer to <u>SE-179</u>, "Exploded View".

4. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-41, "Intermittent Incident".

>> INSPECTION END

< DTC/CIRCUIT DIAGNOSIS >

PASSENGER SIDE: Component Inspection

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1. CHECK SLIDING MOTOR-1

Visually check the sliding motor for foreign objects, and check that the sliding motor is not broken.

Is the inspection result normal?

YES >> GO TO 2.

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

2. CHECK SLIDING MOTOR-2

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

Item	Teri	Operation	
пеш	(+)	(-)	Operation
Sliding motor	35	42	Forward
Sliding motor	42	35	Backward

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace sliding motor. Refer to <u>SE-179, "Exploded View"</u>.

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< DTC/CIRCUIT DIAGNOSIS >

RECLINING MOTOR DRIVER SIDE

DRIVER SIDE: Description

INFOID:0000000004543995

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

DRIVER SIDE : Component Function Check

INFOID:0000000004543996

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 SE-88, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE: Diagnosis Procedure

INFOID:0000000004543997

1. CHECK RECLINING MOTOR POWER SUPPLY

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

(+) Reclining motor		(–)	Condition		Voltage (V) (Approx.)	
Connector	Terminal				(* (Þ. 5/11)	
	26	Ground	Reclining switch	Forward	Battery voltage	
DEQ4	36			Other than above	0	
D324				Backward	Battery voltage	
	44			Other than above	0	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK RECLINING MOTOR CIRCUIT

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

Reclin	ing motor	Driver seat control unit		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B524	36	B504	36	Existed
5324	44	5304	44	LAISIGU

Check continuity between reclining motor harness connector and ground.

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

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>SE-196, "Removal and Installation"</u>.

NO >> Repair or replace harness.

< DTC/CIRCUIT DIAGNOSIS >

3.CHECK RECLINING MOTOR

Check reclining motor.

Refer to SE-89, "DRIVER SIDE: Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace reclining motor. Refer to <u>SE-179</u>, "Exploded View".

4. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-41, "Intermittent Incident".

>> INSPECTION END

DRIVER SIDE: Component Inspection

CHECK RECLINING MOTOR-1

Visually check the sliding motor for foreign objects, and check that the reclining motor is not broken.

Is the inspection result normal?

YES >> GO TO 2.

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

2.CHECK RECLINING MOTOR-2

Turn ignition switch OFF.

Disconnect reclining motor connector.

Supply reclining motor terminals with battery voltage and check operation.

ltem	Ten	Operation	
ICIII	(+)	(-)	Operation
Declining motor	36	44	Forward
Reclining motor	44	36	Backward

Is the inspection result normal?

YES >> INSPECTION END

>> Replace reclining motor. Refer to <u>SE-179</u>, "Exploded View".

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.

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

PASSENGER SIDE : Diagnosis Procedure

1. CHECK RECLINING MOTOR POWER SUPPLY

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

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	(+) Reclining motor		Condition		Voltage (V) (Approx.)
Connector	Terminal				(11 -)
	26			Forward	Battery voltage
B566	36	Ground	Reclining switch	Other than above	0
D300	44			Backward	Battery voltage
	44			Other than above	0

Is the inspection result normal?

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

2. CHECK RECLINING MOTOR CIRCUIT

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

Reclinii	ng motor	Passenger seat control unit		Continuity
Connector	Terminal	Connector	Terminal	Continuity
DESS	36	B553	36	Existed
D300	B566 44		44	Existed

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

Reclining motor			Continuity	
Connector	Connector Terminal		Continuity	
B566	36	- Ground	Not existed	
B300	44		Not existed	

Is the inspection result normal?

YES >> Replace passenger seat control unit. Refer to SE-197, "Removal and Installation".

NO >> Repair or replace harness.

3.CHECK RECLINING MOTOR

Check reclining motor.

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

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace reclining motor. Refer to <u>SE-179, "Exploded View"</u>.

4. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-41, "Intermittent Incident".

>> INSPECTION END

PASSENGER SIDE: Component Inspection

1. CHECK RECLINING MOTOR-1

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

YES >> GO TO 2.

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

2.CHECK RECLINING MOTOR-2

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INFOID:0000000004544002

< DTC/CIRCUIT DIAGNOSIS >

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

Item	Terr	Operation	
пеш	(+)	(-)	Operation
Reclining motor	36	44	Forward
	44	36	Backward

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace reclining motor. Refer to <u>SE-179</u>, "Exploded View".

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LIFTING MOTOR (FRONT)

DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000004544003

- 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:0000000004544004

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

DRIVER SIDE: Diagnosis Procedure

INFOID:0000000004544005

1. CHECK LIFTING MOTOR (FRONT) POWER SUPPLY

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

(+) Lifting motor (front)		(–)	Condition		Voltage (V) (Approx.)
Connector	Terminal				(11 - 7
	37	Ground	Lifting switch (front)	Downward	Battery voltage
B528	31			Other than above	0
B326	45			Upward	Battery voltage
	45			Other than above	0

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK LIFTING MOTOR (FRONT) CIRCUIT

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

Lifting m	otor (front)	Driver seat control unit		Continuity
Connector	Terminal	Connector Terminal		Continuity
B528	37	B504	37	Existed
D320	45	5304	45	LXISIGU

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

Lifting n	Lifting motor (front)		Continuity	
Connector	Connector Terminal		Continuity	
B528	37	- Ground	Not existed	
D320	45		Not existed	

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>SE-196, "Removal and Installation"</u>.

NO >> Repair or replace harness.

< DTC/CIRCUIT DIAGNOSIS >

3.check lifting motor (front)

Check lifting motor (front).

Refer to SE-93, "DRIVER SIDE: Component Inspection".

Is the inspection result normal?

>> GO TO 4.

NO >> Replace lifting motor (front). Refer to <u>SE-179</u>, "Exploded View".

4. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-41, "Intermittent Incident".

>> INSPECTION END

DRIVER SIDE: Component Inspection

1. CHECK LIFTING MOTOR (FRONT) -1

Visually check the lifting motor (front) for foreign objects, and check that the lifting motor (front) is not broken.

Is the inspection result normal?

YES >> GO TO 2.

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

2.CHECK LIFTING MOTOR (FRONT) -2

Turn ignition switch OFF.

Disconnect lifting motor (front) connector.

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

Item	Ten	Operation	
item	(+)	(-)	Operation
Lifting motor (front)	37	45	Downward
	45	37	Upward

Is the inspection result normal?

YES >> INSPECTION END

>> Replace lifting motor (front). Refer to <u>SE-179</u>, "Exploded View".

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.

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

PASSENGER SIDE : Diagnosis Procedure

1. CHECK LIFTING MOTOR (FRONT) POWER SUPPLY

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

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	(+) Lifting motor (front)		Condition		Voltage (V) (Approx.)
Connector	Terminal				(11 -)
	B569 45	- Ground	Lifting switch (front)	Downward	Battery voltage
PEG0				Other than above	0
D309				Upward	Battery voltage
				Other than above	0

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK LIFTING MOTOR (FRONT) CIRCUIT

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

Lifting m	otor (front)	Passenger seat control unit		Continuity
Connector	Terminal	Connector	Terminal	Continuity
PE60	37 B553		37	Existed
B569	45	B000	45	Existed

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

Lifting motor (front)			Continuity	
Connector	Connector Terminal		Continuity	
B569	37	Ground	Not existed	
B309	45		Not existed	

Is the inspection result normal?

YES >> Replace passenger seat control unit. Refer to SE-197, "Removal and Installation".

NO >> Repair or replace harness.

3.CHECK LIFTING MOTOR (FRONT)

Check lifting motor (front).

Refer to SE-94, "PASSENGER SIDE: Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

IO >> Replace lifting motor (front). Refer to <u>SE-179, "Exploded View"</u>.

4. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-41, "Intermittent Incident".

>> INSPECTION END

PASSENGER SIDE: Component Inspection

INFOID:0000000004544010

1. CHECK LIFTING MOTOR (FRONT) -1

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

YES >> GO TO 2.

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

2. CHECK LIFTING MOTOR (FRONT) -2

< DTC/CIRCUIT DIAGNOSIS >

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

Item	Terr	Operation	
Item	(+)	(-)	Ореганоп
Lifting motor (front)	37	45	Downward
	45	37	Upward

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace lifting motor (front). Refer to <u>SE-179</u>, "Exploded View".

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LIFTING MOTOR (REAR)

DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000004544011

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

DRIVER SIDE: Component Function Check

INFOID:0000000004544012

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-96, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE: Diagnosis Procedure

INFOID:0000000004544013

1. CHECK LIFTING MOTOR (REAR) POWER SUPPLY

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

(+) Lifting motor (rear)		(-)		dition	Voltage (V) (Approx.)
Connector	Terminal				(11 - 7
	38 B530	Ground	Lifting quitch (roor)	Upward	Battery voltage
P520				Other than above	0
B330	20	39	Lifting switch (rear)	Downward	Battery voltage
	39			Other than above	0

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK LIFTING MOTOR (REAR) CIRCUIT

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

Lifting m	notor (rear)	Driver seat control unit		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B530	38	B504	38	Existed
D330	39	5304	39	LAISIEU

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

Lifting	motor (rear)		Continuity	
Connector	Terminal	Ground	Continuity	
B530	38	Ground	Not existed	
B 330	39		Not existed	

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>SE-196, "Removal and Installation"</u>.

NO >> Repair or replace harness.

< DTC/CIRCUIT DIAGNOSIS >

3.CHECK LIFTING MOTOR (REAR)

Check lifting motor (rear).

Refer to SE-97, "DRIVER SIDE: Component Inspection".

Is the inspection result normal?

>> GO TO 4.

NO >> Replace lifting motor (rear). Refer to <u>SE-179</u>, "Exploded View".

4. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-41, "Intermittent Incident".

>> INSPECTION END

DRIVER SIDE: Component Inspection

1.CHECK LIFTING MOTOR (REAR) -1

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

YES >> GO TO 2.

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

2.CHECK LIFTING MOTOR (REAR) -2

Turn ignition switch OFF.

Disconnect lifting motor (rear) connector.

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

Item	Teri	Operation	
	(+)	(-)	Operation
Lifting motor (rear)	38	39	Upward
Litting motor (rear)	39	38	Downward

Is the inspection result normal?

YES >> INSPECTION END

>> Replace lifting motor (rear).

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.

>> Refer to SE-97, "PASSENGER SIDE : Diagnosis Procedure". NO

PASSENGER SIDE : Diagnosis Procedure

1. CHECK LIFTING MOTOR (REAR) POWER SUPPLY

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

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	(+) Lifting motor (rear)		Condition		Voltage (V) (Approx.)
Connector	Connector Terminal				(. 44)
	38 B570	Ground	Lifting quitch (roor)	Upward	Battery voltage
DE70				Other than above	0
D370	20	Ground	Lifting switch (rear)	Downward	Battery voltage
	39			Other than above	0

Is the inspection result normal?

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

2.CHECK LIFTING MOTOR (REAR) CIRCUIT

1. Disconnect passenger seat control unit connector.

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

Lifting m	otor (rear)	Passenger seat control unit		Continuity
Connector	Terminal	Connector	Terminal	Continuity
P570	38	B553	38	Existed
B570	39		39	Existed

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

Lifting m	otor (rear)		Continuity	
Connector	Connector Terminal		Continuity	
B570	38	Ground	Not existed	
B370	39		Not existed	

Is the inspection result normal?

YES >> Replace passenger seat control unit. Refer to <u>SE-197</u>, "Removal and Installation".

NO >> Repair or replace harness.

3.CHECK LIFTING MOTOR (REAR)

Check lifting motor (rear).

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

Is the inspection result normal?

YES >> GO TO 4.

>> Replace lifting motor (rear). Refer to <u>SE-179, "Exploded View".</u>

4. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-41, "Intermittent Incident".

>> INSPECTION END

PASSENGER SIDE: Component Inspection

INFOID:0000000004544018

1. CHECK LIFTING MOTOR (REAR) -1

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

YES >> GO TO 2.

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

2. CHECK LIFTING MOTOR (REAR) -2

< DTC/CIRCUIT DIAGNOSIS >

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

Item	Terr	Operation	
псп	(+)	(-)	Operation
Lifting motor (rear)	38	39	Up
Litting motor (rear)	39	38	Down

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace lifting motor (rear). Refer to <u>SE-179, "Exploded View"</u>.

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< DTC/CIRCUIT DIAGNOSIS >

HEATED SEAT SWITCH

DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000004544030

Adjusts heated seat temperature and deactivates heated seat.

DRIVER SIDE: Component Function Check

INFOID:0000000004544031

1. CHECK FUNCTION

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

Is the inspection result normal?

YES >> Heated seat switch function is OK.

NO >> Refer to <u>SE-100, "DRIVER SIDE : Diagnosis Procedure"</u>.

DRIVER SIDE: Diagnosis Procedure

INFOID:0000000004544032

1. CHECK HEATED SEAT CONTROL UNIT INPUT SIGNAL

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

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

Is the inspection result normal?

YES >> Heated seat switch circuit is OK.

NO >> GO TO 2.

2. CHECK HEATED SEAT SWITCH CIRCUIT

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

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

Check continuity between heated seat switch harness connector and ground.

< DTC/CIRCUIT DIAGNOSIS >

Heated s	eat switch		Continuity
Connector	Terminal	Ground	Continuity
A/T models: M141 M/T models: M175	2		Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK HEATED SEAT SWITCH

Check heated seat switch.

Refer to SE-101, "DRIVER SIDE: Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace heated seat switch. Refer to SE-204, "Removal and Installation".

4. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-41, "Intermittent Incident".

>> INSPECTION END

DRIVER SIDE: Component Inspection

1. CHECK FRONT HEATED SEAT SWITCH

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

Heated seat switch		• ""		Resistance	
Connector	Terr	minal	Condition		(KΩ) (Approx.)
A/T models: M141 M/T models: M175	4		ON	0	
	1		OFF	∞	
			1 (Min. temperature)	2.400	
	-		11	2	1.800
	2	Heated seat switch position	3	1.200	
			4	0.910	
			5	0.620	
			6 (Max. temperature)	0.348	

Is the inspection result normal?

>> INSPECTION END YES

>> Replace heated seat switch. Refer to SE-204, "Removal and Installation".

PASSENGER SIDE

PASSENGER SIDE: Description

Adjusts heated seat temperature and deactivates heated seat.

PASSENGER SIDE: Component Function Check

1. CHECK FUNCTION

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

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< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> Heated seat switch function is OK.

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

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000004544036

1. CHECK HEATED SEAT CONTROL UNIT INPUT SIGNAL

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

	(+) Heated seat control unit		(–) Con		Voltage (V) (Approx.)
Connector	Terminal				
		Ground Heated seat switch position	OFF	0	
				1 (Min. temperature)	12.24
				2	12.33
B575	B575 67			3	12.49
				4	12.63
				5	12.76
				6 (Max. temperature)	12.90

Is the inspection result normal?

YES >> Heated seat switch circuit is OK.

NO >> GO TO 2.

2. CHECK HEATED SEAT SWITCH CIRCUIT

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

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

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

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK HEATED SEAT SWITCH

Check heated seat switch.

Refer to SE-103, "PASSENGER SIDE: Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace heated seat switch. Refer to <u>SE-204, "Removal and Installation"</u>.

4. CHECK INTERMITTENT INCIDENT

< DTC/CIRCUIT DIAGNOSIS >

Check intermittent incident.

Refer to GI-41, "Intermittent Incident".

>> INSPECTION END

PASSENGER SIDE: Component Inspection

INFOID:0000000004544037

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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		O and division		Resistance	
Connector	Terr	ninal	Condition		$(K\Omega)$ (Approx.)
	4		ON	0	
	1		OFF	∞	
			1 (Min. temperature)	2.400	
		2	Heated seat switch position	2	1.800
A/T models: M142 M/T models: M176	5			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-204, "Removal and Installation"</u>.

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Revision: 2009 October SE-103 2009 G37 Coupe

HEATED SEAT RELAY

< DTC/CIRCUIT DIAGNOSIS >

HEATED SEAT RELAY

Description INFOID:000000004544038

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

Component Function Check

INFOID:0000000004544039

1. CHECK FUNCTION

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

Is the inspection result normal?

YES >> Heated seat relay function is OK.

NO >> Refer to <u>SE-104, "Diagnosis Procedure"</u>

Diagnosis Procedure

INFOID:0000000004544040

1. CHECK HEATED SEAT RELAY POWER SUPPLY

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

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK HEATED SEAT RELAY POWER SUPPLY CIRCUIT

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

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

Check continuity between heated seat relay terminal connector and ground.

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

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

3.CHECK HEATED SEAT RELAY GROUND CIRCUIT

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

HEATED SEAT RELAY

< DTC/CIRCUIT DIAGNOSIS >

Heated seat relay			Continuity
Connector	Terminal	Ground	Continuity
M70	1		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK HEATED SEAT RELAY

Check heated seat relay.

Refer to SE-105, "Component Inspection".

Is the inspection result normal?

YES >> Heated seat relay circuit is OK.

NO >> Replace heated seat relay.

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-41, "Intermittent Incident"

>> INSPECTION END

Component Inspection

1. CHECK HEATED SEAT RELAY

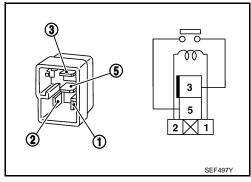
- 1. Turn ignition switch OFF.
- 2. Disconnect heated seat relay.
- 3. Check continuity between heated seat relay terminals.

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace heated seat relay.



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Revision: 2009 October SE-105 2009 G37 Coupe

HEAT SENSOR

< DTC/CIRCUIT DIAGNOSIS >

HEAT SENSOR

DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000004544042

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

DRIVER SIDE: Component Function Check

INFOID:0000000004544043

1. CHECK FUNCTION

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

Is the inspection result normal?

YES >> Heat sensor function is OK.

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

DRIVER SIDE: Diagnosis Procedure

INFOID:0000000004544044

1. CHECK HEAT SENSOR INPUT SIGNAL

1. Turn ignition switch ON.

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

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

NOTE:

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

Is the inspection result normal?

YES >> heat sensor is OK.

NO >> GO TO 2.

2. CHECK HEAT SENSOR CIRCUIT

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

Heated sea	Heated seat control unit		Seat cushion heater	
Connector	Terminal	Connector	Terminal	Continuity
B518	69	B517	69	Existed

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

Heated seat control unit			Continuity
Connector	Terminal	Ground	Continuity
B518	69		Not existed

Is the inspection result normal?

HEAT SENSOR

< DTC/CIRCUIT DIAGNOSIS >

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK HEAT SENSOR POWER SUPPLY

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

(+) Seat cushion heater			_\t_=\\\\
		(–)	Voltage (V) (Approx.)
Connector	Terminal		,
B517	66	Ground	Battery voltage

Is the inspection result normal?

>> GO TO 5. YES

NO >> GO TO 4.

4.CHECK HEAT SENSOR POWER SUPPLY CIRCUIT

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

Heated seat control unit		Seat cushion heater		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B518	66	B517	66	Existed

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

Heated seat 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-107, "DRIVER SIDE: Component Inspection".

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace seat cushion heater. Refer to SE-182, "Removal and Installation".

6. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-41, "Intermittent Incident"

>> INSPECTION END

DRIVER SIDE: Component Inspection

1. CHECK HEAT SENSOR

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

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HEAT SENSOR

< DTC/CIRCUIT DIAGNOSIS >

Seat cushion heater		0	Resistance	
Terminal		Condition	(KΩ) (Approx.)	
66 69		When heat sensor temperature is 25°C (77°F)	9.9 – 10.1	

NOTE:

Resistance value changes according to temperature.

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace seat cushion heater. Refer to <u>SE-179</u>, "Exploded View".

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000004544046

INFOID:0000000004544047

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

PASSENGER SIDE: Component Function Check

1. CHECK FUNCTION

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

Is the inspection result normal?

YES >> Heat sensor function is OK.

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

PASSENGER SIDE: Diagnosis Procedure

INFOID:0000000004544048

1. CHECK HEAT SENSOR INPUT SIGNAL

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

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

NOTE:

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

Is the inspection result normal?

YES >> heat sensor is OK.

NO >> GO TO 2.

2.CHECK HEAT SENSOR CIRCUIT

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

HEAT SENSOR

< DTC/CIRCUIT DIAGNOSIS >

Heated seat control unit		Seat cush	Continuity		
Connector	Terminal	Connector Terminal		Continuity	
B575	69	B574	69	Existed	

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

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3. CHECK HEAT SENSOR POWER SUPPLY

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

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

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

4. CHECK HEAT SENSOR POWER SUPPLY CIRCUIT

- 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 cushion heater		Continuity
Connector	Terminal	Connector Terminal		Continuity
B575	66	B574	66	Existed

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

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

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

5.CHECK HEAT SENSOR

Check heat sensor. Refer to SE-110, "PASSENGER SIDE: Component Inspection".

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace seat cushion heater. Refer to <u>SE-179</u>, "Exploded View".

6.CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-41, "Intermittent Incident"

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HEAT SENSOR

< DTC/CIRCUIT DIAGNOSIS >

>> INSPECTION END

PASSENGER SIDE: Component Inspection

INFOID:0000000004544049

1. CHECK HEAT SENSOR

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

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

NOTE:

Resistance value changes according to temperature.

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace seat cushion heater. Refer to <u>SE-179</u>, "Exploded View".

< DTC/CIRCUIT DIAGNOSIS >

SEAT CUSHION HEATER

DRIVER SIDE

DRIVER SIDE: Description

INFOID:0000000004544050

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Warms the seat cushion.

DRIVER SIDE: Component Function Check

INFOID:0000000004544051

INFOID:0000000004544052

1. CHECK FUNCTION

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

Is the inspection result normal?

YES >> Seat cushion heater function is OK.

NO >> Refer to SE-111, "DRIVER SIDE: Diagnosis Procedure". Е

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DRIVER SIDE: Diagnosis Procedure

1. CHECK SEAT CUSHION HEATER INPUT SIGNAL

Terminal

68

Turn ignition switch OFF.

2. Disconnect seat cushion heater connector.

(+)

Seat cushion heater

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

(-)

Ground

(V) x.)	
voltage	

Voltage

(Appro

0

0 - Battery

NOTE:

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

Heated seat

Condition

Operates

Other than above

Is the inspection result normal?

YES >> GO TO 3.

Connector

B517

NO >> GO TO 2.

2.CHECK SEAT CUSHION HEATER CIRCUIT

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

Seat cush	on heater Heated seat control unit		Heated seat control unit	
Connector	Terminal	Connector Terminal		Continuity
B517	68	B518	68	Existed

Check continuity between seat cushion heater harness connector and ground.

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

Is the inspection result normal?

YES >> Replace heated seat control unit. Refer to SE-198, "Removal and Installation".

NO >> Repair or replace harness.

3.check seat cushion heater

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< DTC/CIRCUIT DIAGNOSIS >

Check seat cushion heater.

Refer to SE-112, "DRIVER SIDE: Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace seat cushion heater. Refer to <u>SE-179, "Exploded View"</u>.

f 4.CHECK SEAT CUSHION HEATER GROUND CIRCUIT

Check continuity between seat cushion heater harness connector and ground.

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

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-41, "Intermittent Incident"

>> INSPECTION END

DRIVER SIDE: Component Inspection

INFOID:0000000004544053

1. CHECK SEAT CUSHION HEATER

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

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

NOTF:

Resistance value changes according to temperature.

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace seat cushion heater. Refer to <u>SE-179, "Exploded View"</u>.

PASSENGER SIDE

PASSENGER SIDE: Description

INFOID:0000000004544054

Warms the seat cushion.

PASSENGER SIDE: Component Function Check

INFOID:0000000004544055

1. CHECK FUNCTION

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

Is the inspection result normal?

YES >> Seat cushion heater function is OK.

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

PASSENGER SIDE: Diagnosis Procedure

INFOID:0000000004544056

1. CHECK FRONT SEAT CUSHION HEATER INPUT SIGNAL

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< DTC/CIRCUIT DIAGNOSIS >

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

(+) Seat cushion heater		(-)	Condition		Voltage (V) (Approx.)
Connector	Terminal				(44)
B574	68	Ground Heated seat		Operates	0 – Battery voltage
D374	08	66 Ground neated	nealed Seal	Other than above	0

NOTE:

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.check seat cushion heater circuit

- Turn ignition switch OFF.
- Disconnect heated seat control unit connector.
- 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	
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 SE-198, "Removal and Installation".

NO >> Repair or replace harness.

3.CHECK SEAT CUSHION HEATER

Check seat cushion heater.

Refer to SE-114, "PASSENGER SIDE: Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace seat cushion heater. Refer to <u>SE-179</u>, "Exploded View".

4. CHECK SEAT CUSHION HEATER GROUND CIRCUIT

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

Seat cush	nion heater		Continuity
Connector	Terminal	Ground	Continuity
B574	59		Existed

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

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< DTC/CIRCUIT DIAGNOSIS >

Refer to GI-41, "Intermittent Incident"

>> INSPECTION END

PASSENGER SIDE: Component Inspection

INFOID:0000000004544057

1. CHECK SEAT CUSHION HEATER

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

Seat cushion heater		O litt	Resistance	
Terr	minal	Condition	(Ω) (Approx.)	
59 68		When heat sensor temperature is 20°C (68°F)	2.6 – 3.0	

NOTE:

Resistance value changes according to temperature.

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace seat cushion heater. Refer to <u>SE-179</u>, "Exploded View".

SEATBACK HEATER

< DTC/CIRCUIT DIAGNOSIS >

SEATBACK HEATER

DRIVER SIDE

DRIVER SIDE: Description

Warms the seat cushion.

DRIVER SIDE: Component Function Check

INFOID:0000000004544059

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1. CHECK FUNCTION

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

Is the inspection result normal?

YES >> Seatback heater function is OK.

NO >> Refer to <u>SE-115</u>, "<u>DRIVER SIDE</u>: <u>Diagnosis Procedure</u>".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000004544060

1. CHECK SEATBACK HEATER

1. Turn ignition switch OFF.

2. Disconnect seatback heater connector.

Check resistance between seatback heater terminals.

Seatback heater				Resistance	
Connector	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-179</u>, "Exploded View".

NO >> Replace seatback heater. Refer to <u>SE-179</u>, "Exploded View".

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000004544061

Warms the seat cushion.

PASSENGER SIDE: Component Function Check

INFOID:0000000004544062

1. CHECK FUNCTION

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

SE-115

Is the inspection result normal?

YES >> Seatback heater function is OK.

NO >> Refer to <u>SE-115</u>, "PASSENGER SIDE : Diagnosis Procedure".

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INFOID:00000000004544063

PASSENGER SIDE : Diagnosis Procedure

1. CHECK SEATBACK HEATER

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

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2009 G37 Coupe

SEATBACK HEATER

< DTC/CIRCUIT DIAGNOSIS >

Seatback heater			0	Resistance	
Connector	ector Terminal		Condition	(Ω) (Approx.)	
B582	1 2		When heat sensor temperature is 20°C (68°F)	4.0 – 4.7	

NOTE:

Resistance value changes according to temperature.

Is the inspection result normal?

YES >> Replace seat cushion heater. Refer to <u>SE-179, "Exploded View"</u>.

NO >> Replace seatback heater. Refer to <u>SE-179, "Exploded View"</u>.

HEATED SEAT SWITCH INDICATOR

< DTC/CIRCUIT DIAGNOSIS >

HEATED SEAT SWITCH INDICATOR

DRIVER SIDE

DRIVER SIDE: Description

INFOID:0000000004544064

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

DRIVER SIDE: Component Function Check

INFOID:0000000004544065

1. CHECK FUNCTION

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

Is the inspection result normal?

YES >> Heated seat switch indicator function is OK.

NO >> Refer to SE-117, "DRIVER SIDE: Diagnosis Procedure".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000004544066

${f 1}$.CHECK HEATED SEAT SWITCH INDICATOR GROUND CIRCUIT

Turn ignition switch OFF

- 2. Disconnect heated seat switch connector.
- Check continuity between heated seat switch harness connector and ground.

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

Is the inspection result normal?

>> Replace heated seat switch. Refer to <u>SE-204, "Removal and Installation"</u>.

NO >> Repair or replace harness.

PASSENGER SIDE

PASSENGER SIDE: Description

INFOID:0000000004544067

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

PASSENGER SIDE: Component Function Check

INFOID:0000000004544068

1. CHECK FUNCTION

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

Is the inspection result normal?

YFS >> Heated seat switch indicator function is OK.

>> Refer to SE-117, "PASSENGER SIDE: Diagnosis Procedure". NO

N

PASSENGER SIDE: Diagnosis Procedure

1. CHECK HEATED SEAT SWITCH INDICATOR GROUND CIRCUIT

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

Heated seat switch Continuity Connector **Terminal** Ground A/T models: M142 Existed M/T models: M176

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INFOID:0000000004544069

HEATED SEAT SWITCH INDICATOR

< DTC/CIRCUIT DIAGNOSIS >

YES >> Replace heated seat switch. Refer to <u>SE-204, "Removal and Installation"</u>.

NO >> Repair or replace harness.

LUMBAR SUPPORT

Wiring Diagram - LUMBAR SUPPORT -

INFOID:0000000004544070

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

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LUMBAR SUPPORT

LUMBAR SUPPORT

Commector No. 6502 Commector No. 6502 Commector No. 6505 Commector No. Commector No. Commector No. Commector Type NSG4PW-CS Commector Type	Terminal Color Signal Name [Specification] Terminal Color Signal Name [Specification] No. of Wire Signal Name [Specification] No. of Wir	Connector No. M6 Connector No. M6 Connector No. M7
Connector No. B11 Connector Name WIRE TO WIRE Connector Type NS16FW-CS H.S. (40 17 17 17 17 17 17 18 17 18 17 18 18	Terminal Color Signal Na. Orlwine Or	Connector None WIRE TO WIRE Connector Type ITH80FW-CS16-TM4 H.S. R. No. 10 Miles Connector Type ITH80FW-CS16-TM4 R. No. 10 Wire Signal Namm
Connector Name WRE TO WIRE Connector Type TH80FW-CS16-TM4 K.S.	Terminal Golor Signal Name [Spacification] No. of Wive 99 SB	Connector No. B506

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LUMBAR SUPPORT

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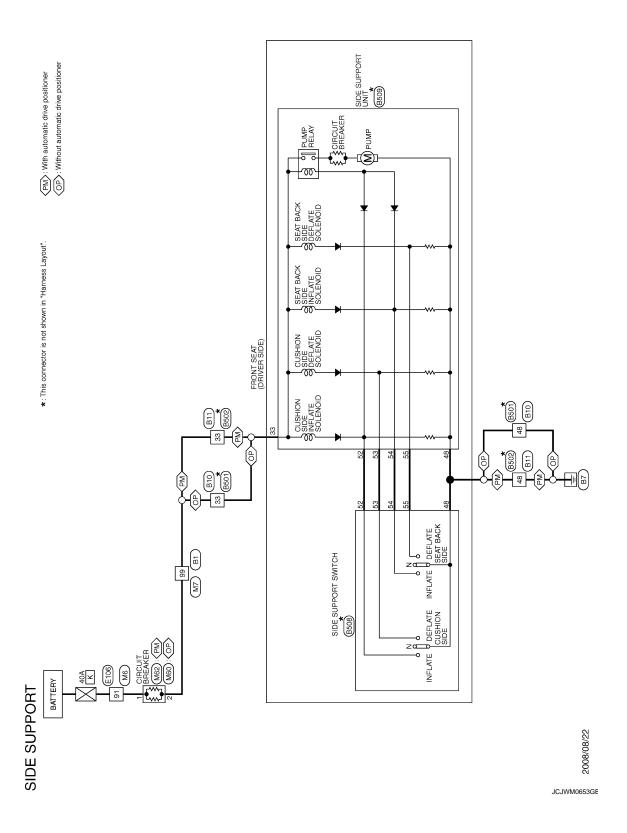
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LUMBAR SUPPORT	M62	CIRCUIT BREAKER	M02FW-LC	<u> </u>	Signal Name [Specification]	-	1
3AR S		r Name			Color of Wire	W	۵
LUME	Connector No.	Connector Name	Connector Type	是 H.S.	Terminal No.	-	2

SIDE SUPPORT

Wiring Diagram - SIDE SUPPORT -

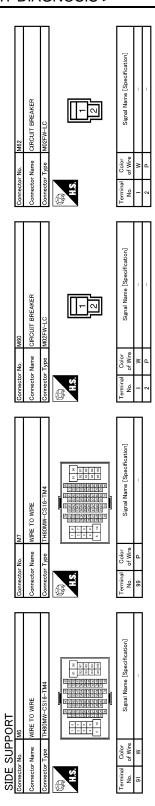
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SIDE SUPPORT

ostion]	oston)	А
F-CS 32 3 19 48 60 Signal Name [Specification]	WRE TO WRE HBOTW-CS16-TM4 R HBOTW-CS16-TM4 E HBOTW-CS16-TM4 E HBOTW-CS16-TM4 Signal Name [Specification]	В
Connector No. B501	F106	С
Connector Connector Connector No. 33 48	Connector Connector Connector No.	D
eoification]	ocification]	Е
B11 WIRE TO WIRE NS16FW-CS NS16FW-CS Signal Name (Specification)	SIDE SUPPORT UNIT NS06FW-CS 55	F
	6 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	G
Connector No. Connector Name Connector Type H.S. H.S. 33 SB 48 B	Connector No. Connector Name Connector Type Connector Type No.	
		Н
CS CS IN THE STATE	Signal Name [Specification]	1
B10 WIRE TO WIRE NS12FW-CS 60 48 19 3 32 Signal Name	SIDE SUPPORT SWITCH NSD6FW-CS 155 52 48 Signal Name [S	SE
ninal SS 8	ector of the state	K
O O O I I I I I I I I I I I I I I I I I		L
(rion)	[00] [10]	
WRE CSIG-TM4 CSIG-TM4 Signal Name [Specification]	WIRE 1-LC 32 48 21 33 67 60 32 8mai Name [Specification]	M
	17 Signal Nam	
H I II	B502 WINE TO WINE NS I	N
SIDE SUPPORT Connector No. Connector Type TH80FW Co	Connector No. Connector Name Connector Type Connec	0
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Revision: 2009 October SE-123 2009 G37 Coupe



JCJWM0655GE

< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION

DRIVER SEAT CONTROL UNIT (WITHOUT AUTOMATIC DRIVE POSITIONER)

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Reference Value

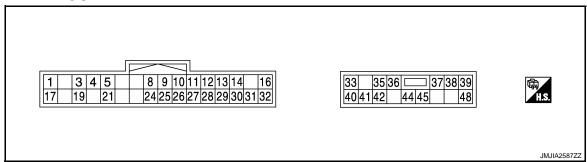
VALUES ON THE DIAGNOSIS TOOL

CONSULT-III MONITOR ITEM

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

^{*1:} A/T model

TERMINAL LAYOUT



PHYSICAL VALUES

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^{*2:} M/T model

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

< ECU DIAGNOSIS INFORMATION >

	nal No. color)	Description				Voltage (V)
(+)	(–)	Signal name	Input/ Out- put	Condition		(Approx.)
3 (R/Y)		CAN-H	_	_	_	_
4	Ground	Sliding limit switch	Input	Seat sliding front ed	ge	0
(O/B)	Ground	signal	IIIput	Other than above*		5
5	0	Seat belt buckle	lt	Ignition switch OFF tened*	and seat belt fas-	5
(L)	Ground	switch signal (driver side)	Input	Ignition switch ON a	nd seat belt released	Battery voltage
		ŕ		Other than above		0
11 (BR)	Ground	Sliding switch back- ward signal	Input	Sliding switch	Operate (backward)	0
(DIV)		ward Signal			Release	Battery voltage
12 (SB)	Ground	Reclining switch backward signal	Input	Reclining switch	Operate (backward)	0
(35)		backward signal			Release	Battery voltage
13 (LG/R)	Ground	Lifting switch (front) downward signal	Input	Lifting switch (front)	Operate (downward)	0
(LO/11)		downward signal		(Holli)	Release	Battery voltage
14 (G/B)	Ground	Lifting switch (rear) downward signal	Input	Lifting switch (rear)	Operate (downward)	0
(0/2)	(O/D) downward signal				Release	Battery voltage
16 (O)	Ground	Sensor power supply	Out- put	_		Battery voltage
19 (V)	_	CAN-L	_	-	_	_
24 (R)	Ground	Sliding sensor signal	Input	Seat sliding	Operate	10mSec/div 2V/div JMJIA0119ZZ
					Stop	0 or 5
26 (Y)	Ground	Sliding switch for- ward signal	Input	Sliding switch	Operate (forward)	0
		wara digital			Release	Battery voltage
27 (R/G)	Ground	Reclining switch for- ward signal	Input	Reclining switch	Operate (forward)	0
		-			Release	Battery voltage
28 (W/B)	Ground	Lifting switch (front) upward signal	Input	Seat lifting switch (front)	Operate (upward)	0
		.,		,,	Release	Battery voltage
29 (R/L)	Ground	Lifting switch (rear) upward signal	Input	Seat lifting switch (rear)	Operate (upward)	0
(. ()		upwaru Signal		(.50.)	Release	Battery voltage

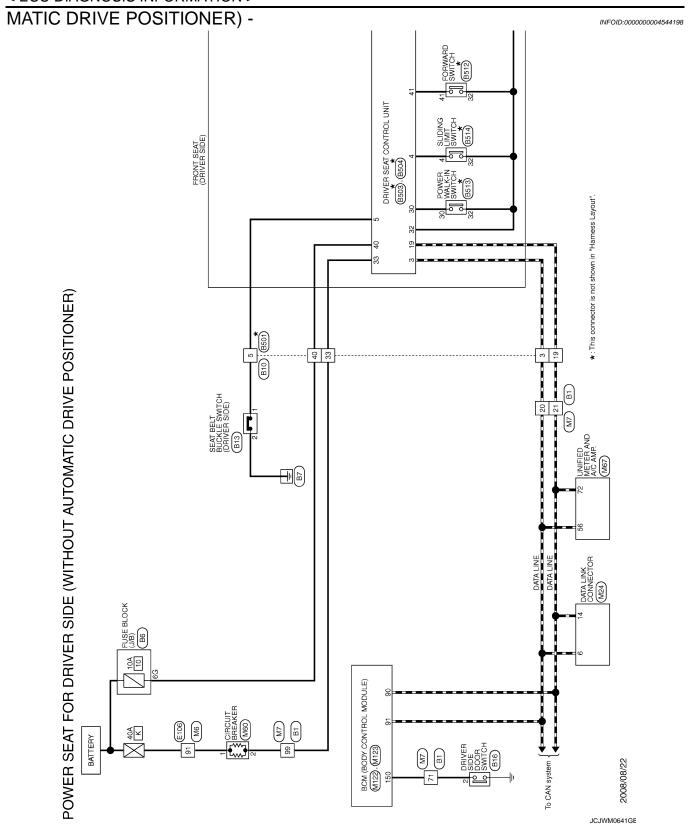
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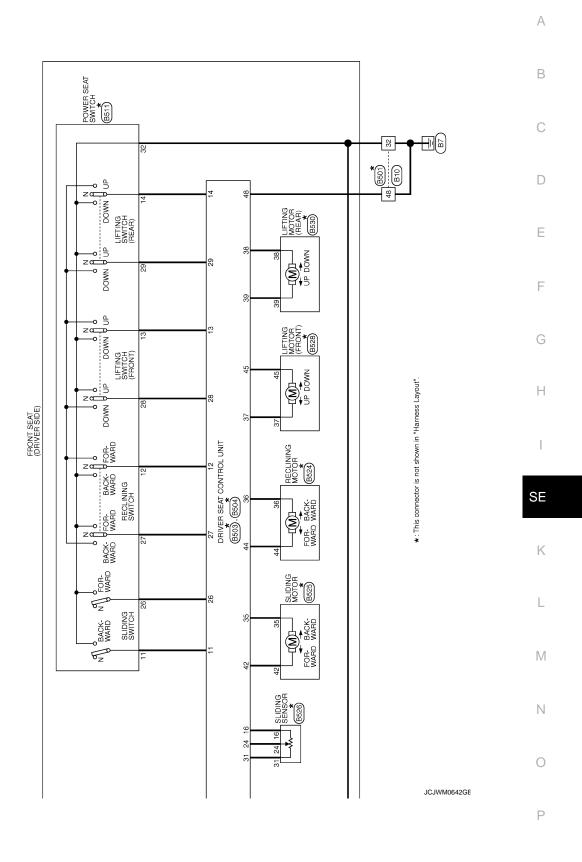
	nal No. color)	Description				Valt 0.0	-
(+)	(-)	Signal name	Input/ Out- put	Con	dition	Voltage (V) (Approx.)	
30	Ground	Power walk-in switch	Input	Power walk-in	Pressed	0	
(P)	0.00	signal		switch	Other than above	Battery voltage	
31 (GR)	Ground	Sensor ground	_	-	_	0	
32 (B/W)	Ground	Ground (signal)	_	-	_	0	
33 (R)	Ground	Power source (C/B)	Input	-	_	Battery voltage	
35	Ground	Sliding motor forward	Out-	Seat sliding	Operate (forward)	Battery voltage	
(W/R)		output	put	g	Release	0	
36	Ground	Reclining motor for-	Out-	Seat reclining	Operate (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	
(G/VV)		downward odiput	put		Stop	0	
38 (L/Y)	Ground	Lifting motor (rear) upward output	Out-	Seat lifting (rear)	Operate (upward)	Battery voltage	
(L/1)		upward output	put		Stop	0	
39 (R/B)	Ground	Lifting motor (rear) downward output	Out-	Seat lifting (rear)	Operate (downward)	Battery voltage	
(100)		downward output	Put		Stop	0	
40 (R/W)	Ground	Power source (Fuse)	Input	_		Battery voltage	
41	Ground	Forward switch sig-	Input	Seatback is folded	down	0	
(Y/G)		nal		Other than above*		5	
42 (W)	Ground	Sliding motor back- ward output	Out- put	Seat sliding	Operate (backward)	Battery voltage	
()			F 01		Stop	0	
44 (P)	Ground	Reclining motor backward output	Out- put	Seat reclining	Operate (backward)	Battery voltage	
(.)		and a company	F 01		Stop	0	
45 (L/R)	Ground	Lifting motor (front) upward output	Out- put	Seat lifting (front)	Operate (upward)	Battery voltage	
(=/11)		apmara output	Put		Stop	0	
48 (B)	Ground	Ground (power)	_	-	_	0	

^{*:} Not in the sleep mode.

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

< ECU DIAGNOSIS INFORMATION >





< ECU DIAGNOSIS INFORMATION >

Connector No. B13 Connector Name SIDE) Connector Type A03FW #\$2 1	Terminal Color No. of Wire Signal Name [Specification] 1 G 2 B	27 R.G RECLIMING SW (FORWARD) 28 W/B FRONT LIFTING SW (JPWARD) 29 P/L REAR LIFTING SW (JPWARD) 30 P POWER WALK-IN SW 31 GR SENSOR RAME 32 B/W GND (SIGNAL)	
Connector Name WIRE TO WIRE Connector Type NS12FW-CS MS2FW-CS	Terminal Color No. of Wire Signal Name [Specification] 1	Connector No. B903 Connector Name DRIVER SEAT CONTROL UNIT Connector Type TH32PW Connector Type TH32PW Connector Type TH32PW TH32PW	Terminal Color
THOUT AUTOMATIC DRIVE POSITIONER) Connector No. B6 Connector Name FUSE BLOCK (J/B) Connector Type NSI/PER-CS Connector Type OSITIONER) Connector Type OSITIONER Connecto	Terminal Color Signal Name Specification Color No. Color Color	Connector No. 8501 Connector Name WIRE TO WIRE Connector Type NS12MW-CS 1.3 33 5	Terminal Color Signal Name [Specification] Color No. Color Color
POWER SEAT FOR DRIVER SIDE (WIT Connector No. BI Connector Name WIRE TO WIRE CONNECTOR THROFW-CS16-TM4	Terminal Color Signal Name [Specification] No. of Wire Signal Name [Specification] 21 V 21 V 2 39 SB - -	Connector No. B16 Connector Name DRIVER SIDE DOOR SWITCH Connector Type A03FW	Terminal Color No. of Wire Signal Name [Specification]

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< ECU DIAGNOSIS INFORMATION >

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BB12 SQDFW CORWARD SWITCH (DRIVER SIDE) CORWARD CORWARD CORWARD SQDFW CORWARD CORWARD	Signal Name [Specification]	SLIDING MOTOR (DRIVER SIDE) 6098-0239 42 35	Signal Name [Specification]		В
	Color Sign of Wire Y/G		, 9 a		С
Connector No. Connector Name Connector Type H.S.	Cc New of New Cc New of New New	Connector No. Connector Name Connector Type	Colo		D
R SIDE) POSITIONER()	(feation)	POSITIONER)	ifeation)		Е
POWER SEAT SWITCH (DRIVER SIDE.) WITHOUT AUTOMATIC DRIVE POSITIONER) INSTORM-CS 32 14 29 12 27 11 26 13 28	Signal Name (Specification)	BES4 PECI, IMNG MOTOR (DRIVER SIDE) WITHOUT AUTOMATIC DRIVE POSTITIONER? NS02FW-CS 44 36	Signal Name (Specification)		F
_ e e	Color Of Wire BR BR BR BR BR BR CA CA CA CA CA CA CA C		Of Wire Of Wire G/Y		G
Ocumentor No. Commentor No. Commentor Type H.S.	Terminal No. No. 112 112 114 28 28 28 28 28 28 32 32	Connector No. Connector Type Connector Type H.S.	Terminal No. 36 44		Н
THOUT AUTOMATIC DRIVE POSITIONER) 48 B GND POWER)		4 (DRIVER	Signal Name [Specification]		I
ATIC DRIV		B514 SLIDING LIMIT SWITCH (DRIVER SIDE) TK02MBR-P 32 4	Signal Name		SE
UT AUTON		ector No. ector Name ector Type	Terminal Color No. of Wire 4 0/B 32 B/W		K
E (WITHOU)	(2) (2) (3) (4) (4) (5) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7	Comm			L
ORIVER SII	Signal Name (Specification) BAT (C/B) SLIDING MOTOR (FORWARD) RECLINING MOTOR (FORWARD) REAR LIFTING MOTOR (PUWARD) REAR LIFTING MOTOR (BACKWARD) REAR LIFTING MOTOR (BACKWARD) FORWARD SW SLIDING MOTOR (BACKWARD) RECLINING MOTOR (BACKWARD) RECLINING MOTOR (CACKWARD)	B513 POWER WALK-IN SWITCH (DRIVER SIDE) TK02FBR 32 30	Signal Name [Specification]		M
DOWER SEAT FOR DRIVER SIDE (WIT Connector No. 18304 Deliver SEAT CONTROL UNIT		B513 POWER WALK-IN S SIDE) TK02FBR 32 30			Ν
POWER S Connector No. Connector Name Connector Type	Color Color	Connector No. Connector Name Connector Type	Color Colo		0
				JCJWM0644GE	D
					_

Revision: 2009 October SE-131 2009 G37 Coupe

< ECU DIAGNOSIS INFORMATION >

POWER SEAT FO Connector Name SLIDING S Connector Name SLIDING S Connector Type 6008 0241	OR DRIVER SIDE (WI SENSOR (DRIVER SIDE)	THOUT AUTOMATIC DRIVE POSITIONER, Connector No. B328 Connector Name BID: WINDOM TAUTOMATIC DRIVER Connector Type NISOZFW-CS LEAN AND CONNECTOR TOWN TO BRIVE POSITIONER CONNECTOR TYPE NISOZFW-CS ALS. AND CONNECTOR TOWN TO BRIVE POSITIONER CONNECTOR TYPE NISOZFW-CS ALS. AND CONNECTOR TOWN TO BRIVE POSITIONER AND CONNECTOR TYPE NISOZFW-CS AND CONNECTOR TYPE NISOZFW-CS	Connector No. 6530 Connector No. 16530 Connector Name SurptivimHour Autrowarts Drave Postnokes) Connector Type NS02FW-CS H.S.	Connector No. E106 Connector Type TH80FW-CS16-TM4 Reserve Res
Terminal Color No. 16 Of Wire 16 O State S	Signal Name [Specification]	Terminal Color Signal Name [Specification] 37 G/W 45 L/R -	Terminal Color Signal Name [Specification] Signal Name Specification] 38 L/Y	Terminal Color Signal Name Specification
Connector No M6	din	Connector No. M7	Connector No. M24 Connector No. M24 Connector No. M24	Connector No. M60
Connector Name WIRE 107	[투] d	TH80MW-CS16-TM-		$\neg \neg$
H.S.		H.S. H.S. S.	1.5 1 2 3 4 5 6 7 8	H8.
Terminal Color No. of Wire	Signal Name [Specification]	Terminal Color Signal Name [Specification] No. of Wire Signal Name [Specification] 20	Terminal Golor Signal Name [Specification] No. of Wire Signal Name [Specification] 14 14 14 14 14 14 14 1	Terminal Color Signal Name [Specification] No. of Wire Signal Name [Specification] N
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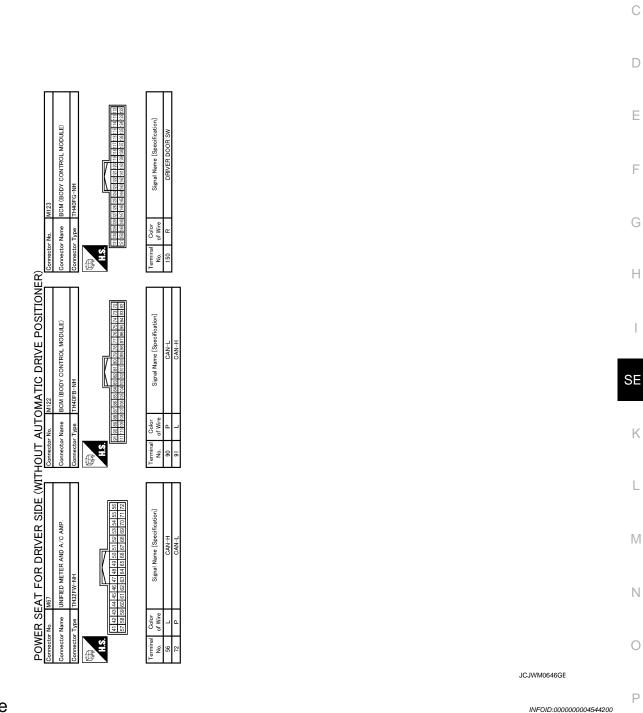
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< ECU DIAGNOSIS INFORMATION >



Fail-Safe

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

< ECU DIAGNOSIS INFORMATION >

Operating in fail-safe mode	Malfunction Item	Related DTC	Diagnosis
	CAN	111000	With ADP: ADP-48, "DTC Logic"
Only manual functions operate normally.	CAN communication*1	U1000	Without ADP: ADP-48, "DTC Logic"
Only manual functions operate normally.	Tilt sensor	B2118	ADP-53, "DTC Logic"
	Telescopic sensor	B2119	ADP-56, "DTC Logic"
	Detent switch	B2126	ADP-59, "DTC Logic"
	Parking brake switch	B2127	ADP-61, "DTC Logic"
Only manual functions, except door mirror, operate normally.	UART communication	B2128	ADP-63, "DTC Logic"
Only manual functions, except seat sliding, operate normally.	Seat sliding output*1	B2112	ADP-49, "DTC Logic"
Only manual functions, except seat reclining, operate normally.	Seat reclining output*1	B2113	ADP-51, "DTC Logic"

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

DTC Index

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: ADP-48, "DTC
				Logic"
SEAT SLIDE*2	0	1 20	Seat slide motor output	With ADP: ADP-49, "DTC Logic"
[B2112]	0	1-39	Seat slide motor output	Without ADP: ADP-49, "DTC Logic"
SEAT RECLINING* ² [B2113]	0	1-39	Seat reclining motor output	ADP-51, "DTC Logic"
TILT SENSOR [B2118]	0	1-39	Tilt sensor input	ADP-53, "DTC Logic"
TELESCO SENSOR [B2119]	0	1-39	Telescopic sensor input	ADP-56, "DTC Logic"
DETENT SW [B2126]	0	1-39	Detention switch condition	ADP-59, "DTC Logic"
PARKING BRAKE [B2127]	0	1-39	Parking brake switch condition	ADP-61, "DTC Logic"
UART COMM [B2128]	0	1-39	UART communication	ADP-63, "DTC Logic"

< 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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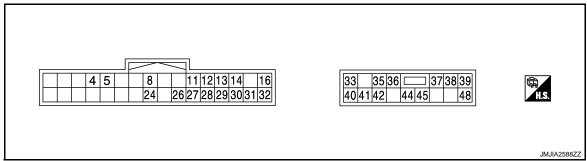
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PASSENGER SEAT CONTROL UNIT

Reference Value

TERMINAL LAYOUT



PHYSICAL VALUES

	nal No. color)	Description		Con	dition	Voltage (V)
(+)	(-)	Signal name	Input/ Output	COII	altion	(Approx.)
4	Ground	Sliding limit switch	Input	Seat sliding front ed	dge	0
(O/B)	Ground	signal	трис	Other than above*		5
_		Seat belt buckle		Ignition switch OFF and seat belt fastened*		5
5 (L)	Ground	switch signal (pas- senger side)	Input	Ignition switch ON leased	and seat belt re-	Battery voltage
				Other than above Open		0
					Open	0
(LG)		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
(DIX)		wara signal			Release	Battery voltage
12 (SB)	Ground	Reclining switch backward signal	Input	Reclining switch	Operate (backward)	0
(00)		backward Signal			Release	Battery voltage
13 (LG/R)	Ground	Lifting switch (front) downward signal	Input	Lifting switch (front)	Operate (downward)	0
(LG/IX)		downward signal		(HOIII)	Release	Battery voltage
14 (G/B)	Ground	Lifting switch (rear) downward signal	Input	Lifting switch (rear)	Operate (downward)	0
(3/5)		aswiiwara signai		(.501)	Release	Battery voltage
16 (O)	Ground	Sensor power supply	Output	-	_	Battery voltage

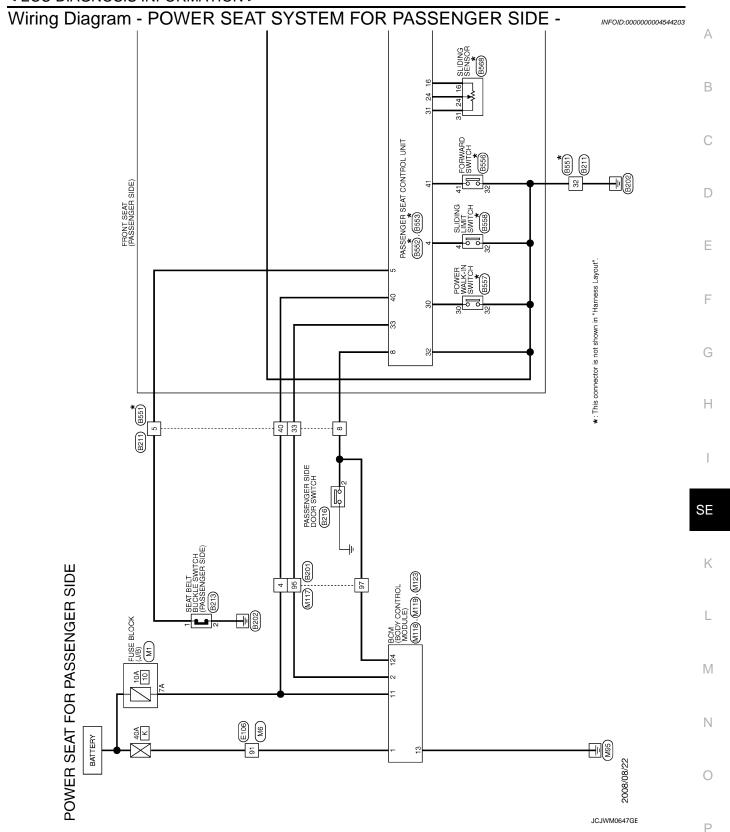
< ECU DIAGNOSIS INFORMATION >

	inal No. e color)	Description		000	dition	Voltage (V)
(+)	(-)	Signal name	Input/ Output	Con	aition	(Approx.)
24 (R)	Ground	Sliding sensor signal	Input	Seat sliding	Operate	10mSec/div 2V/div JMJIA0119ZZ
					Stop	0 or 5
26 (Y)	Ground	Sliding switch for- ward signal	Input	Sliding switch	Operate (forward)	0
(1)		ward signal			Release	Battery voltage
27 (R/G)	Ground	Reclining switch forward signal	Input	Reclining switch	Operate (forward)	0
(17/3)		waid signal			Release	Battery voltage
28 (W/B)	Ground	Lifting switch (front) upward signal	Input	Seat lifting switch (front)	Operate (upward)	0
()		ap mara engina.		(iiii)	Release	Battery voltage
29 (P/L)	Ground	Lifting switch (rear) upward signal	Input	Seat lifting switch (rear)	Operate (upward)	0
(- / _/		2p		(*****)	Release	Battery voltage
30 (P)	Ground	Power walk-in switch signal	Input	Power walk-in switch	Pressed Other than above	0 Battery voltage
31 (GR)	Ground	Sensor ground	_	-	_	0
32 (B/W)	Ground	Ground (signal)	_	-	_	0
33 (R)	Ground	Power source (C/B)	Input	-	_	Battery voltage
35 (W/R)	Ground	Sliding motor for- ward output	Output	Seat sliding	Operate (forward)	Battery voltage
()		oaipai			Release	0
36 (G/Y)	Ground	Reclining motor for- ward output signal	Output	Seat reclining	Operate (forward)	Battery voltage
(3,1)					Release	0
37 (G/W)	Ground	Lifting motor (front) downward output	Output	Seat lifting (front)	Operate (downward)	Battery voltage
(=)					Stop	0
38 (L/Y)	Ground	Lifting motor (rear) upward output	Output	Seat lifting (rear)	Operate (upward)	Battery voltage
· · · /		, ,			Stop	0
39 (R/B)	Ground	Lifting motor (rear) downward output	Output	Seat lifting (rear)	Operate (downward)	Battery voltage
		'			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)	2.54.14	nal	put	Other than above*		5

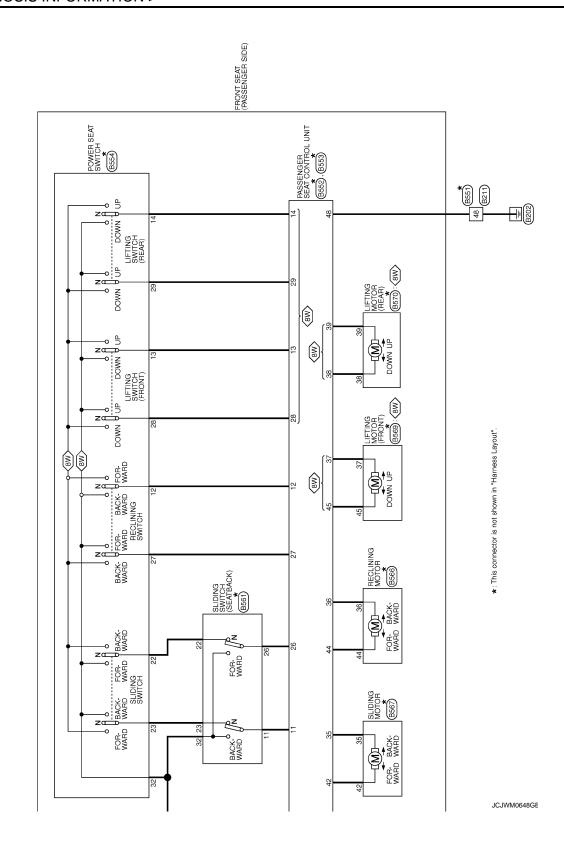
< ECU DIAGNOSIS INFORMATION >

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

^{*:} Not in the sleep mode.



⟨8W⟩: With 8-way power passenger's seat



< ECU DIAGNOSIS INFORMATION >

5	tion)				Α
A03FW A03FW 2 3	Signal Name (Specification)				В
B216 PASSEN A03FW	of Wire GR				С
	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				D
5	ification)	(UPWARD) (UPWARD) IN SW IN SW SISOR OR)			Е
2213 SEAT BELT BUCKLE SWITCH (PASSENGER SIDE) AGGEW 2 3	Signal Name (Specification)	FRONT LIFTING SW (LPWARD) RAR HUTING SW (LPWARD) PROWNER'N SW GWD FOR SENSOR GND (SENSOR)			F
	of Wife	W/B P/L P/L B/W B/W			G
Connector No. Connector Type Connector Type H.S. Terminal Color	2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	28 20 31 31 31 31			Н
	Specification]	CONTROL UNIT	perefication] IMIT SW E SW SS SW SS SW GACKWARD) (BACKWARD) (BACKWARD) (BACKWARD) (ICONWWARD) V (DOWNWARD) V (DOWNWARD) V (CONWWARD) V (CONWWARD) (CONWARD)		I
	Signal Name (Specification)	WWW SEAT	Signal Name [Specification] SLIDING LIMIT SW BUCALE SW DOOR SW SLIDING SW (BACKWARD) SLIDING SW (BACKWARD) FROAT LIFTING SW (DOWNWARD) FROAT LIFTING SW (COWNWARD) FROAT LIFTING SW (COWNWARD) FROAT LIFTING SW (FORWARD) FROAT LIFTING SW (FORWARD) FROAT LINING SW (FORWARD) FROAT LINING SW (FORWARD)	\$	SE
ector No. ector Type	of Wire of Wir	Connector No. B552 Connector Name PASSI Connector Type TH32F	Color Color		K
	2	Connu	Tomir No. 0. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		L
SSENGER	Signal Name (Specification)	48 60 48 60	Signal Name (Specification)		M
POWER SEAT FOR PASSENGER Domestor Name WIRE TO WIRE Domestor Type TH80FW-CSI6-TM4 LS. Company Comp	Signal Nam	WIRE TO WIRE NS12MW-CS 32 5 40 ■■ 67 66 8	Signal Nam		Ν
POWER SEA Connector Name WW Connector Type Title Connector Type Title Co	0 Wire of	nector No.	Terminal Color No. of Wire No. of Wire S LC S S LX MA 40 R/W 48 B B M 48 B M 4		0
Oom Conn		Con los	<u> </u>	JCJWM0649GE	
					Р

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< ECU DIAGNOSIS INFORMATION >

POWER SEAT FOR PASSENGER SIDE					
Connector No. B553	48 B	GND (POWER)	Connector No.	B554	Connector No. B556
			Connector Name	POWER SEAT SWITCH (PASSENGER SIDE)	Connector Name FORWARD SWITCH (PASSENGER SIDE)
Connector Type NS16FW-CS			Connector Type	NS10FW-CS	Connector Type S02FW
H.S. [22] [25] [25] [27] [20] [21]			H.S.	00 14	Cappy H.S.
44 45				23 22 28 13 27 12	41 32
Terminal Color Signal Name [Specification]			Terminal Color No. of Wire	Signal Name [Specification]	Terminal Golor Signal Name [Specification]
33 R BAT (C/B) 35 W/R SLIDING MOTOR (FORWARD)			12 SB 13 LG/R	1 1	32 B/W – 41 Y/G –
Y/9 0			14 G/B	1 1	
			Н		
39 R/B REAR LIFTING MOTOR (DOWNWARD)			27 R/G	1	
1 5/X			+		
W			Н	-	
44 P RECLINING MOTOR (BACKWARD) 45 L/R FRONT LIFTING MOTOR (UPWARD)					
ļ					
Connector No. B557	Connector No. B558		Connector No.	B561	Connector No. B566
		SLIDING LIMIT SWITCH (PASSENGER SIDE)	Connector Name	SLIDING SWITCH (SEATBACK) (PASSENGER SIDE)	
Connector Type TK02FBR	Connector Type TK02MBR-P	4-6	Connector Type	A06FW	Connector Type NS02FW-CS
Great Control of the	Si Si		SE 字		C. C
		32 4		2322 1112632	44 30
Terminal Color	Terminal Golor		Terminal Golor		Terminal Color
_	_	Signal Name [Specification]	_	Signal Name [Specification]	
30 P	4 0/B	ĺ	11 BR	1	36 G/Y -
	┨		╁		-
			╁	1	
			32 B/W	1	

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< ECU DIAGNOSIS INFORMATION >

SENGER	ation]	ation)		Α
BSTO LIFTING MOTOR (REAR) (PASSENGER SIDE) NSOZYW-CS 38 39	Signal Name [Specification]	WIRE TO WIRE THBOMM-CSIG-TM4 THBOMM-CSI		В
Connector No. B570 Connector Name LIFTING MO SIDE) Connector Type NS02FW-CS LLS	Of Wire R/B	Name Type O Wine R R Y Y Y Y Y Y R		С
Conne	Terminal No. 38	Connector Connector Connector No. H.S. H.S. H.S. S.		D
(PASSENGER	effcation)	of feation)		Е
B569 LIFTING MOTOR (FRONT) (PASSENGER SIDE) NSOZFW-CS 4537	Signal Name (Specification)	WRE TO WIRE THEOMW-CSI 6-TM4 THEOMW-CSI 6-TM4 THEOMW-CSI 1-TM4		F
	Color G.W.re L./R	MW MAG		G
Connector No. Connector Name Connector Type	Co Co Co Co Co Co Co Co	Connector No. Connector Name Connector Type H.S. H.S. H.S. H.S. 91 W		Н
PASSENGER SIDE	Signal Name (Specification)	OCK (J/B) M2 ZA IA ZA SA 4A ZA SA 4A Signal Name [Specification]	_	I
BE68 SLIDING SENSOR (PASSENGER SIDE) 6098-0241 24 31 16	Signal Nan	NATE BLOCK (J/B) NSOBFW-MZ Sigral Nan		SE
hector No.	Color Color Color No. Of Wire 16 O 24 R 24 R Color O O O O O O O O O	estor No. estor Name estor Type inal Color A R R		K
	Le L	Sommer Factor of the second of		L
BER SIDI	ا ا			_
ESST FOR PASSENGEI SLDING MOTOR (PASSENGER SIDE) 6086-0239 3542	Signal Name (Specification)	WRE CSIG-TM4 CSIG-TM4 Signal Name [Specification]		M
OR PA	Signal Name	W-CSI 6-TM4		
EAT FC	Ш	M/RE TO THEOFY-Y-Y-Y-Y-Y-Y-Y-Y-Y-Y-Y-Y-Y-Y-Y-Y-Y-Y-		Ν
POWER SEAT FOR PASSENGER Connector Name SLIDING MOTOR (PASSENGER SIDE) Connector Type 6098-0239 H.S.	Color of Wire	Connector No. Connector Name Connector Type Terminal Color No. of Wire No. of Wire 15		0
Connects Connects Connects H.S.	Terminal No. 35	Connector Connector Connector No.	JCJWM0651GE	U
			335WINIOUS TOL	Р

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				[2] [2] [3]			
	M123	Connector Name BCM (BODY CONTROL MODULE)	TH40FG-NH		Signal Name [Specification]	PASSENGER DOOR SW	
	П	r Name	Connector Type	131 130 123 123	Color of Wire	υ	
	Connector No.	Connecto	Connecto	H.S.	Terminal No.	124	
	M119	Connector Name BCM (BODY CONTROL MODULE)	Connector Type NS16FW-CS	5 6 7 8 9 10 12 13 14 15 16 17 18 19	Signal Name [Specification]	BAT (FUSE)	dNS
	or No.	or Name	or Type	4=	Color of Wire	~	8
	Connector No.	Connect	Connect	是 H.S.	Terminal No.	Ξ	13
SIDE					Г	Γ	_
POWER SEAT FOR PASSENGER SIDE	M118	Connector Name BCM (BODY CONTROL MODULE)	M03FB-LC		Signal Name [Specification]	BAT (F/L)	POWER WINDOW POWER SUPPLY(BAT)
묶었	П	or Name	Sonnector Type		Terminal Color No. of Wire	×	>
S C L	Connector No.	Connecto	Connecto	H.S.	Terminal No.	-	2

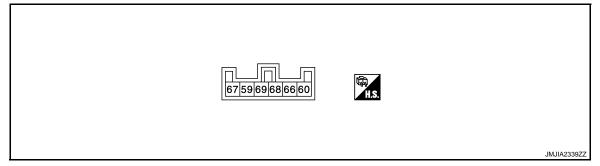
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< ECU DIAGNOSIS INFORMATION >

HEATED SEAT CONTROL UNIT

Reference Value

TERMINAL LAYOUT



PHYSICAL VALUES

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

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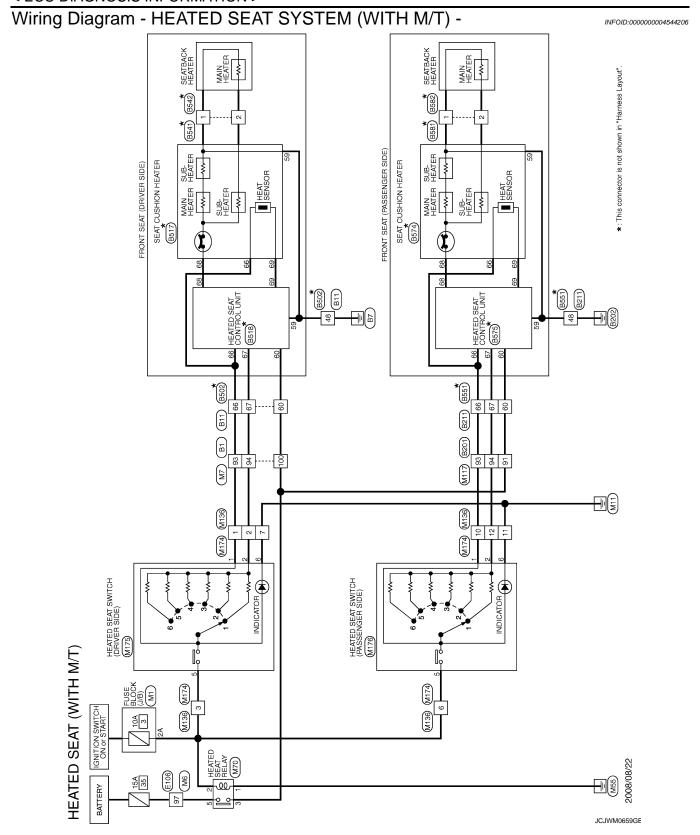
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< ECU DIAGNOSIS INFORMATION >

Cornector No. B211	Connector No. B541 Connector Name WIRE TO WIRE Connector Type MOZFW-LC Terminal Color Signal Name (Specification) 1	В
Name WIRE TO WIRE	Name	D E F
Connector No. B11 Connector Nome B11 Connector Name WIRE TO WIRE Connector Type NS16FW-CS NS	Connector No. B517 Connector Signal Name Specification Terminal No. Connector Signal Name Specification Connector Signal Name Specification Connector No. Connector Signal Name Specification Connector Signal Name Connector Signal Name Connector No. Connector Signal Name Connector Signal Name Connector Signal Name Connector Signal Name Connector No. Connec	H I SE
HEATED SEAT (WITH M/T) Connector Name WIRE TO WIRE Connector Type TH80FW-CS IS-TM4 Connector Type TH80FW-CS IS-TM4 I Signal Name [Specification] No. of Wire Signal Name [Specification] 93 Y 100 GR	Connector No. B502 Connector Name WIRE TO WIRE Connector Type NS16MW-LC Connector Type NS16MW-LC Connector Type NS16MW-LC Connector Type NS16MW-LC Connector Type S160 22 48 [21 33 67 60] Connector Type S160 22 48 [21 33 67 60] Connector Type S160 22 48 [21 33 67 60] Connector Type S160 22 48 [21 33 67 60] Connector Type Connector Type	L M N
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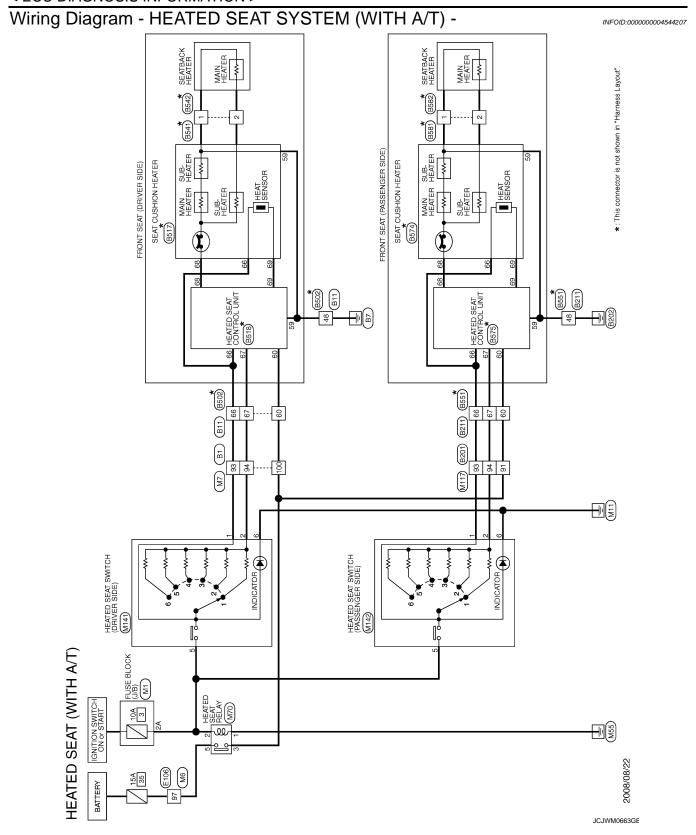
Connector No. BS73 Connector Name	Terminal Color Signal Name [Specification] No. of Wire Signal Name [Specification] No. of Wire Signal Name [Specification] Signal Name Signal Name Signal Name HEATED SEAT OPPERATION SIGNAL Signal Name	Connector No. MI
Connector No. B574 Connector Name SEAT CUSHION HEATER (PASSENGER SIGHEW) Connector Type SO4FW H.S. E855	Terminal Color Signal Name [Specification] Signal Name [Spec	Connector No. E106 Connector Name WRE TO WIRE Connector Type TH80PW-CS16-TM4 L.S. Lenning Color
Connector No. B351 Connector Name WIRE TO WIRE Connector Type NST2MW-CS A.S. 25 40 33 67 66 8 48 60	Terminal Color Signal Mame [Specification] No. of Wire Signal Mame [Specification]	Connector No. B582 Connector Name WIRE TO WIRE Connector Type MIZAW-LC H.S. Terminal Color Signal Name [Specification] No. of Wire
HEATED SEAT (WITH M/T) Connector Name WIRE TO WIRE Connector Type MOZMW-LC A.S. A.S. L. Connector Type MOZMW-LC	Terminal Color Signal Name [Specification]	Connector No. BSS1 Connector Name WIRE TO WIRE Connector Type MOZPW-LC H.S. Terminal Color No. or Wire Signal Name (Specification)

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< ECU DIAGNOSIS INFORMATION >

ecification]	ASSENGER ecification]	А
MI17 WIRE TO WIRE THEOMY-CSIG-TM4 I I I I I I I I I I I I I I I I I I I	M178	В
Connector No. Connector Name Connector Type Connector Type Color No. Of Wire 91 G G 93 GR 94 SB	Connector No. Connector Name Connector Type No. of Wire 2 SSB 5 P 6 V	D
[cation]	VER SIDE incation]	Е
M70 MS02FL-M2-LC MS02FL-M2-LC Signal Name [Specification]	HEATED SEAT SWITCH (ORIVER SIDE) TRIGEW Signal Name [Specification]	F
	S K R R R R R R R R R R R R R R R R R R	G
Connector No. Connector Type Connector Type Terminal Color No. Or Wife Terminal Color S G G G G G G G G G G G G G G G G G G G	Connector No. Connector Type Connector Type No. Terminal Color No. Of Win	Н
WIRE TO WIRE TH80AW-CS16-TIM4 TH80AW-CS16-TIM4	MI74 WIRE TO WIRE THIZMW-NH 1 2 3 4 5 6 7 8 9 10 11 12 Signal Name [Specification]	SE
Connector No. M7 Connector Name WIRE Connector Type TH80 No.	Connector No. M174 Connector Name WIRE Connector Type TH12h No. of Wire 2 GR 3 W 6 P 7 1 1 L 2 GR 1 L 3 W 1 L 2 GR 1 L 3 W 1 L 4 S 1 L 5 GR 7 R 1 L 7 V 1 L 1 L 1 L 1 L 1 L 1 L 1 L 1	K
		L
HEATED SEAT (WITH M/T) Jonnector No. M6 WIRE TO WIRE THBONNW-CS16-TM4 H.S. High High High High High High High High	WIRE 10 9 8 7 110 9 8 7 1 0 9 8 7 1 0 9 8 7	M
WIRE TO THEOMAY.	MARK TO 11112FPF TO 11112FP TO	Ν
HEATED S Gonnector No. Connector Name Cornector Type Cornector Type No. Of Wire 97 L	Connector No. Connector Name Connector Name Connector Name Connector Type Connector Type Connector Name Connector Type Connector Name Conne	0
	JCJWM0662G	
		P

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< ECU DIAGNOSIS INFORMATION >

ton)	tion]		А
CS CS R	WIRE C Signal Name [Specification]		В
B211 NS12FW 60 48	BS41 BS41 BMDEW-I		С
Connector No. Connector Type Terminal Color No. of Will 8 8 6 6 6 6 6 6 6 6 7 0	Connector No. Connector Name Connector Type Connector Type Real Color No. of Will 1		D
offication)	UMT (DRIVER Ceffication) DIPPLY ATION SIGNAL ATION SIGNAL ERS SUPPLY SIGNAL		Е
WIRE TO WIRE THBOFW-CSIG-TM4 WE Signal Name (Specification)	HEATED SEAT CONTROL UNIT (DRIVER SIDE) 174823-1 [67 59 69 68 66 60] Signal Name [Specification] ION POWERS SUPPLY HEATED SEAT OPERATION SIGNAL HEATED SEAT OPERATION SIGNAL HEATED SEAT OPERATION SIGNAL HEATER DIATTE SEAT OPERATION HEATER STATEMENT SIGNAL HEATER SEAT SENSOR SIGNAL HEATER SEAT SENSOR SIGNAL		F
e e e e e			G
Commettor Na Commettor Typ	Commetter Name Commetter Type Commet		Н
CS 77 1 3 19 71 48 32 66 5 1	SEAT CUSHION HEATER (DRIVER SIDE) SOMEW Color Col	_	I
### Signal Name B11 WIRE TO WIRE 40 17 17 17 17 17 17 17 1	SEAT CUSHION HE. SOMEW Signal Nam	S	E
Connector No. Connector Type Connector Type	Connector No. Connector Type Connect		K
			L
WITH A/T) WRE CSIE-TM4 Signal Name (Specification)	WIRE 1.C 22 48 21 33 67 60 Signal Name [Specification]		M
WIRE TO THEORY.	WIRE TO WISTERMY INSTERMY INST		Ν
HEATED S Connector No. Connector Name Connector Type Connector Type No. 93 7 94 GR 100 GR	Connector No. Connector Name Connector Type 119 Color No. Of Wire		0
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Connector No. B575 Connector Name HA/TED SEAT CONTROL UNIT PA/SED SEAT	Color Cignal Name [Specification] Color Cignal Name [Specification] Cignal Name [Specification] Cignal Name Cignal	Corrector No. M1
Connector No. B574 Connector Name SEAT CUSHION HEATER (PASSENGER SOMEW) Connector Type SOMEW M.S. Connector Type SOMEW	Terminal Color Signal Name [Specification] Signal Name [Sp	Connector No. E106 Connector Name WIRE TO WIRE Connector Type TH80PW-CS16-TM4 A
Connector No. B551 Connector Name WIRE TO WIRE Connector Type NS12MW-CS H.S. 32 5 40 33 E7 66 8 48 80	Terminal Color Signal Name [Specification] No. of Wire Signal Name [Specification] 48	Connector No. BSS2 Connector Type WIRE TO WIRE Connector Type MIZZAW-LC Terminal Color No. Of Wire Signal Name [Specification]
HEATED SEAT (WITH A/T) Connector Name WIRE TO WIRE Connector Type MOZWW-LC A.S. A.	Terminal Color Signal Name [Specification] 1	Connector No. Connector Name WIRE TO WIRE Connector Type MOZFW-LC Terminal No. Color

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< ECU DIAGNOSIS INFORMATION >

[00]		А
WIRE CSI6-TM4 CSI6-TM4 Signal Name (Specification)		В
WIRE TO THEOMAY		С
Oomrector No. Connector Name Connector Type Terminal Color No. of Wir. 91 G 93 GR		D
coffication]		Е
M70 MS02FL-M2-LC MS02FL-M2-LC Signal Name [Specification]		F
No. Type Color of Wire B B Color Co		G
Connecto Con		Н
WIPE CSIG-TM4 CSIG-TM4 Signal Name (Specification)	M142 HEATED SEAT SWITCH (PASSENGER SIDE) TIXOBFER 6	I
WIRE TO WIRE THBOMW-CS16-TIM4 THBOMW-CS16-TIM4 Signal Namo [S	2 TED SEAT SW (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	SE
Connector No. M7	Connector No. MITA Connector Name SIDE Connector Type TYGO TYGO Terminal Color No. of Wire 1 SB 5 W 6 B 6 B	К
		L
HEATED SEAT (WITH A/T) Connector No. M6 Connector Type TH80MW-CS.16-TM4 Line Connector Type Th80MW-CS.16-TM	MI41 TKIOFW TKIOFW Signal Name [Specification]	М
Me Mo Mark To		N
HEATED S Connector Name Connector Name Connector Type Connector Ty	Connector No. Connector Name Connector Type H.S. 1 Color No. of Wire 1 L 2 GR 5 W 6 B	0
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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:0000000004544414

${f 1.}$ CHECK POWER SUPPLY CIRCUIT AND GROUND CIRCUIT

Check power supply circuit and ground circuit.

Refer to SE-35, "DRIVER SEAT CONTROL UNIT: Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CHECK POWER SEAT SWITCH GROUND CIRCUIT

Check power seat switch ground circuit.

Refer to SE-59, "DRIVER SIDE: Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

Check the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".

NO >> GO TO 1.

PASSENGER SIDE

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000004544415

1. CHECK POWER SUPPLY AND GROUND CIRCUIT

Check power supply and ground circuit.

Refer to SE-35, "PASSENGER SEAT CONTROL UNIT: Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CHECK POWER SEAT SWITCH GROUND CIRCUIT

Check power seat switch ground circuit.

Refer to SE-59, "PASSENGER SIDE: Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

Check the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-41. "Intermittent Incident".

NO >> GO TO 1.

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

< SYMPTOM DIAGNOSIS > POWER SEAT SWITCH (PASSENGER SIDE) DOES NOT OPERATE ANY **COMPONENTS** Diagnosis Procedure INFOID:0000000004544416 В 1. CHECK POWER SEAT SWITCH GROUND CIRCUIT Check power seat switch ground circuit. Refer to SE-59, "PASSENGER SIDE: Diagnosis Procedure". Is the inspection result normal? YES >> GO TO 2. D NO >> Repair or replace the malfunctioning parts. 2.CONFIRM THE OPERATION Е Check the operation again. Is the result normal? YES >> Check intermittent incident. Refer to GI-41, "Intermittent Incident". F NO >> GO TO 1. Н SE K L M

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SLIDING FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

SLIDING FUNCTION DOES NOT OPERATE

DRIVER SIDE

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000004544417

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 SE-41, "DRIVER SIDE: Component Function Check".

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-84, "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 GI-41, "Intermittent Incident".

NO >> GO TO 1.

PASSENGER SIDE

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000004544418

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 SE-85, "PASSENGER SIDE: Component Function Check".

Is the inspection result normal?

SLIDING FUNCTION DOES NOT OPERATE	
< SYMPTOM DIAGNOSIS >	
YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts.	А
4. CHECK SLIDING SWITCH (SEATBACK)	A
Check sliding switch (seatback).	
Refer to SE-44, "SEATBACK: Component Function Check".	В
Is the inspection result normal? YES >> GO TO 6.	
NO >> Repair or replace the malfunctioning parts.	С
5. CHECK SLIDING SWITCH	
Check sliding switch.	D
Refer to <u>SE-42, "PASSENGER SIDE: Component Function Check"</u> . <u>Is the inspection result normal?</u>	
YES >> GO TO 6.	Е
NO >> Repair or replace the malfunctioning parts.	
6.CONFIRM THE OPERATION	F
Check the operation again. <u>Is the result normal?</u>	
YES >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".	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: Diagnosis Procedure

INFOID:0000000004544419

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 SE-47, "DRIVER SIDE: Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK FORWARD SWITCH

Check forward switch.

Refer to SE-61, "DRIVER SIDE: Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4. CHECK RECLINING MOTOR

Check reclining motor.

Refer to SE-88, "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 GI-41, "Intermittent Incident".

NO >> GO TO 1.

PASSENGER SIDE

PASSENGER SIDE: Diagnosis Procedure

INFOID:0000000004544420

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 SE-48, "PASSENGER SIDE: Component Function Check".

Is the inspection result normal?

RECLINING FUNCTION DOES NOT OPERATE	
< SYMPTOM DIAGNOSIS >	
YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts.	Λ
3.CHECK FORWARD SWITCH	А
Check forward switch.	
Refer to SE-62, "PASSENGER SIDE: Component Function Check".	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.	D
Refer to <u>SE-89, "PASSENGER SIDE : Component Function Check"</u> . <u>Is the inspection result normal?</u>	
YES >> GO TO 5.	Е
NO >> Repair or replace the malfunctioning parts.	
5.CONFIRM THE OPERATION	F
Check the operation again.	1
<u>Is the result normal?</u> YES >> Check intermittent incident. Refer to <u>GI-41, "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:0000000004544421

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 SE-51, "DRIVER SIDE: Component Function Check".
- Passenger side: Refer to SE-52, "PASSENGER SIDE: Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK LIFTING MOTOR (FRONT)

Check lifting motor (front).

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

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4. CONFIRM THE OPERATION

Check the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".

NO >> GO TO 1.

REAR

REAR: Diagnosis Procedure

INFOID:0000000004544422

1. CHECK LIFTING MECHANISM

Check for the following.

- Mechanism deformation or pinched foreign materials.
- Interference with other parts because of poor installation.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CHECK LIFTING SWITCH (REAR)

Check lifting switch (rear).

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK LIFTING MOTOR (REAR)

Check lifting motor (rear).

LIFTING FUNCTION DOES NOT OPERATE < SYMPTOM DIAGNOSIS > • Driver side: Refer to SE-96, "DRIVER SIDE: Component Function Check". • Passenger side: Refer to SE-97, "PASSENGER SIDE: Component Function Check". Α Is the inspection result normal? YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts. В 4. CONFIRM THE OPERATION Check the operation again. C Is the result normal? YES >> Check intermittent incident. Refer to GI-41, "Intermittent Incident". NO >> GO TO 1. D Е F Н

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POWER WALK-IN FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

POWER WALK-IN FUNCTION DOES NOT OPERATE DRIVER SIDE

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000004544423

1. CHECK SEAT SLIDING OPERATION

Check seat sliding operation.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to <u>SE-156</u>, "<u>DRIVER SIDE</u>: <u>Diagnosis Procedure</u>".

2.perform initialization procedure

1. Perform initialization procedure.

Refer to <u>SE-8</u>, "SYSTEM INITIALIZATION: Special Repair Requirement".

2. Check power walk-in function.

Refer to SE-11, "POWER WALK-IN FUNCTION: System Description".

Is the inspection result normal?

YES >> Power walk-in function is normal.

NO >> GO TO 3.

3.CHECK POWER WALK-IN SWITCH

Check power walk-in switch.

Refer to SE-73, "DRIVER SIDE: Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4. CHECK SEAT BELT BUCKLE SWITCH

Check seat belt buckle switch.

Refer to SE-65, "DRIVER SIDE: Component Function Check".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5. CHECK FORWARD SWITCH

Check forward switch.

Refer to SE-61, "DRIVER SIDE: Component Function Check".

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace the malfunctioning parts.

6. CHECK SLIDING LIMIT SWITCH

Check sliding limit switch.

Refer to SE-69, "DRIVER SIDE: Component Function Check".

Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair or replace the malfunctioning parts.

7. CHECK DRIVER SIDE DOOR SWITCH

Check driver side door switch.

Refer to SE-77, "Component Function Check"

Is the inspection result normal?

YES >> GO TO 8.

NO >> Repair or replace the malfunctioning parts.

8. CHECK SLIDING SENSOR

POWER WALK-IN FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >	
Check sliding sensor. Refer to SE-79, "DRIVER SIDE: Component Function Check".	А
Is the inspection result normal?	
YES >> GO TO 9. NO >> Repair or replace the malfunctioning parts.	D
NO >> Repair or replace the malfunctioning parts. 9.CONFIRM THE OPERATION	В
Check the operation again.	
Refer to SE-11, "POWER WALK-IN FUNCTION: System Description".	С
Is the result normal?	
YES >> Check intermittent incident. Refer to <u>GI-41, "Intermittent Incident"</u> . NO >> Replace driver seat control unit. Refer to <u>SE-196, "Removal and Installation"</u> .	D
PASSENGER SIDE	
PASSENGER SIDE : Diagnosis Procedure	ID:0000000004544424
1. CHECK SEAT SLIDING OPERATION	_
Check seat sliding operation.	F
Is the inspection result normal? YES >> GO TO 2.	
NO >> Refer to <u>SE-156, "PASSENGER SIDE : Diagnosis Procedure"</u> .	G
2.PERFORM INITIALIZATION PROCEDURE	
Perform initialization procedure.	Н
Refer to <u>SE-8, "SYSTEM INITIALIZATION : Special Repair Requirement"</u> . 2. Check power walk-in function.	
Refer to SE-11, "POWER WALK-IN FUNCTION: System Description".	I
Is the inspection result normal? YES >> Power walk-in function is normal.	
NO >> GO TO 3.	SE
3. CHECK POWER WALK-IN SWITCH	
Check power walk-in switch. Refer to SE-74, "PASSENGER SIDE: Component Function Check".	K
Is the inspection result normal?	
YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts.	L
4.CHECK SEAT BELT BUCKLE SWITCH	
Check seat belt buckle switch. Refer to SE-66, "PASSENGER SIDE : Component Function Check".	M
Is the inspection result normal?	
YES >> GO TO 5.	Ν
NO >> Repair or replace the malfunctioning parts. 5.CHECK FORWARD SWITCH	
Check forward switch.	O
Refer to SE-62, "PASSENGER SIDE: Component Function Check".	
Is the inspection result normal?	Р
YES >> GO TO 6. NO >> Repair or replace the malfunctioning parts.	
6.CHECK SLIDING LIMIT SWITCH	
Check sliding limit switch.	
Refer to SE-70, "PASSENGER SIDE: Component Function Check".	

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Is the inspection result normal?

POWER WALK-IN FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

YES >> GO TO 7.

NO >> Repair or replace the malfunctioning parts.

7.check passenger side door switch

Check passenger side door switch.

Refer to SE-77, "Component Function Check"

Is the inspection result normal?

YES >> GO TO 8.

NO >> Repair or replace the malfunctioning parts.

8. CHECK SLIDING SENSOR

Check sliding sensor.

Refer to SE-79, "DRIVER SIDE: Component Function Check".

Is the inspection result normal?

YES >> GO TO 9.

NO >> Repair or replace the malfunctioning parts.

9. CONFIRM THE OPERATION

Check the operation again.

Refer to SE-11, "POWER WALK-IN FUNCTION: System Description".

Is the result normal?

YES >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".

NO >> Replace passenger seat control unit. Refer to <u>SE-197</u>, "Removal and Installation".

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HEATED SEAT DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >	
HEATED SEAT DOES NOT OPERATE	А
BOTH SIDES	
BOTH SIDES : Diagnosis Procedure	В
1. CHECK HEATED SEAT SWITCH POWER SUPPLY	
Check heated seat switch power supply. Refer to SE-38, "HEATED SEAT SWITCH: Diagnosis Procedure".	С
Is the inspection result normal?	
YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts.	D
2.CHECK HEATED SEAT RELAY	
Check heated seat relay.	Е
Refer to <u>SE-104, "Component Function Check"</u> . <u>Is the inspection result normal?</u>	
YES >> GO TO 3.	F
NO >> Repair or replace the malfunctioning parts. 3. CHECK HEATED SEAT CONTROL UNIT POWER SUPPLY AND GROUND CIRCUIT	
Check heated seat switch power supply and ground circuit.	G
Refer to <u>SE-36, "HEATED SEAT CONTROL UNIT : Diagnosis Procedure"</u> . <u>Is the inspection result normal?</u>	
YES >> GO TO 4.	Н
NO >> Repair or replace the malfunctioning parts.	
4.CONFIRM THE OPERATION Confirm the operation again.	I
Is the inspection result normal?	
YES >> Check intermittent incident. Refer to <u>GI-41, "Intermittent Incident"</u> . NO >> GO TO 1.	SE
DRIVER SIDE	
DRIVER SIDE : Diagnosis Procedure	K
1. CHECK HEATED SEAT SWITCH POWER SUPPLY	L
Check heated seat switch power supply. Refer to SE-38, "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	Ν
Check heated seat switch power supply and ground circuit.	
Refer to <u>SE-36, "HEATED SEAT CONTROL UNIT : Diagnosis Procedure"</u> . <u>Is the inspection result normal?</u>	0
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-100, "DRIVER SIDE: Component Function Check"</u> . <u>Is the inspection result normal?</u>	
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 SE-111, "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 GI-41, "Intermittent Incident".

NO >> GO TO 1.

PASSENGER SIDE

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000004544430

1. CHECK HEATED SEAT SWITCH POWER SUPPLY

Check heated seat switch power supply.

Refer to SE-38, "HEATED SEAT SWITCH: Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

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

Check heated seat switch power supply and ground circuit.

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK HEATED SEAT SWITCH

Check heated seat switch.

Refer to SE-101, "PASSENGER SIDE: Component Function Check".

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 SE-112, "PASSENGER SIDE: Component Function Check".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5. CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".

NO >> GO TO 1.

SEATBACK HEATER ONLY DOES NOT OPERATE

SEATBACK HEATER ONLY DOES NOT OPERATE < SYMPTOM DIAGNOSIS >	
SEATBACK HEATER ONLY DOES NOT OPERATE	
DRIVER SIDE	Α
DRIVER SIDE : Diagnosis Procedure	
1.CHECK SEATBACK HEATER	В
Check seatback heater. Refer to SE-115, "DRIVER SIDE: Component Function Check". Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2.CONFIRM THE OPERATION	C
Confirm the operation again.	Е
Is the inspection result normal? YES >> Check intermittent incident. Refer to GI-41, "Intermittent Incident". NO >> GO TO 1. PASSENGER SIDE	F
PASSENGER SIDE : Diagnosis Procedure	G
1.CHECK SEATBACK HEATER	
Check seatback heater. Refer to SE-115, "PASSENGER SIDE: Component Function Check".	Н
Is the inspection result normal? YES >> GO TO 2.	I
NO >> Repair or replace the malfunctioning parts.	
2.CONFIRM THE OPERATION	SE
Confirm the operation again. Is the inspection result normal?	
YES >> Check intermittent incident. Refer to <u>GI-41, "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

DRIVER SIDE: Diagnosis Procedure

INFOID:0000000004544433

1. CHECK HEATED SEAT SWITCH

Check heated seat switch.

Refer to SE-100, "DRIVER SIDE: Component Function Check".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK HEAT SENSOR

Check heat sensor.

Refer to SE-106, "DRIVER SIDE: Description".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".

NO >> Replace heated seat control unit. Refer to SE-198, "Removal and Installation".

PASSENGER SIDE

PASSENGER SIDE: Diagnosis Procedure

INFOID:0000000004544434

1. CHECK HEATED SEAT SWITCH

Check heated seat switch.

Refer to SE-101, "PASSENGER SIDE: Component Function Check".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK HEAT SENSOR

Check heat sensor.

Refer to SE-108, "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 GI-41, "Intermittent Incident".

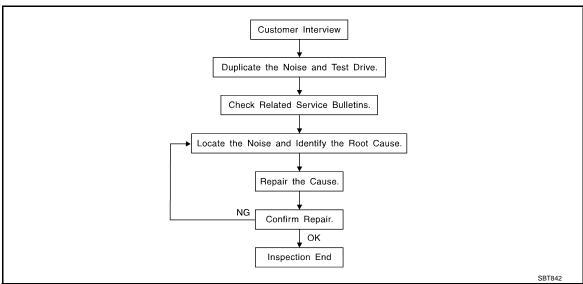
NO >> Replace heated seat control unit. Refer to SE-198, "Removal and Installation".

HEATED SEAT SWITCH INDICATOR DOES NOT TURN ON

< SYMPTOM DIAGNOSIS >

HEATED SEAT SWITCH INDICATOR DOES NOT TURN ON DRIVER SIDE	
DRIVER SIDE : Diagnosis Procedure	INFOID:0000000004544435
1. CHECK HEATED SEAT SWITCH INDICATOR	
Check heated seat switch indicator. Refer to SE-117, "DRIVER SIDE: Component Function Check". Is the inspection result normal?	
YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2.CONFIRM THE OPERATION	
Confirm the operation again.	
Is the inspection result normal? YES >> Check intermittent incident. Refer to GI-41, "Intermittent Incident". NO >> GO TO 1. PASSENGER SIDE	
PASSENGER SIDE : Diagnosis Procedure	INFOID:0000000004544436
1. CHECK HEATED SEAT SWITCH INDICATOR	
Check heated seat switch indicator. Refer to SE-117, "PASSENGER SIDE: Component Function Check".	
Is the inspection result normal? YES >> GO TO 2.	
NO >> Repair or replace the malfunctioning parts. 2.CONFIRM THE OPERATION	
Confirm the operation again.	
Is the inspection result normal? YES >> Check intermittent incident. Refer to GI-41, "Intermittent Incident". NO >> GO TO 1.	

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-174, "Diagnostic Worksheet"</u>. 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.

< SYMPTOM DIAGNOSIS >
If the noise can be duplicated easily during the test drive, to help identify the source of the noise, try to dupli-
cate 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.

- 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 tem-
- 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-172, "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.

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

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

URETHANE PADS [1.5 mm (0.059 in) thick]

Insulates connectors, harness, etc.

76268-9E005: 100×135 mm $(3.94 \times 5.31 \text{ in})/76884-71L01$: 60×85 mm $(2.36 \times 3.35 \text{ in})/76884-71L01$

71L02:15 \times 25 mm (0.59 \times 0.98 in)

INSULATOR (Foam blocks)

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

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

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

INSULATOR (Light foam block)

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

FELT CLOTHTAPE

Used to insulate where movement does not occur. Ideal for instrument panel applications.

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68370-4B000: 15×25 mm (0.59 \times 0.98 in) pad/68239-13E00: 5 mm (0.20 in) wide tape roll The following materials, not found in the kit, can also be used to repair squeaks and rattles. UHMW (TEFLON) TAPE

< 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:0000000004684670

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
- 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
- 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) causing the noise.

SUNROOF/HEADLINING

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

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

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

SEATS

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

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

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

UNDERHOOD

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

Causes of transmitted underhood noise include:

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

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

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< SYMPTOM DIAGNOSIS >

Diagnostic Worksheet

INFOID:0000000004250190



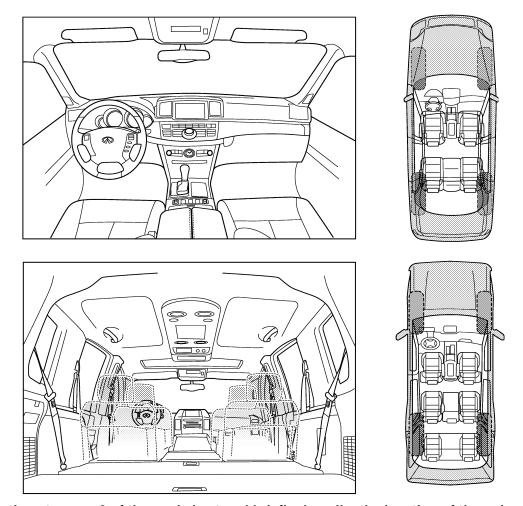
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

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.

< SYMPTOM DIAGNOSIS >

II. WHEN DOES IT OCCUR? (please ch	eck 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☐ other:	
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 ☐ on acceleration	knock (like a knock at the door)	
coming to a stop	☐ tick (like a clock second hand)☐ thump (heavy, muffled knock noise)	
on turns: left, right or either (circle)	buzz (like a bumble bee)	
with passengers or cargo	_	
П "		
other:		
after driving miles or m		
☐ after driving miles or m TO BE COMPLETED BY DEALERSHII Test Drive Notes:	PERSONNEL YES NO Initials of person	on
after driving miles or m TO BE COMPLETED BY DEALERSHII Test Drive Notes: Vehicle test driven with customer	PERSONNEL YES NO Initials of person	on
after driving miles or m TO BE COMPLETED BY DEALERSHII Test Drive Notes: Vehicle test driven with customer - Noise verified on test drive	PERSONNEL YES NO Initials of person	
after driving miles or m TO BE COMPLETED BY DEALERSHII Test Drive Notes: Vehicle test driven with customer	YES NO Initials of person performing	on -
TO BE COMPLETED BY DEALERSHIP Test Drive Notes: Vehicle test driven with customer - Noise verified on test drive - Noise source located and repaired - Follow up test drive performed to confi	YES NO Initials of person performing The person performing to the person	- - -

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PRECAUTION

PRECAUTIONS

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

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

WARNING:

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

INFOID:0000000004684672

Precaution for Battery Service

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

Service Notice

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

Precaution for Work

- When removing or disassembling each component, be careful not to damage or deform it. If a component may be subject to interference, be sure to protect it with a shop cloth.
- When removing (disengaging) components with a screwdriver or similar tool, be sure to wrap the component with a shop cloth or vinyl tape to protect it.
- Protect the removed parts with a shop cloth and keep them.
- Replace a deformed or damaged clip.
- If a part is specified as a non-reusable part, always replace it with new one.

PRECAUTIONS

< PRECAUTION >

- Be sure to tighten bolts and nuts securely to the specified torque.
- After re-installation is completed, be sure to check that each part works normally.
- Follow the steps below to clean components.
- Water soluble foul: Dip a soft cloth into lukewarm water, and wring the water out of the cloth to wipe the fouled area.
 - Then rub with a soft and dry cloth.
- Oily foul: Dip a soft cloth into lukewarm water with mild detergent (concentration: within 2 to 3%), and wipe the fouled area.
 - Then dip a cloth into fresh water, and wring the water out of the cloth to wipe the detergent off. Then rub with a soft and dry cloth.
- Do not use organic solvent such as thinner, benzene, alcohol, and gasoline.
- For genuine leather seats, use a genuine leather seat cleaner.

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PREPARATION

PREPARATION

Special Service Tool

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

To (Ken T	Description	
(J39570) Chassis ear	SIIAO993E	Locates the noise
(J43980) NISSAN Squeak and Rattle Kit	SIIA0994E	Repairs the cause of noise

Commercial Service Tool

INFOID:0000000004250195

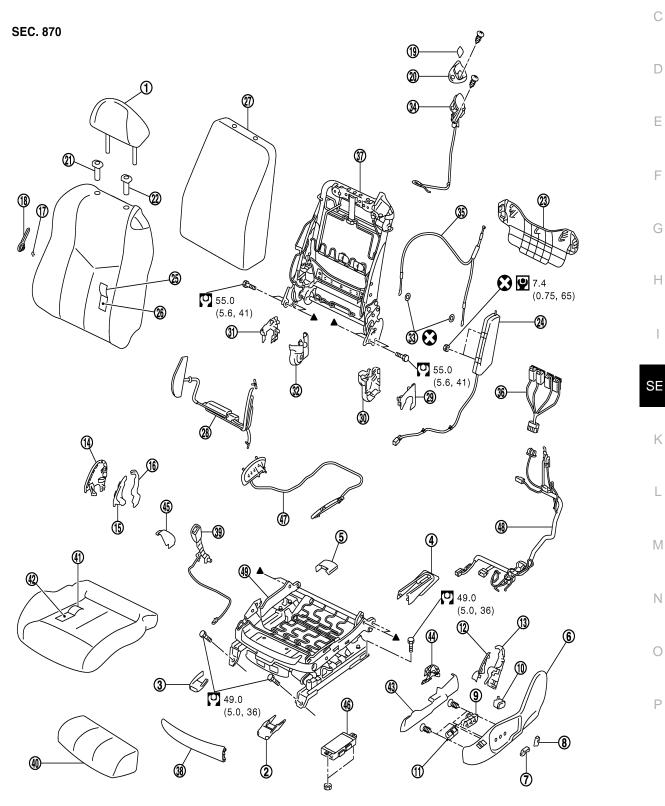
	Tool name	Description
Engine ear	SIIA0995E	Locates the noise
Remover tool	JMKIA3050ZZ	Removes the clips, pawls and metal clips
Hook and pick tool	JMJIA0490ZZ	Removes the snap pins

REMOVAL AND INSTALLATION

FRONT SEAT

Exploded View INFOID:0000000004250196

DRIVER'S SEAT



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FRONT SEAT

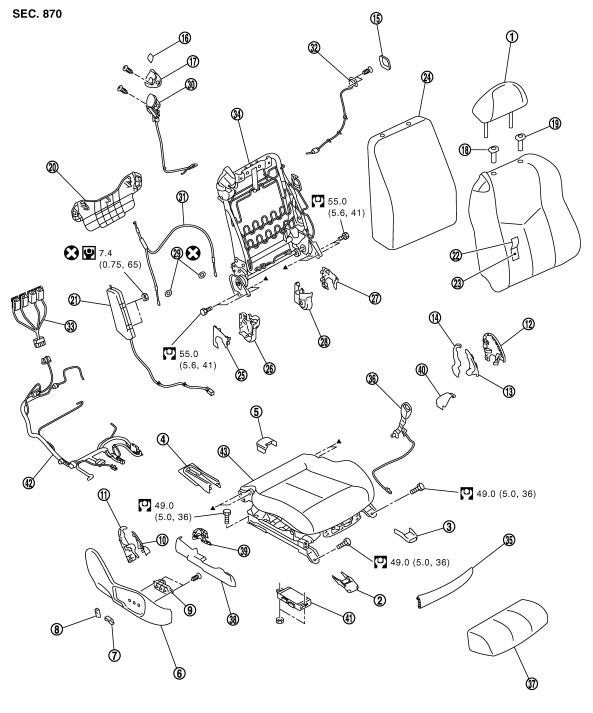
< REMOVAL AND INSTALLATION >

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

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

PASSENGER'S SEAT

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

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

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

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< REMOVAL AND INSTALLATION >

25.	Reclining device outer cover (outside)	26.	Reclining device outer cover (inside)	27.	Reclining device inner cover (outside)
28.	Reclining device inner cover (inside)	29.	Push nut	30.	Walk-in lever
31.	Reclining device wire	32.	Slide switch (seatback)	33.	Reclining and slide relay
34.	Seatback frame	35.	Seat cushion front finisher	36.	Seat belt buckle
37.	Seat cushion pad (front)	38.	Seat slide outer finisher (outside)	39.	Seat slide outer finisher (inside)
40.	Seat slide inner finisher	41.	Seat control unit	42.	Seat harness
43.	Seat cushion assembly				

Removal and Installation

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REMOVAL

CAUTION:

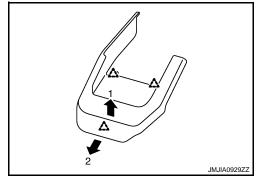
When removing and installing, use shop cloths to protect parts from damage.

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

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

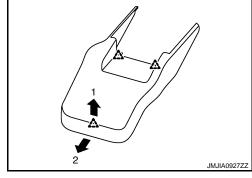
- Pull up the front edge of the front slide cover to release the pawls.
- Slide the front slide cover forward to release the pawls.





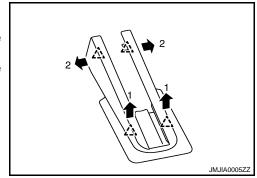
- b. Front inner slide cover
 - Slide the seat to the rearmost position.
 - Pull up the front edge of the front slide cover to release the pawls.
 - Slide the front slide cover forward to release the pawls.





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

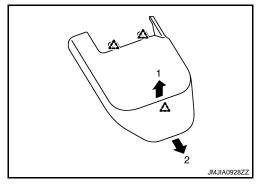




< REMOVAL AND INSTALLATION >

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





- 5. Remove the mounting bolts on the rear side of the front seat.
- Set seatback in a standing position.
- 7. Disconnect harness connector under the seat and remove harness securing clips.

CAUTION:

Before removal, turn ignition switch OFF, disconnect battery negative terminal and then wait for at least 3 minutes.

Remove seat from the vehicle.

CAUTION:

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

INSTALLATION

Install in the reverse order of removal.

CAUTION:

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

NOTE:

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

Disassembly and Assembly

SEATBACK

Disassembly

- Remove the seat cushion outer finisher.
 - 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 and side support switch harness connector.

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

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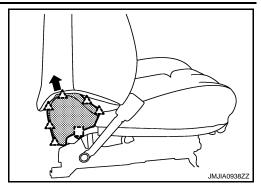
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< REMOVAL AND INSTALLATION >

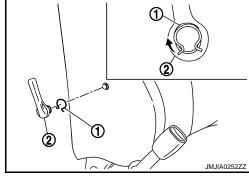
- 2. Remove the seat cushion inner finisher.
 - Remove the seat cushion inner finisher inside (front, rear) by releasing the metal clip and pull it up together with the cover.
 - Remove the seat cushion inner finisher inside (front, rear) from the seat cushion inner finisher by releasing the pawls.

: Metal clip



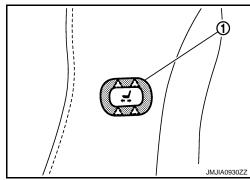
Remove the lumbar support lever knob.(Manual lumbar support model only.)
 Pull snap ring (1) upward, and remove lumbar support lever

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



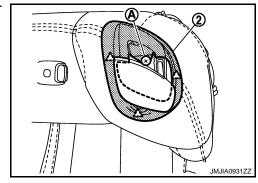
- 4. Remove the seatback trim and seatback pad.
 - Remove the pawls, and then pull out slide switch escutcheon (1).

_____: Pawl



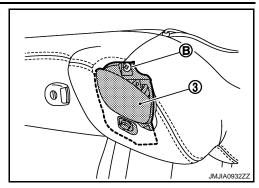
- Remove the walk-in lever cap.
- Remove the screw (A) and pawls, and then walk-in lever upper escutcheon (2).

_____: Pawl



< REMOVAL AND INSTALLATION >

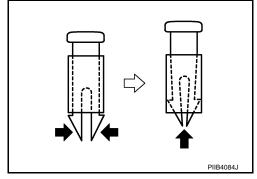
• Remove the screw (B), and then pull the seatback trim from the walk-in lever (3) and walk-in lever lower escutcheon.



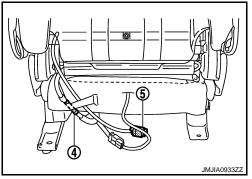
- Remove the seatback retainer, and then open the fastener.
- Remove the headrest holder.

CAUTION:

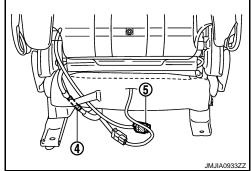
Before installing headrest holder check its orientation. (front/rear and right/left)



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



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



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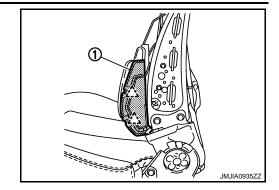
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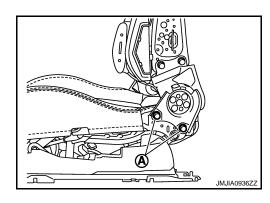
< REMOVAL AND INSTALLATION >

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

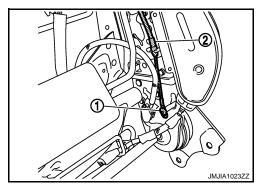




8. Remove the seatback frame.
Remove the seatback frame mounting bolt (A).



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



12. Remove the walk-in lever.

Assembly

Assemble in the reverse order of disassembly.

CAUTION:

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

SEAT CUSHION

Disassembly

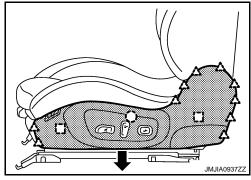
CAUTION:

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

< REMOVAL AND INSTALLATION >

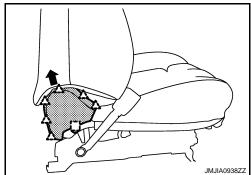
 Remove the metal clips, clips and pawls, and then pull out seat cushion outer finisher.





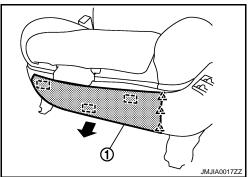
- Disconnect the seat control switch, lumbar support switch and side support switch harness connector.
- Remove the seat cushion outer finisher inside (front, rear).
- 2. Remove the seat cushion inner finisher.
 - · Remove the seat cushion inner finisher inside (front, rear) by releasing the metal clip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





Remove the seat cushion front finisher. Remove the metal clips, and then pull out seat cushion front finisher (1).





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

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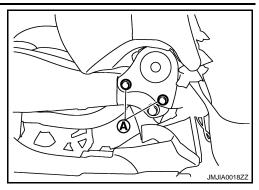
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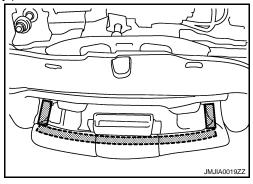
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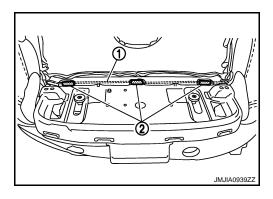
• Remove the seatback mounting bolts (A), and then remove the seatback assembly.



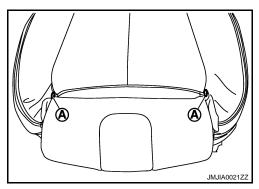
- 5. Remove the seat cushion pad (front). (Thigh extension model only.)
 - Remove the retainer.
 - Remove the seat cushion pad (front).



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



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

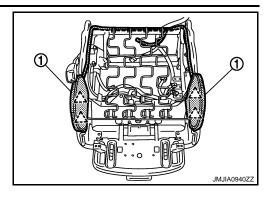


- Remove the seat cushion retainer.
- Disconnect the seat cushion heater unit harness connector.
- Remove the hog rings, and separate the seat cushion trim and seat cushion pad.
- 7. Remove the side support bag.(Side support model only.)
 - Remove the hose clamp.

< REMOVAL AND INSTALLATION >

• Remove the pawls, and then remove side support bag (1).





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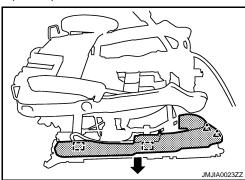
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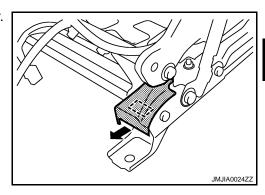
- 8. Remove the seat slide outer finisher.
 - Remove the metal clip and pawls, and then pull out seat slide outer finisher (outside).
 - Remove the metal clip, and then pull out seat slide outer finisher (inside).





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





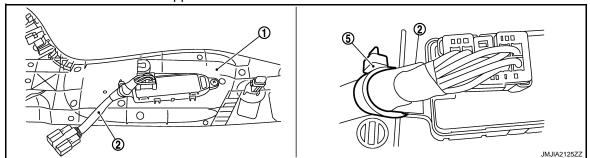
Assembly

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 pad side wire.

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

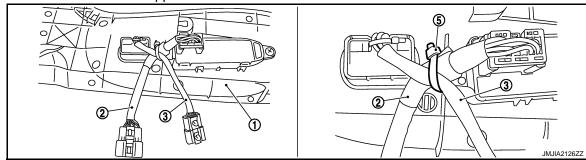


Fix seat control harness (2) to seat cushion outer finisher (1) boss using a self locking band (5) as shown in the figure.

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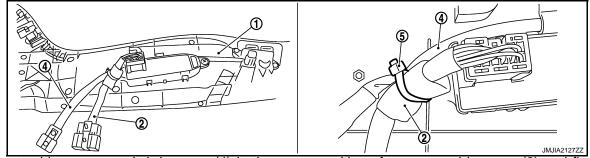
< REMOVAL AND INSTALLATION >

b. Normal seat with lumbar support switch



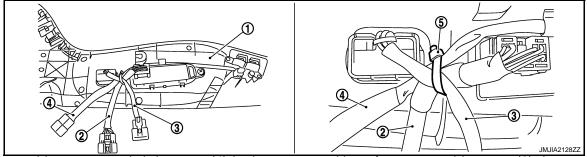
Locate lumbar support switch harness (3) in the forehand position, cross seat control harness (2), and fix to seat cushion outer finisher (1) boss using a self locking band (5) as shown in the figure.

c. Sport seat without lumbar support switch



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

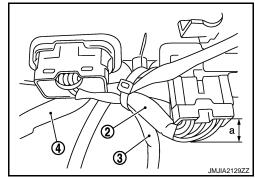
d. Sport seat with lumbar support switch



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

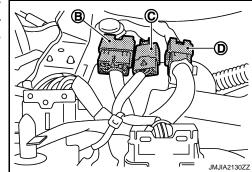
CAUTION:

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



< REMOVAL AND INSTALLATION >

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



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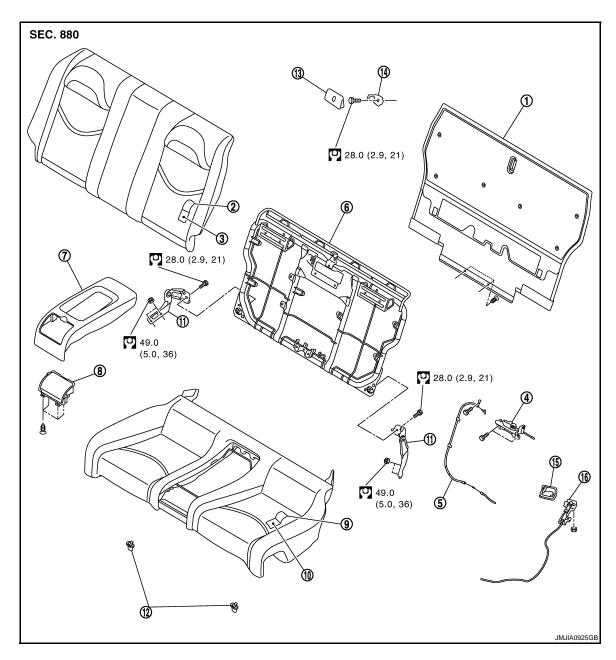
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REAR SEAT

Exploded View

REAR SEAT



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

- 2. Seatback trim
- 5. Seatback lock cable
- 8. Cup holder
- 11. Seatback side bracket
- 14. Seat striker

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

Removal and Installation

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

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REMOVAL CAUTION:

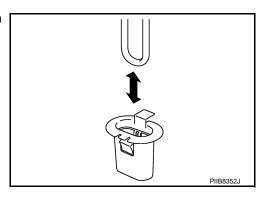
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REAR SEAT

< REMOVAL AND INSTALLATION >

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

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



- Remove the seatback.
 - Remove the seatback control cable. Refer to <u>SE-195, "Removal and Installation"</u>.
 - Remove the seatback mounting bolt.
 - Remove the seatback frame the vehicle.
- Remove the seatback side bracket.
 - Remove the seatback side bracket mounting nuts.
 - Remove the seatback side bracket from the vehicle.
- Remove the seat striker.
 - · Remove the seat striker cover.
 - Remove the seat striker mounting bolt.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

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

Disassembly and Assembly

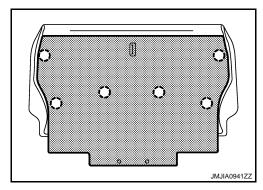
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SEATBACK

Disassembly

 Remove the seatback board. Remove the clips.





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

Assembly

Assemble in the reverse order of disassembly.

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REAR SEAT

< REMOVAL AND INSTALLATION >

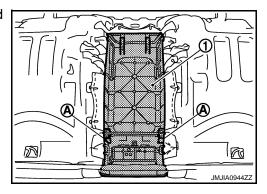
CAUTION:

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

SEAT CUSHION

Disassembly

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



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

Assembly

Assemble in the reverse order of disassembly.

CAUTION:

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

SEATBACK CONTROL CABLE

< REMOVAL AND INSTALLATION >

SEATBACK CONTROL CABLE

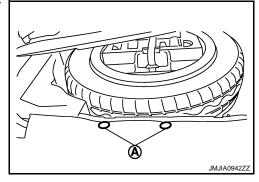
Exploded View

Refer to SE-192, "Exploded View".

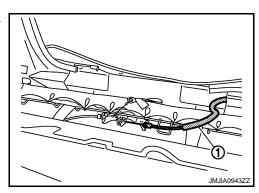
Removal and Installation

REMOVAL

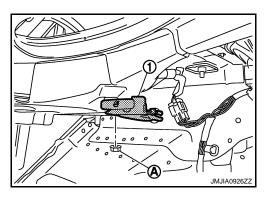
- 1. Remove the trunk front finisher upper. Refer to INT-27, "Removal and Installation".
- 2. Remove the seatback control cable.
 - Fold the seatback before.
 - Remove the clips (A), and then pull up the seatback lower part.



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



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



INSTALLATION

Install in the reverse order of removal.

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DRIVER SEAT CONTROL UNIT

< REMOVAL AND INSTALLATION >

DRIVER SEAT CONTROL UNIT

Exploded View

Refer to <u>SE-179</u>, "Exploded View".

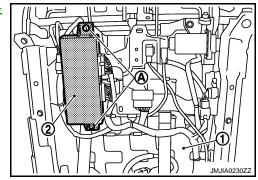
Removal and Installation

REMOVAL

CAUTION:

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

- 1. Remove driver seat (1). Refer to <u>SE-182, "Removal and Installation".</u>
- 2. Remove mounting bolts (A).
- 3. Remove driver seat control unit (2).



INSTALLATION

Install in the reverse order of removal.

CAUTION:

Always clamp the harness to the right place.

PASSENGER SEAT CONTROL UNIT

< REMOVAL AND INSTALLATION > PASSENGER SEAT CONTROL UNIT Α **Exploded View** INFOID:0000000004544439 Refer to SE-179, "Exploded View". В Removal and Installation INFOID:0000000004544440 **REMOVAL CAUTION:** When removing and installing, use shop cloths to protect parts from damage. D The same procedure is performed for driver side. Refer to <a>SE-196, "Removal and Installation". INSTALLATION Е Install in the reverse order of removal. **CAUTION:** Always clamp the harness to the right place. F Н SE K L M Ν 0

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HEATED SEAT CONTROL UNIT

< REMOVAL AND INSTALLATION >

HEATED SEAT CONTROL UNIT

Exploded View

Refer to SE-179, "Exploded View".

Removal and Installation

REMOVAL

CAUTION:

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

- 1. Remove the front seat.
- 2. Disconnect heated seat control unit connector.
- 3. Remove the heated seat control unit from the heated seat control unit stay. Refer to <u>SE-179</u>, "Exploded <u>View"</u>.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

Always clamp the harness to the right place.

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

< REMOVAL AND INSTALLATION >

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

Exploded View

Refer to IP-11, "Exploded View".

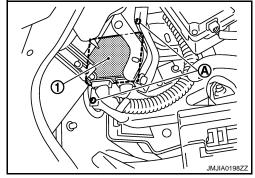
Removal and Installation

REMOVAL

CAUTION:

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

- 1. Remove the battery negative terminal.
- 2. Remove the instrument driver lower panel. Refer to <u>IP-12</u>, <u>"Removal and Installation"</u>.
- 3. Remove the screws (A).
- 4. Remove automatic drive positioner control unit (1).



INSTALLATION

Install in the reverse order of removal.

CAUTION:

Always clamp the harness to the right place.

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POWER SEAT SWITCH

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POWER SEAT SWITCH

Removal and Installation

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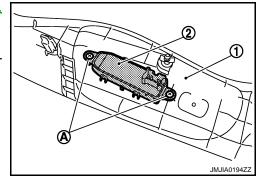
REMOVAL

CAUTION:

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

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

- 1. Remove the seat cushion outer finisher (1). Refer to <u>SE-182.</u> "Removal and Installation".
- 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.

SLIDING SWITCH

< REMOVAL AND INSTALLATION >

SLIDING SWITCH

SEATBACK

SEATBACK: Removal and Installation

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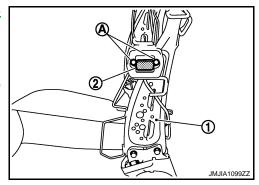
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REMOVAL

CAUTION:

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

- 1. Remove seatback pad. Refer to <u>SE-182, "Removal and Installation".</u>
- 2. Remove screws (A).
- 3. Disconnect seat sliding switch (seatback) connector.
- 4. Remove seat sliding switch (seatback) (2) from seatback frame (1).



INSTALLATION

Install in the reverse order of removal.

CAUTION:

Always clamp the harness to the right place.

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SIDE SUPPORT SWITCH

< REMOVAL AND INSTALLATION >

SIDE SUPPORT SWITCH

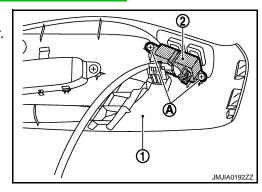
Removal and Installation

REMOVAL

CAUTION:

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

- 1. Remove seat cushion outer finisher (1). Refer to <u>SE-182, "Removal and Installation"</u>.
- 2. Remove screws (A).
- 3. Remove side support switch (2) from seat cushion outer finisher.



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INSTALLATION

Install in the reverse order of removal.

CAUTION:

Always clamp the harness to the right place.

LUMBAR SUPPORT SWITCH

< REMOVAL AND INSTALLATION >

LUMBAR SUPPORT SWITCH

Removal and Installation

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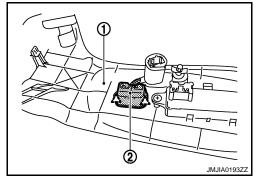
REMOVAL

CAUTION:

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

- Remove seat cushion outer finisher (1). Refer to <u>SE-182.</u> <u>"Removal and Installation"</u>
- 2. Remove lumbar support switch (2).





INSTALLATION

Install in the reverse order of removal.

CAUTION:

Always clamp the harness to the right place.

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HEATED SEAT SWITCH

< REMOVAL AND INSTALLATION >

HEATED SEAT SWITCH

Exploded View

Refer to IP-23, "Exploded View".

Removal and Installation

REMOVAL

CAUTION:

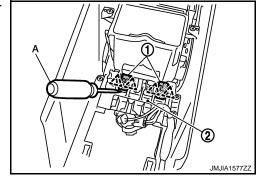
When removing and installing, use shop cloths to protect from damage.

- 1. Remove the console body assembly. Refer to IP-24, "Removal and Installation"
- 2. Remove heated seat switch (1) from switch bracket (2) with flatbladed screwdriver (A).



NOTE:

The same procedure is performed for passenger side.



INSTALLATION

Install in the reverse order of removal.