SECTION SE
SEAT

CONTENTS

BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

WorkFlow

INFOID:0000000005096238

DETAILED FLOW

1.OBTAIN INFORMATION ABOUT SYMPTOM

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

>> GO TO 2.

2.CHECK FOR DTC

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

Is any symptom described and any DTC detected?

Symptom is described, DTC is displayed>>SE-155, "DTC Index".
Symptom is described, DTC is not displayed>>GO TO 3.

3.REPRODUCE THE MALFUNCTION INFORMATION

Check the malfunction on the vehicle that the customer describes.
Inspect the relation of the symptoms and the condition when the symptoms occur.

>> GO TO 4.

4.IDENTIFY THE MALFUNCTIONING SYSTEM WITH “SYMPTOM DIAGNOSIS”

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

>> GO TO 5.

5.IDENTIFY THE MALFUNCTIONING PARTS WITH “COMPONENT DIAGNOSIS”

Perform the diagnosis with “Component diagnosis” of the applicable system.

>> GO TO 6.

6.REPAIR OR REPLACE THE MALFUNCTIONING PARTS

Repair or replace the specified malfunctioning parts.

>> GO TO 7.

7.FINAL CHECK

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

Are the malfunctions corrected?

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

INSPECTION AND ADJUSTMENT

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Description

INFOID:0000000004746782

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

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement

INFOID:0000000004746783

1.SYSTEM INITIALIZATION

Perform system initialization. Refer to SE-9, "SYSTEM INITIALIZATION : Description".

>> Work end.

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Description

INFOID:0000000004746784

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

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement

INFOID:0000000004746785

1.SYSTEM INITIALIZATION

Perform system initialization. Refer to SE-9, "SYSTEM INITIALIZATION : Description".

>> Work end.

SYSTEM INITIALIZATION

SYSTEM INITIALIZATION : Description

INFOID:0000000004746786

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

SYSTEM INITIALIZATION : Special Repair Requirement

INFOID:0000000004746787

INITIALIZATION PROCEDURE

1. STEP-1

Slide the seat to the front edge.

NOTE:

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

>> Work end.

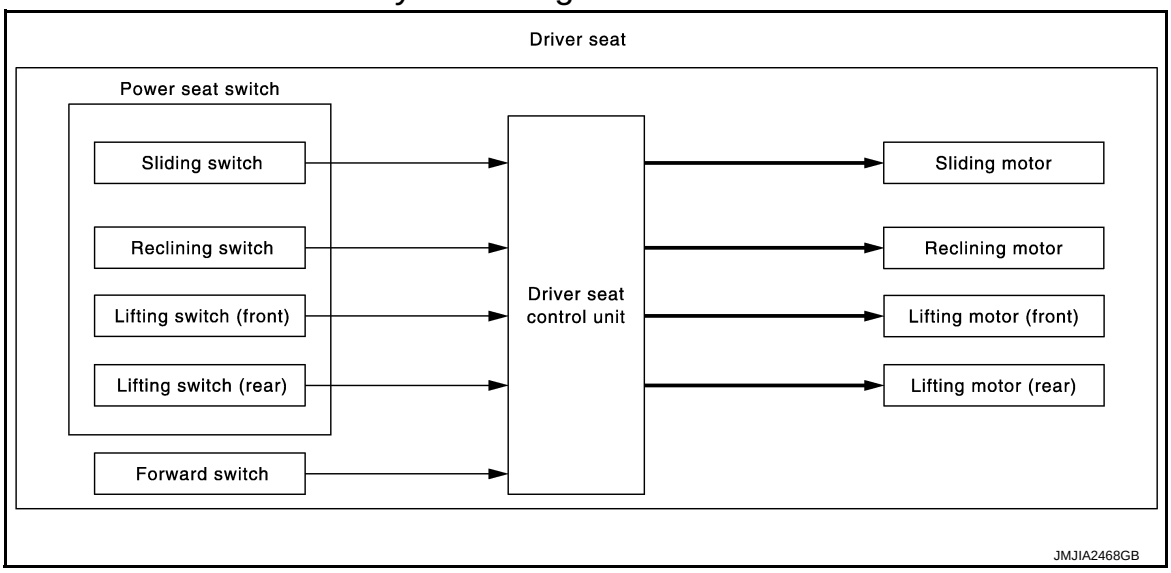
SYSTEM DESCRIPTION

POWER SEAT FOR DRIVER SIDE

POWER SEAT FUNCTION

POWER SEAT FUNCTION : System Diagram

INFOID:0000000004746788



POWER SEAT FUNCTION : System Description

INFOID:0000000004746789

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

SLIDING OPERATION

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

RECLINING OPERATION

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

LIFTING OPERATION

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

SLEEP MODE

- The driver seat control unit is equipped with the sleep mode to reduce the electric power consumption.
- The sleep mode is activated when all of the following conditions are satisfied.

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

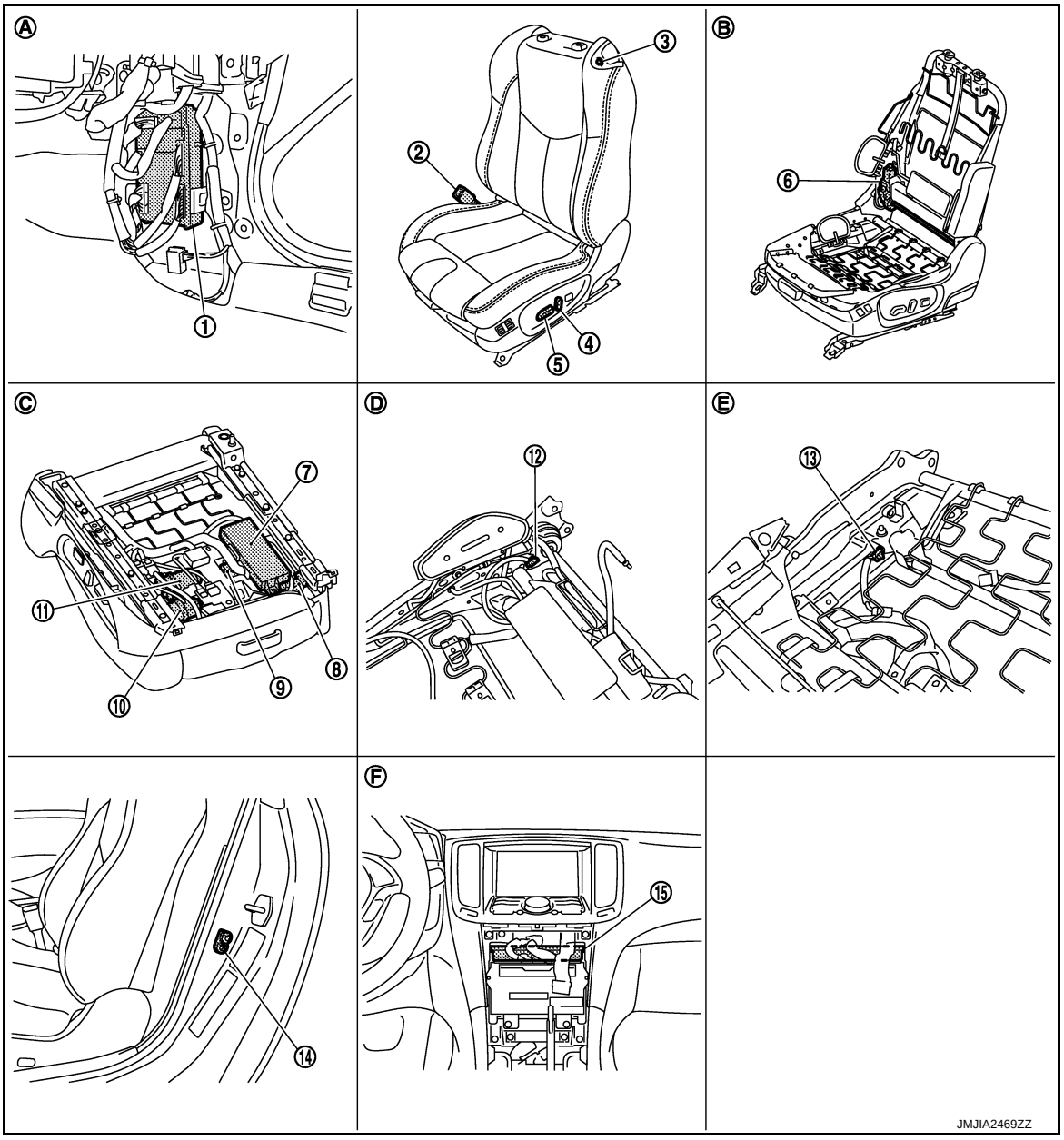
WAKE-UP MODE

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

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

POWER SEAT FUNCTION : Component Parts Location

INFOID:0000000004746790



1. BCM M122, M123	2. Seat belt buckle switch (driver side) B13	3. Power walk-in switch B513
4. Reclining switch (power seat switch) B511	5. Sliding, lifting switch (power seat switch) B511	6. Reclining motor B524
7. Driver seat control unit B503, B504	8. Sliding sensor B526	9. Lifting motor (front) B528
10. Sliding motor B525	11. Lifting motor (rear) B530	12. Forward switch B512
13. Sliding limit switch B514	14. Driver side door switch B16	15. Unified meter and A/C amp. M67
A. Dash side lower (passenger side)	B. View with seat cushion pad and seat-back pad removed	C. View with back side of seat cushion
D. View with seatback pad removed	E. View with seat cushion pad removed	F. Behind cluster lid C

POWER SEAT FUNCTION : Component Description

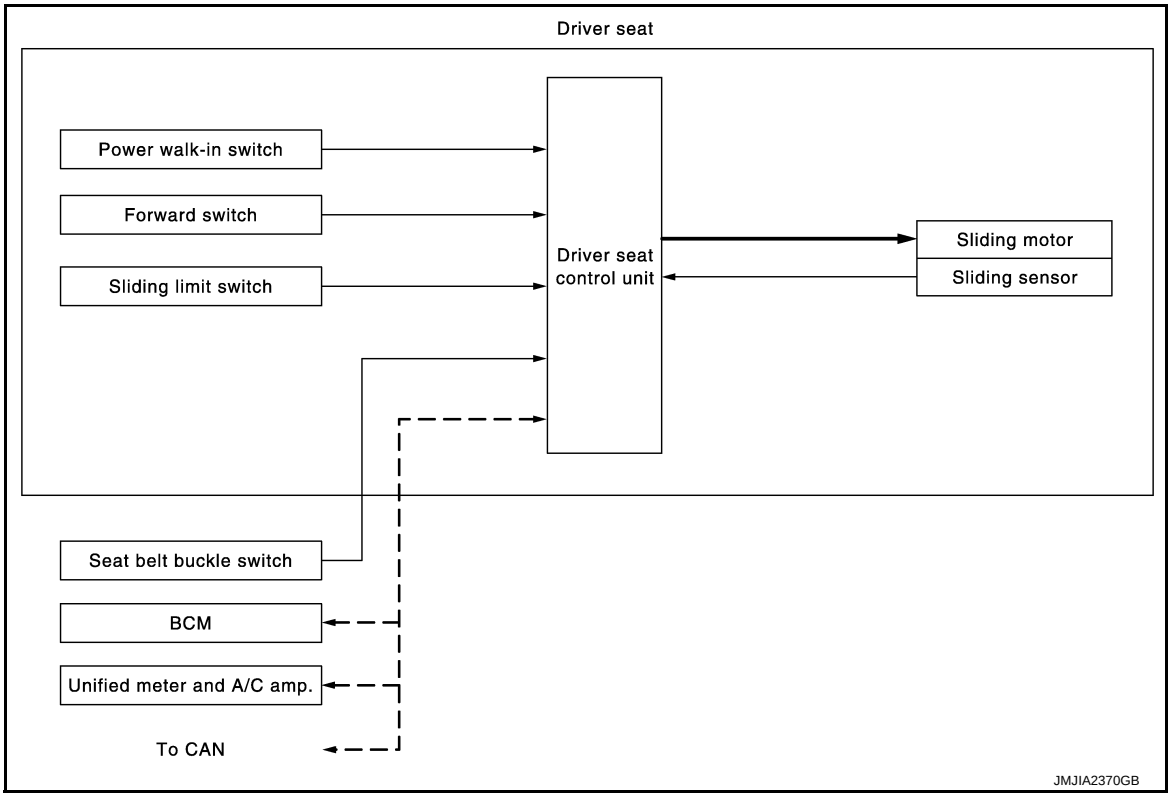
INFOID:0000000004746791

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

POWER WALK-IN FUNCTION

POWER WALK-IN FUNCTION : System Diagram

INFOID:0000000004746792



POWER WALK-IN FUNCTION : System Description

INFOID:0000000004746793

OUTLINE

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

Forward Operation

Slides the driver seat to the front end position (sliding limit switch: ON) by operating the power walk-in switch when the seatback is folded down.
The forward operation is stopped by folding up the seatback (forward switch: OFF) during the forward operation.

Backward Operation

The seatback is folded up after performing the forward operation of power walk-in function. Slide the driver seat to the backward position before performing the forward operation by operating the power walk-in switch.
If the sliding operation is performed after performing the forward operation, do not perform the backward operation.

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 walk-in switch is operated.
4	Sliding limit switch	—	Driver seat control unit stops the seat sliding motor when it detects that the seat sliding reaches the front end position by the sliding limit switch.

Backward Operation

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.

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

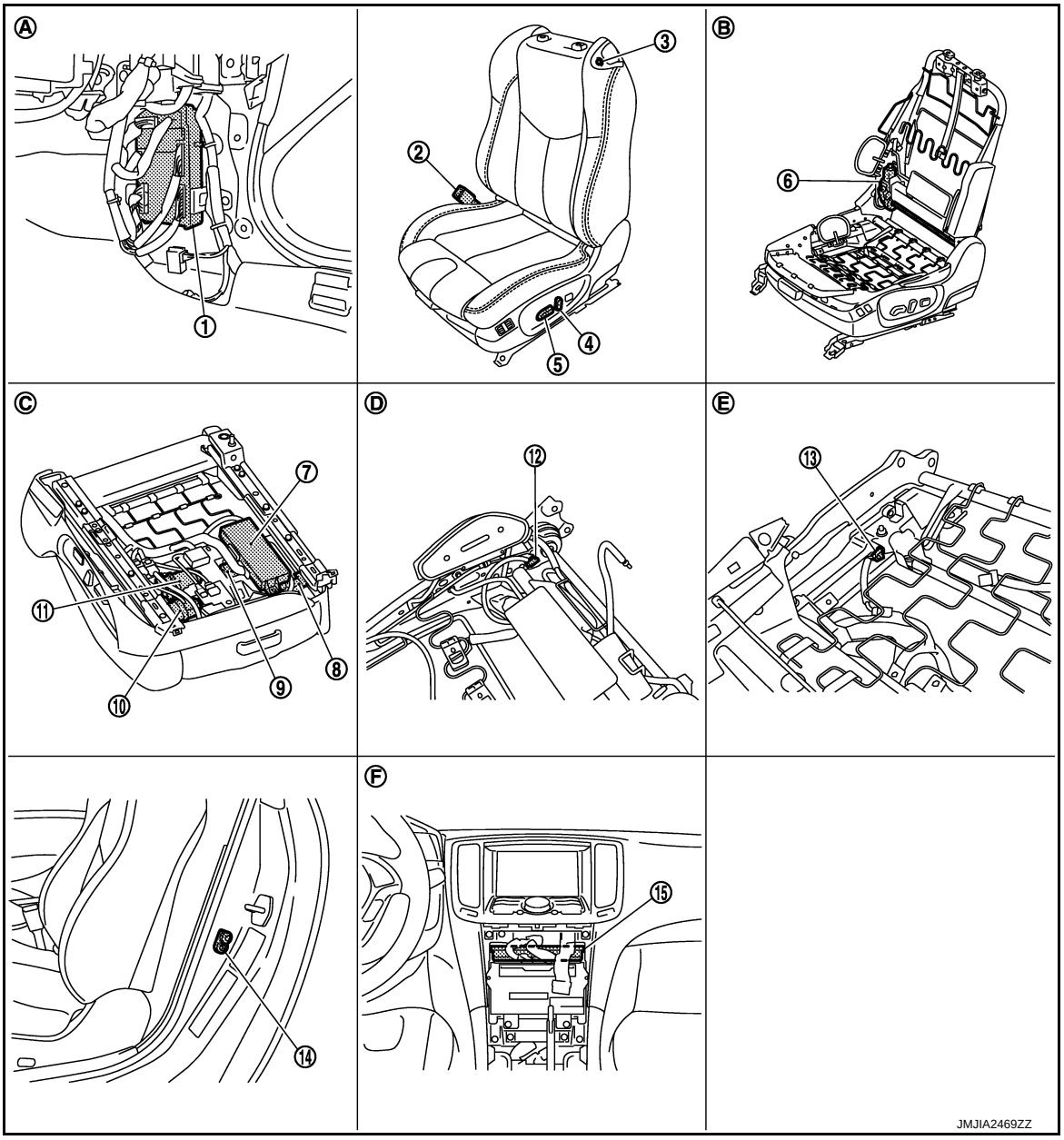
WAKE-UP MODE

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

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

POWER WALK-IN FUNCTION : Component Parts Location

INFOID:0000000004746794



1. BCM M122, M123	2. Seat belt buckle switch (driver side) B13	3. Power walk-in switch B513
4. Reclining switch (power seat switch) B511	5. Sliding, lifting switch (power seat switch) B511	6. Reclining motor B524
7. Driver seat control unit B503, B504	8. Sliding sensor B526	9. Lifting motor (front) B528
10. Sliding motor B525	11. Lifting motor (rear) B530	12. Forward switch B512
13. Sliding limit switch B514	14. Driver side door switch B16	15. Unified meter and A/C amp. M67
A. Dash side lower (passenger side)	B. View with seat cushion pad and seat-back pad removed	C. View with back side of seat cushion
D. View with seatback pad removed	E. View with seat cushion pad removed	F. Behind cluster lid C

POWER WALK-IN FUNCTION : Component Description

INFOID:0000000004746795

CONTROL UNITS

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

INPUT PARTS

Switches

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

Sensors

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

OUTPUT PARTS

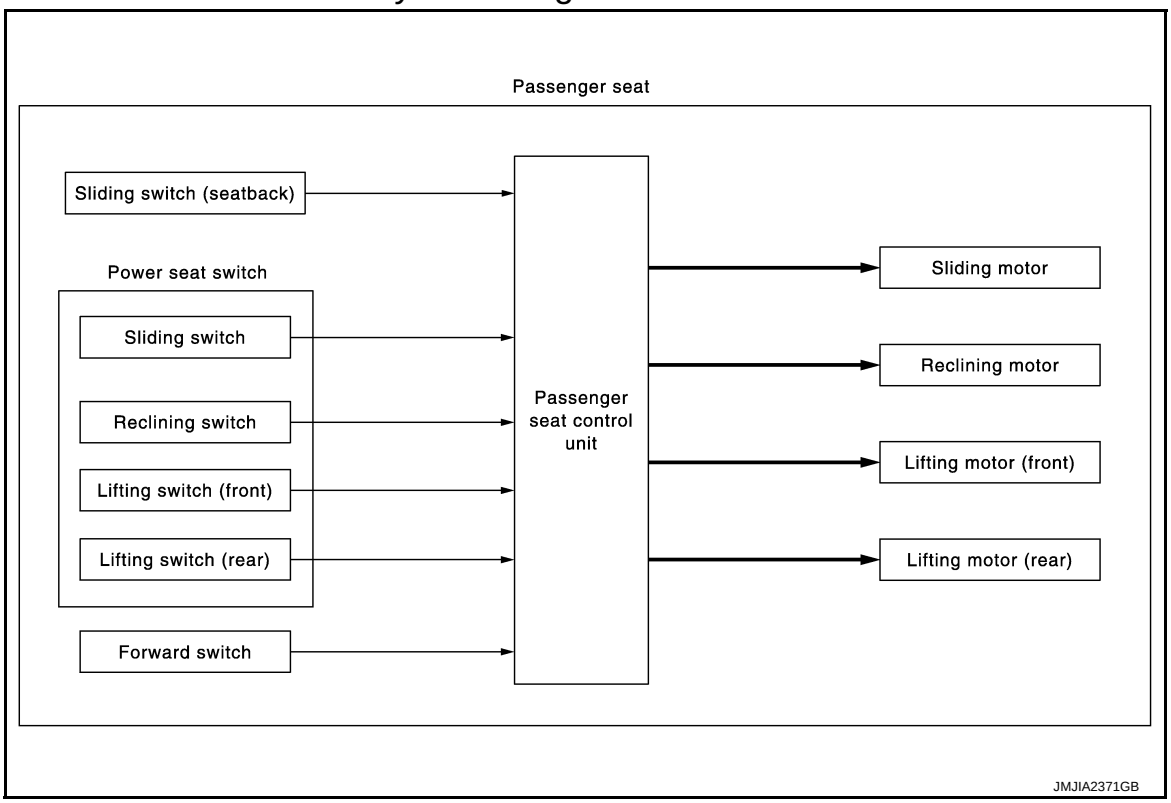
Item	Function
Sliding motor	Slides the seat forward/backward.

POWER SEAT FOR PASSENGER SIDE

POWER SEAT FUNCTION

POWER SEAT FUNCTION : System Diagram

INFOID:0000000004746796



POWER SEAT FUNCTION : System Description

INFOID:0000000004746797

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

SLIDING OPERATION

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

RECLINING OPERATION

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

LIFTING OPERATION

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

SLEEP MODE

- The passenger seat control unit is equipped with the sleep mode to reduce the electric power consumption.
- The sleep mode is activated when all of the following conditions are satisfied.

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

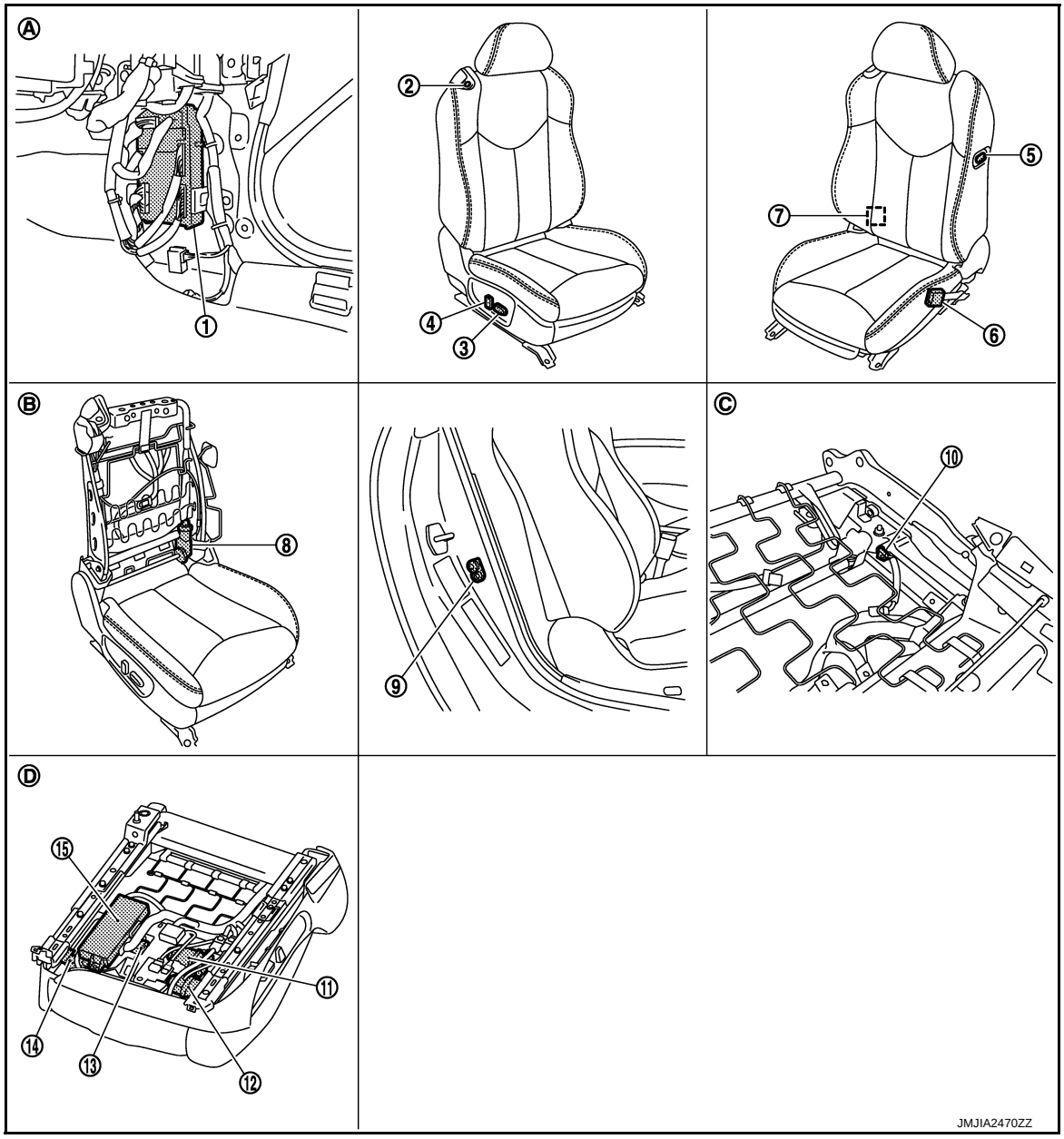
WAKE-UP MODE

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

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

POWER SEAT FUNCTION : Component Parts Location

INFOID:0000000004746798



1. BCM M118, M119, M123
2. Power walk-in switch B557
3. Sliding, lifting switch (power seat switch) B554
4. Reclining switch (power seat switch) B554
5. Sliding switch (seatback) B561
6. Seat belt buckle switch (passenger side) B213
7. Forward switch B556
8. Reclining motor B566
9. Passenger side door switch B216
10. Sliding limit switch B558
11. Lifting motor (rear) B570
12. Sliding motor B567
13. Lifting motor (front) B569
14. Sliding sensor B568
15. Passenger seat control unit B552, B553

A. Dash side lower (passenger side)
B. View with seatback pad removed
C. View with seatback pad removed
D. Back side of seat cushion

POWER SEAT FUNCTION : Component Description

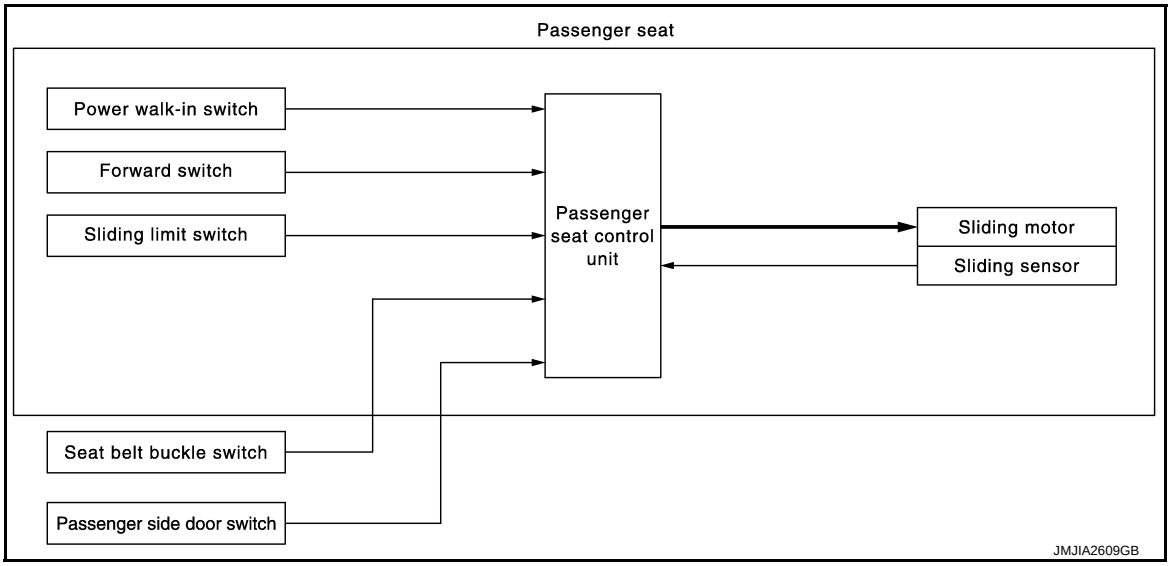
INFOID:0000000004746799

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

POWER WALK-IN FUNCTION

POWER WALK-IN FUNCTION : System Diagram

INFOID:0000000004746800



POWER WALK-IN FUNCTION : System Description

INFOID:0000000004746801

OUTLINE

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

Forward Operation

Slides the driver seat to the front end position (sliding limit switch: ON) by operating the power walk-in switch when the seatback is folded down.
The forward operation is stopped by folding the seatback (forward switch: OFF) during the forward operation.

Backward Operation

The seatback is folded up after performing the forward operation of power walk-in function. Slide the driver seat to the backward position before performing the forward operation by operating the power walk-in switch.
If the manual operation, memory operation, and Intelligent Key interlock operation are performed after performing the forward operation, do not perform the backward operation.

OPERATION PROCEDURE

Forward Operation

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

Backward Operation

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

*: If the seat sliding position before starting the forward operation is more than 177.6 mm (6.992 in) from the front end position, the maximum is 177.6 mm (6.992 in).

OPERATION CONDITION

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

Forward Operation

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

Backward Operation

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

DETAIL FLOW

Forward Operation

Order	Inputs	Outputs	Control unit condition
1	Forward switch	—	Passenger seat control unit detects that the seatback 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

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

SLEEP MODE

- The passenger seat control unit is equipped with the sleep mode to reduce the electric power consumption.
- The sleep mode is activated when all of the following conditions are satisfied.

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

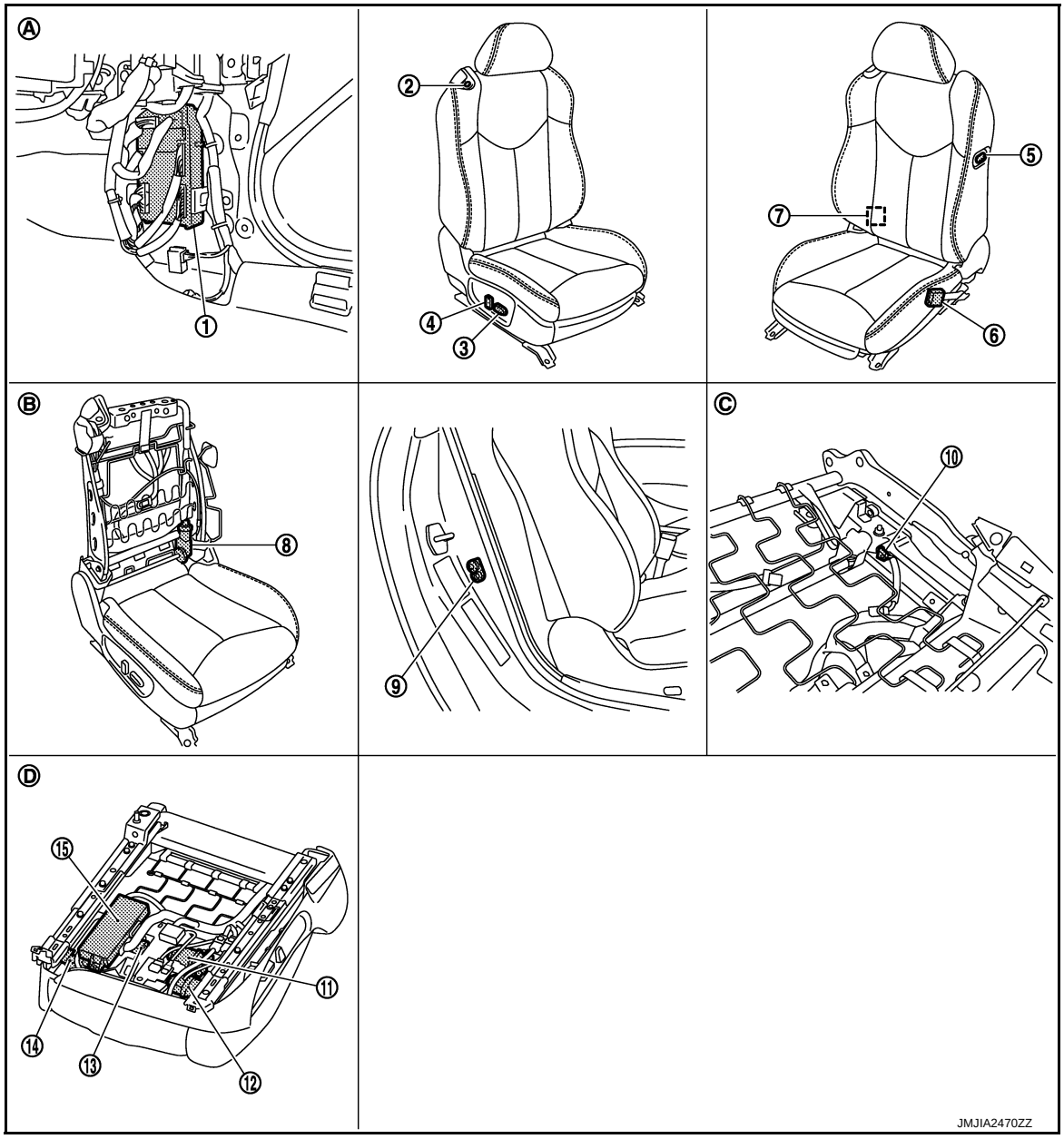
WAKE-UP MODE

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

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

POWER WALK-IN FUNCTION : Component Parts Location

INFOID:0000000005096251



1. BCM M118, M119, M123
2. Power walk-in switch B557
3. Sliding, lifting switch (power seat switch) B554
4. Reclining switch (power seat switch) B554
5. Sliding switch (seatback) B561
6. Seat belt buckle switch (passenger side) B213
7. Forward switch B556
8. Reclining motor B566
9. Passenger side door switch B216
10. Sliding limit switch B558
11. Lifting motor (rear) B570
12. Sliding motor B567
13. Lifting motor (front) B569
14. Sliding sensor B568
15. Passenger seat control unit B552, B553

A. Dash side lower (passenger side)
B. View with seatback pad removed
C. View with seatback pad removed
D. Back side of seat cushion

POWER WALK-IN FUNCTION : Component Description

INFOID:0000000004746803

CONTROL UNITS

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

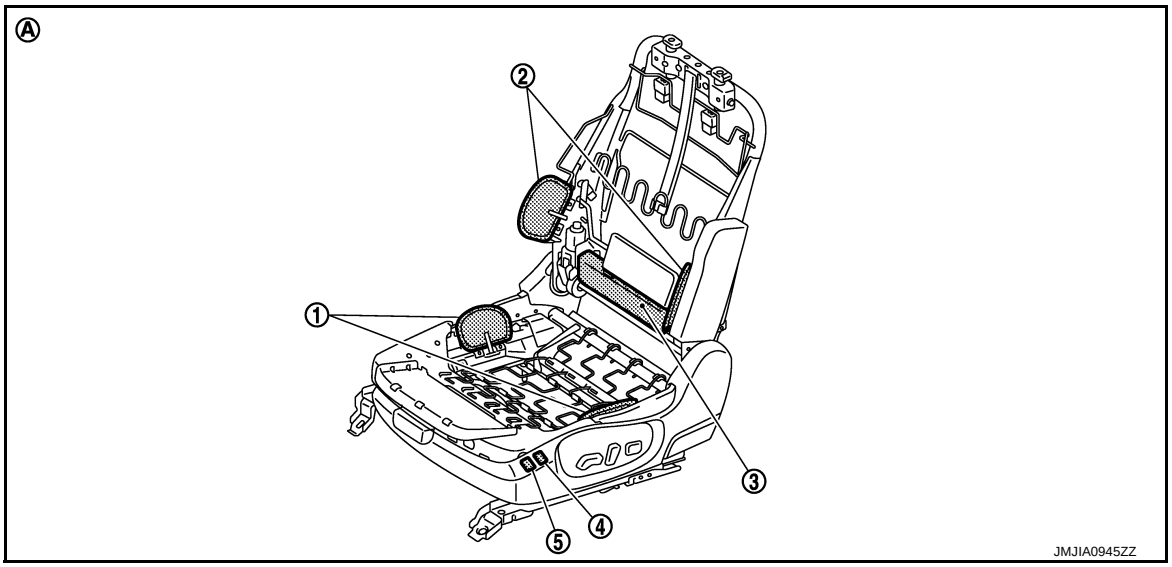
System Description

INFOID:0000000004746804

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

Component Parts Location

INFOID:0000000004746805



1. Side support (seat cushion) (Side support unit B509)
2. Side support (seatback) (Side support unit B509)
3. Side support unit B509
4. Side support switch (seatback side) B508
5. Side support switch (cushion side) B508

A. View with seat cushion pad and seat back pad are removed.

Component Description

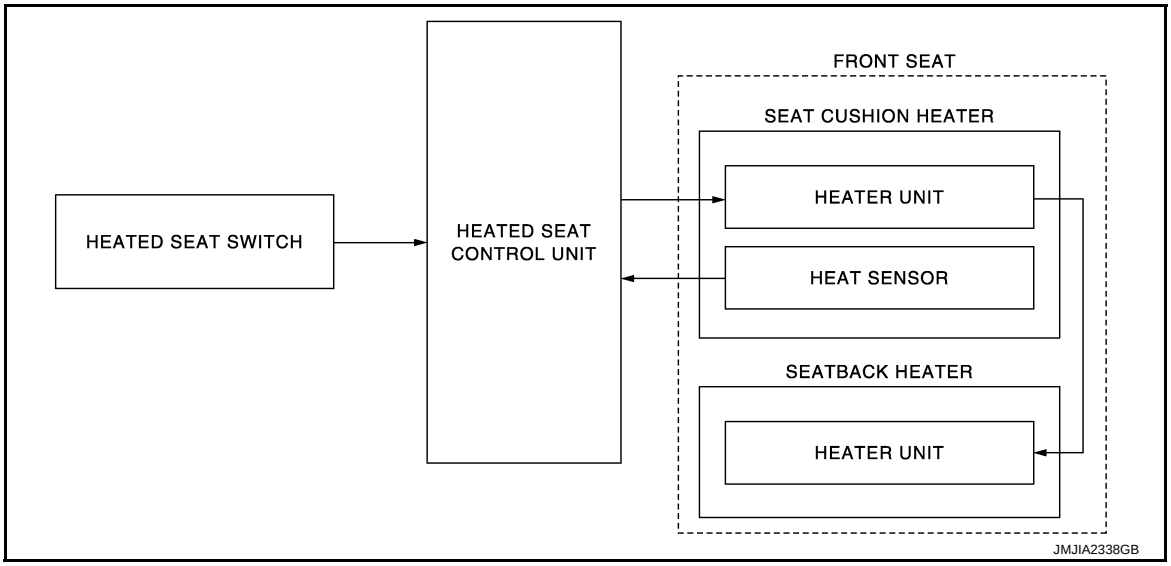
INFOID:0000000004746806

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

HEATED SEAT

System Diagram

INFOID:0000000004746807



System Description

INFOID:0000000004746808

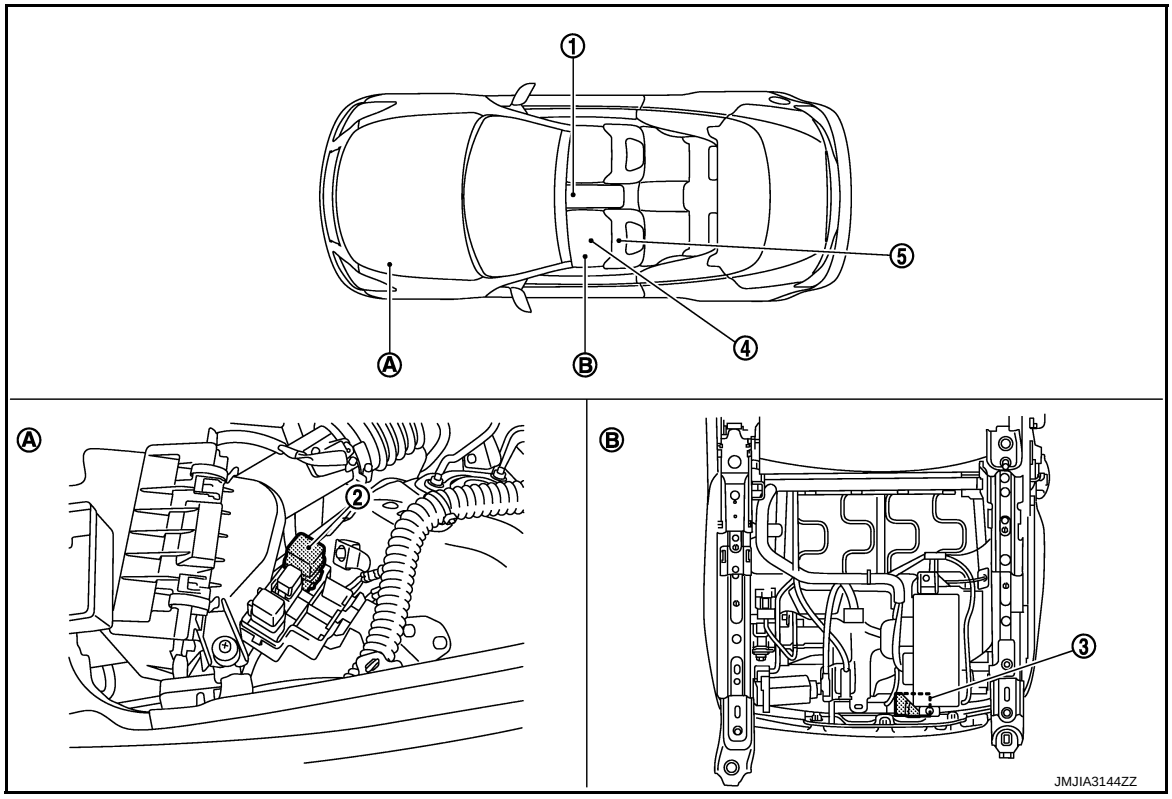
- Heated seat is activated by heated seat switch while ignition switch is ON, and is equipped with the function to warm seat cushion and seatback.
- Heated seat is equipped with the 6-stage temperature adjustment function that adjusts temperature by operating heated seat switch to the optimal position.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

OPERATION DESCRIPTION

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

Component Parts Location

INFOID:0000000004746809



1. Heated seat switch
   - Driver side
     A/T M141
     M/T M175
   - Passenger side
     A/T M142
     M/T M176
2. Heated seat relay E19
3. Heated seat control unit
   - Driver side B518
   - Passenger side B575
4. Seat cushion heater
   - Driver side B517, B541
   - Passenger side B574, B581
5. Seatback heater
   - Driver side B542
   - Passenger side B582

A. Engine room fuse,fusesible link and relay box
B. Backside of seat cushion

Component Description

INFOID:0000000004746810

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

LUMBAR SUPPORT

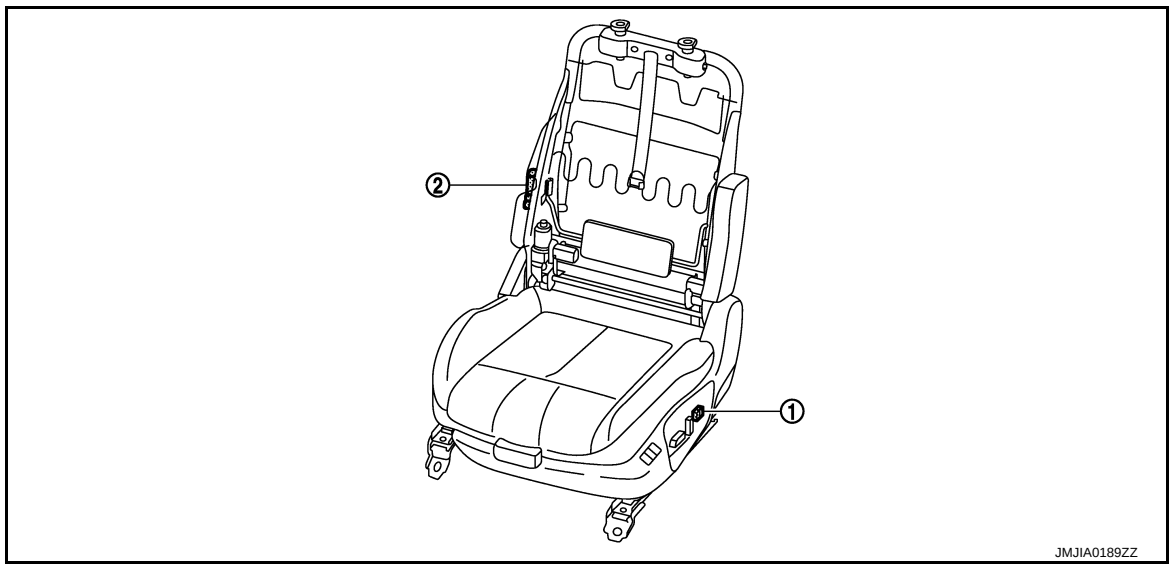
System Description

INFOID:0000000004746811

- 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:0000000004746812



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

Component Description

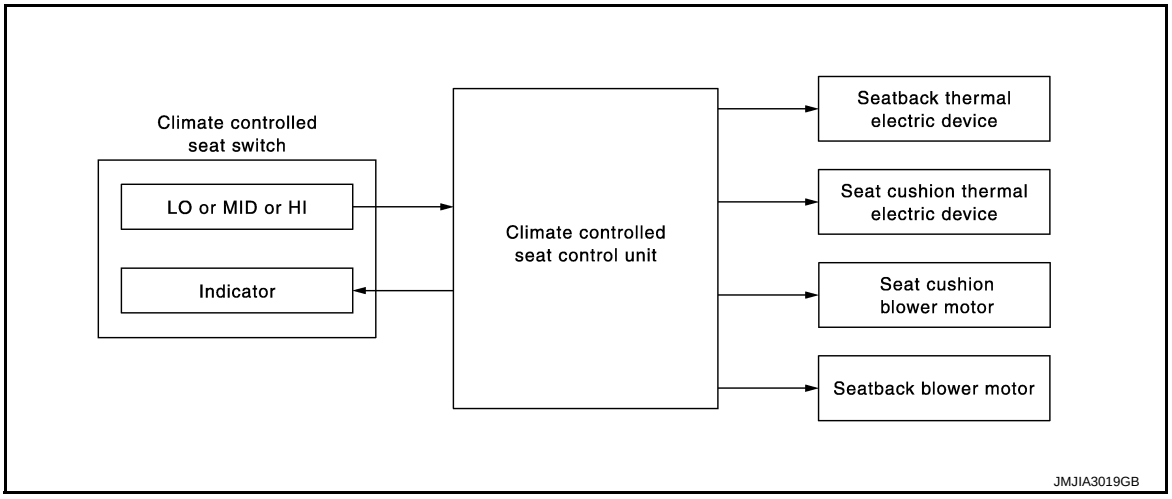
INFOID:0000000004746813

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

CLIMATE CONTROLLED SEAT

System Diagram

INFOID:0000000004747447



System Description

INFOID:0000000004747448

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

SEAT CUSHION AND SEATBACK TEMPERATURE ADJUSTMENT FUNCTION

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

CAUTION:

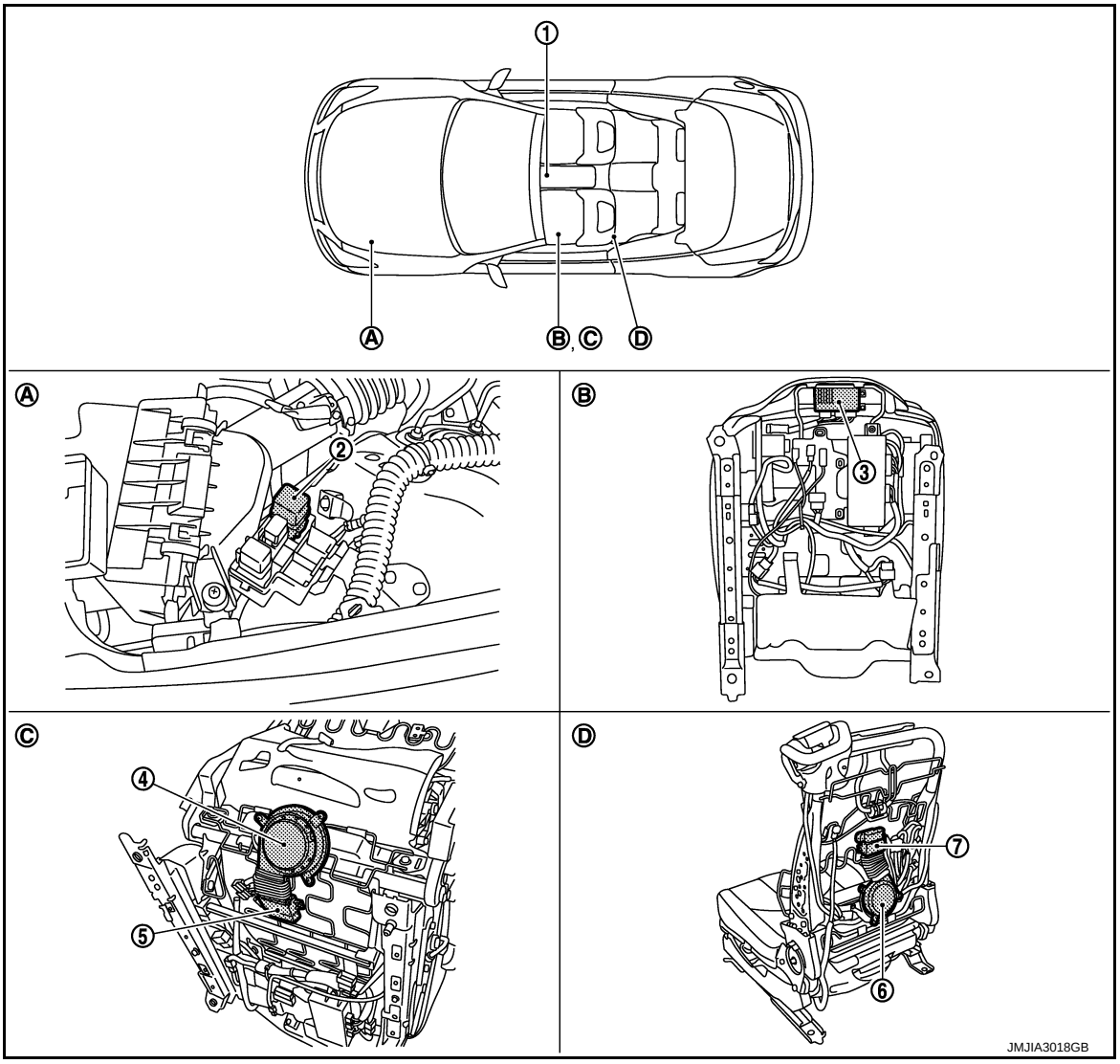
- **The thermal electric device has a dual-climate function that allows one side to operate at a high temperature and the other to operate at a low temperature simultaneously.**
- **Before starting always turn OFF the switch and check that the electric device is cold.**

FAIL-SAFE

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

Component Parts Location

INFOID:0000000004747449



1. Climate controlled seat switch (driver side) M177 (passenger side) M178
2. Climate controlled seat relay E20
3. Climate controlled seat control unit (driver side) B606,B607,B608
4. Climate controlled seat cushion brower motor (driver side) B605
5. Seat cushion thermal electric device (driver side) B603
6. Climate controlled seatback brower motor (driver side) B604
7. Seatback thermal electric device (driver side) B602

A. Engine room fuse,fusesible link and relay box
B. Back side of seat cushion.
C. View with seat cushion rear finisher.
D. View with seatback board.

Component Description

INFOID:0000000004747450

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

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

DIAGNOSIS SYSTEM (DRIVER SEAT C/U)

Diagnosis Description

INFOID:0000000004746814

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

DIAGNOSTIC MODE

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

CONSULT-III Function

INFOID:0000000004746815

SELF DIAGNOSTIC RESULTS

Refer to SE-155, "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.

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) leftward/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.

ACTIVE TEST

CAUTION:

When driving vehicle, do not perform active test.

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

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

DTC/CIRCUIT DIAGNOSIS

U1000 CAN COMM CIRCUIT

Description

INFOID:0000000004746816

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

DTC Logic

INFOID:0000000004746817

DTC DETECTION LOGIC

DTC	Trouble diagnosis name	DTC detecting condition	Possible cause
U1000	CAN COMM CIRCUIT	• 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 SE-34, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000004746818

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

Special Repair Requirement

INFOID:0000000004746819

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

B2112 SLIDING MOTOR

Description

INFOID:0000000004746820

- 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:0000000004746821

DTC DETECTION LOGIC

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

DTC CONFIRMATION PROCEDURE

1.STEP 1

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

Is the DTC detected?

YES >> Refer to SE-35, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000004746822

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Check “Self diagnostic result” using CONSULT-III.
3. Erase the DTC.
4. Perform DTC confirmation procedure. Refer to SE-35, "DTC Logic".

Is the DTC displayed again?

YES >> GO TO 2.
NO >> GO TO 4.

2.CHECK SLIDING MOTOR CIRCUIT (POWER SHORT)

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

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

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness.

3.CHECK DRIVER SEAT CONTROL UNIT OUTPUT SIGNAL

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

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

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace driver seat control unit. Refer to SE-248, "Removal and Installation"

4. CHECK INTERMITTENT INCIDENT

Check intermittent incident.
Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

B2113 RECLINING MOTOR

Description

INFOID:0000000004746823

- The seat reclining motor is installed to the seatback frame.
- The seat reclining motor is activated with the driver seat control unit.
- Tilts the seatback frontward/rearward by changing the rotation direction of reclining motor.

DTC Logic

INFOID:0000000004746824

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2113	SEAT RECLINING	The driver seat control unit detects the output of 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

1.PEFORM DTC CONFIRMATION PROCEDURE

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

Is the DTC detected?

YES >> Refer to SE-37, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000004746825

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Check “Self diagnostic result” using CONSULT-III.
3. Erase the DTC.
4. Perform DTC confirmation procedure. Refer to SE-37, "DTC Logic".

Is the DTC displayed again?

YES >> GO TO 2.
NO >> Check intermittent incident. Refer to GI-36, "Intermittent Incident".

2.CHECK RECLINING MOTOR CIRCUIT (POWER SHORT)

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

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

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness.

3.CHECK DRIVER SEAT CONTROL UNIT OUTPUT SIGNAL

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

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

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace driver seat control unit. Refer to SE-248, "Removal and Installation".

4. CHECK INTERMITTENT INCIDENT

Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

POWER SUPPLY AND GROUND CIRCUIT
DRIVER SEAT CONTROL UNIT

DRIVER SEAT CONTROL UNIT : Diagnosis Procedure

INFOID:0000000004746826

NOTE:
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	Battery power supply	I (40 A)
40		10 (10 A)

Is the inspection result normal?

YES >> GO TO 2.
NO >> Replace the blown fuse and fusible link after repairing the affected circuit if fuse and fusible link are blown.

2.CHECK POWER SUPPLY CIRCUIT

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

(+)		(–)	Voltage (V) (Approx.)
Driver seat control unit			
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	
B503	32		Existed
B504	48		

Is the inspection result normal?

YES >> INSPECTION END
NO >> Repair or replace harness.

PASSENGER SEAT CONTROL UNIT

PASSENGER SEAT CONTROL UNIT : Diagnosis Procedure

INFOID:0000000004746827

1.CHECK FUSE AND FUSIBLE LINK

Check that the following fuse is not fusing.

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

Is the inspection result normal?

YES >> GO TO 2.
NO >> Replace the blown fuse after repairing the affected circuit if a fuse is blown.

2.CHECK POWER SUPPLY 1

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

(+)		(–)	Voltage (V) (Approx.)
Passenger seat control unit			
Connector	Terminal		
B553	40	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness.

3.CHECK POWER SUPPLY 2

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

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

Is the inspection result normal?

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

4.CHECK GROUND CIRCUIT

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

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

Is the inspection result normal?

YES >> INSPECTION END
NO >> Repair or replace harness.

5.CHECK POWER SUPPLY CIRCUIT

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

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

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

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

Is the inspection result normal?

YES >> Replace BCM.Refer to @@@.
NO >> Repair or replace harness.

HEATED SEAT CONTROL UNIT

HEATED SEAT CONTROL UNIT : Diagnosis Procedure

INFOID:0000000004746828

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.

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

Is the inspection result normal?

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

3.CHECK POWER SUPPLY CIRCUIT 1

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

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

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

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

Is the inspection result normal?

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

4.CHECK POWER SUPPLY 2

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

(+)			(–)	Condition		Voltage (V) (Approx.)
Heated seat control unit						
Connector		Terminal				
Driver side	B518	66	Ground	Heated seat switch	ON	Battery voltage
					OFF	0
Passenger side	B575				ON	Battery voltage
					OFF	0

Is the inspection result normal?

YES >> GO TO 7.
NO >> GO TO 5.

5.CHECK POWER SUPPLY CIRCUIT 2

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

Heated seat control unit			Heated seat switch		Continuity
Connector		Terminal	Connector	Terminal	
Driver side	B518	66	A/T models: M141 M/T models: M175	1	Existed
Passenger side	B575		A/T models: M142 M/T models: M176		

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

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

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 SE-102, "DRIVER SIDE : Component Inspection".
- Passenger side: Refer to SE-104, "PASSENGER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 8.
NO >> Replace heated seat switch. Refer to SE-256, "Removal and Installation".

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			Ground	Continuity
Connector		Terminal		
Driver side	B518	48		Existed
Passenger side	B575			

Is the inspection result normal?

YES >> INSPECTION END
NO >> Repair or replace harness.

8.CHECK INTERMITTENT INCIDENT

Check intermittent incident.
Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

HEATED SEAT SWITCH

HEATED SEAT SWITCH : Diagnosis Procedure

INFOID:0000000004746829

1.CHECK FUSE

Check that the following fuse is not fusing.

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

Is the inspection result normal?

YES >> GO TO 2.
NO >> Replace the blown fuse after repairing the affected circuit if a fuse is blown.

2.CHECK POWER SUPPLY

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

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

Is the inspection result normal?

YES >> INSPECTION END
NO >> GO TO 3.

3.CHECK POWER SUPPLY CIRCUIT

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

Heated seat switch			Fuse block (J/B)		Continuity
Connector		Terminal	Connector	Terminal	
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			Ground	Continuity
Connector		Terminal		
Driver side	A/T models: M141 M/T models: M175	5		Not existed
Passenger side	A/T models: M142 M/T models: M176			

Is the inspection result normal?

YES >> GO TO 4.
NO >> Repair or replace harness.

4.CHECK FUSE BLOCK (J/B)

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

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

Is the inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace fuse block (J/B).

5.CHECK INTERMITTENT INCIDENT

Check intermittent incident.
Refer to GI-36, "Intermittent Incident"

>> INSPECTION END

CLIMATE CONTROLLED SEAT CONTROL UNIT

CLIMATE CONTROLLED SEAT CONTROL UNIT : Diagnosis Procedure

INFOID:0000000004747451

Driver side

1.CHECK FUSE

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

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

Is the fuse fusing?

YES >> Replace the blown fuse after repairing the affected circuit if a fuse are blown.
NO >> GO TO 2.

2.CHECK CLIMATE CONTROLLED SEAT CONTROL UNIT POWER SUPPLY 1

1. Turn ignition switch OFF.

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

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

Is the measurement value normal?

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

3.CHECK GROUND CIRCUIT

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

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

Does continuity exist?

YES >> INSPECTION END
NO >> Repair or replace harness or connector.

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

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

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

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

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

Is the measurement value normal?

YES >> GO TO 5.
NO >> Repair or replace harness or connector.

5.CHECK CILMATE CONTROLLED SEAT RELAY POWER SUPPLY CIRCUIT 2

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

Terminals			Voltage (Approx.)
(+)		(–)	
Climate controlled seat relay		Ground	
Connector	Terminal		
E20	2		Battery voltage
	7		

Is the measurement value normal?

YES >> GO TO 6.
NO >> Repair or replace harness or connector.

6.CHECK CLIMATE CONTROLLED SEAT RELAY

Check climate controlled seat relay.
Refer to SE-48, "CLIMATE CONTROLLED SEAT CONTROL UNIT : Component Inspection"

Is the inspection result normal?

YES >> GO TO 7.
NO >> Replace climate controlled seat relay.

7.CHECK CLIMATE CONTROLLED SEAT RELAY GROUND CIRCUIT

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

Climate controlled seat relay		Ground	Continuity
Connector	Terminal		
E20	1		Existed

Does continuity exist?

YES >> GO TO 8.
NO >> Repair or replace harness.

8.CHECK INTERMITTENT INCIDENT

Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

Passenger side

1.CHECK FUSE

Check that the following fuses are not fusing.

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

Is the fuse fusing?

YES >> Replace the blown fuse after repairing the affected circuit if a fuse is blown.
NO >> GO TO 2.

2.CHECK CLIMATE CONTROLLED SEAT CONTROL UNIT POWER SUPPLY

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

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

Is the measurement value normal?

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

3.CHECK GROUND CIRCUIT

Check continuity between harness connector and ground.

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

Does continuity exist?

YES >> INSPECTION END
NO >> Repair harness or connector.

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

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

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

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

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

Is the measurement value normal?

YES >> GO TO 5.
NO >> Repair or replace harness or connector.

5.CHECK CILMATE CONTROLLED SEAT RELAY POWER SUPPLY CIRCUIT

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

Terminals			Voltage (Approx.)
(+)		(–)	
Climate controlled seat relay		Ground	
Connector	Terminal		
E20	2		Battery voltage
	5		

Is the measurement value normal?

YES >> GO TO 6.
NO >> Repair or replace harness or connector.

6.CHECK CLIMATE CONTROLLED SEAT RELAY

Check climate controlled seat relay.
Refer to SE-48, "CLIMATE CONTROLLED SEAT CONTROL UNIT : Component Inspection"

Is the inspection result normal?

YES >> GO TO 7.
NO >> Replace climate controlled seat relay.

7.CHECK CLIMATE CONTROLLED SEAT RELAY GROUND CIRCUIT

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

Climate controlled seat relay		Ground	Continuity
Connector	Terminal		
E20	1		Existed

Does continuity exist?

YES >> GO TO 8.
NO >> Repair or replace harness.

8.CHECK INTERMITTENT INCIDENT

Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

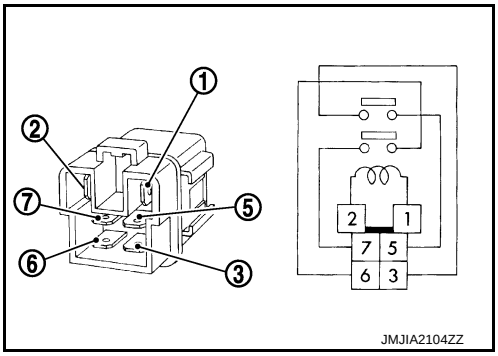
CLIMATE CONTROLLED SEAT CONTROL UNIT : Component Inspection

INFOID:0000000004747452

1.CHECK CLIMATE CONTROLLED SEAT RELAY

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

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



Is the inspection result normal?

YES >> INSPECTION END.
NO >> Replace climate controlled seat relay.

SLIDING SWITCH
DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000004746830

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

DRIVER SIDE : Component Function Check

INFOID:0000000004746831

1.CHECK FUNCTION

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

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

Is the indication normal?

YES >> Sliding switch function is OK.
NO >> Refer to SE-49, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000004746832

1.CHECK SLIDING SWITCH SIGNAL

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

(+)		(–)	Voltage (V) (Approx.)
Power seat switch			
Connector	Terminal		
B511	11	Ground	Battery voltage
	26		

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.
2. 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	
B503	11	B511	11	Existed
	26		26	

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

Driver seat control unit		Ground	Continuity
Connector	Terminal		
B503	11		Not existed
	26		

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to SE-248, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK SLIDING SWITCH

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

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace power seat switch. Refer to SE-252, "Removal and Installation".

4.CHECK INTERMITTENT INCIDENT

Check intermittent incident.
Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

DRIVER SIDE : Component Inspection

INFOID:0000000004746833

1.CHECK SLIDING SWITCH

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

Is the inspection result normal?

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

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000004746834

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

PASSENGER SIDE : Component Function Check

INFOID:0000000004746835

1.CHECK FUNCTION

Check seat sliding operation with sliding switch.

Is the indication normal?

YES >> Sliding switch function is OK.
NO >> Refer to SE-51, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000004746836

1.CHECK SLIDING SWITCH SIGNAL

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

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

Is the inspection result normal?

YES >> Sliding switch circuit is OK.
NO >> GO TO 2.

2.CHECK SLIDING SWITCH INPUT SIGNAL

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

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

Is the inspection result normal?

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

3.CHECK SLIDING SWITCH CIRCUIT

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

Sliding switch (seatback)		Power seat switch		Continuity
Connector	Terminal	Connector	Terminal	
B561	22	B554	22	Existed
	23		23	

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

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

Is the inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace harness.

4.CHECK SLIDING SWITCH

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

Is the inspection result normal?

YES >> GO TO 6.
NO >> Replace power seat switch. Refer to SE-252, "Removal and Installation".

5.CHECK SLIDING SWITCH (SEATBACK)

Check sliding switch (seatback).
Refer to SE-54, "SEATBACK : Component Inspection".

Is the inspection result normal?

YES >> GO TO 6.
NO >> Replace sliding switch (seatback). Refer to SE-223, "Exploded View".

6.CHECK INTERMITTENT INCIDENT

Check intermittent incident.
Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:0000000004746837

1.CHECK SLIDING SWITCH

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

Power seat switch		Condition		Continuity
Terminal				
32	22	Sliding switch	Forward	Existed
			Other than above	Not existed
	23		Backward	Existed
			Other than above	Not existed

Is the inspection result normal?

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

SEATBACK

SEATBACK : Description

INFOID:0000000004746838

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

SEATBACK : Component Function Check

INFOID:0000000004746839

1.CHECK FUNCTION

Check seat sliding operation with sliding switch (seatback).

Is the inspection result normal?

YES >> Sliding switch (seatback) function is OK.
NO >> Refer to SE-52, "SEATBACK : Diagnosis Procedure".

SEATBACK : Diagnosis Procedure

INFOID:0000000004746840

1.CHECK SLIDING SWITCH (SEATBACK) SIGNAL

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

(+)		(–)	Condition		Voltage (V) (Approx.)
Passenger seat control unit					
Connector	Terminal				
B552	11	Ground	Sliding switch (seatback)	Backward	0
				Other than above	Battery voltage
	26			Forward	0
				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.
2. Check continuity between passenger seat control unit harness connector and sliding switch (seatback) harness connector.

Passenger seat control unit		Sliding switch (seatback)		Continuity
Connector	Terminal	Connector	Terminal	
B552	11	B561	11	Existed
	26		26	

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

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

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness.

3.CHECK SLIDING SWITCH (SEATBACK) GROUND CIRCUIT

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

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

Is the inspection result normal?

YES >> GO TO 4.
NO >> Repair or replace harness.

4.CHECK SLIDING SWITCH (SEATBACK)

Check sliding switch (seatback).
Refer to SE-54, "SEATBACK : Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace sliding switch (seatback). Refer to SE-223, "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.

(+)		(–)	Voltage (V) (Approx.)
Passenger seat control unit			
Connector	Terminal		
B552	11	Ground	Battery voltage
	26		

Is the inspection result normal?

YES >> GO TO 6.
NO >> Replace passenger seat control unit. Refer to SE-249, "Removal and Installation".

6.CHECK INTERMITTENT INCIDENT

Check intermittent incident.
Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

SEATBACK : Component Inspection

INFOID:0000000004746841

1.CHECK SLIDING SWITCH

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

Sliding switch (seatback)		Condition		Continuity
Terminal				
32	11	Sliding switch (seatback)	Backward	Existed
			Other than above	Not existed
	26		Forward	Existed
			Other than above	Not existed
11	23		Backward	Not existed
			Other than above	Existed
26	22		Forward	Not existed
			Other than above	Existed

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace sliding switch (seatback). Refer to SE-223, "Exploded View".

RECLINING SWITCH
DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000004746842

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

DRIVER SIDE : Component Function Check

INFOID:0000000004746843

1.CHECK FUNCTION

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

Monitor item	Condition		Status
RECLINE SW-FR	Reclining switch (forward)	Operate	ON
		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 SE-55, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000004746844

1.CHECK RECLINING SWITCH SIGNAL

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

(+)		(–)	Voltage (V) (Approx.)
Power seat switch			
Connector	Terminal		
B511	12	Ground	Battery voltage
	27		

Is the inspection result normal?

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

2.CHECK RECLINING SWITCH CIRCUIT

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

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

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

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

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to SE-248, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK RECLINING SWITCH

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

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace power seat switch. Refer to SE-252, "Removal and Installation".

4.CHECK INTERMITTENT INCIDENT

Check intermittent incident.
Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

DRIVER SIDE : Component Inspection

INFOID:0000000004746845

1.CHECK RECLINING SWITCH

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

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

Is the inspection result normal?

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

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000004746846

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

PASSENGER SIDE : Component Function Check

INFOID:0000000004746847

1.CHECK FUNCTION

Check seat reclining operation with reclining switch.

Is the indication normal?

YES >> Reclining switch function is OK.
NO >> Refer to SE-57, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000004746848

1. CHECK RECLINING SWITCH SIGNAL

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

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

Is the inspection result normal?

YES >> Reclining switch circuit is OK.
NO >> GO TO 2.

2. CHECK RECLINING SWITCH CIRCUIT

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

Passenger seat control unit		Power seat switch		Continuity
Connector	Terminal	Connector	Terminal	
B552	12	B554	12	Existed
	27		27	

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

Passenger seat control unit		Ground	Continuity
Connector	Terminal		
B552	12		Not existed
	27		

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness.

3. CHECK RECLINING SWITCH

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

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace power seat switch. Refer to SE-252, "Removal and Installation".

4. CHECK PASSENGER SEAT CONTROL UNIT OUTPUT SIGNAL

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

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

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace passenger seat control unit. Refer to SE-249, "Removal and Installation".

5.CHECK INTERMITTENT INCIDENT

Check intermittent incident.
Refer toGI-36, "Intermittent Incident".

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:0000000004746849

1.CHECK RECLINING SWITCH

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

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

Is the inspection result normal?

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

LIFTING SWITCH (FRONT)

DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000004746850

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

DRIVER SIDE : Component Function Check

INFOID:0000000004746851

1.CHECK FUNCTION

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

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

Is the indication normal?

YES >> Lifting switch (front) function is OK.
NO >> Refer to SE-59, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000004746852

1.CHECK LIFTING SWITCH (FRONT) SIGNAL

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

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

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.
2. 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	
B503	13	B511	13	Existed
	28		28	

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

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

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to SE-248, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK LIFTING SWITCH (FRONT)

Check lifting switch (front).
Refer to SE-60, "DRIVER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace power seat switch. Refer to SE-252, "Removal and Installation".

4.CHECK INTERMITTENT INCIDENT

Check intermittent incident.
Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

DRIVER SIDE : Component Inspection

INFOID:0000000004746853

1.CHECK LIFTING SWITCH (FRONT)

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

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

Is the inspection result normal?

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

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000004746854

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

PASSENGER SIDE : Component Function Check

INFOID:0000000004746855

1.CHECK FUNCTION

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

Is the indication normal?

YES >> Lifting switch (front) function is OK.
NO >> Refer to SE-61, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000004746856

1.CHECK LIFTING SWITCH (FRONT) SIGNAL

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

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

Is the inspection result normal?

YES >> Lifting switch (front) circuit is OK.
NO >> GO TO 2.

2.CHECK LIFTING SWITCH (FRONT) CIRCUIT

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

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

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

Passenger seat control unit		Ground	Continuity
Connector	Terminal		
B552	13		Not existed
	28		

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness.

3.CHECK LIFTING SWITCH (FRONT)

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

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace power seat switch. Refer to SE-252, "Removal and Installation".

4.CHECK PASSENGER SEAT CONTROL UNIT OUTPUT SIGNAL

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

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

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace passenger seat control unit. Refer to SE-249, "Removal and Installation".

5.CHECK INTERMITTENT INCIDENT

Check intermittent incident.
Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:0000000004746857

1.CHECK LIFTING SWITCH (FRONT)

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

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

Is the inspection result normal?

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

LIFTING SWITCH (REAR)
DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000004746858

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

DRIVER SIDE : Component Function Check

INFOID:0000000004746859

1.CHECK FUNCTION

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

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

Is the indication normal?

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

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000004746860

1.CHECK LIFTING SWITCH (REAR) SIGNAL

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

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

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

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

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

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

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to SE-248, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK LIFTING SWITCH (REAR)

Check lifting switch (rear).
Refer to SE-64, "DRIVER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace power seat switch. Refer to SE-252, "Removal and Installation".

4.CHECK INTERMITTENT INCIDENT

Check intermittent incident.
Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

DRIVER SIDE : Component Inspection

INFOID:0000000004746861

1.CHECK LIFTING SWITCH (REAR)

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

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

Is the inspection result normal?

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

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000004746862

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

PASSENGER SIDE : Component Function Check

INFOID:0000000004746863

1.CHECK FUNCTION

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

Is the indication normal?

YES >> Lifting switch (rear) function is OK.
NO >> Refer to SE-65, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000004746864

1.CHECK LIFTING SWITCH (REAR) SIGNAL

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

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

Is the inspection result normal?

YES >> LIfting switch (front) circuit is OK.
NO >> GO TO 2.

2.CHECK LIFTING SWITCH (REAR) CIRCUIT

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

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

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

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

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness.

3.CHECK LIFTING SWITCH (REAR)

Check lifting switch (rear).
Refer to SE-66, "PASSENGER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace power seat switch. Refer to SE-252, "Removal and Installation".

4.CHECK PASSENGER SEAT CONTROL UNIT OUTPUT SIGNAL

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

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

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace passenger seat control unit. Refer to SE-249, "Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident.
Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:0000000004746865

1. CHECK LIFTING SWITCH (REAR)

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

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

Is the inspection result normal?

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

POWER SEAT SWITCH GROUND CIRCUIT

DRIVER SIDE

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000004746866

1.CHECK POWER SEAT SWITCH GROUND CIRCUIT

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

Power seat switch		Ground	Continuity
Connector	Terminal		
B511	32		Existed

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness.

2.CHECK POWER SEAT SWITCH INTERNAL CIRCUIT

Check lifting switch (rear).
Refer to SE-64, "DRIVER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 3.
NO >> Replace power seat switch. Refer to SE-252, "Removal and Installation".

3.CHECK INTERMITTENT INCIDENT

Check intermittent incident.
Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

PASSENGER SIDE

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000004746867

1.CHECK POWER SEAT SWITCH GROUND CIRCUIT

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

Power seat switch		Ground	Continuity
Connector	Terminal		
B554	32		Existed

Is the inspection result normal?

YES-1:When power seat switch does not operate any components.>>GO TO 2.
YES-2:When all power seat components do not operate.>>GO TO 3.
NO >> Repair or replace harness.

2.CHECK POWER SEAT SWITCH INTERNAL CIRCUIT

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

Is the inspection result normal?

YES >> GO TO 3.
NO >> Replace power seat switch. Refer to SE-252, "Removal and Installation".

3.CHECK INTERMITTENT INCIDENT

Check intermittent incident.
Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

FORWARD SWITCH
DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000004746868

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

DRIVER SIDE : Component Function Check

INFOID:0000000004746869

1.CHECK FUNCTION

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

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

Is the indication normal?

YES >> Forward switch function is OK.
NO >> Refer to SE-69, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000004746870

1.CHECK FORWARD SWITCH INPUT SIGNAL

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

(+)		(–)	Condition	Voltage (V) (Approx.)
Forward switch				
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

1. Disconnect driver seat control unit connector.
2. 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	
B504	41	B512	41	Existed

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

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

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to SE-248, "Removal and Installation"
NO >> Repair or replace harness.

3.CHECK FORWARD SWITCH GROUND CIRCUIT

Check continuity between forward switch harness connector and ground.

Forward switch		Ground	Continuity
Connector	Terminal		
B512	32		Existed

Is the inspection result normal?

YES >> GO TO 4.
NO >> Repair or replace harness.

4.CHECK FORWARD SWITCH

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

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace forward switch. Refer to SE-223, "Exploded View".

5.CHECK INTERMITTENT INCIDENT

Check intermittent incident.
Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

DRIVER SIDE : Component Inspection

INFOID:0000000004746871

1.CHECK FORWARD SWITCH

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

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

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace forward switch. Refer to SE-223, "Exploded View".

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000004746872

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

PASSENGER SIDE : Component Function Check

INFOID:0000000004746873

1.CHECK FUNCTION

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

Is the inspection result normal?

YES >> Forward switch function is OK.
NO >> Refer to SE-71, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000004746874

1.CHECK FORWARD SWITCH INPUT SIGNAL

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

(+)		(–)	Condition	Voltage (V) (Approx.)
Passenger seat control unit				
Connector	Terminal			
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

1. Disconnect passenger seat control unit connector and forward switch connector.
2. 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	
B553	41	B556	41	Existed

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

Passenger seat control unit		Ground	Continuity
Connector	Terminal		
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		Ground	Continuity
Connector	Terminal		
B556	32		Existed

Is the inspection result normal?

YES >> GO TO 4.
NO >> Repair or replace harness.

4.CHECK FORWARD SWITCH

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

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace forward switch. Refer to SE-223, "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.

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

6.CHECK INTERMITTENT INCIDENT

Check intermittent incident.
Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:0000000004746875

1.CHECK FORWARD SWITCH

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

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

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace forward switch. Refer to SE-223, "Exploded View".

SEAT BELT BUCKLE SWITCH
DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000004746876

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

DRIVER SIDE : Component Function Check

INFOID:0000000004746877

1.CHECK FUNCTION

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

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

Is the indication normal?

YES >> Seat belt buckle switch (driver side) function is OK.
NO >> Refer to SE-73, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000004746878

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

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

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

Is the inspection result normal?

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

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

1. 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	
B503	5	B13	1	Existed

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

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

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to SE-248, "Removal and Installation".
NO >> Repair or replace harness.

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

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

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

Is the inspection result normal?

YES >> GO TO 4.
NO >> Repair or replace harness.

4.CHECK SEAT BELT BUCKLE SWITCH

Check seat belt buckle switch (driver side).
Refer to SE-74, "DRIVER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace seat belt buckle switch (driver side). Refer to SE-223, "Exploded View".

5.CHECK INTERMITTENT INCIDENT

Check intermittent incident.
Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

DRIVER SIDE : Component Inspection

INFOID:0000000004746879

1.CHECK SEAT BELT BUCKLE SWITCH (DRIVER SIDE)

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

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

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace seat belt buckle switch (driver side). Refer to SE-223, "Exploded View".

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000004746880

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

PASSENGER SIDE : Component Function Check

INFOID:0000000004746881

1.CHECK FUNCTION

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

Is the inspection result normal?

YES >> Seat belt buckle switch (passenger side) is OK.
NO >> Refer to SE-75, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000004746882

1.CHECK SEAT BELT BUCKLE SWITCH SIGNAL

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

(+)		(–)	Condition	Voltage (V) (Approx.)
Passenger seat control unit				
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

1. Disconnect passenger seat control unit connector and seat belt buckle switch (passenger side) connector.
2. 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	
B552	5	B213	1	Existed

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

Passenger seat control unit		Ground	Continuity
Connector	Terminal		
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)		Ground	Continuity
Connector	Terminal		
B213	2		Existed

Is the inspection result normal?

YES >> GO TO 4.
NO >> Repair or replace harness.

4.CHECK SEAT BELT BUCKLE SWITCH (PASSENGER SIDE)

Check seat belt buckle switch.
Refer to SE-76, "PASSENGER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace seat belt buckle switch (passenger side). Refer to SE-223, "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.

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

6.CHECK INTERMITTENT INCIDENT

Check intermittent incident.
Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:0000000004746883

1.CHECK SEAT BELT BUCKLE SWITCH (PASSENGER SIDE)

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

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

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace seat belt buckle switch (passenger side). Refer to SE-223, "Exploded View".

SLIDING LIMIT SWITCH
DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000004746884

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

DRIVER SIDE : Component Function Check

INFOID:0000000004746885

1.CHECK FUNCTION

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

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

Is the indication normal?

YES >> Sliding limit switch function is OK.
NO >> Refer to SE-77, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000004746886

1.CHECK SLIDING LIMIT SWITCH INPUT SIGNAL

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

(+)		(–)	Condition	Voltage (V) (Approx.)
Sliding limit switch				
Connector	Terminal			
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

1. Disconnect driver seat control unit connector.
2. 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	
B503	4	B514	4	Existed

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

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

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to SE-248, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK SLIDING LIMIT SWITCH GROUND CIRCUIT

Check continuity between sliding limit switch harness connector and ground.

Sliding limit switch		Ground	Continuity
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-78, "DRIVER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace sliding limit switch. Refer to SE-223, "Exploded View".

5.CHECK INTERMITTENT INCIDENT

Check intermittent incident.
Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

DRIVER SIDE : Component Inspection

INFOID:0000000004746887

1.CHECK SLIDING LIMIT SWITCH

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

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

Is the inspection result normal?

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

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000004746888

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

PASSENGER SIDE : Component Function Check

INFOID:0000000004746889

1.CHECK FUNCTION

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

Is the inspection result normal?

YES >> Sliding limit switch function is OK.
NO >> Refer to SE-79, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000004746890

1.CHECK SLIDING LIMIT SWITCH SIGNAL

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

(+)		(–)	Condition	Voltage (V) (Approx.)
Passenger seat control unit				
Connector	Terminal			
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

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

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

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

Passenger seat control unit		Ground	Continuity
Connector	Terminal		
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		Ground	Continuity
Connector	Terminal		
B558	32		Existed

Is the inspection result normal?

YES >> GO TO 4.
NO >> Repair or replace harness.

4.CHECK SLIDING LIMIT SWITCH

Check sliding limit switch.
Refer to SE-80, "PASSENGER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace sliding limit switch. Refer to SE-223, "Exploded View".

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.

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

6.CHECK INTERMITTENT INCIDENT

Check intermittent incident.
Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:0000000004746891

1.CHECK SLIDING LIMIT SWITCH

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

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

Is the inspection result normal?

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

POWER WALK-IN SWITCH
DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000004746892

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

DRIVER SIDE : Component Function Check

INFOID:0000000004746893

1.CHECK FUNCTION

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

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

Is the indication normal?

YES >> Power walk-in switch function is OK.
NO >> Refer to SE-81, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000004746894

1.CHECK POWER WALK-IN SWITCH SIGNAL

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

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

Is the inspection result normal?

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

2.CHECK POWER WALK-IN SWITCH CIRCUIT

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

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

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

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

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to SE-248, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK POWER WALK-IN SWITCH GROUND CIRCUIT

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

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

Is the inspection result normal?

YES >> GO TO 4.
NO >> Repair or replace harness.

4.CHECK POWER WALK-IN SWITCH

Check power walk-in switch.
Refer to SE-82, "DRIVER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace power walk-in switch. Refer to SE-223, "Exploded View".

5.CHECK INTERMITTENT INCIDENT

Check intermittent incident.
Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

DRIVER SIDE : Component Inspection

INFOID:0000000004746895

1.CHECK POWER WALK-IN SWITCH

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

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

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace power walk-in switch. Refer to SE-223, "Exploded View".

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000004746896

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

PASSENGER SIDE : Component Function Check

INFOID:0000000004746897

1.CHECK FUNCTION

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

Is the indication normal?

YES >> Power walk-in switch function is OK.
NO >> Refer to SE-83, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000004746898

1.CHECK POWER WALK-IN SWITCH SIGNAL

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

(+)		(–)	Condition		Voltage (V) (Approx.)
Passenger seat control unit					
Connector	Terminal				
B552	30	Ground	Power walk-in switch	Pressed	0
				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.
2. Check continuity between passenger seat control unit harness connector and power walk-in switch harness connector.

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

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

Passenger seat control unit		Ground	Continuity
Connector	Terminal		
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 walk-in switch		Ground	Continuity
Connector	Terminal		
B557	32		Existed

Is the inspection result normal?

YES >> GO TO 4.
NO >> Repair or replace harness.

4.CHECK POWER WALK-IN SWITCH

Check power walk-in switch.
Refer to SE-84, "PASSENGER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace power walk-in switch. Refer to SE-223, "Exploded View".

5.CHECK PASSENGER SEAT CONTROL UNIT OUTPUT

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

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

Is the inspection result normal?

YES >> GO TO 6.
NO >> Replace passenger seat control unit. Refer to SE-249, "Removal and Installation".

6.CHECK INTERMITTENT INCIDENT

Check intermittent incident.
Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:0000000004746899

1.CHECK POWER WALK-IN SWITCH

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

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

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace power walk-in switch. Refer to SE-223, "Exploded View".

DOOR SWITCH

Description

INFOID:0000000004746900

Detects passenger side doors open or closed condition.

Component Function Check

INFOID:0000000004746901

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 SE-85, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000004746902

1.CHECK PASSENGER SIDE DOOR SWITCH

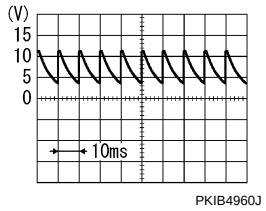
Check passenger side door switch.
Refer to SE-85, "Component Function Check".

Is the inspection result normal?

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

2.CHECK PASSENGER SIDE DOOR SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Check signal between passenger seat control unit harness connector and ground with oscilloscope.

(+)		(–)	Condition		Signal (Reference value)
Passenger seat control unit					
Connector	Terminal				
B552	8	Ground	Passenger side door switch	Pressed	 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

1. Disconnect BCM connector, passenger seat control unit connector and passenger side door switch connector.
2. Check continuity between passenger side door switch harness connector and passenger seat control unit harness connector.

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

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

Passenger side door switch		Ground	Continuity
Connector	Terminal		
B216	3		Not existed

Is the inspection result normal?

YES >> GO TO 4.
NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

Check intermittent incident.
Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

SLIDING SENSOR
DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000004746903

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

DRIVER SIDE : Component Function Check

INFOID:0000000004746904

1.CHECK FUNCTION

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
SLIDE PULSE	Seat sliding	Operate (forward)	Change (increase)*1
		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?

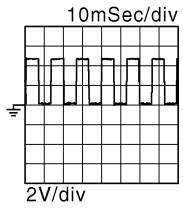
YES >> Sliding sensor function is OK.
NO >> Refer to SE-87, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000004746905

1.CHECK SLIDING SENSOR SIGNAL

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

(+) Sliding sensor		(–)	Condition		Signal (Reference value)
Connector	Terminal				
B526	24	Ground	Seat sliding	Operate	 JMJIA0119ZZ
				Other than above	0 V or 5 V

Is the inspection result normal?

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

2.CHECK SLIDING SENSOR CIRCUIT

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

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

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

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

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to SE-248, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK SLIDING SENSOR POWER SUPPLY

Check voltage between sliding sensor harness connector and ground.

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

Is the inspection result normal?

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

4.CHECK SLIDING SENSOR POWER SUPPLY CIRCUIT

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

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

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

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

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to SE-248, "Removal and Installation".
NO >> Repair or replace harness.

5.CHECK SLIDING SENSOR GROUND CIRCUIT

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

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

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

Driver seat control unit		Ground	Continuity
Connector	Terminal		
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.
2. Check continuity between driver seat control unit harness connector and ground.

Driver seat control unit		Ground	Continuity
Connector	Terminal		
B503	31		Existed

Is the inspection result normal?

YES >> Replace sliding sensor. Refer to SE-223, "Exploded View".
NO >> Replace driver seat control unit. Refer to SE-248, "Removal and Installation".

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000004746906

- 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

INFOID:0000000004746907

1.CHECK FUNCTION

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

Is the indication normal?

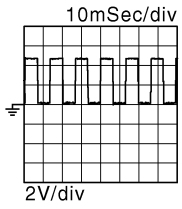
YES >> Sliding sensor function is OK.
NO >> Refer to SE-89, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000004746908

1.CHECK SLIDING SENSOR SIGNAL

1. Turn ignition switch OFF.
2. Check signal between passenger seat control unit harness connector and ground with oscilloscope.

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

Is the inspection result normal?

YES >> Sliding sensor function is OK.

NO >> GO TO 2.

2.CHECK SLIDING SENSOR CIRCUIT

1. Disconnect passenger seat control unit connector and sliding sensor connector.
2. 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	
B552	24	B568	24	Existed

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

Passenger seat control unit		Ground	Continuity
Connector	Terminal		
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.
2. 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	
B552	16	B568	16	Existed

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

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

Is the inspection result normal?

YES >> Replace passenger seat control unit. Refer to SE-249, "Removal and Installation".
NO >> Repair or replace harness.

5.CHECK SLIDING SENSOR GROUND CIRCUIT

1. Disconnect passenger seat control unit connector.
2. 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	
B552	31	B568	31	Existed

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

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

Is the inspection result normal?

YES >> Replace sliding sensor. Refer to SE-223, "Exploded View".
NO >> Replace passenger seat control unit. Refer to SE-249, "Removal and Installation".

SLIDING MOTOR
DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000004746909

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

DRIVER SIDE : Component Function Check

INFOID:0000000004746910

1.CHECK FUNCTION

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

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

Is the operation of relevant parts normal?

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

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000004746911

1.CHECK SLIDING MOTOR POWER SUPPLY

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

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

Is the inspection result normal?

YES >> Replace sliding motor.
NO >> GO TO 2.

2.CHECK SLIDING MOTOR CIRCUIT

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

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

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

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

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to SE-248, "Removal and Installation".
NO >> Repair or replace harness.

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000004746913

- 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

INFOID:0000000004746914

1.CHECK SLIDING MOTOR CIRCUIT

Check sliding operation with power seat switch.

Is the inspection result normal?

YES >> Sliding motor function is OK.
NO >> Refer to SE-93, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000004746915

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.

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

Is the inspection result normal?

YES >> Replace sliding motor.
NO >> GO TO 2.

2.CHECK SLIDING MOTOR CIRCUIT

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

Sliding motor		Passenger seat control unit		Continuity
Connector	Terminal	Connector	Terminal	
B567	35	B553	35	Existed
	42		42	

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

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

Is the inspection result normal?

YES >> Replace passenger seat control unit. Refer to SE-249, "Removal and Installation".
NO >> Repair or replace harness.

RECLINING MOTOR
DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000004746917

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

DRIVER SIDE : Component Function Check

INFOID:0000000004746918

1.CHECK RECLINING MOTOR FUNCTION

Check reclining operation with power seat switch.

Is the inspection result normal?

YES >> Reclining motor function is OK.
NO >> Refer to SE-95, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000004746919

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.

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

Is the inspection result normal?

YES >> Replace reclining motor.
NO >> GO TO 2.

2.CHECK RECLINING MOTOR CIRCUIT

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

Reclining motor		Driver seat control unit		Continuity
Connector	Terminal	Connector	Terminal	
B524	36	B504	36	Existed
	44		44	

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

Reclining motor		Ground	Continuity
Connector	Terminal		
B524	36		Not existed
	44		

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to SE-248, "Removal and Installation".
NO >> Repair or replace harness.

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000004746921

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

PASSENGER SIDE : Component Function Check

INFOID:0000000004746922

1.CHECK RECLINING MOTOR FUNCTION

Check reclining operation with power seat switch.

Is the inspection result normal?

YES >> Reclining motor function is OK.
NO >> Refer to SE-96, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000004746923

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.

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

Is the inspection result normal?

YES >> Replace reclining motor.
NO >> GO TO 2.

2.CHECK RECLINING MOTOR CIRCUIT

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

Reclining motor		Passenger seat control unit		Continuity
Connector	Terminal	Connector	Terminal	
B566	36	B553	36	Existed
	44		44	

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

Reclining motor		Ground	Continuity
Connector	Terminal		
B566	36		Not existed
	44		

Is the inspection result normal?

YES >> Replace passenger seat control unit. Refer to SE-249, "Removal and Installation".
NO >> Repair or replace harness.

LIFTING MOTOR (FRONT)
DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000004746925

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

DRIVER SIDE : Component Function Check

INFOID:0000000004746926

1.CHECK LIFTING MOTOR (FRONT) FUNCTION

Check lifting operation with power seat switch.

Is the inspection result normal?

YES >> Lifting motor (front) function is OK.
NO >> Refer to SE-97, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000004746927

1.CHECK LIFTING MOTOR (FRONT) POWER SUPPLY

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

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

Is the inspection result normal?

YES >> Replace lifting motor (front).
NO >> GO TO 2.

2.CHECK LIFTING MOTOR (FRONT) CIRCUIT

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

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

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

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

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to SE-248, "Removal and Installation".
NO >> Repair or replace harness.

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000004746929

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

PASSENGER SIDE : Component Function Check

INFOID:0000000004746930

1.CHECK LIFTING MOTOR (FRONT) FUNCTION

Check lifting operation with power seat switch.

Is the inspection result normal?

YES >> Lifting motor (front) function is OK.
NO >> Refer to SE-98, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000004746931

1.CHECK LIFTING MOTOR (FRONT) POWER SUPPLY

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

(+)		(–)	Condition		Voltage (V) (Approx.)
Lifting motor (front)					
Connector	Terminal				
B569	37	Ground	Lifting switch (front)	Downward	Battery voltage
				Other than above	0
	45			Upward	Battery voltage
				Other than above	0

Is the inspection result normal?

YES >> Replace lifting motor (front).
NO >> GO TO 2.

2.CHECK LIFTING MOTOR (FRONT) CIRCUIT

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

Lifting motor (front)		Passenger seat control unit		Continuity
Connector	Terminal	Connector	Terminal	
B569	37	B553	37	Existed
	45		45	

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

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

Is the inspection result normal?

YES >> Replace passenger seat control unit. Refer to SE-249, "Removal and Installation".
NO >> Repair or replace harness.

LIFTING MOTOR (REAR)
DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000004746933

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

DRIVER SIDE : Component Function Check

INFOID:0000000004746934

1.CHECK LIFTING MOTOR (REAR) FUNCTION

Check lifting operation with power seat switch.

Is the inspection result normal?

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

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000004746935

1.CHECK LIFTING MOTOR (REAR) POWER SUPPLY

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

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

Is the inspection result normal?

YES >> Replace lifting motor (rear).
NO >> GO TO 2.

2.CHECK LIFTING MOTOR (REAR) CIRCUIT

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

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

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

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

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to SE-248, "Removal and Installation".
NO >> Repair or replace harness.

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000004746937

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

PASSENGER SIDE : Component Function Check

INFOID:0000000004746938

1.CHECK LIFTING MOTOR (REAR) FUNCTION

Check lifting operation with power seat switch.

Is the inspection result normal?

YES >> Lifting motor (rear) function is OK.
NO >> Refer to SE-100, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000004746939

1.CHECK LIFTING MOTOR (REAR) POWER SUPPLY

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

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

Is the inspection result normal?

YES >> Replace lifting motor (rear).
NO >> GO TO 2.

2.CHECK LIFTING MOTOR (REAR) CIRCUIT

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

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

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

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

Is the inspection result normal?

YES >> Replace passenger seat control unit. Refer to SE-249, "Removal and Installation".
NO >> Repair or replace harness.

HEATED SEAT SWITCH
DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000004746941

Adjusts heated seat temperature and deactivates heated seat.

DRIVER SIDE : Component Function Check

INFOID:0000000004746942

1.CHECK FUNCTION

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

Is the inspection result normal?

YES >> Heated seat switch function is OK.
NO >> Refer to SE-101, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000004746943

1.CHECK HEATED SEAT CONTROL UNIT INPUT SIGNAL

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.

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

Is the inspection result normal?

YES >> Heated seat switch circuit is OK.
NO >> GO TO 2.

2.CHECK HEATED SEAT SWITCH CIRCUIT

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

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

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

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

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness.

3.CHECK HEATED SEAT SWITCH

Check heated seat switch.
Refer to SE-102, "DRIVER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace heated seat switch. Refer to SE-256, "Removal and Installation".

4.CHECK INTERMITTENT INCIDENT

Check intermittent incident.
Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

DRIVER SIDE : Component Inspection

INFOID:0000000004746944

1.CHECK FRONT HEATED SEAT SWITCH

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

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

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace heated seat switch. Refer to SE-256, "Removal and Installation".

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000004746945

Adjusts heated seat temperature and deactivates heated seat.

PASSENGER SIDE : Component Function Check

INFOID:0000000004746946

1.CHECK FUNCTION

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

Is the inspection result normal?

YES >> Heated seat switch function is OK.
NO >> Refer to SE-103, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000004746947

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.

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

Is the inspection result normal?

YES >> Heated seat switch circuit is OK.
NO >> GO TO 2.

2. CHECK HEATED SEAT SWITCH CIRCUIT

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

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

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness.

3. CHECK HEATED SEAT SWITCH

Check heated seat switch.
Refer to SE-104, "PASSENGER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace heated seat switch. Refer to SE-256, "Removal and Installation".

4. CHECK INTERMITTENT INCIDENT

Check intermittent incident.
Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:0000000004746948

1. CHECK FRONT HEATED SEAT SWITCH

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

Heated seat switch			Condition		Resistance (KΩ) (Approx.)
Connector	Terminal				
A/T models: M142 M/T models: M176	5	1	Heated seat switch position	ON	0
				OFF	∞
		2		1 (Min. temperature)	2.400
				2	1.800
				3	1.200
				4	0.910
				5	0.620
				6 (Max. temperature)	0.348

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace heated seat switch. Refer to SE-256, "Removal and Installation".

HEATED SEAT RELAY

Description

INFOID:0000000004746949

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

Component Function Check

INFOID:0000000004746950

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 SE-105, "Diagnosis Procedure"

Diagnosis Procedure

INFOID:0000000004746951

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) (Approx.)
Heated seat relay			
Connector	Terminal		
E19	2	Ground	Battery voltage

Is the inspection result normal?

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

2.CHECK HEATED SEAT RELAY POWER SUPPLY CIRCUIT

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

Heated seat relay		Fuse block (J/B)		Continuity
Connector	Terminal	Connector	Terminal	
E19	2	M1	2A	Existed

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

Heated seat relay		Ground	Continuity
Connector	Terminal		
E19	2		Not existed

Is the inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace harness.

3.CHECK HEATED SEAT RELAY GROUND CIRCUIT

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

Heated seat relay		Ground	Continuity
Connector	Terminal		
E19	1		Existed

Is the inspection result normal?

YES >> GO TO 4.
NO >> Repair or replace harness.

4.CHECK HEATED SEAT RELAY

Check heated seat relay.
Refer to SE-106, "Component Inspection".

Is the inspection result normal?

YES >> Heated seat relay circuit is OK.
NO >> Replace heated seat relay.

5.CHECK INTERMITTENT INCIDENT

Check intermittent incident.
Refer to GI-36, "Intermittent Incident"

>> INSPECTION END

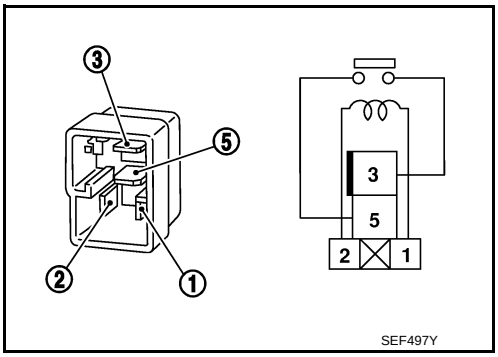
Component Inspection

INFOID:0000000004746952

1.CHECK HEATED SEAT RELAY

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

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



Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace heated seat relay.

HEAT SENSOR

DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000004746953

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

DRIVER SIDE : Component Function Check

INFOID:0000000004746954

1.CHECK FUNCTION

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

Is the inspection result normal?

YES >> Heat sensor function is OK.
NO >> Refer to SE-107, "DRIVER SIDE : Diagnosis Procedure"

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000004746955

1.CHECK HEAT SENSOR INPUT SIGNAL

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

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

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

Is the inspection result normal?

YES >> heat sensor is OK.
NO >> GO TO 2.

2.CHECK HEAT SENSOR CIRCUIT

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

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

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

Heated seat control unit		Ground	Continuity
Connector	Terminal		
B518	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.

(+)		(–)	Voltage (V) (Approx.)
Seat cushion heater			
Connector	Terminal		
B517	66	Ground	Battery voltage

Is the inspection result normal?

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

4.CHECK HEAT SENSOR POWER SUPPLY CIRCUIT

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

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

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

Heated seat control unit		Ground	Continuity
Connector	Terminal		
B518	66		Not existed

Is the inspection result normal?

YES >> GO TO 6.
NO >> Repair or replace harness.

5.CHECK HEAT SENSOR

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

Is the inspection result normal?

YES >> GO TO 6.
NO >> Replace seat cushion heater. Refer to SE-234, "Removal and Installation".

6.CHECK INTERMITTENT INCIDENT

Check intermittent incident.
Refer to GI-36, "Intermittent Incident"

>> INSPECTION END

DRIVER SIDE : Component Inspection

INFOID:0000000004746956

1.CHECK HEAT SENSOR

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

Seat cushion heater		Condition	Resistance (KΩ) (Approx.)
Terminal			
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 SE-223, "Exploded View".

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000004746957

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

PASSENGER SIDE : Component Function Check

INFOID:0000000004746958

1.CHECK FUNCTION

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

Is the inspection result normal?

YES >> Heat sensor function is OK.
NO >> Refer to SE-109, "PASSENGER SIDE : Diagnosis Procedure"

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000004746959

1.CHECK HEAT SENSOR INPUT SIGNAL

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

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

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

Is the inspection result normal?

YES >> heat sensor is OK.
NO >> GO TO 2.

2.CHECK HEAT SENSOR CIRCUIT

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

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

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

Heated seat control unit		Ground	Continuity
Connector	Terminal		
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.

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

Is the inspection result normal?

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

4.CHECK HEAT SENSOR POWER SUPPLY CIRCUIT

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

Heated seat control unit		Seat cushion heater		Continuity
Connector	Terminal	Connector	Terminal	
B575	66	B574	66	Existed

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

Heated seat control unit		Ground	Continuity
Connector	Terminal		
B575	66		Not existed

Is the inspection result normal?

YES >> GO TO 6.
NO >> Repair or replace harness.

5.CHECK HEAT SENSOR

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

Is the inspection result normal?

YES >> GO TO 6.
NO >> Replace seat cushion heater. Refer to SE-223, "Exploded View".

6.CHECK INTERMITTENT INCIDENT

Check intermittent incident.
Refer to GI-36, "Intermittent Incident"

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:0000000004746960

1.CHECK HEAT SENSOR

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

Seat cushion heater		Condition	Resistance (KΩ) (Approx.)
Terminal			
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 SE-223, "Exploded View".

SEAT CUSHION HEATER
DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000004746961

Warms the seat cushion.

DRIVER SIDE : Component Function Check

INFOID:0000000004746962

1.CHECK FUNCTION

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

Is the inspection result normal?

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

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000004746963

1.CHECK SEAT CUSHION HEATER INPUT SIGNAL

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

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

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

Is the inspection result normal?

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

2.CHECK SEAT CUSHION HEATER CIRCUIT

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

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

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

Seat cushion heater		Ground	Continuity
Connector	Terminal		
B517	68		Not existed

Is the inspection result normal?

YES >> Replace heated seat control unit. Refer to SE-250, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK SEAT CUSHION HEATER

Check seat cushion heater.
Refer to SE-113, "DRIVER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace seat cushion heater. Refer to SE-223, "Exploded View".

4. CHECK SEAT CUSHION HEATER GROUND CIRCUIT

Check continuity between seat cushion heater harness connector and ground.

Seat cushion heater		Ground	Continuity
Connector	Terminal		
B517	48		Existed

Is the inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace harness.

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident.
Refer to GI-36, "Intermittent Incident"

>> INSPECTION END

DRIVER SIDE : Component Inspection

INFOID:0000000004746964

1. CHECK SEAT CUSHION HEATER

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

Seat cushion heater		Condition	Resistance (Ω) (Approx.)
Terminal			
48	68	When heat sensor temperature is 20°C (68°F)	2.6 – 3.0

NOTE:
Resistance value changes according to temperature.

Is the inspection result normal?

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

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000004746965

Warms the seat cushion.

PASSENGER SIDE : Component Function Check

INFOID:0000000004746966

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-113, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000004746967

1. CHECK FRONT SEAT CUSHION HEATER INPUT SIGNAL

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

(+)		(–)	Condition		Voltage (V) (Approx.)
Seat cushion heater					
Connector	Terminal				
B574	68	Ground	Heated seat	Operates	0 – Battery voltage
				Other than above	0

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

Is the inspection result normal?

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

2.CHECK SEAT CUSHION HEATER CIRCUIT

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

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

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

Seat cushion heater		Ground	Continuity
Connector	Terminal		
B574	68		Not existed

Is the inspection result normal?

YES >> Replace heated seat control unit. Refer to SE-250, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK SEAT CUSHION HEATER

Check seat cushion heater.
Refer to SE-115, "PASSENGER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace seat cushion heater. Refer to SE-223, "Exploded View".

4.CHECK SEAT CUSHION HEATER GROUND CIRCUIT

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

Seat cushion heater		Ground	Continuity
Connector	Terminal		
B574	48		Existed

Is the inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace harness.

5.CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-36, "Intermittent Incident"

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:0000000004746968

1.CHECK SEAT CUSHION HEATER

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

Seat cushion heater		Condition	Resistance (Ω) (Approx.)
Terminal			
48	68	When heat sensor temperature is 20°C (68°F)	2.6 – 3.0

NOTE:
Resistance value changes according to temperature.

Is the inspection result normal?

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

SEATBACK HEATER

DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000004746969

Warms the seat cushion.

DRIVER SIDE : Component Function Check

INFOID:0000000004746970

1.CHECK FUNCTION

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

Is the inspection result normal?

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

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000004746971

1.CHECK SEATBACK HEATER

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

Seatback heater			Condition	Resistance (Ω) (Approx.)
Connector	Terminal			
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 SE-223, "Exploded View".
NO >> Replace seatback heater. Refer to SE-223, "Exploded View".

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000004746972

Warms the seat cushion.

PASSENGER SIDE : Component Function Check

INFOID:0000000004746973

1.CHECK FUNCTION

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

Is the inspection result normal?

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

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000004746974

1.CHECK SEATBACK HEATER

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

Seatback heater			Condition	Resistance (Ω) (Approx.)
Connector	Terminal			
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 SE-223, "Exploded View".
NO >> Replace seatback heater. Refer to SE-223, "Exploded View".

HEATED SEAT SWITCH INDICATOR

DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000004746975

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

DRIVER SIDE : Component Function Check

INFOID:0000000004746976

1.CHECK FUNCTION

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

Is the inspection result normal?

YES >> Heated seat switch indicator function is OK.
NO >> Refer to SE-118, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000004746977

1.CHECK HEATED SEAT SWITCH INDICATOR GROUND CIRCUIT

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

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

Is the inspection result normal?

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

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000004746978

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

PASSENGER SIDE : Component Function Check

INFOID:0000000004746979

1.CHECK FUNCTION

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

Is the inspection result normal?

YES >> Heated seat switch indicator function is OK.
NO >> Refer to SE-118, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000004746980

1.CHECK HEATED SEAT SWITCH INDICATOR GROUND CIRCUIT

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

Heated seat switch		Ground	Continuity
Connector	Terminal		
A/T models: M142 M/T models: M176	6		Existed

Is the inspection result normal?

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

CLIMATE CONTROLLED SEAT SWITCH

Description

INFOID:0000000004747453

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

Component Function Check

INFOID:0000000004747454

1.CHECK FUNCTION

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

Is the inspection result normal?

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

Diagnosis Procedure

INFOID:0000000004747455

1.CHECK CLIMATE CONTROLLED SEAT CONTROL UNIT INPUT SIGNAL

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

(+)			(–)	Condition		Voltage (V) (Approx.)
Climate controlled seat control unit						
Connector		Terminal				
Driver side	B607	92	Ground	Climate controlled seat switch	LO COOL	0.8 - 1.5
					MID COOL	1.6 - 2.5
					HI COOL	2.6 - 4.2
					OFF	0
		91		Climate controlled seat switch	LO HEAT	0.8 - 1.5
					MID HEAT	1.6 - 2.5
					HI HEAT	2.6 - 4.2
					OFF	0
Passenger side	B627	92		Climate controlled seat switch	LO COOL	0.8 - 1.5
					MID COOL	1.6 - 2.5
					HI COOL	2.6 - 4.2
					OFF	0
		91		Climate controlled seat switch	LO HEAT	0.8 - 1.5
					MID HEAT	1.6 - 2.5
					HI HEAT	2.6 - 4.2
					OFF	0

Is the inspection result normal?

YES >> Climate controlled seat switch circuit is OK.
NO-1 >> HEAT or COOL mode is NG :GO TO 2.
NO-2 >> HEAT and COOL modes are NG : GO TO 3.

2.CHECK CLIMATE CONTROLLED SEAT SWITCH CIRCUIT

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

Climate controlled seat switch				Climate cotrolled seat control unit		Continuity
Connector			Terminal	Connector	Terminal	
Driver side	COOL	M177	2	B607	92	Existed
	HEAT		3		91	
Passenger side	COOL	M178	2	B627	92	
	HEAT		3		91	

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

Climate controlled seat switch				Ground	Continuity
Connector			Terminal		
Driver side	COOL	M177	2	Ground	Not existed
	HEAT		3		
Passenger side	COOL	M178	2		
	HEAT		3		

Is the inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace harness.

3. CHECK CLIMATE CONTROLLED SEAT SWITCH POWER SUPPLY

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

(+)			(–)	Voltage (V) (Approx.)
Climate controlled seat switch				
Connector		Terminal		
Driver side	M177	1	Ground	Battery voltage
Passenger side	M178	1		

Is the inspection result normal?

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

4. CHECK CLIMATE CONTROLLED SEAT SWITCH POWER SUPPLY CIRCUIT

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

Climate controlled seat switch			Climate cotrolled seat control unit		Continuity
Connector		Terminal	Connector	Terminal	
Driver side	M177	1	B607	94	Existed
Passenger side	M178	1	B627	94	

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

Climate controlled seat switch			Ground	Continuity
Connector		Terminal		
Driver side	M177	1	Ground	Not existed
Passenger side	M178	1		

Is the inspection result normal?

YES >> Replace climate controlled seat control unit. Refer to SE-235, "Disassembly and Assembly".
NO >> Repair or replace harness.

5.CHECK CLIMATE CONTROLLED SEAT SWITCH

Check climate controlled seat switch.
Refer toSE-122, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 6.
NO >> Replace climate controlled seat switch. Refer to SE-257, "Removal and Installation".

6.CHECK INTERMITTENT INCIDENT

Refer to GI-36, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000004747456

1.CHECK CLIMATE CONTROLLED SEAT SWITCH

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

Climate controlled seat switch		Terminal		Condition			Continuity
Driver side	M177	2	1	Climate controlled seat switch	COOL mode	ON	Existed
						OFF	Not existed
		3			HEAT mode	ON	Existed
						OFF	Not existed
Passenger side	M178	2	1	Climate controlled seat switch	COOL mode	ON	Existed
						OFF	Not existed
		3			HEAT mode	ON	Existed
						OFF	Not existed

Is the inspection result normal?

YES >> Climate controlled seat switch is OK.
NO >> Replace climate controlled seat switch. Refer to SE-257, "Removal and Installation".

SEATBACK THERMAL ELECTRIC DEVICE

Description

INFOID:0000000004747457

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

Component Function Check

INFOID:0000000004747458

1.CHECK FUNCTION

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

Is the inspection result normal?

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

Diagnosis Procedure

INFOID:0000000004747459

1.CHECK SEATBACK THERMAL ELECTRIC DEVICE SIGNAL

1. Turn ignition switch ON.
2. Check voltage between seatback thermal electric device harness connector and ground.

(+)			(–)	Condition		Voltage (V) (Approx.)
Seatback thermal electric device						
Connector		Terminal				
Driver side	B602	88	Ground	Climate controlled seat switch	HEAT and COOL	0 - battery voltage*
					Other than above	0
		85			HEAT and COOL	0 - battery voltage*
					Other than above	0
Passenger side	B622	88		Climate controlled seat switch	HEAT and COOL	0 - battery voltage*
					Other than above	0
		85			HEAT and COOL	0 - battery voltage*
					Other than above	0

*:It changes between battery voitage or 0V

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

Is the inspection result normal?

YES >> Replace seatback thermal electric device.
NO >> GO TO 2.

2.CHECK SEATBACK THERMAL ELECTRIC DEVICE CIRCUIT

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

Climate controlled seat control unit			Seatback thermal electric device		Continuity
Connector		Terminal	Connector	Terminal	
Driver side	B606	88	B602	88	Existed
		85		85	
Passenger side	B626	88	B622	88	
		85		85	

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

Climate controlled seat control unit			Ground	Continuity
Connector		Terminal		
Driver side	B606	88		Not existed
		85		
Passenger side	B626	88		
		85		

Is the inspection result normal?

YES >> Replace climate controlled seat control unit. Refer to SE-235, "Disassembly and Assembly".
NO >> Repair or replace harness.

SEATBACK THERMAL ELECTRIC DEVICE SENSOR

Description

INFOID:0000000004747460

Measures seatback temperature.

Diagnosis Procedure

INFOID:0000000004747461

1.CHECK SEATBACK THERMAL ELECTRIC DEVICE SENSOR CIRCUIT

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

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

Is the inspection result normal?

YES >> Seatback thermal electric device sensor circuit is OK.
NO >> GO TO 2.

2.CHECK SEATBACK THERMAL ELECTRIC DEVICE SENSOR HARNESS

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

Climate controlled seat control unit			Seatback thermal electric device		Continuity
Connector		Terminal	Connector	Terminal	
Driver side	B608	105	B602	105	Existed
		104		104	
Passenger side	B628	105	B622	105	
		104		104	

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

Climate controlled seat control unit				Continuity
Connector		Terminal		
Driver side	B608	105	Ground	Not existed
		104		
Passenger side	B628	105		
		104		

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness.

3.CHECK SEATBACK THERMAL ELECTRIC DEVICE SENSOR

Check resistance between seatback thermal electric device connector.

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

Is the inspection result normal?

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

SEAT CUSHION THERMAL ELECTRIC DEVICE

Description

INFOID:0000000004747462

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

Component Function Check

INFOID:0000000004747463

1.CHECK FUNCTION

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

Is the inspection result normal?

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

Diagnosis Procedure

INFOID:0000000004747464

1.CHECK SEAT CUSHION THERMAL ELECTRIC DEVICE SIGNAL

1. Turn ignition switch ON.
2. Check voltage between seat cushion thermal electric device harness connector and ground.

(+)			(–)	Condition		Voltage (V) (Approx.)
Seat cushion thermal electric device						
Connector		Terminal				
Driver side	B603	87	Ground	Climate controlled seat switch	HEAT and COOL	0 - battery voltage*
					Other than above	0
		86			HEAT and COOL	0 - battery voltage*
					Other than above	0
Passenger side	B623	87		Climate controlled seat switch	HEAT and COOL	0 - battery voltage*
					Other than above	0
		86			HEAT and COOL	0 - battery voltage*
					Other than above	0

*:It changes between battery voitage or 0V

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

Is the inspection result normal?

YES >> Replace seat cushion thermal electric device.
NO >> GO TO 2.

2.CHECK SEAT CUSHION THERMAL ELECTRIC DEVICE CIRCUIT

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

Climate controlled seat control unit			Seat cushion thermal electric device		Continuity
Connector		Terminal	Connector	Terminal	
Driver side	B606	87	B603	87	Existed
		86		86	
Passenger side	B626	87	B623	87	
		86		86	

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

Climate controlled seat control unit			Ground	Continuity
Connector		Terminal		
Driver side	B606	87	Ground	Not existed
		86		
Passenger side	B626	87		
		86		

Is the inspection result normal?

YES >> Replace climate controlled seat control unit. Refer to SE-235, "Disassembly and Assembly".
NO >> Repair or replace harness.

SEAT CUSHION THERMAL ELECTRIC DEVICE SENSOR

Description

INFOID:0000000004747465

Measures seat cushion temperature.

Diagnosis Procedure

INFOID:0000000004747466

1.CHECK SEAT CUSHION THERMAL ELECTRIC DEVICE SENSOR CIRCUIT

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

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

Is the inspection result normal?

YES >> Seat cushion thermal electric device sensor circuit is OK.
NO >> GO TO 2.

2.CHECK SEAT CUSHION THERMAL ELECTRIC DEVICE SENSOR HARNESS

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

Climate controlled seat control unit			Seat cushion thermal electric device		Continuity
Connector		Terminal	Connector	Terminal	
Driver side	B608	103	B603	103	Existed
		102		102	
Passenger side	B628	103	B623	103	
		102		102	

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

Climate controlled seat control unit				Continuity
Connector		Terminal	Ground	
Driver side	B608	103		Not existed
		102		
Passenger side	B628	103		
		102		

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness.

3.CHECK SEAT CUSHION THERMAL ELECTRIC DEVICE SENSOR

Check resistance between seat cushion thermal electric device connector.

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

Is the inspection result normal?

YES >> Replace climate controlled seat control unit. Refer to SE-234, "Removal and Installation".
NO >> Replace seat cushion thermal electric device.

CLIMATE CONTROLLED SEATBACK BLOWER MOTOR

Description

INFOID:0000000005106257

Sends air flow to the seatback.

Component Function Check

INFOID:0000000005106258

1.CHECK FUNCTION

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

Is the inspection result normal?

YES >> Climate controlled seatback blower motor is OK.
NO >> Refer to SE-134, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000005106259

1.CHECK CLIMATE CONTROLLED SEATBACK BLOWER MOTOR POWER SUPPLY

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

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

Is the inspection result normal?

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

2.CHECK CLIMATE CONTROLLED BLOWER MOTOR POWER SUPPLY CIRCUIT

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

Climate controlled seatback blower motor			Climate controlled seat control unit		Continuity
Connector		Terminal	Connector	Terminal	
Driver side	B604	99	B608	99	Existed
Passenger side	B624		B628		

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

Climate controlled seatback blower motor			Ground	Continuity
Connector		Terminal		
Driver side	B604	99		Not existed
Passenger side	B624			

Is the inspection result normal?

YES >> Replace climate controlled seat control unit. Refer to SE-235, "Disassembly and Assembly".
NO >> Repair or replace harness.

3.CHECK CLIMATE CONTROLLED SEATBACK BLOWER MOTOR SPEED CONTROL SIGNAL

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

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

Is the inspection result normal?

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

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

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

Climate controlled seatback blower motor			Climate controlled seat control unit		Continuity
Connector		Terminal	Connector	Terminal	
Driver side	B604	96	B608	96	Existed
Passenger side	B624		B628		

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

Climate controlled seatback blower motor			Ground	Continuity
Connector		Terminal		
Driver side	B604	96		Not existed
Passenger side	B624			

Is the inspection result normal?

YES >> Replace climate controlled seat control unit. Refer to SE-235, "Disassembly and Assembly".
NO >> Repair or replace harness.

5.CHECK CLIMATE CONTROLLED SEATBACK BLOWER MOTOR GROUND CIRCUIT

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

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

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

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

Is the inspection result normal?

YES >> GO TO 6.
NO >> Repair or replace harness.

6. CHECK CLIMATE CONTROLLED SEATBACK BLOWER MOTOR GROUND

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

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

Is the inspection result normal?

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

CLIMATE CONTROLLED SEAT CUSHION BLOWER MOTOR

Description

INFOID:0000000005106260

Sends air flow to the seat cushion.

Component Function Check

INFOID:0000000005106261

1.CHECK FUNCTION

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

Is the inspection result normal?

YES >> Climate controlled seat cushion blower motor is OK.
NO >> Refer to SE-134, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000005106262

1.CHECK CLIMATE CONTROLLED SEAT CUSHION BLOWER MOTOR POWER SUPPLY

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

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

Is the inspection result normal?

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

2.CHECK CLIMATE CONTROLLED BLOWER MOTOR POWER SUPPLY CIRCUIT

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

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

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

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

Is the inspection result normal?

YES >> Replace climate controlled seat control unit. Refer to SE-235, "Disassembly and Assembly".
NO >> Repair or replace harness.

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

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

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

Is the inspection result normal?

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

4.CHECK CLIMATE CONTROLLED SEAT CUSHION BLOWER MOTOR SPEED CONTROL SIGNAL CIRCUIT

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

Climate controlled seat cushion blower motor			Climate controlled seat control unit		Continuity
Connector		Terminal	Connector	Terminal	
Driver side	B605	97	B608	97	Existed
Passenger side	B625		B628		

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

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

Is the inspection result normal?

YES >> Replace climate controlled seat control unit. Refer to SE-235, "Disassembly and Assembly".
NO >> Repair or replace harness.

5.CHECK CLIMATE CONTROLLED SEAT CUSHION BLOWER MOTOR GROUND CIRCUIT

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

Climate controlled seat cushion blower motor			Climate controlled seat control unit		Continuity
Connector		Terminal	Connector	Terminal	
Driver side	B605	98	B608	98	Existed
Passenger side	B625		B628		

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

Climate controlled seat cushion blower motor			Ground	Continuity
Connector		Terminal		
Driver side	B605	98		Not existed
Passenger side	B625			

Is the inspection result normal?

YES >> GO TO 6.
NO >> Repair or replace harness.

6. CHECK CLIMATE CONTROLLED SEAT BLOWER MOTOR GROUND

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

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

Is the inspection result normal?

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

CLIMATE CONTROLLED SEAT SWITCH INDICATOR

Description

INFOID:0000000004747470

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

Component Function Check

INFOID:0000000004747471

1.CHECK FUNCTION

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

Is the inspection result normal?

YES >> Climate controlled seat switch indicator function is OK.
NO >> Refer toSE-137, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000004747472

1.CHECK CLIMATECONTROLLED SEAT SWITCH GROUND CIRCUIT

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

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

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness.

2.CHECK CLIMATE CONTROLLED SEAT CONTROL UNIT OUTPUT SIGNAL

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

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

Is the inspection result normal?

YES >> GO TO 3.
NO >> Replace climate controlled seat control unit. Refer to SE-235, "Disassembly and Assembly".

3.CHECK CLIMATE CONTROLLED SEAT SWITCH INDICATOR CIRCUIT

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

Climate controlled seat switch			Climate controlled seat control unit		Continuity
Connector		Terminal	Connector	Terminal	
Driver side	M177	4	B608	100	Existed
		5		95	
Passenger side	M178	4	B628	100	
		5		95	

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

Climate controlled seat switch			Ground	Continuity
Connector		Terminal		
Driver side	M177	4		Not existed
		5		
Passenger side	M178	4		
		5		

Is the inspection result normal?

YES >> Replace climate controlled seat switch. Refer to SE-257, "Removal and Installation".
NO >> Repair or replace harness.

CLIMATE CONTROLLED SEAT BLOWER FILTER

SEATBACK BLOWER MOTOR

SEATBACK BLOWER MOTOR : Diagnosis Procedure

INFOID:0000000004747474

1.CHECK CLIMATE CONTROLLED SEATBACK BLOWER FILTER

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

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace climate controlled seatback blower filter. Refer to SE-258, "SEATBACK : Removal and Installation".

SEAT CUSHION BLOWER MOTOR

SEAT CUSHION BLOWER MOTOR : Diagnosis Procedure

INFOID:0000000005107869

1.CHECK CLIMATE CONTROLLED SEAT CUSHION BLOWER FILTER

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

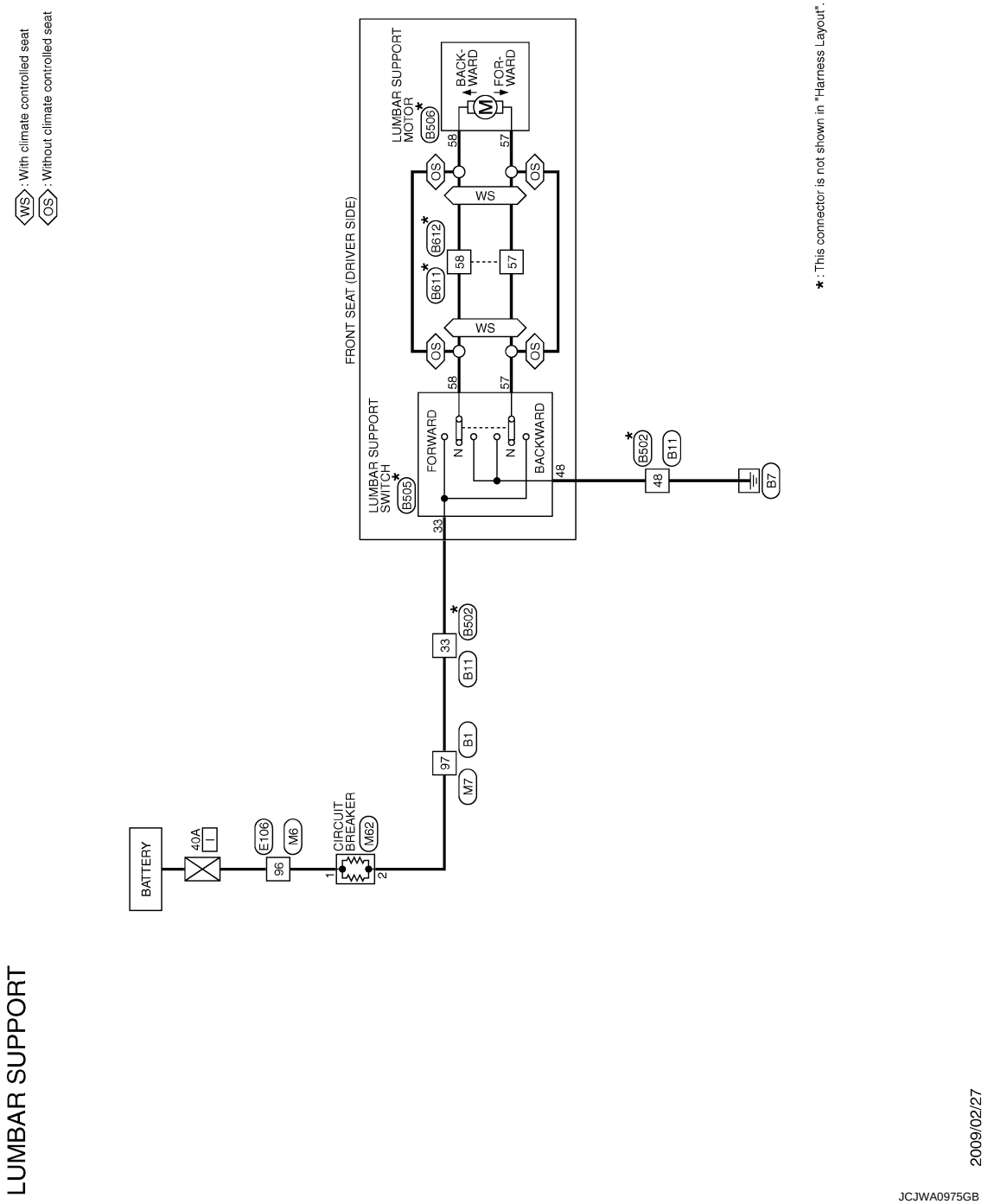
Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace climate controlled seat cushion blower filter. Refer to SE-258, "SEAT CUSHION : Removal and Installation".

LUMBAR SUPPORT

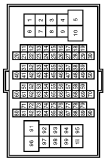
Wiring Diagram - LUMBAR SUPPORT -

INFOID:0000000004746981



LUMBAR SUPPORT

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
97	SB	–

Connector No.	B11
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
33	SB	–
48	B	–

Connector No.	B502
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
33	R	–
48	B	–

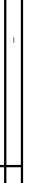
Connector No.	B505
Connector Name	LUMBAR SUPPORT SWITCH
Connector Type	NS04FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
33	R	–
48	B	–
57	W	–
58	L	–

Connector No.	B506
Connector Name	LUMBAR SUPPORT MOTOR
Connector Type	C02FW

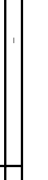
Terminal No.	Color of Wire	Signal Name [Specification]
57	W	–
58	L	–

Connector No.	B611
Connector Name	WIRE TO WIRE
Connector Type	NS12MBR-CS



Terminal No.	Color of Wire	Signal Name [Specification]
57	W	–
58	L	–

Connector No.	B612
Connector Name	WIRE TO WIRE
Connector Type	NS12FBR-CS



Terminal No.	Color of Wire	Signal Name [Specification]
57	W	–
58	L	–

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

Terminal No.	Color of Wire	Signal Name [Specification]
96	W	–

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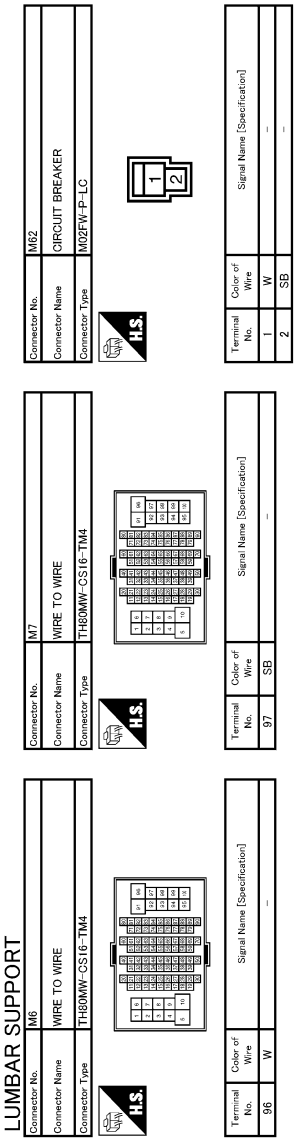

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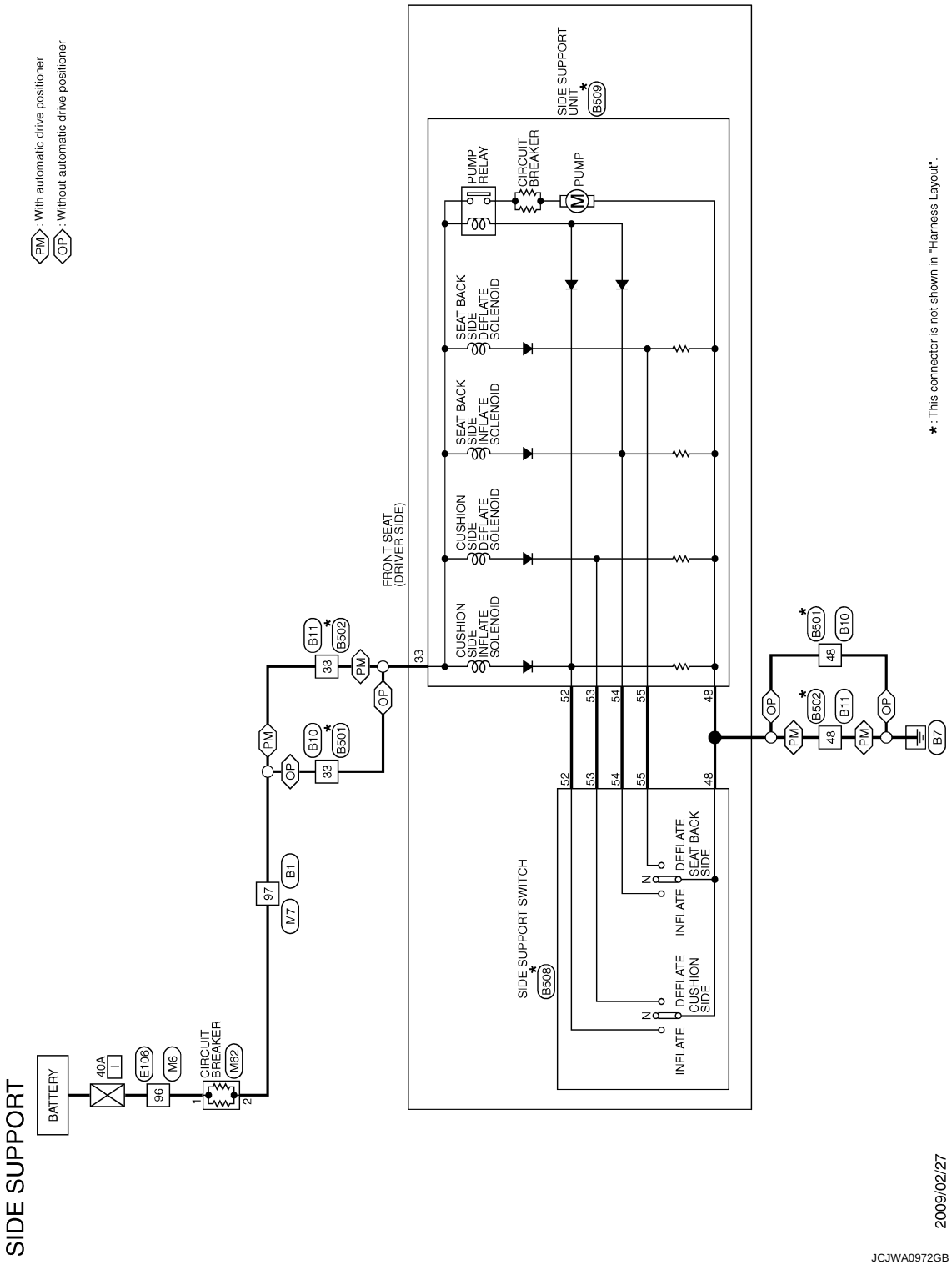
SIDE SUPPORT

Wiring Diagram - SIDE SUPPORT -

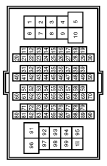
INFOID:0000000004746982



SIDE SUPPORT

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
97	SB	–

Connector No.	B10
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS

H.S.

66		5	33
60	48	19	3	32	67	40
---	---	---	---	---	---	---

Terminal No.	Color of Wire	Signal Name [Specification]
33	SB	–
48	B	–

Connector No.	B11
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS

H.S.

40	17		1	3	19
60	67	33	21	48	32	66	5
---	---	---	---	---	---	---	---

Terminal No.	Color of Wire	Signal Name [Specification]
33	SB	–
48	B	–

Connector No.	B501
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS

H.S.

33	5		66
40	67	32	3	19	48	60
---	---	---	---	---	---	---

Terminal No.	Color of Wire	Signal Name [Specification]
33	R	–
48	B	–

Connector No.	B502
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS

H.S.

19	3	1		17		40
5	66	32	48	21	33	67	60
---	---	---	---	---	---	---	---

Terminal No.	Color of Wire	Signal Name [Specification]
33	R	–
48	B	–

Connector No.	B508
Connector Name	SIDE SUPPORT SWITCH
Connector Type	NS06FW-CS

H.S.

55		54
53	52	48

Terminal No.	Color of Wire	Signal Name [Specification]
48	B	–
52	G	–
53	B/R	–
54	V/W	–
55	R/L	–

Connector No.	B509
Connector Name	SIDE SUPPORT UNIT
Connector Type	NS06FW-CS

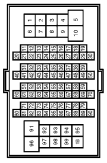
H.S.

55		54
33	53	52	48
---	---	---	---

Terminal No.	Color of Wire	Signal Name [Specification]
33	R	–
48	B	–
52	G	–
53	B/R	–
54	V/W	–
55	R/L	–

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

H.S.



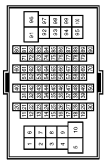
Terminal No.	Color of Wire	Signal Name [Specification]
96	W	–

JCJWA0973GB

SIDE SUPPORT

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

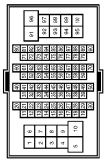
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
96	W	–

Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
97	SB	–

Connector No.	M62
Connector Name	CIRCUIT BREAKER
Connector Type	M02FW-P-LC

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	W	–
2	SB	–

JCJWA0974GB

ECU DIAGNOSIS INFORMATION

DRIVER SEAT CONTROL UNIT (WITHOUT AUTOMATIC DRIVE POSITIONER)

Reference Value

INFOID:0000000004746983

VALUES ON THE DIAGNOSIS TOOL

CONSULT-III MONITOR ITEM

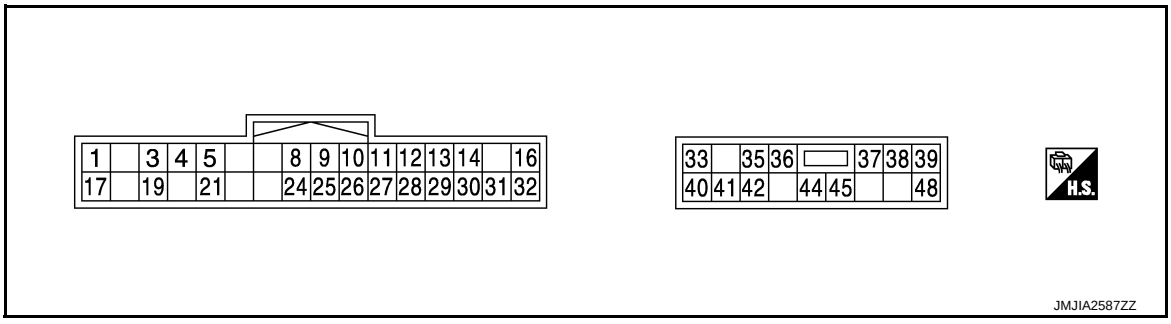
Monitor Item	Condition		Value/Status
SLIDE SW–FR	Sliding switch (front)	Operate	ON
		Release	OFF
SLIDE SW–RR	Sliding switch (rear)	Operate	ON
		Release	OFF
FORWARD SW	Seat back	Folded down	ON
		Other than above	OFF
WALK-IN SW	Power walk-in switch	Pressed	ON
		Other than above	OFF
FWD LIMIT SW	Seat sliding	Front edge	ON
		Other than above	OFF
SEAT BELT SW	Seat belt	Front edge	ON
		Other than above	OFF
DETENT SW*1	A/T selector lever	P position	OFF
		Other than above	ON
PARK BRAKE SW*2	Parking brake	Applied	ON
		Release	OFF
SLIDE PULSE	Seat sliding	Forward	The numeral value decreases *3
		Backward	The numeral value increases *3
		Other than above	No change to numeral value*3

*1: A/T model

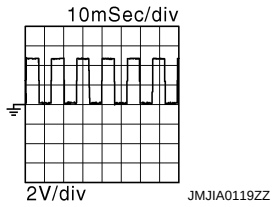
*2: M/T model

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

TERMINAL LAYOUT



PHYSICAL VALUES

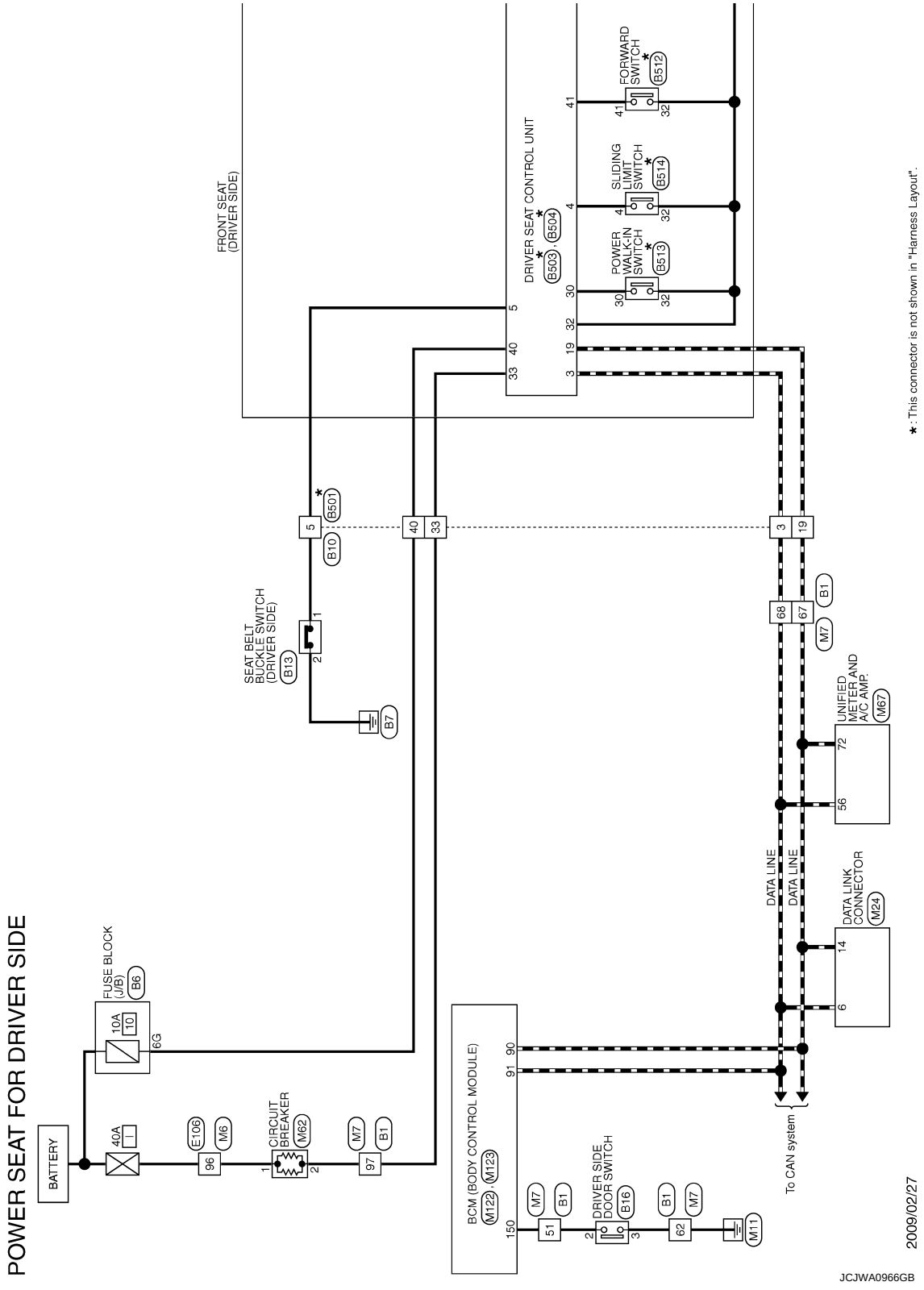
Terminal No. (Wire color)		Description		Condition		Voltage (V) (Approx.)
(+)	(–)	Signal name	Input/ Output			
3 (R/Y)	—	CAN-H	—	—		—
4 (O/B)	Ground	Sliding limit switch signal	Input	Seat sliding front edge		0
				Other than above*		5
5 (L)	Ground	Seat belt buckle switch signal (driver side)	Input	Ignition switch OFF and seat belt fastened*		5
				Ignition switch ON and seat belt released		Battery voltage
				Other than above		0
11 (BR)	Ground	Sliding switch backward signal	Input	Sliding switch	Operate (backward)	0
					Release	Battery voltage
12 (SB)	Ground	Reclining switch backward signal	Input	Reclining switch	Operate (backward)	0
					Release	Battery voltage
13 (LG/R)	Ground	Lifting switch (front) downward signal	Input	Lifting switch (front)	Operate (downward)	0
					Release	Battery voltage
14 (G/B)	Ground	Lifting switch (rear) downward signal	Input	Lifting switch (rear)	Operate (downward)	0
					Release	Battery voltage
16 (O)	Ground	Sensor power supply	Output	—		Battery voltage
19 (V)	—	CAN-L	—	—		—
24 (R)	Ground	Sliding sensor signal	Input	Seat sliding	Operate	
					Stop	0 or 5
26 (Y)	Ground	Sliding switch forward signal	Input	Sliding switch	Operate (forward)	0
					Release	Battery voltage
27 (R/G)	Ground	Reclining switch forward signal	Input	Reclining switch	Operate (forward)	0
					Release	Battery voltage
28 (W/B)	Ground	Lifting switch (front) upward signal	Input	Seat lifting switch (front)	Operate (upward)	0
					Release	Battery voltage
29 (P/L)	Ground	Lifting switch (rear) upward signal	Input	Seat lifting switch (rear)	Operate (upward)	0
					Release	Battery voltage

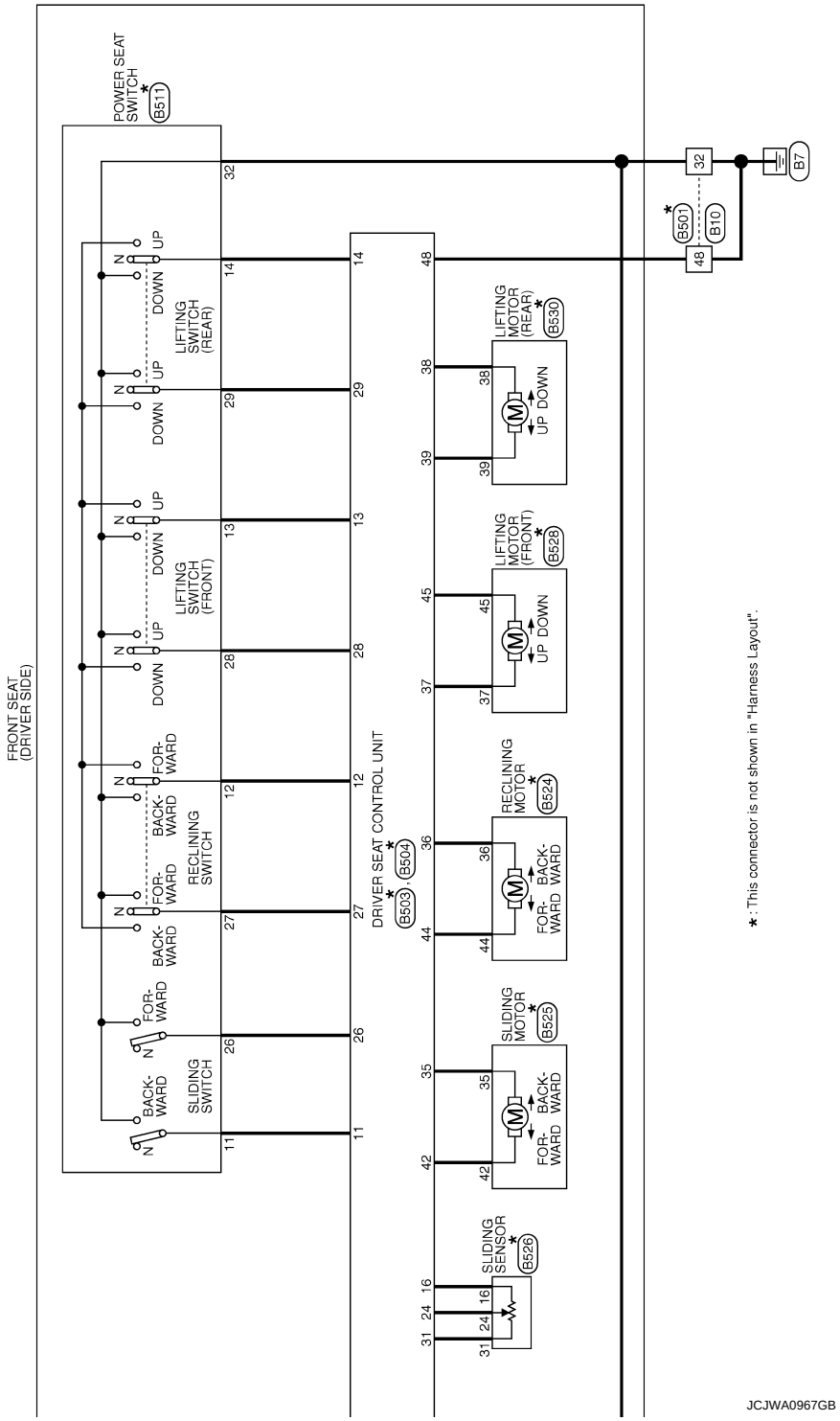
Terminal No. (Wire color)		Description		Condition		Voltage (V) (Approx.)
(+)	(–)	Signal name	Input/ Output			
30 (P)	Ground	Power walk-in switch signal	Input	Power walk-in switch	Pressed	0
					Other than above	Battery voltage
31 (GR)	Ground	Sensor ground	—	—		0
32 (B/W)	Ground	Ground (signal)	—	—		0
33 (R)	Ground	Power source (C/B)	Input	—		Battery voltage
35 (W/R)	Ground	Sliding motor forward output	Output	Seat sliding	Operate (forward)	Battery voltage
					Release	0
36 (G/Y)	Ground	Reclining motor forward output signal	Output	Seat reclining	Operate (forward)	Battery voltage
					Release	0
37 (G/W)	Ground	Lifting motor (front) downward output	Output	Seat lifting (front)	Operate (downward)	Battery voltage
					Stop	0
38 (L/Y)	Ground	Lifting motor (rear) upward output	Output	Seat lifting (rear)	Operate (upward)	Battery voltage
					Stop	0
39 (R/B)	Ground	Lifting motor (rear) downward output	Output	Seat lifting (rear)	Operate (downward)	Battery voltage
					Stop	0
40 (R/W)	Ground	Power source (Fuse)	Input	—		Battery voltage
41 (Y/G)	Ground	Forward switch signal	Input	Seatback is folded down		0
				Other than above*		5
42 (W)	Ground	Sliding motor backward output	Output	Seat sliding	Operate (backward)	Battery voltage
					Stop	0
44 (P)	Ground	Reclining motor backward output	Output	Seat reclining	Operate (backward)	Battery voltage
					Stop	0
45 (L/R)	Ground	Lifting motor (front) upward output	Output	Seat lifting (front)	Operate (upward)	Battery voltage
					Stop	0
48 (B)	Ground	Ground (power)	—	—		0

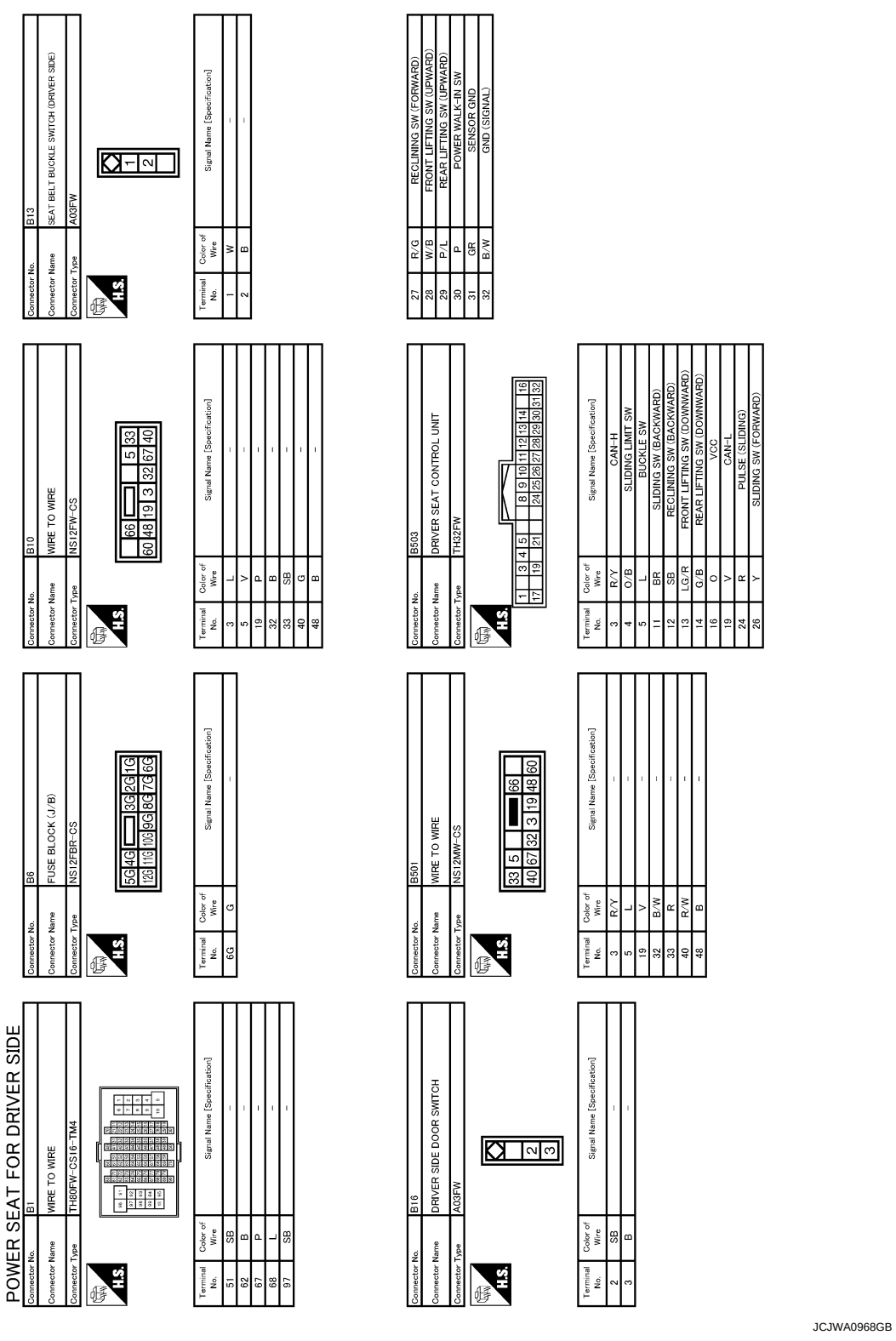
*: Not in the sleep mode.

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

INFOID:0000000004746984




FRONT SEAT (DRIVER SIDE)
POWER SEAT SWITCH
B511
LIFTING SWITCH (REAR)
LIFTING SWITCH (FRONT)
RECLINING SWITCH
SLIDING SWITCH
UP
DOWN
FOR-WARD
BACK-WARD
N
DRIVER SEAT CONTROL UNIT
B503
B504
LIFTING MOTOR (REAR)
B530
LIFTING MOTOR (FRONT)
B528
RECLINING MOTOR
B524
SLIDING MOTOR
B525
SLIDING SENSOR
B526
B501
B10
B7
: This connector is not shown in "Harness Layout".
JCJWA0967GB



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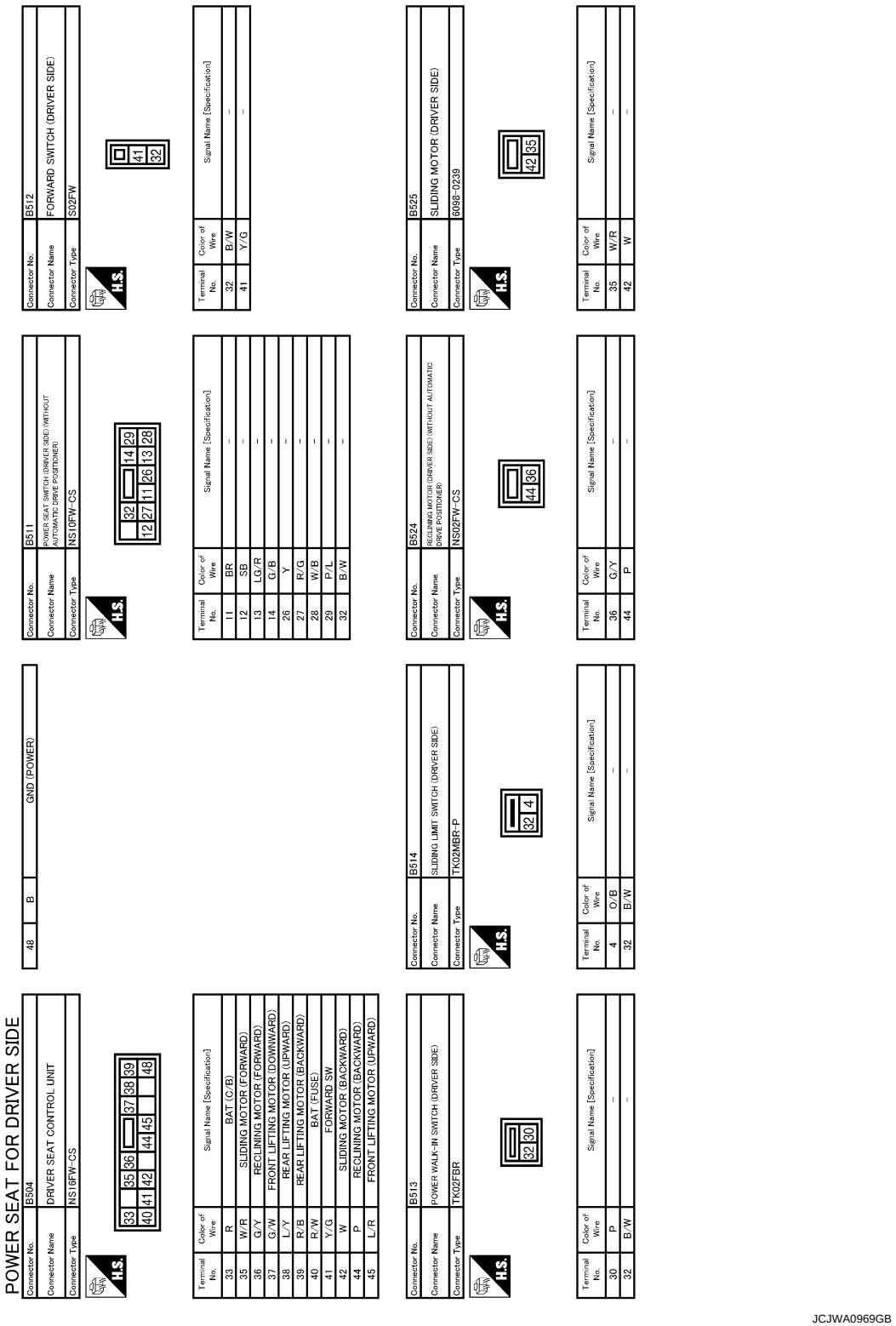


JCJWA0969GB

POWER SEAT FOR DRIVER SIDE

Connector No.	B526
Connector Name	SLIDING SENSOR (DRIVER SIDE)
Connector Type	6098-0241

Terminal No.	Color of Wire	Signal Name [Specification]
16	O	–
24	R	–
31	GR	–

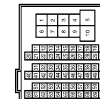
Connector No.	B528
Connector Name	LIFTING MOTOR (FRONT) (DRIVER SIDE) (WITHOUT AUTOMATIC DRIVE POSITIONER)
Connector Type	NS02FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
37	G/W	–
45	L/R	–

Connector No.	B530
Connector Name	LIFTING MOTOR (REAR) (DRIVER SIDE) (WITHOUT AUTOMATIC DRIVE POSITIONER)
Connector Type	NS02FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
38	L/Y	–
39	R/B	–

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
96	W	–

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

Terminal No.	Color of Wire	Signal Name [Specification]
96	W	–

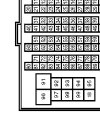
Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

Terminal No.	Color of Wire	Signal Name [Specification]
51	GR	–
62	B	–
67	P	–
68	L	–
97	SB	–

Connector No.	M24
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW

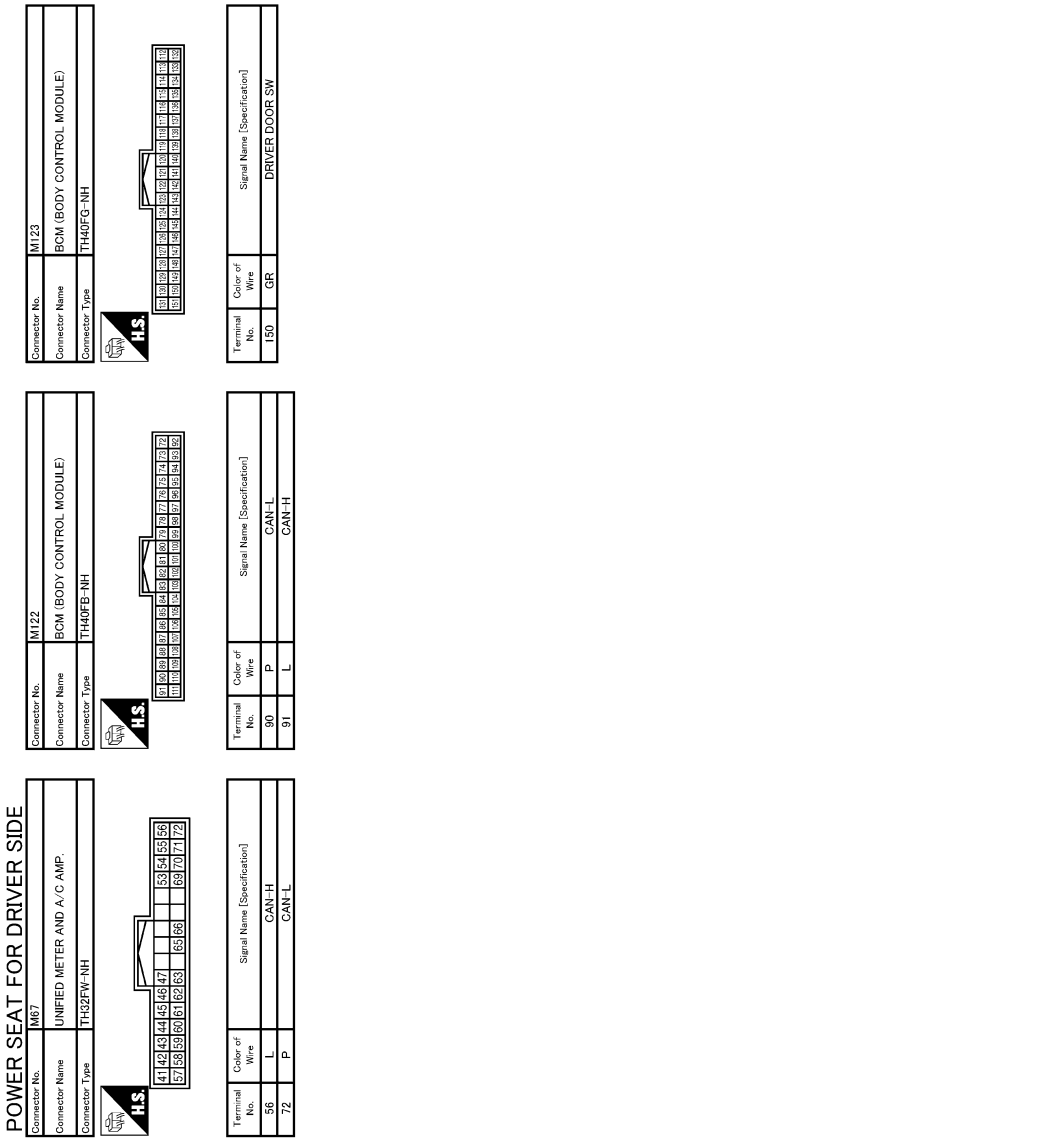
Terminal No.	Color of Wire	Signal Name [Specification]
6	L	–
14	P	–

Connector No.	M62
Connector Name	CIRCUIT BREAKER
Connector Type	M02FW-P-LC



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	–
2	SB	–

JCJWA0970GB



JCJWA0971GB

Fail-Safe

INFOID:0000000004746985

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

Operating in fail-safe mode	Malfunction Item	Related DTC	Diagnosis
Only manual functions operate normally.	CAN communication*1	U1000	With ADP: ADP-48, "DTC Logic" Without ADP: SE-34, "DTC Logic"
	Tilt sensor	B2118	ADP-53, "DTC Logic"
	Telescopic sensor	B2119	ADP-56, "DTC Logic"
	Detent switch	B2126	ADP-59, "DTC Logic"
	Parking brake switch	B2127	ADP-61, "DTC Logic"
Only manual functions, except door mirror, operate normally.	UART communication	B2128	ADP-63, "DTC Logic"
Only manual functions, except seat sliding, operate normally.	Seat sliding output*1	B2112	SE-35, "DTC Logic"
Only manual functions, except seat reclining, operate normally.	Seat reclining output*1	B2113	SE-37, "DTC Logic"

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

DTC Index

INFOID:0000000004746986

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

*1:

- 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.

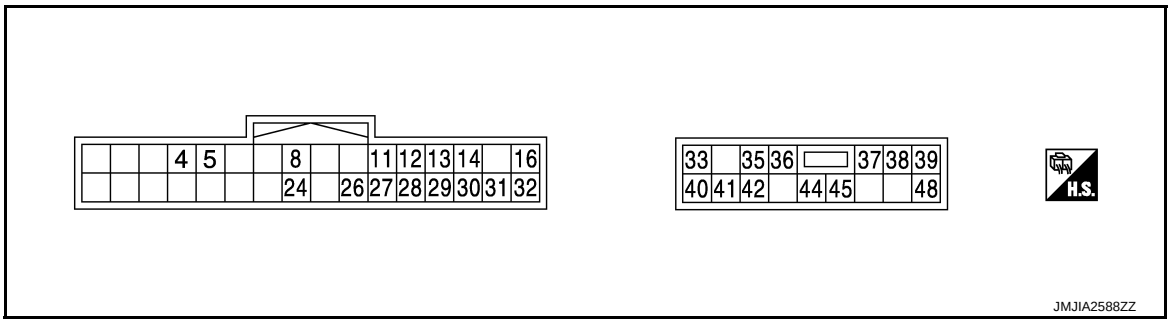
*2: Driver seat without automatic driver positioner system display.

PASSENGER SEAT CONTROL UNIT

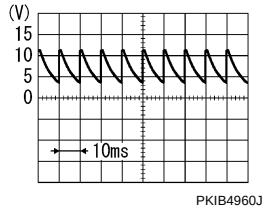
Reference Value

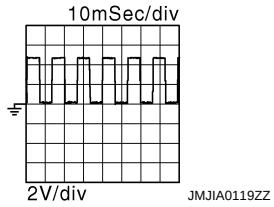
INFOID:0000000004746987

TERMINAL LAYOUT



PHYSICAL VALUES

Terminal No. (Wire color)		Description		Condition		Voltage (V) (Approx.)
(+)	(–)	Signal name	Input/ Output			
4 (O/B)	Ground	Sliding limit switch signal	Input	Seat sliding front edge		0
				Other than above*		5
5 (L)	Ground	Seat belt buckle switch signal (passenger side)	Input	Ignition switch OFF and seat belt fastened*		5
				Ignition switch ON and seat belt released		Battery voltage
				Other than above		0
8 (LG)	Ground	Passenger side door switch signal	Input	Passenger door	Open	0
					Closed	 PKIB4960J
11 (BR)	Ground	Sliding switch backward signal	Input	Sliding switch	Operate (backward)	0
					Release	Battery voltage
12 (SB)	Ground	Reclining switch backward signal	Input	Reclining switch	Operate (backward)	0
					Release	Battery voltage
13 (LG/R)	Ground	Lifting switch (front) downward signal	Input	Lifting switch (front)	Operate (downward)	0
					Release	Battery voltage
14 (G/B)	Ground	Lifting switch (rear) downward signal	Input	Lifting switch (rear)	Operate (downward)	0
					Release	Battery voltage
16 (O)	Ground	Sensor power supply	Output	—		Battery voltage

Terminal No. (Wire color)		Description		Condition		Voltage (V) (Approx.)
(+)	(–)	Signal name	Input/ Output			
24 (R)	Ground	Sliding sensor signal	Input	Seat sliding	Operate	
					Stop	0 or 5
26 (Y)	Ground	Sliding switch forward signal	Input	Sliding switch	Operate (forward)	0
					Release	Battery voltage
27 (R/G)	Ground	Reclining switch forward signal	Input	Reclining switch	Operate (forward)	0
					Release	Battery voltage
28 (W/B)	Ground	Lifting switch (front) upward signal	Input	Seat lifting switch (front)	Operate (upward)	0
					Release	Battery voltage
29 (P/L)	Ground	Lifting switch (rear) upward signal	Input	Seat lifting switch (rear)	Operate (upward)	0
					Release	Battery voltage
30 (P)	Ground	Power walk-in switch signal	Input	Power walk-in switch	Pressed	0
					Other than above	Battery voltage
31 (GR)	Ground	Sensor ground	—	—		0
32 (B/W)	Ground	Ground (signal)	—	—		0
33 (R)	Ground	Power source (C/B)	Input	—		Battery voltage
35 (W/R)	Ground	Sliding motor forward output	Output	Seat sliding	Operate (forward)	Battery voltage
					Release	0
36 (W/L)*1 (G/Y)*2	Ground	Reclining motor forward output signal	Output	Seat reclining	Operate (forward)	Battery voltage
					Release	0
37 (LG/R)*1 (G/W)*2	Ground	Lifting motor (front) downward output	Output	Seat lifting (front)	Operate (downward)	Battery voltage
					Stop	0
38 (P/L)*1 (L/Y)*2	Ground	Lifting motor (rear) upward output	Output	Seat lifting (rear)	Operate (upward)	Battery voltage
					Stop	0
39 (G/B)*1 (R/B)*2	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 (Y/G)	Ground	Forward switch signal	Input	Seatback is folded down		0
				Other than above*		5

Terminal No. (Wire color)		Description		Condition		Voltage (V) (Approx.)
(+)	(–)	Signal name	Input/ Output			
42 (W)	Ground	Sliding motor backward output	Output	Seat sliding	Operate (backward)	Battery voltage
					Stop	0
44 (P)	Ground	Reclining motor backward output	Output	Seat reclining	Operate (backward)	Battery voltage
					Stop	0
45 (W/B)*1 (L/R)*2	Ground	Lifting motor (front) upward output	Output	Seat lifting (front)	Operate (upward)	Battery voltage
					Stop	0
48 (B)	Ground	Ground (power)	—	—		0

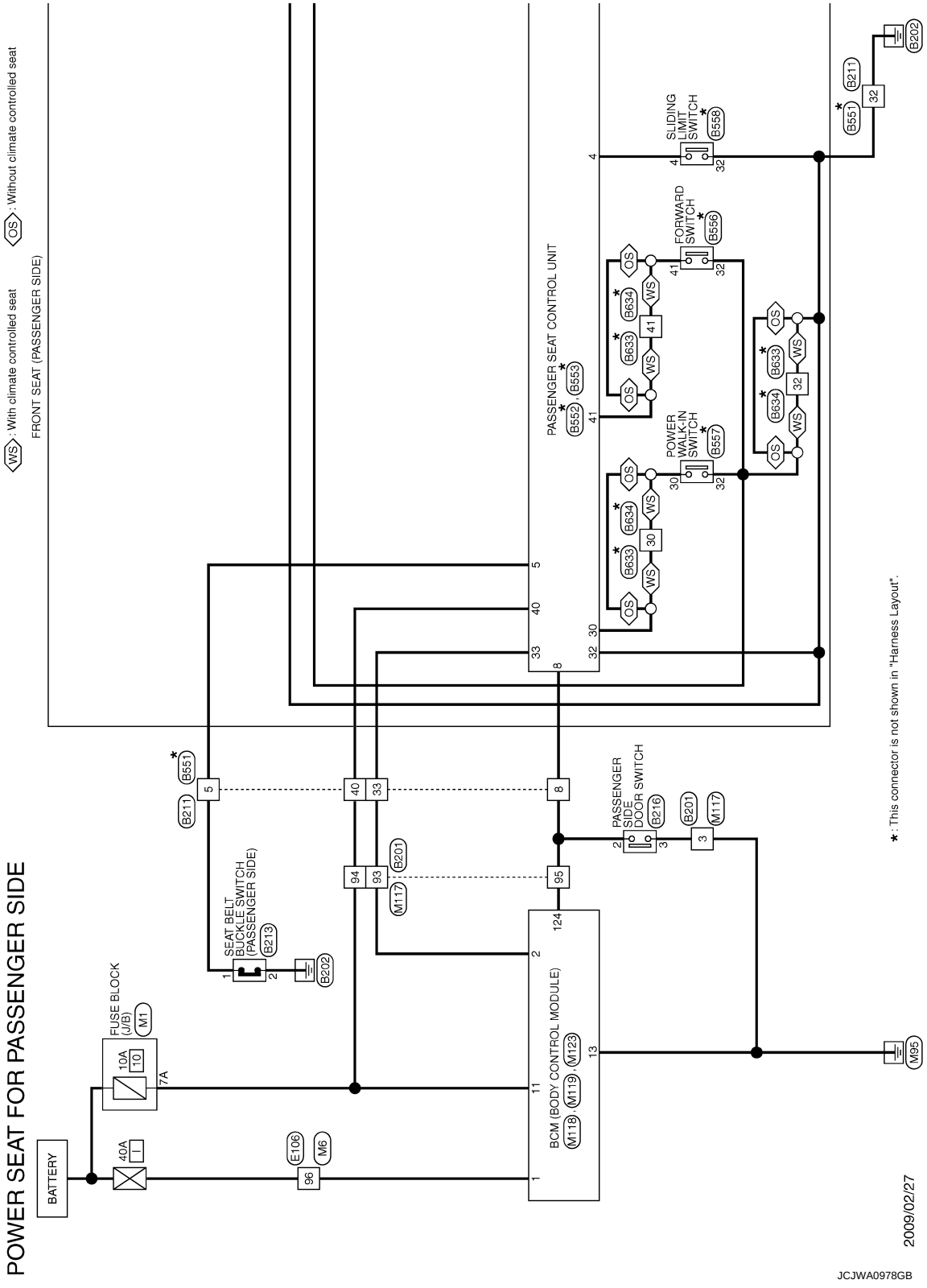
*: Not in the sleep mode.

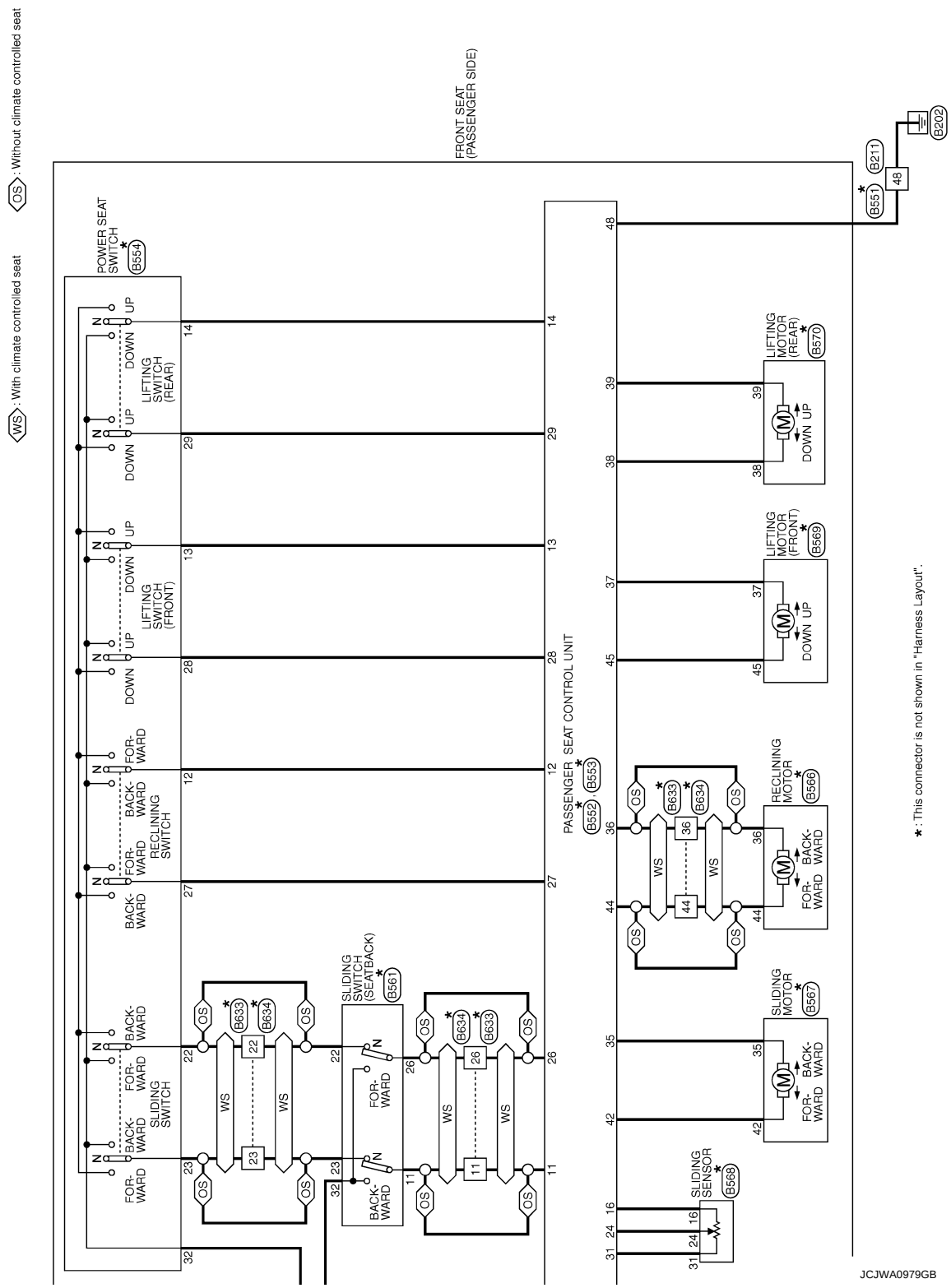
*1:With climate controlled seat.

*2:Without climate controlled seat.

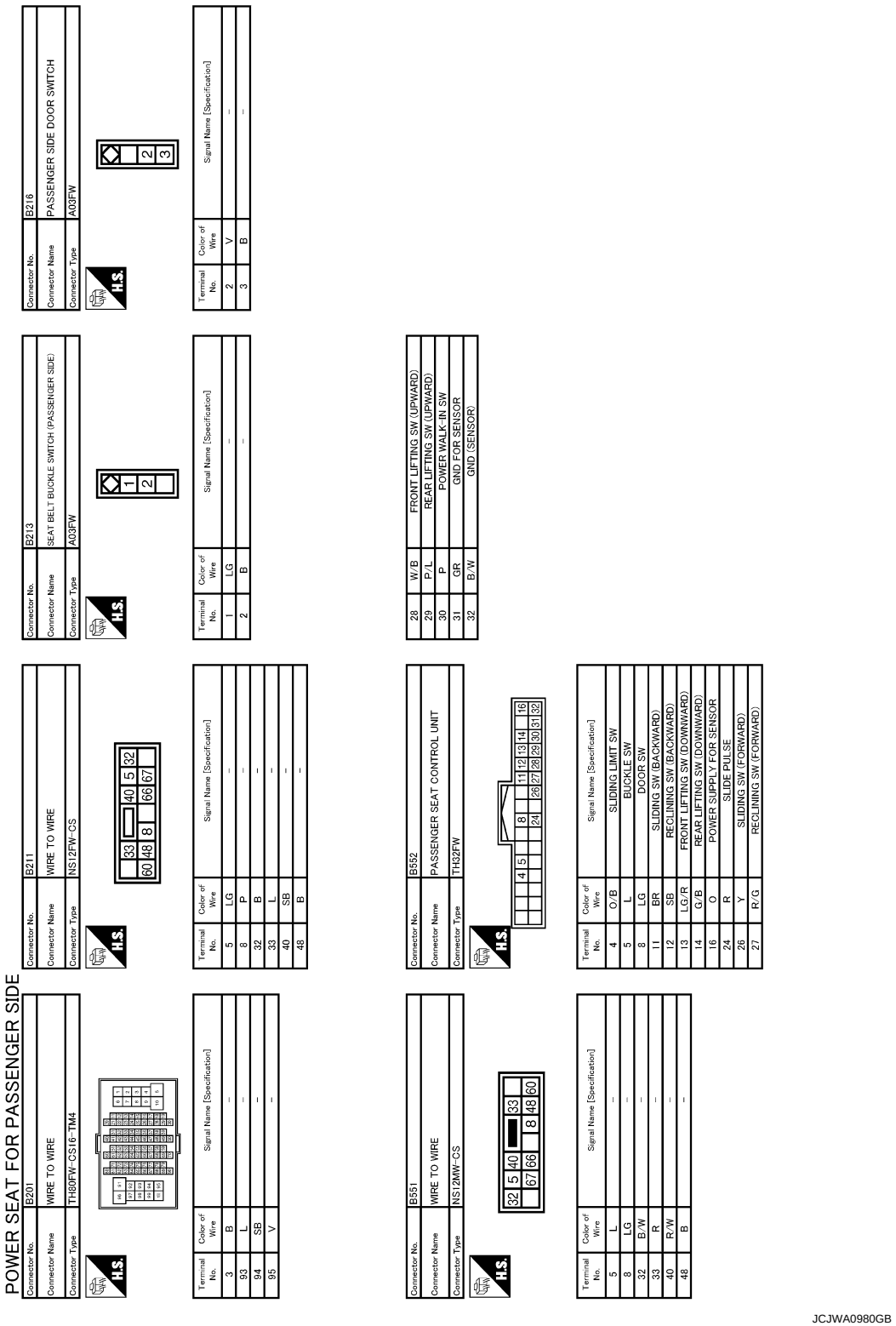
Wiring Diagram - POWER SEAT SYSTEM FOR PASSENGER SIDE -

INFOID:0000000004746988





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



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POWER SEAT FOR PASSENGER SIDE

Connector No.	B553
Connector Name	PASSENGER SEAT CONTROL UNIT
Connector Type	NS16FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
33	R	BAT (C/B)
35	W/R	SLIDING MOTOR (FORWARD)
36	W/L	RECLINING MOTOR (FORWARD) [With climate controlled seat]
36	G/Y	RECLINING MOTOR (FORWARD) [Without climate controlled seat]
37	LG/R	FRONT LIFTING MOTOR (DOWNWARD) [With climate controlled seat]
37	G/W	FRONT LIFTING MOTOR (DOWNWARD) [Without climate controlled seat]
38	P/L	REAR LIFTING MOTOR (UPWARD) [With climate controlled seat]
38	L/Y	REAR LIFTING MOTOR (UPWARD) [Without climate controlled seat]
39	G/B	REAR LIFTING MOTOR (DOWNWARD) [With climate controlled seat]
39	R/B	REAR LIFTING MOTOR (DOWNWARD) [Without climate controlled seat]
40	R/W	BAT (FUSE)

Connector No.	B557
Connector Name	POWER WALK-IN SWITCH (PASSENGER SIDE)
Connector Type	TK02FBR

Terminal No.	Color of Wire	Signal Name [Specification]
30	P	–
32	B/W	–

41	Y/G	FORWARD SW
42	W	SLIDING MOTOR (BACKWARD)
44	L	RECLINING MOTOR (BACKWARD) [With climate controlled seat]
44	P	RECLINING MOTOR (BACKWARD) [Without climate controlled seat]
45	W/B	FRONT LIFTING MOTOR (UPWARD) [With climate controlled seat]
45	L/R	FRONT LIFTING MOTOR (UPWARD) [Without climate controlled seat]
48	B	GND (POWER)

Connector No.	B558
Connector Name	SLIDING LIMIT SWITCH (PASSENGER SIDE)
Connector Type	TK02MBR-P

Terminal No.	Color of Wire	Signal Name [Specification]
4	O/B	–
32	B/W	–

Connector No.	B554
Connector Name	POWER SEAT SWITCH (PASSENGER SIDE)
Connector Type	NS10FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
12	SB	–
13	LG/R	–
14	G/B	–
22	W/G	–
23	O/L	–
27	R/G	–
28	W/B	–
29	P/L	–
32	B/W	–

Connector No.	B561
Connector Name	SLIDING SWITCH (SEAT BACK) (PASSENGER SIDE)
Connector Type	A06FW

Terminal No.	Color of Wire	Signal Name [Specification]
11	BR	–
22	W/G	–
23	O/L	–
26	Y	–
32	B/W	–

Connector No.	B556
Connector Name	FORWARD SWITCH (PASSENGER SIDE)
Connector Type	S02FW

Terminal No.	Color of Wire	Signal Name [Specification]
32	B/W	–
41	Y/G	–

Connector No.	B566
Connector Name	RECLINING MOTOR (PASSENGER SIDE)
Connector Type	NS02FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
36	W/L	– [With climate controlled seat]
36	G/Y	– [Without climate controlled seat]
44	L	– [With climate controlled seat]
44	P	– [Without climate controlled seat]

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POWER SEAT FOR PASSENGER SIDE

Connector No.	B567
Connector Name	SLIDING MOTOR (PASSENGER SIDE)
Connector Type	6098-0239

H.S.

35 42

Terminal No.	Color of Wire	Signal Name [Specification]
35	W/R	–
42	W	–

Connector No.	B568
Connector Name	SLIDING SENSOR (PASSENGER SIDE)
Connector Type	6098-0241

H.S.

24 31 16

Terminal No.	Color of Wire	Signal Name [Specification]
16	O	–
24	R	–
31	GR	–

Connector No.	B569
Connector Name	LIFTING MOTOR (FRONT) (PASSENGER SIDE)
Connector Type	NS02FW-CS

H.S.

45 37

Terminal No.	Color of Wire	Signal Name [Specification]
37	LG/R	– [With climate controlled seat]
37	G/W	– [Without climate controlled seat]
45	W/B	– [With climate controlled seat]
45	L/R	– [Without climate controlled seat]

Connector No.	B570
Connector Name	LIFTING MOTOR (REAR) (PASSENGER SIDE)
Connector Type	NS02FW-CS

H.S.

38 39

Terminal No.	Color of Wire	Signal Name [Specification]
38	P/L	– [With climate controlled seat]
38	L/Y	– [Without climate controlled seat]
39	G/B	– [With climate controlled seat]
39	R/B	– [Without climate controlled seat]

Connector No.	B633
Connector Name	WIRE TO WIRE
Connector Type	NS12MBR-CS

H.S.

98 96 99 44 36
30 23 11 26 22 41 32

Terminal No.	Color of Wire	Signal Name [Specification]
11	BR	–
22	W/G	–
23	O/L	–
26	Y	–
30	P	–
32	B/W	–
36	W/L	–
41	Y/G	–
44	L	–

Connector No.	B634
Connector Name	WIRE TO WIRE
Connector Type	NS12FBR-CS

H.S.

36 44 99 96 98
32 41 22 26 11 23 30

Terminal No.	Color of Wire	Signal Name [Specification]
11	BR	–
22	W/G	–
23	O/L	–
26	Y	–
30	P	–
32	B/W	–
36	W/L	–
41	Y/G	–
44	L	–

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
96	W	–

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS06FW-M2

H.S.

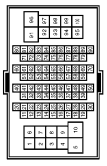
3A 2A 1A
8A 7A 6A 5A 4A

Terminal No.	Color of Wire	Signal Name [Specification]
7A	R	–

JCJWA0982GB

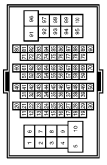
POWER SEAT FOR PASSENGER SIDE

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
96	W	–

Connector No.	M117
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

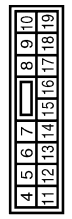


Terminal No.	Color of Wire	Signal Name [Specification]
3	B	–
93	W	–
94	O	–
95	LG	–

Connector No.	M118
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	M03FB-LC

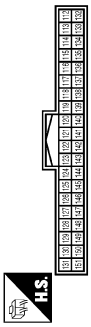
Terminal No.	Color of Wire	Signal Name [Specification]
1	W	BAT (F/L)
2	Y	POWER WINDOW POWER SUPPLY (BAT)

Connector No.	M119
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS16FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
11	R	BAT (FUSE)
13	B	GND

Connector No.	M123
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FG-NH



Terminal No.	Color of Wire	Signal Name [Specification]
124	LG	PASSENGER DOOR SW

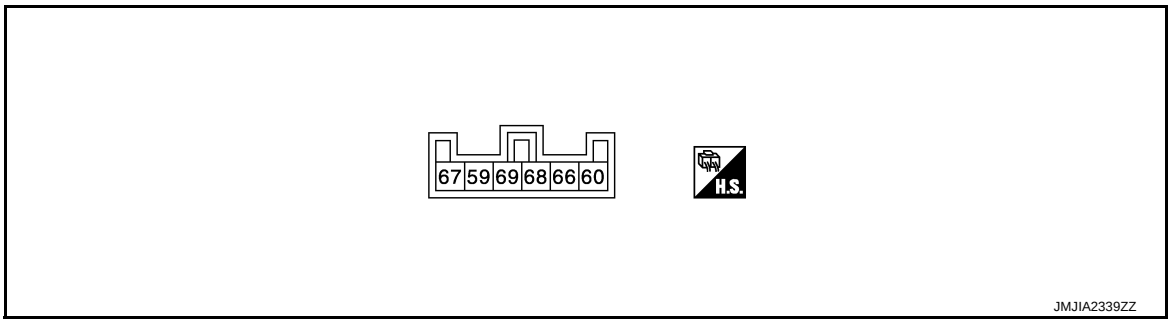
JCJWA0983GB

HEATED SEAT CONTROL UNIT

Reference Value

INFOID:0000000004746989

TERMINAL LAYOUT



PHYSICAL VALUES

Terminal No. (Wire color)		Description		Condition		Voltage (V) (Approx.)
(+)	(–)	Signal name	Input/ Output			
59 (B)	Ground	Ground	–	Ignition switch ON		0
60 (Y)	Ground	IGN power supply	Input	Ignition switch	OFF or ACC	0
					ON	Battery voltage
66 (B)*1 (B/Y)*2	Ground	Heated seat operation signal	Input	Heated seat	Operate	Battery voltage
					Other than above	0
67 (W)	Ground	Heated seat switch signal	Input	Heated seat switch	OFF	0
					1 (Min. temperature)	12.24
					2	12.33
					3	12.49
					4	12.63
					5	12.76
					6 (Max. temperature)	12.90
68 (R/W)	Ground	Seat cushion heater power supply	Output	Heated seat	Operate	0 – Battery voltage*
					Other than above	0
69 (R)	Ground	Heat sensor signal	Input	Heated seat switch	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*

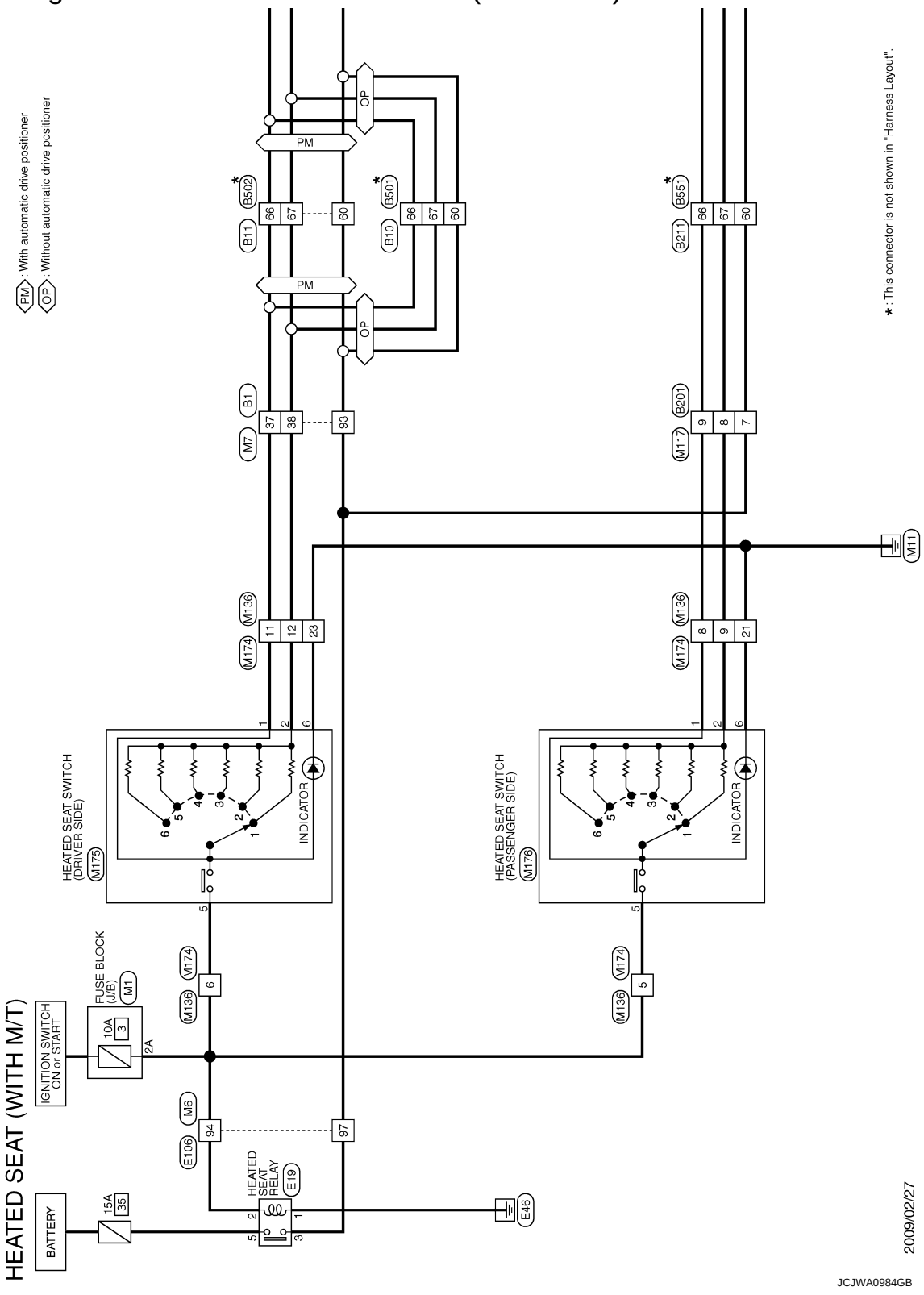
*: Voltage is repeated within the value shown as per the following list depending on heater unit temperature.

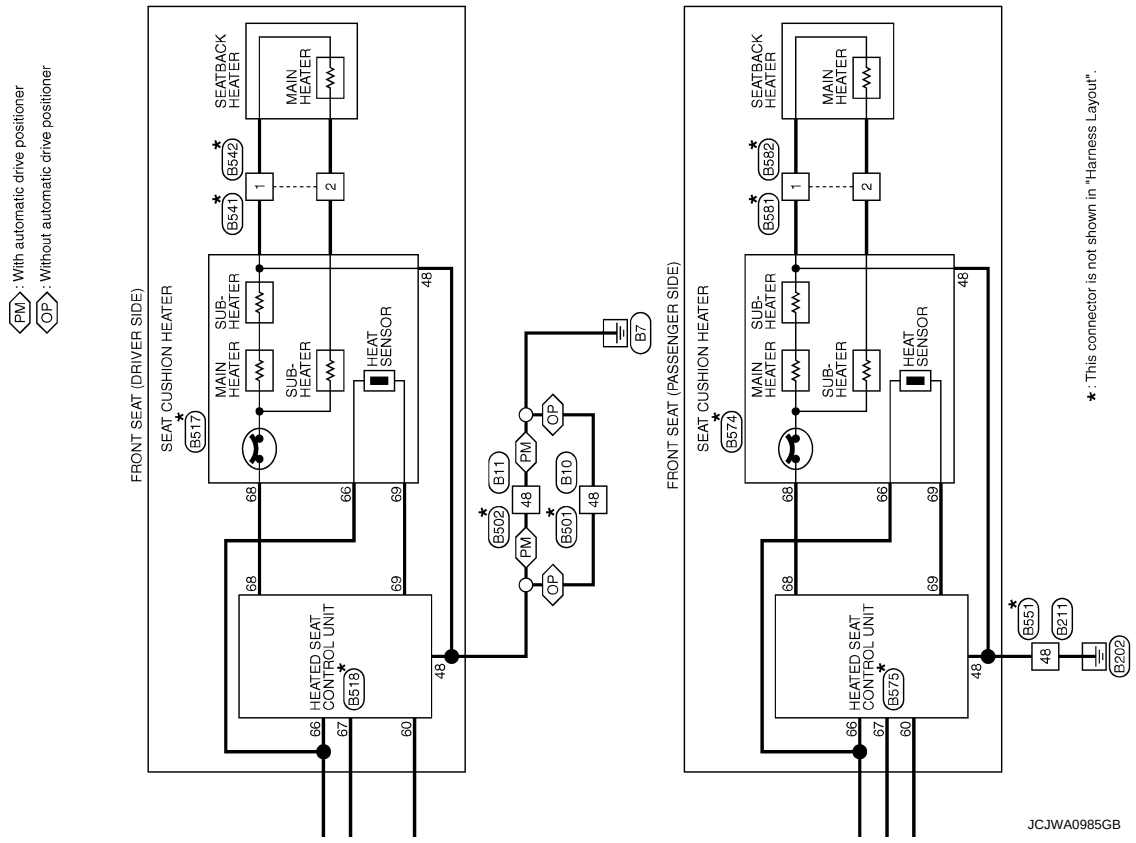
*1:With side support.

*2:Without side support.

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

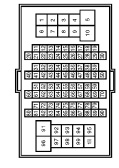
INFOID:0000000004746990




PM : With automatic drive positioner
OP : Without automatic drive positioner
FRONT SEAT (DRIVER SIDE)
SEAT CUSHION HEATER
SEATBACK HEATER
MAIN HEATER
SUB-HEATER
MAIN HEATER
SUB-HEATER
HEAT SENSOR
HEATED SEAT CONTROL UNIT
B517
B542
B541
B518
B502
B501
B11
B10
B7
FRONT SEAT (PASSENGER SIDE)
B574
B582
B581
B575
B551
B211
B202
★: This connector is not shown in "Harness Layout".
JCJWA0985GB

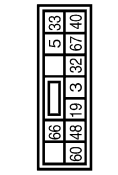
HEATED SEAT (WITH M/T)

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



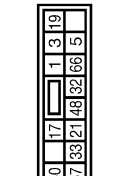
Terminal No.	Color of Wire	Signal Name [Specification]
37	Y	– [Without climate controlled seat]
38	GR	– [Without climate controlled seat]
93	O	–

Connector No.	B10
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS



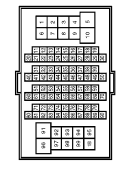
Terminal No.	Color of Wire	Signal Name [Specification]
48	B	–
60	O	–
66	Y	–
67	GR	–

Connector No.	B11
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



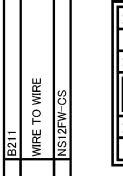
Terminal No.	Color of Wire	Signal Name [Specification]
48	B	–
60	O	–
66	Y	–
67	GR	–

Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



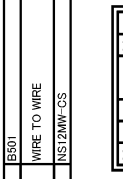
Terminal No.	Color of Wire	Signal Name [Specification]
7	G	– [Without climate controlled seat]
8	O	–
9	GR	–

Connector No.	B211
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS



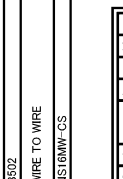
Terminal No.	Color of Wire	Signal Name [Specification]
48	B	–
60	Y	–
66	B	– [With side support]
66	B/Y	– [Without side support]
67	W	–

Connector No.	B501
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
48	B	–
60	Y	–
66	B	– [With side support]
66	B/Y	– [Without side support]
67	W	–

Connector No.	B502
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
48	B	–
60	Y	–
66	B	–
67	W	–

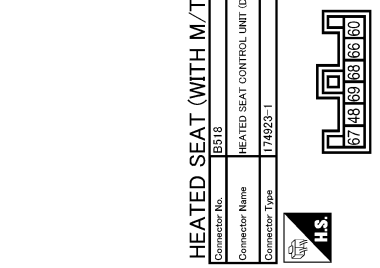
Connector No.	B517
Connector Name	SEAT CUSHION HEATER (DRIVER SIDE)
Connector Type	S04FW

Terminal No.	Color of Wire	Signal Name [Specification]
48	B	–
66	B	– [With side support]
66	B/Y	– [Without side support]
68	R/W	–
69	R	–

JCJWA0986GB

HEATED SEAT (WITH M/T)

Connector No.	B518
Connector Name	HEATED SEAT CONTROL UNIT (DRIVER SIDE)
Connector Type	I74923-I

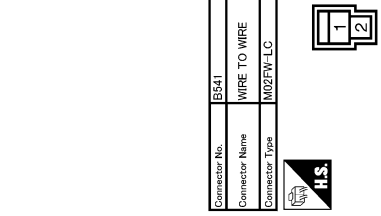


Terminal No.	Color of Wire	Signal Name [Specification]
48	B	GROUND
60	Y	IGN POWER SUPPLY
66	B	HEATED SEAT OPERATION SIGNAL [With side support]
66	B/Y	HEATED SEAT OPERATION SIGNAL [Without side support]
67	W	HEATED SEAT SWITCH SIGNAL
68	R/W	HEATER UNIT POWER SUPPLY
69	R	HEAT SENSOR SIGNAL

Connector No.	B574
Connector Name	SEAT CUSHION HEATER (PASSENGER SIDE)
Connector Type	S04FW

Terminal No.	Color of Wire	Signal Name [Specification]
48	B	–
66	B	–
68	R/W	–
69	R	–

Connector No.	B541
Connector Name	WIRE TO WIRE
Connector Type	M02FW-LC

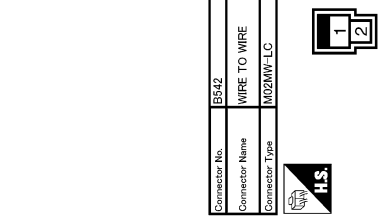


Terminal No.	Color of Wire	Signal Name [Specification]
1	–	–
2	–	–

Connector No.	B575
Connector Name	HEATED SEAT CONTROL UNIT (PASSENGER SIDE)
Connector Type	I74923-I

Terminal No.	Color of Wire	Signal Name [Specification]
48	B	GROUND
60	Y	IGN POWER SUPPLY
66	B	HEATED SEAT OPERATION SIGNAL
67	W	HEATED SEAT SWITCH SIGNAL
68	R/W	HEATER UNIT POWER SUPPLY
69	R	HEAT SENSOR SIGNAL

Connector No.	B542
Connector Name	WIRE TO WIRE
Connector Type	M02MW-LC

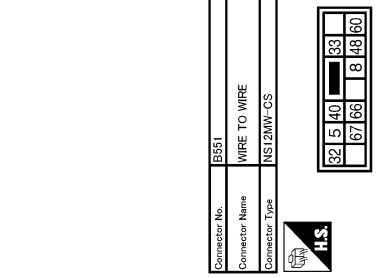


Terminal No.	Color of Wire	Signal Name [Specification]
1	–	–
2	–	–

Connector No.	B581
Connector Name	WIRE TO WIRE
Connector Type	M02FW-LC

Terminal No.	Color of Wire	Signal Name [Specification]
1	–	–
2	–	–

Connector No.	B551
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
48	B	–
60	Y	–
66	B	–
67	W	–

Connector No.	B582
Connector Name	WIRE TO WIRE
Connector Type	M02MW-LC

Terminal No.	Color of Wire	Signal Name [Specification]
1	–	–
2	–	–

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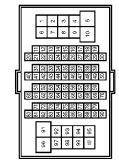
HEATED SEAT (WITH M/T)

Connector No.	E19
Connector Name	HEATED SEAT RELAY
Connector Type	MS02FL-M2

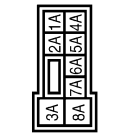
Terminal No.	Color of Wire	Signal Name [Specification]
1	B	–
2	V	–
3	G	–
5	BR	–

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



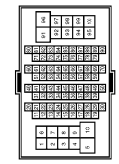
Terminal No.	Color of Wire	Signal Name [Specification]
94	V	– [Without climate controlled seat]
97	G	–

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS06FW-M2



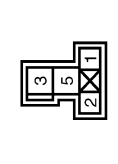
Terminal No.	Color of Wire	Signal Name [Specification]
2A	G	–

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
94	G	– [Without climate controlled seat]
97	G	– [Without climate controlled seat]

Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
37	L	– [Without climate controlled seat]
38	GR	– [Without climate controlled seat]
93	G	–

Connector No.	M117
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

Terminal No.	Color of Wire	Signal Name [Specification]
7	G	–
8	SB	–
9	GR	–

Connector No.	M136
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
5	W	–
6	W	–
8	GR	–
9	SB	–
11	L	–
12	GR	–
21	GR	–
23	GR	–

Connector No.	M174
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
5	W	–
6	LG	–
8	P	–
9	SB	–
11	L	–
12	G	–
21	GR	–
23	B	–

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HEATED SEAT (WITH M/T)

Connector No.	M175
Connector Name	HEATED SEAT SWITCH (DRIVER SIDE) (WITH M/T)
Connector Type	TK10FW

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	L	–
2	G	–
5	LG	–
6	B	–

Connector No.	M176
Connector Name	HEATED SEAT SWITCH (PASSENGER SIDE) (WITH M/T)
Connector Type	TK08FBR

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	P	–
2	SB	–
5	W	–
6	GR	–

JCJWA0989GB

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

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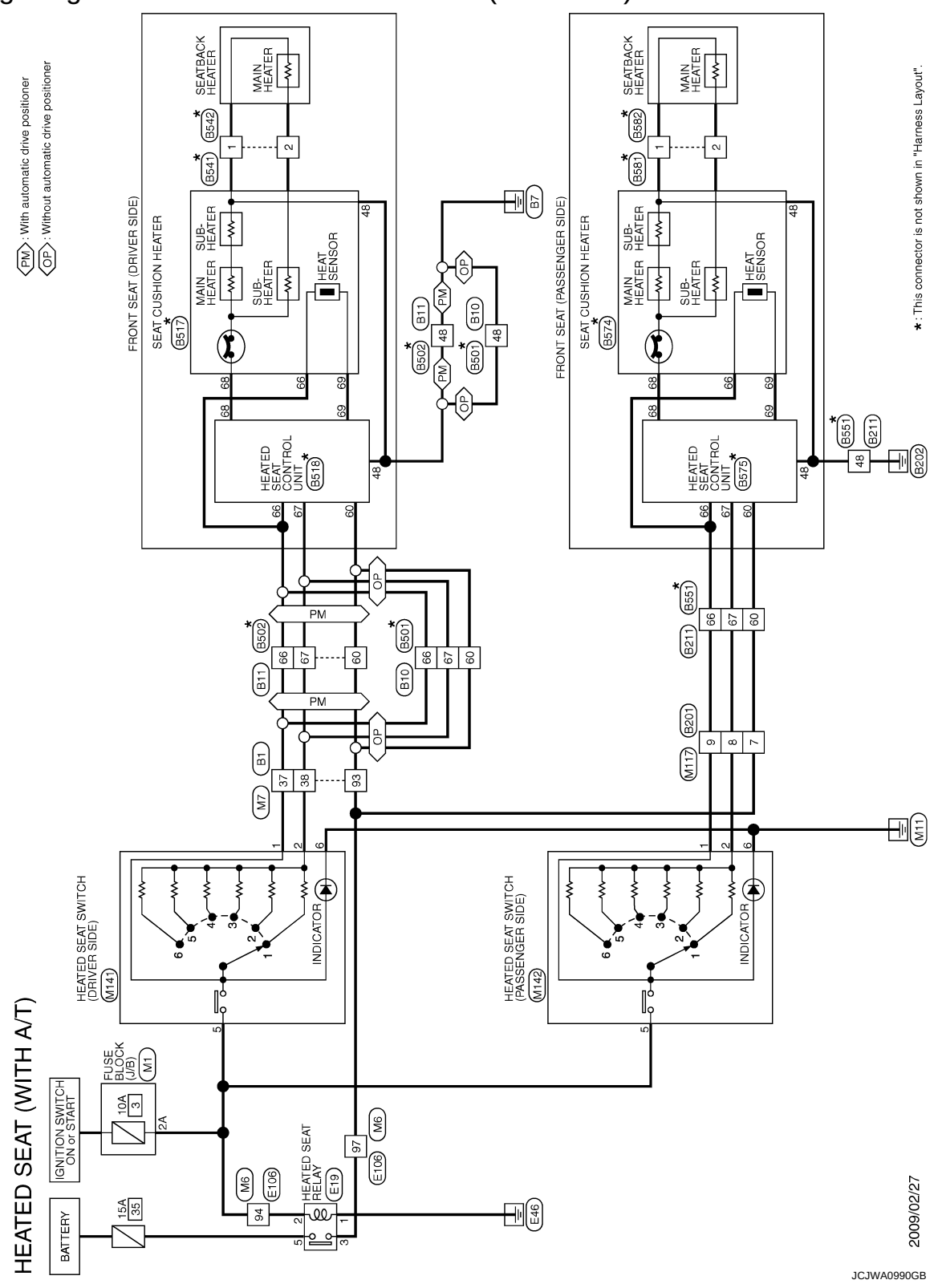
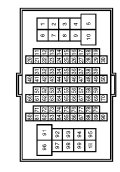


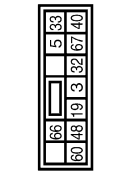
HEATED SEAT (WITH A/T)

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



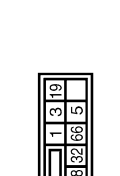
Terminal No.	Color of Wire	Signal Name [Specification]
37	Y	– [Without climate controlled seat]
38	GR	– [Without climate controlled seat]
93	O	–

Connector No.	B10
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS



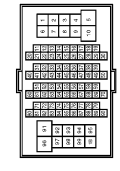
Terminal No.	Color of Wire	Signal Name [Specification]
48	B	–
60	O	–
66	Y	–
67	GR	–

Connector No.	B11
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
48	B	–
60	O	–
66	Y	–
67	GR	–

Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
7	G	– [Without climate controlled seat]
8	O	–
9	GR	–

Connector No.	B211
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
48	B	–
60	G	–
66	GR	–
67	O	–

Connector No.	B501
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
48	B	–
60	Y	–
66	B	– [With side support]
66	B/Y	– [Without side support]
67	W	–

Connector No.	B502
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
48	B	–
60	Y	–
66	B	–
67	W	–

Connector No.	B517
Connector Name	SEAT CUSHION HEATER (DRIVER SIDE)
Connector Type	S04FW

Terminal No.	Color of Wire	Signal Name [Specification]
48	B	–
66	B	– [With side support]
66	B/Y	– [Without side support]
68	R/W	–
69	R	–

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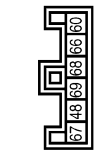
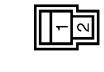
HEATED SEAT (WITH A/T)

Connector No.	B518
Connector Name	HEATED SEAT CONTROL UNIT (DRIVER SIDE)
Connector Type	174923-1



Terminal No.	Color of Wire	Signal Name [Specification]
48	B	GROUND
60	Y	IGN POWER SUPPLY
66	B	HEATED SEAT OPERATION SIGNAL [With side support]
66	B/Y	HEATED SEAT OPERATION SIGNAL [Without side support]
67	W	HEATED SEAT SWITCH SIGNAL
68	R/W	HEATER UNIT POWER SUPPLY
69	R	HEAT SENSOR SIGNAL

Connector No.	B541
Connector Name	WIRE TO WIRE
Connector Type	M02FW-LC

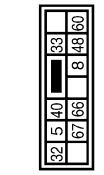


Terminal No.	Color of Wire	Signal Name [Specification]
1	–	–
2	–	–

Connector No.	B542
Connector Name	WIRE TO WIRE
Connector Type	M02MW-LC

Terminal No.	Color of Wire	Signal Name [Specification]
1	–	–
2	–	–

Connector No.	B551
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
48	B	–
60	Y	–
66	B	–
67	W	–

Connector No.	B574
Connector Name	SEAT CUSHION HEATER (PASSENGER SIDE)
Connector Type	S04FW

Terminal No.	Color of Wire	Signal Name [Specification]
48	B	–
66	B	–
68	R/W	–
69	R	–

Connector No.	B575
Connector Name	HEATED SEAT CONTROL UNIT (PASSENGER SIDE)
Connector Type	174923-1

Terminal No.	Color of Wire	Signal Name [Specification]
48	B	GROUND
60	Y	IGN POWER SUPPLY
66	B	HEATED SEAT OPERATION SIGNAL
67	W	HEATED SEAT SWITCH SIGNAL
68	R/W	HEATER UNIT POWER SUPPLY
69	R	HEAT SENSOR SIGNAL

Connector No.	B581
Connector Name	WIRE TO WIRE
Connector Type	M02FW-LC

Terminal No.	Color of Wire	Signal Name [Specification]
1	–	–
2	–	–

Connector No.	B582
Connector Name	WIRE TO WIRE
Connector Type	M02MW-LC

Terminal No.	Color of Wire	Signal Name [Specification]
1	–	–
2	–	–

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HEATED SEAT (WITH A/T)

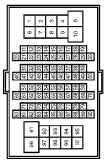
Connector No.	E19
Connector Name	HEATED SEAT RELAY
Connector Type	MS02FL-M2

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	B	–
2	V	–
3	G	–
5	BR	–

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

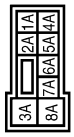
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
94	V	– [Without climate controlled seat]
97	G	– [Without climate controlled seat]

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS06FW-M2

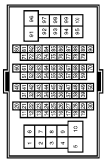
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
2A	G	–

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

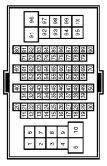
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
94	G	– [Without climate controlled seat]
97	G	– [Without climate controlled seat]

Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

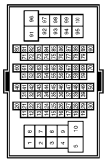
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
37	L	– [Without climate controlled seat]
38	GR	– [Without climate controlled seat]
93	G	–

Connector No.	M117
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

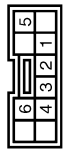
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
7	G	–
8	SB	–
9	GR	–

Connector No.	M141
Connector Name	HEATED SEAT SWITCH (DRIVER SIDE) (WITH A/T)
Connector Type	TK10FW

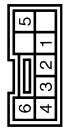
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	–
2	GR	–
5	W	–
6	GR	–

Connector No.	M142
Connector Name	HEATED SEAT SWITCH (PASSENGER SIDE) (WITH A/T)
Connector Type	TK08FBR

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	–
2	SB	–
5	W	–
6	GR	–

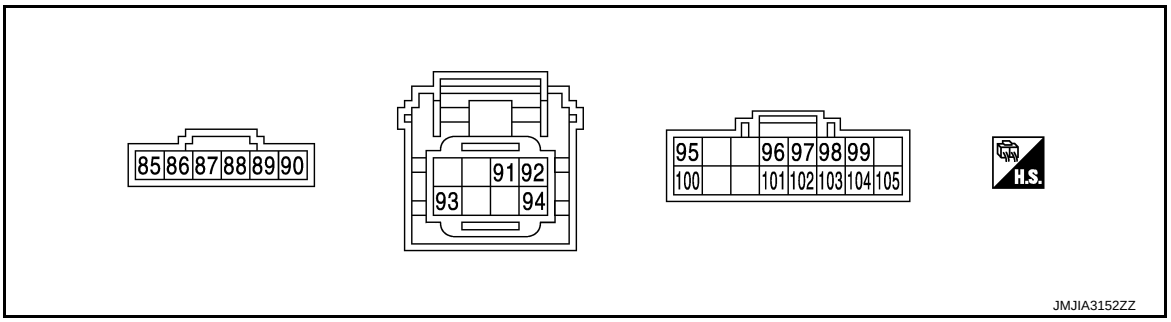
JCJWA0993GB

CLIMATE CONTROLLED SEAT CONTROL UNIT

Reference Value

INFOID:0000000004747433

TERMINAL LAYOUT



PHYSICAL VALUES

Terminal No.		Wire color	Description		Condition		Value (Approx.)
+	–		Signal name	Input/ Output			
85	Ground	G	Seatback thermal electric device COOL signal	Output	Climate controlled seat switch	HEAT or COOL	0 - Battery voltage*
						OFF	0
86	Ground	G/W	Seat cushion thermal electric device COOL-signal	Output	Climate controlled seat switch	HEAT or COOL	0 - Battery voltage*
						OFF	0
87	Ground	G/B	Seat cushion thermal electric device HEAT signal	Output	Climate controlled seat switch	HEAT or COOL	0 - Battery voltage*
						OFF	0
88	Ground	G/R	Seatback thermal electric device HEAT signal	Output	Climate controlled seat switch	HEAT or COOL	0 - Battery voltage*
						OFF	0
89	Ground	R	Ignition switch power supply	Input	Ignition switch ON		Battery voltage
90	Ground	L	Ground	—	—		0
91	Ground	Y	HEAT switch signal	Input	Climate controlled seat switch	HI HEAT	2.6 - 4.2
						MID HEAT	1.6 - 2.5
						LO HEAT	0.8 - 1.5
						OFF	0
92	Ground	W	COOL switch signal	Input	Climate controlled seat switch	HI COOL	2.6 - 4.2
						MID COOL	1.6 - 2.5
						LO COOL	0.8 - 1.5
						OFF	0
93	Ground	W/B	Ignition switch power supply	Input	Ignition switch ON		Battery voltage
94	Ground	W/R	Climate controlled seat switch power supply	Output	Ignition switch ON		Battery voltage
95	Ground	R/L	HEAT switch indicator signal	Output	Climate controlled seat switch	HEAT	Battery voltage
						OFF	0

Terminal No.		Wire color	Description		Condition		Value (Approx.)
+	–		Signal name	Input/ Output			
96	Ground	L/W	Seatback blower motor speed control signal	Output	Climate controlled seat switch	HEAT	7.5 - 8
						HI COOL	12
						MID COOL	8
						LO COOL	6.5
97	Ground	R	seat cushion blower motor speed control signal	Output	Climate controlled seat switch	HEAT	7.5 - 8
						HI COOL	12
						MID COOL	8
						LO COOL	6.5
98	Ground	R/W	Blower motor ground	—	—		0
99	Ground	L	Statback blower motor power supply	Output	Climate controlled seat switch	HEAT or COOL	Battery voltage
					Other than the above		0
100	Ground	GR	COOL switch indicator signal	Output	Climate controlled seat switch	COOL	Battery voltage
						OFF	0
101	Ground	GR/R	Seat cushion blower motor power supply	Output	Climate controlled seat switch	HEAT or COOL	Battery voltage
					Other than the above		0
102	Ground	V	Seat cushion thermal electric device sensor ground	—	Ignition switch ON		0
103	Ground	BR	Seat cushion thermal electric device sensor signal	Input	Climate controlled seat operated		1 - 5
104	Ground	V/W	Seatback thermal electric device sensor ground	—	Ignition switch ON		0
105	Ground	LG	Seatback thermal electric device sensor signal	Input	Climate controlled seat operated		1 - 5

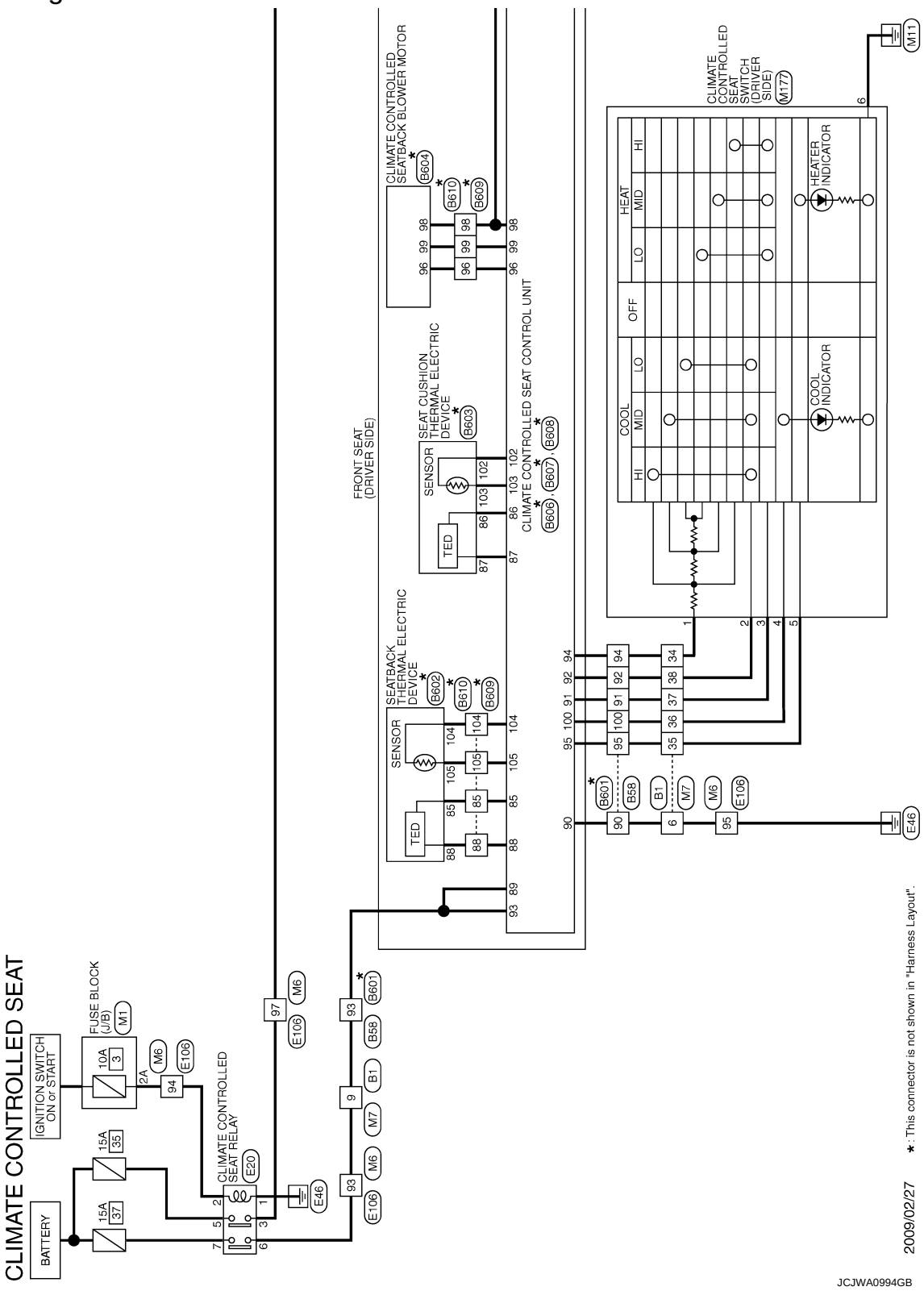
*:It changes between battery voltage or 0V

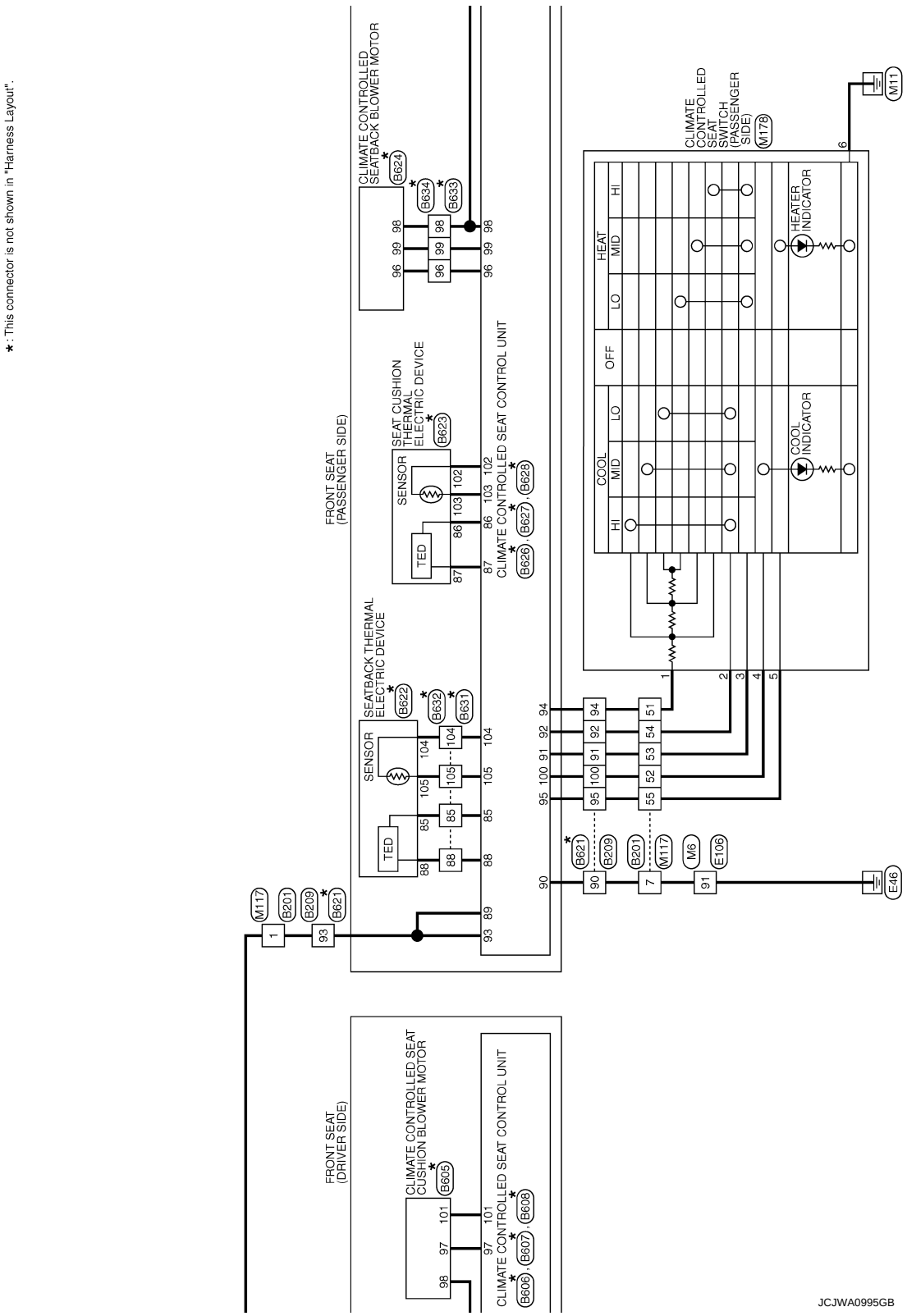
NOTE:

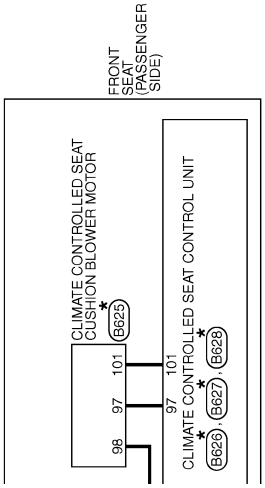
- Measure the value on the condition that the battery voltage is 14 V
- Wait 1 minute or more after thermal electric device is activated, and then start the measurement

Wiring Diagram - CLIMATE CONTROLLED SEAT CONTROL SYSTEM -

INFOID:0000000004747434




★: This connector is not shown in "Harness Layout".
FRONT SEAT (PASSENGER SIDE)
CLIMATE CONTROLLED SEAT BLOWER MOTOR
B624
B634
B633
SEAT CUSHION THERMAL ELECTRIC DEVICE
SENSOR
TED
B623
CLIMATE CONTROLLED SEAT CONTROL UNIT
B626, B627, B628
SEATBACK THERMAL ELECTRIC DEVICE
B622
B632
B631
M117
B201
B209
B621
CLIMATE CONTROLLED SEAT SWITCH (PASSENGER SIDE)
M178
HEAT
HI
MID
LO
OFF
COOL
HEATER INDICATOR
COOL INDICATOR
M11
E46
M6
E106
FRONT SEAT (DRIVER SIDE)
CLIMATE CONTROLLED SEAT CUSHION BLOWER MOTOR
B605
CLIMATE CONTROLLED SEAT CONTROL UNIT
B606, B607, B608
JCJWA0995GB



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

JCJWA0996GB

CLIMATE CONTROLLED SEAT

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
6	B	–
9	G	–
34	O	–
35	GR	–
36	BR	–
37	P	– [With climate controlled seat]
38	V	– [With climate controlled seat]

Connector No.	B58
Connector Name	WIRE TO WIRE
Connector Type	NS16FBR-CS

H.S.

82 83 78 76 91 92 95
81 80 79 75 77 94 90 100 93

Terminal No.	Color of Wire	Signal Name [Specification]
90	B	–
91	G	–
92	V	–
93	P	–
94	O	–
95	GR	–
100	BR	–

Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	W	–
7	B	– [With climate controlled seat]
51	SB	–
52	LG	–
53	L	–
54	G	–
55	GR	–

Connector No.	B209
Connector Name	WIRE TO WIRE
Connector Type	NS16FBR-CS

H.S.

78 76 91 92 95
80 79 75 77 94 90 100 93

Terminal No.	Color of Wire	Signal Name [Specification]
90	B	–
91	W	–
92	G	–
93	L	–
94	SB	–
95	GR	–
100	LG	–

Connector No.	B601
Connector Name	WIRE TO WIRE
Connector Type	NS16MBR-CS

H.S.

95 92 91 76 78 83 82
93 100 90 94 77 75 79 80 81

Terminal No.	Color of Wire	Signal Name [Specification]
90	L	–
91	W/B	–
92	W	–
93	Y	–
94	W/R	–
95	R/L	–
100	GR	–

Connector No.	B602
Connector Name	SEATBACK THERMAL ELECTRIC DEVICE (DRIVER SIDE)
Connector Type	6098-2163

H.S.

105 104 85 88

Terminal No.	Color of Wire	Signal Name [Specification]
85	G	–
88	G/R	–
104	V/W	–
105	LG	–

Connector No.	B603
Connector Name	SEAT CUSHION THERMAL ELECTRIC DEVICE (DRIVER SIDE)
Connector Type	6098-2163

H.S.

103 104 86 87

Terminal No.	Color of Wire	Signal Name [Specification]
86	G/W	–
87	G/B	–
102	V	–
103	BR	–

Connector No.	B604
Connector Name	CLIMATE CONTROLLED SEAT/BACK BLOWER MOTOR (DRIVER SIDE)
Connector Type	7283-5830-90

H.S.

98 96 99

Terminal No.	Color of Wire	Signal Name [Specification]
96	R/W	–
98	L	–
99	L/W	–

JCJWA0997GB

CLIMATE CONTROLLED SEAT

Connector No.	B605
Connector Name	CLIMATE CONTROLLED SEAT CUSHION BLOWER MOTOR (DRIVER SIDE)
Connector Type	7283-5830-90

Terminal No.	Color of Wire	Signal Name [Specification]
97	R	–
98	L	–
101	GR/R	–

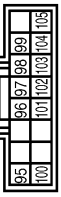
Connector No.	B606
Connector Name	CLIMATE CONTROLLED SEAT CONTROL UNIT (DRIVER SIDE)
Connector Type	Delphi: 15332141

Terminal No.	Color of Wire	Signal Name [Specification]
85	G	–
86	G/W	–
87	G/B	–
88	G/R	–
89	R	–
90	L	–

Connector No.	B607
Connector Name	CLIMATE CONTROLLED SEAT CONTROL UNIT (DRIVER SIDE)
Connector Type	Delphi: 15406141

Terminal No.	Color of Wire	Signal Name [Specification]
91	Y	–
92	W	–
93	W/B	–
94	W/R	–

Connector No.	B608
Connector Name	CLIMATE CONTROLLED SEAT CONTROL UNIT (DRIVER SIDE)
Connector Type	Delphi: 15394150



Terminal No.	Color of Wire	Signal Name [Specification]
95	R/L	–
96	R/W	–
97	R	–
98	L	–
99	L/W	–
100	GR	–
101	GR/R	–
102	V	–
103	BR	–
104	V/W	–
105	LG	–

Connector No.	B609
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
85	G	–
88	G/R	–
96	R/W	–
98	L	–
99	L/W	–
104	V/W	–
105	LG	–

Connector No.	B610
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
85	G	–
88	G/R	–
96	R/W	–
98	L	–
99	L/W	–
104	V/W	–
105	LG	–

Connector No.	B621
Connector Name	WIRE TO WIRE
Connector Type	NS16MBR-CS

Terminal No.	Color of Wire	Signal Name [Specification]
90	L	–
91	W/B	–
92	W	–
93	Y	–
94	W/R	–
95	R/L	–
100	GR	–

Connector No.	B622
Connector Name	SEATBACK THERMAL ELECTRO DEVICE (PASSENGER SIDE)
Connector Type	6098-2163

Terminal No.	Color of Wire	Signal Name [Specification]
85	G	–
88	G/R	–
104	V/W	–
105	LG	–

JCJWA0998GB

CLIMATE CONTROLLED SEAT

Connector No.	B623
Connector Name	SEAT CUSHION THERMAL ELECTRIC DEVICE (PASSENGER SIDE)
Connector Type	6098-2163

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
86	G/W	–
87	G/B	–
102	V	–
103	BR	–

Connector No.	B624
Connector Name	CLIMATE CONTROLLED SEATBACK BLOWER MOTOR (PASSENGER SIDE)
Connector Type	7283-5830-90

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
96	R/W	–
98	L	–
99	L/W	–

Connector No.	B625
Connector Name	CLIMATE CONTROLLED SEAT CUSHION BLOWER MOTOR (PASSENGER SIDE)
Connector Type	7283-5830-90

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
97	R	–
98	L	–
101	GR/R	–

Connector No.	B626
Connector Name	CLIMATE CONTROLLED SEAT CONTROL UNIT (PASSENGER SIDE)
Connector Type	Delphi: 15332141

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
85	G	–
86	G/W	–
87	G/B	–
88	G/R	–
89	R	–
90	L	–

Connector No.	B627
Connector Name	CLIMATE CONTROLLED SEAT CONTROL UNIT (PASSENGER SIDE)
Connector Type	Delphi: 15406141

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
91	Y	–
92	W	–
93	W/B	–
94	W/R	–

Connector No.	B628
Connector Name	CLIMATE CONTROLLED SEAT CONTROL UNIT (PASSENGER SIDE)
Connector Type	Delphi: 15394150

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
95	R/L	–
96	R/W	–
97	R	–
98	L	–
99	L/W	–
100	GR	–
101	GR/R	–
102	V	–
103	BR	–
104	V/W	–
105	LG	–

Connector No.	B631
Connector Name	WIRE TO WIRE
Connector Type	NS10MW-CS

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
85	G	–
88	G/R	–
104	V/W	–
105	LG	–

Connector No.	B632
Connector Name	WIRE TO WIRE
Connector Type	NS10FW-CS

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
85	G	–
88	G/R	–
104	V/W	–
105	LG	–

JCJWA0999GB

CLIMATE CONTROLLED SEAT

Connector No.	B633
Connector Name	WIRE TO WIRE
Connector Type	NS12MBR-CS

Terminal No.	Color of Wire	Signal Name [Specification]
96	R/W	–
98	L	–
99	L/W	–

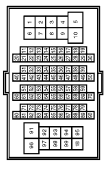
Connector No.	B634
Connector Name	WIRE TO WIRE
Connector Type	NS12FBR-CS

Terminal No.	Color of Wire	Signal Name [Specification]
96	R/W	–
98	L	–
99	L/W	–

Connector No.	E20
Connector Name	CLIMATE CONTROLLED SEAT RELAY
Connector Type	M06FBR-R-US

Terminal No.	Color of Wire	Signal Name [Specification]
1	B	–
2	W	–
3	G	–
5	BR	–
6	L	–
7	O	–

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
91	B/W	–
93	L	–
94	W	– [With climate controlled seat]
95	B	–
97	G	–

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS06FW-M2

Terminal No.	Color of Wire	Signal Name [Specification]
2A	G	–

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

Terminal No.	Color of Wire	Signal Name [Specification]
91	G	–
93	L	–
94	G	– [With climate controlled seat]
95	B	–
97	Y	– [With climate controlled seat]

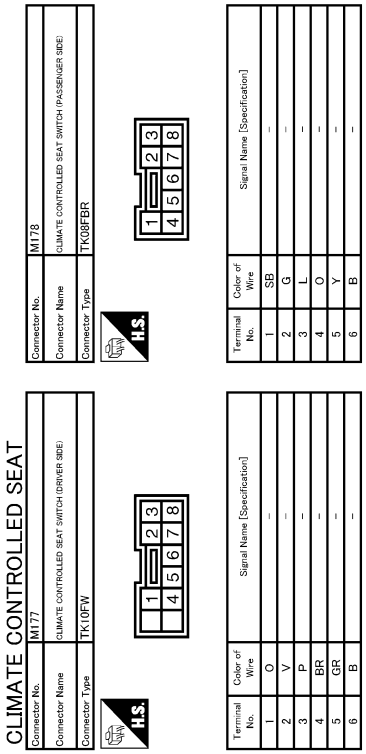
Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

Terminal No.	Color of Wire	Signal Name [Specification]
6	B	–
9	L	–
34	O	–
35	GR	–
36	BR	–
37	P	– [With climate controlled seat]
38	V	– [With climate controlled seat]

Connector No.	M117
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	–
7	G	–
51	SB	–
52	O	–
53	L	–
54	G	–
55	Y	–

JCJWA1000GB



JCJWA1001GB

Fail-safe

INFOID:0000000004747435

- Climate controlled seat control unit equips fail-safe function.
- When a malfunction occurs in the systems shown below, climate controlled seat control unit stops output.

Malfunction	Malfunctioning condition
The temperature difference between the seatback thermal electric device and seat cushion thermal electric device is more than 30°C	• When it detects for 4 seconds that the temperature difference between the seatback thermal electric device and seat cushion thermal electric device is more than 30°, it stops the output to the thermal electric device, activates the climate controlled seat blower motor at the maximum position, and sends the external airflow for 30 seconds • If the temperature difference is still more than 30°C after 30 seconds pass, it stops all output and enters the system OFF condition • When the temperature difference between seatback thermal electric device and seat cushion thermal electric device becomes less than 20°C, the system recovers automatically • If it detects that the temperature difference is more than 30°C after the automatic system recovery, it immediately stops all output and enters the system OFF condition **NOTE:** When the switch operation is performed before entering the system OFF condition, the fail-safe mode is reset.
The temperature of thermal electric device is more than 110°C in the HEAT mode (any thermal electric device in the seatback or seat cushion)	• When it detects for 4 seconds that the temperature of the thermal electric device is more than 110°C, it stops the output to the thermal electric device, activates the climate controlled seat blower motor at the maximum position, and sends the external airflow for 30 seconds • If the temperature does not become less than 105°C after 30 seconds pass, it stops all output and enters the system OFF condition • When the temperature of the thermal electric device becomes less than 105°C, the system recovers automatically • If it detects that the temperature of the thermal electric device is more than 110°C after the automatic system recovery, it immediately stops all output and enters the system OFF condition
The temperature of the thermal electric device is more than 45°C in the COOL mode (any thermal electric device in the seatback or seat cushion)	• When it detects for 4 seconds that the temperature of the thermal electric device is more than 45°C and less than 70°C, it starts the temperature monitoring of the thermal electric device at 3 second intervals • While monitoring, if it detects that the temperature continuously rises 2°C or more 4 times or reaches 70°C or more, it stops all output and enters the system OFF condition • If it detects other results of monitoring, it continues activating in the COOL mode
Thermal electric device sensor open circuit (in either the back and the cushion TED)	• When it detects for 4 seconds that the thermal electric device sensor is an open circuit, it stops all output and enters the system OFF condition
Climate controlled seat blower motor system open circuit (in either the back and the cushion blower)	• When it detects for 2 seconds that climate controlled seat blower motor is an open circuit while the climate controlled seat is being activated, and the battery status has been stable for the same 2 second period. it stops output to the thermal electric device • When it detects for 10 seconds that the climate controlled seat blower motor is an open circuit while the climate controlled seat is being activated, and the battery status has been stable for the same 10second period. it stops all output and enters the system OFF condition **NOTE:** After detecting the climate seat blower motor system open circuit for 2 seconds, the system recovers automatically if the activation of the climate controlled seat blower motor is detected for 1 second or more.
Switch input out of the specified range (either heat input or cool input)	• When it detects for 4 seconds that the rotary switch input is less than 30% of the vehicle battery voltage, it stops all output and enters the system OFF condition • When the switch input returns to a value within the specified range, the system recovers automatically

Malfunction	Malfunctioning condition
HEAT or COOL switch input out of the specified range	• During the standby mode, heating or cooling states, if the rotary switch input is 6% or less of the vehicle battery voltage, it stops all output and enters the system OFF condition • When the switch input returns to a value within the specified range, the system recovers automatically
System voltage out of range	• If the system voltage at the climate controlled seat control unit falls outside of the 8.5 to 16.5 V operating range, it stops all output after a 500ms time period. • When the system voltage returns to the normal operating range (10.5-15.5V with a 500ms hysteresis), the system recovers automatically.

*: System voltage is the voltage between the climate controlled seat control unit power source and ground.

NOTE:

When the ignition status changes to OFF during the fail-safe mode, the control unit shall enter the OFF condition. If the ignition is turned ON, the system shall return to the standby mode. If the system enters in the fail-safe mode again after performing ignition cycle, start the diagnosis.

SYMPTOM DIAGNOSIS

ALL COMPONENTS OF POWER SEAT DO NOT OPERATE

DRIVER SIDE

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000004746992

1. CHECK POWER SUPPLY CIRCUIT AND GROUND CIRCUIT

Check power supply circuit and ground circuit.
Refer to SE-39, "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-67, "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-36, "Intermittent Incident".
NO >> GO TO 1.

PASSENGER SIDE

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000004746993

1. CHECK POWER SUPPLY AND GROUND CIRCUIT

Check power supply and ground circuit.
Refer to SE-39, "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-67, "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-36, "Intermittent Incident".
NO >> GO TO 1.

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

Diagnosis Procedure

INFOID:0000000004746994

1.CHECK POWER SEAT SWITCH GROUND CIRCUIT

Check power seat switch ground circuit.
Refer to SE-67, "PASSENGER SIDE : Diagnosis Procedure".

Is the inspection result normal?

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

2.CONFIRM THE OPERATION

Check the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-36, "Intermittent Incident".
NO >> GO TO 1.

SLIDING FUNCTION DOES NOT OPERATE

DRIVER SIDE

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000004746995

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-49, "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-92, "DRIVER SIDE : Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Repair or replace the malfunctioning parts.

4. CONFIRM THE OPERATION

Check the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-36, "Intermittent Incident".
NO >> GO TO 1.

PASSENGER SIDE

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000004746996

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-93, "PASSENGER SIDE : Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Repair or replace the malfunctioning parts.

4. CHECK SLIDING SWITCH (SEATBACK)

Check sliding switch (seatback).
Refer to SE-52, "SEATBACK : Component Function Check".

Is the inspection result normal?

YES >> GO TO 6.
NO >> Repair or replace the malfunctioning parts.

5. CHECK SLIDING SWITCH

Check sliding switch.
Refer to SE-50, "PASSENGER SIDE : Component Function Check".

Is the inspection result normal?

YES >> GO TO 6.
NO >> Repair or replace the malfunctioning parts.

6. CONFIRM THE OPERATION

Check the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-36, "Intermittent Incident".
NO >> GO TO 1.

RECLINING FUNCTION DOES NOT OPERATE

DRIVER SIDE

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000004746997

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-55, "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-69, "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-95, "DRIVER SIDE : Component_Function_Check".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace the malfunctioning parts.

5. CONFIRM THE OPERATION

Check the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-36, "Intermittent Incident".
NO >> GO TO 1.

PASSENGER SIDE

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000004746998

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-56, "PASSENGER 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-70, "PASSENGER SIDE : Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Repair or replace the malfunctioning parts.

4. CHECK RECLINING MOTOR

Check reclining motor.
Refer to SE-96, "PASSENGER SIDE : Component Function Check".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace the malfunctioning parts.

5. CONFIRM THE OPERATION

Check the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-36, "Intermittent Incident".
NO >> GO TO 1.

LIFTING FUNCTION DOES NOT OPERATE

FRONT

FRONT : Diagnosis Procedure

INFOID:0000000004746999

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-59, "DRIVER SIDE : Component Function Check".
- Passenger side: Refer to SE-60, "PASSENGER SIDE : Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace the malfunctioning parts.

3.CHECK LIFTING MOTOR (FRONT)

Check lifting motor (front).
- Driver side: Refer to SE-97, "DRIVER SIDE : Component Function Check".
- Passenger side: Refer to SE-98, "PASSENGER SIDE : Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Repair or replace the malfunctioning parts.

4.CONFIRM THE OPERATION

Check the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-36, "Intermittent Incident".
NO >> GO TO 1.

REAR

REAR : Diagnosis Procedure

INFOID:0000000004747000

1.CHECK LIFTING MECHANISM

Check for the following.
- Mechanism deformation or pinched foreign materials.
- Interference with other parts because of poor installation.

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 SE-63, "DRIVER SIDE : Component Function Check".
- Passenger side: Refer to SE-64, "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 (REAR)

Check lifting motor (rear).

- Driver side: Refer to SE-99, "DRIVER SIDE : Component Function Check".
- Passenger side: Refer to SE-100, "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-36, "Intermittent Incident".
NO >> GO TO 1.

POWER WALK-IN FUNCTION DOES NOT OPERATE
DRIVER SIDE

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000004747001

1.CHECK SEAT SLIDING OPERATION

Check seat sliding operation.

Is the inspection result normal?

YES >> GO TO 2.
NO >> Refer to SE-191, "DRIVER SIDE : Diagnosis Procedure".

2.PERFORM INITIALIZATION PROCEDURE

1. Perform initialization procedure.
   Refer to SE-9, "SYSTEM INITIALIZATION : Special Repair Requirement".
2. Check power walk-in function.
   Refer to SE-12, "POWER WALK-IN FUNCTION : System Description".

Is the inspection result normal?

YES >> Power walk-in function is normal.
NO >> GO TO 3.

3.CHECK POWER WALK-IN SWITCH

Check power walk-in switch.
Refer to SE-81, "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-73, "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-69, "DRIVER SIDE : Component Function Check".

Is the inspection result normal?

YES >> GO TO 6.
NO >> Repair or replace the malfunctioning parts.

6.CHECK SLIDING LIMIT SWITCH

Check sliding limit switch.
Refer to SE-77, "DRIVER SIDE : Component Function Check".

Is the inspection result normal?

YES >> GO TO 7.
NO >> Repair or replace the malfunctioning parts.

7.CHECK DRIVER SIDE DOOR SWITCH

Check driver side door switch.
Refer to SE-85, "Component Function Check"

Is the inspection result normal?

YES >> GO TO 8.
NO >> Repair or replace the malfunctioning parts.

8.CHECK SLIDING SENSOR

Check sliding sensor.
Refer to SE-87, "DRIVER SIDE : Component Function Check".

Is the inspection result normal?

YES >> GO TO 9.
NO >> Repair or replace the malfunctioning parts.

9. CONFIRM THE OPERATION

Check the operation again.
Refer to SE-12, "POWER WALK-IN FUNCTION : System Description".

Is the result normal?

YES >> Check intermittent incident. Refer to GI-36, "Intermittent Incident".
NO >> Replace driver seat control unit. Refer to SE-248, "Removal and Installation".

PASSENGER SIDE

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000004747002

1. CHECK SEAT SLIDING OPERATION

Check seat sliding operation.

Is the inspection result normal?

YES >> GO TO 2.
NO >> Refer to SE-191, "PASSENGER SIDE : Diagnosis Procedure".

2. PERFORM INITIALIZATION PROCEDURE

1. Perform initialization procedure.
   Refer to SE-9, "SYSTEM INITIALIZATION : Special Repair Requirement".
2. Check power walk-in function.
   Refer to SE-12, "POWER WALK-IN FUNCTION : System Description".

Is the inspection result normal?

YES >> Power walk-in function is normal.
NO >> GO TO 3.

3. CHECK POWER WALK-IN SWITCH

Check power walk-in switch.
Refer to SE-82, "PASSENGER SIDE : Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Repair or replace the malfunctioning parts.

4. CHECK SEAT BELT BUCKLE SWITCH

Check seat belt buckle switch.
Refer to SE-74, "PASSENGER SIDE : Component Function Check".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace the malfunctioning parts.

5. CHECK FORWARD SWITCH

Check forward switch.
Refer to SE-70, "PASSENGER SIDE : Component Function Check".

Is the inspection result normal?

YES >> GO TO 6.
NO >> Repair or replace the malfunctioning parts.

6. CHECK SLIDING LIMIT SWITCH

Check sliding limit switch.
Refer to SE-78, "PASSENGER SIDE : Component Function Check".

Is the inspection result normal?

YES >> GO TO 7.
NO >> Repair or replace the malfunctioning parts.

7.CHECK PASSENGER SIDE DOOR SWITCH

Check passenger side door switch.
Refer to SE-85, "Component Function Check"

Is the inspection result normal?

YES >> GO TO 8.
NO >> Repair or replace the malfunctioning parts.

8.CHECK SLIDING SENSOR

Check sliding sensor.
Refer to SE-87, "DRIVER SIDE : Component Function Check".

Is the inspection result normal?

YES >> GO TO 9.
NO >> Repair or replace the malfunctioning parts.

9.CONFIRM THE OPERATION

Check the operation again.
Refer to SE-12, "POWER WALK-IN FUNCTION : System Description".

Is the result normal?

YES >> Check intermittent incident. Refer to GI-36, "Intermittent Incident".
NO >> Replace passenger seat control unit. Refer to SE-249, "Removal and Installation".

HEATED SEAT DOES NOT OPERATE

BOTH SIDES

BOTH SIDES : Diagnosis Procedure

INFOID:0000000004747003

1.CHECK HEATED SEAT SWITCH POWER SUPPLY

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

Is the inspection result normal?

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

2.CHECK HEATED SEAT RELAY

Check heated seat relay.
Refer to SE-105, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace the malfunctioning parts.

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

Check heated seat switch power supply and ground circuit.
Refer to SE-41, "HEATED SEAT CONTROL UNIT : Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Repair or replace the malfunctioning parts.

4.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-36, "Intermittent Incident".
NO >> GO TO 1.

DRIVER SIDE

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000004747004

1.CHECK HEATED SEAT SWITCH POWER SUPPLY

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

Is the inspection result normal?

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

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

Check heated seat switch power supply and ground circuit.
Refer to SE-41, "HEATED SEAT CONTROL UNIT : Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace the malfunctioning parts.

3.CHECK HEATED SEAT SWITCH

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

Is the inspection result normal?

YES >> GO TO 4.
NO >> Repair or replace the malfunctioning parts.

4.CHECK SEAT CUSHION HEATER

Check seat cushion heater.
Refer to SE-112, "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-36, "Intermittent Incident".
NO >> GO TO 1.

PASSENGER SIDE

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000004747005

1.CHECK HEATED SEAT SWITCH POWER SUPPLY

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

Is the inspection result normal?

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

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

Check heated seat switch power supply and ground circuit.
Refer to SE-41, "HEATED SEAT CONTROL UNIT : Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace the malfunctioning parts.

3.CHECK HEATED SEAT SWITCH

Check heated seat switch.
Refer to SE-102, "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-113, "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-36, "Intermittent Incident".
NO >> GO TO 1.

SEATBACK HEATER ONLY DOES NOT OPERATE

DRIVER SIDE

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000004747006

1.CHECK SEATBACK HEATER

Check seatback heater.
Refer to SE-116, "DRIVER SIDE : Component_Function_Check".

Is the inspection result normal?

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

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-36, "Intermittent Incident".
NO >> GO TO 1.

PASSENGER SIDE

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000004747007

1.CHECK SEATBACK HEATER

Check seatback heater.
Refer to SE-116, "PASSENGER SIDE : Component_Function_Check".

Is the inspection result normal?

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

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-36, "Intermittent Incident".
NO >> GO TO 1.

CANNOT ADJUST HEATED SEAT TEMPERATURE

DRIVER SIDE

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000004747008

1. CHECK HEATED SEAT SWITCH

Check heated seat switch.
Refer to SE-101, "DRIVER SIDE : Component_Function_Check".

Is the inspection result normal?

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

2. CHECK HEAT SENSOR

Check heat sensor.
Refer to SE-107, "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-36, "Intermittent Incident".
NO >> Replace heated seat control unit. Refer to SE-250, "Removal and Installation".

PASSENGER SIDE

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000004747009

1. CHECK HEATED SEAT SWITCH

Check heated seat switch.
Refer to SE-102, "PASSENGER SIDE : Component_Function_Check".

Is the inspection result normal?

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

2. CHECK HEAT SENSOR

Check heat sensor.
Refer to SE-109, "PASSENGER SIDE : Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace the malfunctioning parts.

3. CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-36, "Intermittent Incident".
NO >> Replace heated seat control unit. Refer to SE-250, "Removal and Installation".

HEATED SEAT SWITCH INDICATOR DOES NOT TURN ON DRIVER SIDE

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000004747010

1.CHECK HEATED SEAT SWITCH INDICATOR

Check heated seat switch indicator.
Refer to SE-118, "DRIVER SIDE : Component Function Check".

Is the inspection result normal?

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

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-36, "Intermittent Incident".
NO >> GO TO 1.

PASSENGER SIDE

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000004747011

1.CHECK HEATED SEAT SWITCH INDICATOR

Check heated seat switch indicator.
Refer to SE-118, "PASSENGER SIDE : Component Function Check".

Is the inspection result normal?

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

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-36, "Intermittent Incident".
NO >> GO TO 1.

CLIMATE CONTROLLED SEAT DOES NOT OPERATE.
DRIVER SIDE

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000005116269

Both sides

1.CHECK CLOMATE CONTROLLED SEAT CONTROL UNIT POWER SUPPLY CIRCUIT

Check climate controlled seat control unit power supply circuit.
Refer to SE-44, "CLIMATE CONTROLLED SEAT CONTROL UNIT : Diagnosis Procedure".

Is the inspection result normal?

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

2.CHECK CLIMATE CONTROLLED SEAT SWITCH

Check climate controlled seat switch.
Refer to SE-120, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer toGI-36, "Intermittent Incident".
NO >> GO TO 1.

seatback

1.CHECK CLIMATE CONTROLLED SEATBACK BLOWER MOTOR

Check climate controlled seatback blower motor.
Refer to SE-131, "Component Function Check".

Is the inspection result normal?

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

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer toGI-36, "Intermittent Incident".
NO >> GO TO 1.

seat cushion

1.CHECK CLIMATE CONTROLLED SEAT CUSHION BLOWER MOTOR

Check climate controlled seat cushion blower motor.
Refer to SE-134, "Component Function Check".

Is the inspection result normal?

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

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer toGI-36, "Intermittent Incident".
NO >> GO TO 1.

PASSENGER SIDE

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000005116270

Both sides

1.CHECK CLIMATE CONTROLLED SEAT CONTROL UNIT POWER SUPPLY AND GROUND CIRCUIT

Check climate controlled seat control unit power supply circuit.
Refer to SE-44, "CLIMATE CONTROLLED SEAT CONTROL UNIT : Diagnosis Procedure".

Is the inspection result normal?

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

2.CHECK CLIMATE CONTROLLED SEAT SWITCH

Check climate controlled seat switch.
Refer to SE-120, "Component_Function_Check".

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-36, "Intermittent Incident".
NO >> GO TO 1.

Seatback

1.CHECK CLIMATE CONTROLLED SEATBACK BLOWER MOTOR

Check climate controlled seatback blower motor.
Refer to SE-131, "Component_Function_Check".

Is the inspection result normal?

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

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-36, "Intermittent Incident".
NO >> GO TO 1.

Seat cushion

1.CHECK CLIMATE CONTROLLED SEAT CUSHION BLOWER MOTOR

Check climate controlled seat cushion blower motor.
Refer to SE-134, "Component_Function_Check".

Is the inspection result normal?

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

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-36, "Intermittent Incident".
NO >> GO TO 1.

TEMPERATURE ADJUSTMENT IS IMPOSSIBLE

SEAT CUSHION BLOWER MOTOR

SEAT CUSHION BLOWER MOTOR : Description

INFOID:0000000005116271

Blower fan motor noise is constant though performing temperature adjustment operation.

NOTE:

When turning climate controlled seat switch ON, blower fan motor may stay in the low speed operation for approximately 60 seconds.But this is not a malfunction.

SEAT CUSHION BLOWER MOTOR : Diagnosis Procedure

INFOID:0000000005116272

1.CHECK CLIMATE CONTROLLED SEATBACK BLOWER FILTER

Check climate controlled seatback blower filter.

Refer to SE-139, "SEATBACK BLOWER MOTOR : Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK CLIMATE CONTROLLED SEAT SWITCH

Check climate controlled seat switch.

Refer to SE-120, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK CLIMATE CONTROLLED SEATBACK BLOWER MOTOR

Check climate controlled seatback blower motor.

Refer to SE-131, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-36, "Intermittent Incident".

NO >> GO TO 1.

SEAT CUSHION BLOWER MOTOR

SEAT CUSHION BLOWER MOTOR : Description

INFOID:0000000005116300

Blower fan motor noise is constant though performing temperature adjustment operation.

NOTE:

When turning climate controlled seat switch ON, blower fan motor may stay in the low speed operation for approximately 60 seconds.But this is not a malfunction.

SEAT CUSHION BLOWER MOTOR : Diagnosis Procedure

INFOID:0000000005116301

1.CHECK CLIMATE CONTROLLED SEAT CUSHION BLOWER FILTER

Check climate controlled seat cushion blower filter.

Refer to SE-139, "SEAT CUSHION BLOWER MOTOR : Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK CLIMATE CONTROLLED SEAT SWITCH

Check climate controlled seat switch.
Refer to SE-120, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace the malfunctioning parts.

3. CHECK CLIMATE CONTROLLED SEAT CUSHION BLOWER MOTOR

Check climate controlled seat cushion blower motor.
Refer to SE-134, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Repair or replace the malfunctioning parts.

4. CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-36, "Intermittent Incident".
NO >> GO TO 1.

CLIMATE CONTROLLED SEAT DOES NOT OPERATES WHEN SWITCH IS DONE IN HEAT OR COOL.

Diagnosis Procedure

INFOID:0000000005116273

1.CHECK CLIMATE CONTROLLED SEAT SWITCH

Check climate controlled seat switch.
Refer to SE-120, "Component Function Check".

Is the inspection result normal?

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

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-36, "Intermittent Incident".
NO >> GO TO 1.

CLIMATE CONTROLLED SEAT ACTIVATES ONCE BUT STOPS IMMEDIATELY

SEATBACK BLOWER MOTOR

SEATBACK BLOWER MOTOR : Description

INFOID:0000000005116274

When turning climate controlled seat switch ON (COOL or HEAT), climate controlled seat activates once but stops immediately.(Repeats the same operation when turning ignition switch OFF and turning ignition switch ON again.)

SEATBACK BLOWER MOTOR : Diagnosis Procedure

INFOID:0000000005116275

1.CHECK CLIMATE CONTROLLED SEATBACK BLOWER FILTER

Check climate controlled seatback blower filter.
Refer to SE-139, "SEATBACK BLOWER MOTOR : Diagnosis Procedure".

Is the inspection result normal?

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

2.CHECK SEATBACK THERMAL ELECTRIC DEVICE SENSOR

Check seatback thermal electric device sensor.
Refer to SE-125, "Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace the malfunctioning parts.

3.CHECK SEATBACK THERMAL ELECTRIC DEVICE

Check seatback thermal electric device.
Refer to SE-123, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Repair or replace the malfunctioning parts.

4.CHECK CLIMATE CONTROLLED SEATBACK BLOWER MOTOR

Check climate controlled seatback blower motor.
Refer to SE-131, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace the malfunctioning parts.

5.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-36, "Intermittent Incident".
NO >> GO TO 1.

SEAT CUSHION BLOWER MOTOR

SEAT CUSHION BLOWER MOTOR : Description

INFOID:0000000005116322

When turning climate controlled seat switch ON (COOL or HEAT), climate controlled seat activates once but stops immediately.(Repeats the same operation when turning ignition switch OFF and turning ignition switch ON again.)

SEAT CUSHION BLOWER MOTOR : Diagnosis Procedure

INFOID:0000000005116323

1.CHECK CLIMATE CONTROLLED SEAT CUSHION BLOWER FILTER

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

Is the inspection result normal?

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

2. CHECK SEAT CUSHION THERMAL ELECTRIC DEVICE SENSOR

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

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace the malfunctioning parts.

3. CHECK SEAT CUSHION THERMAL ELECTRIC DEVICE

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

Is the inspection result normal?

YES >> GO TO 4.
NO >> Repair or replace the malfunctioning parts.

4. CHECK CLIMATE CONTROLLED SEAT CUSHION BLOWER MOTOR

Check climate controlled seat cushion blower motor.
Refer to SE-134, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace the malfunctioning parts.

5. CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-36, "Intermittent Incident".
NO >> GO TO 1.

SEAT SWITCH INDICATOR IS NOT ILLUMINATED IN HEAT OR COOL POSITION

Diagnosis Procedure

INFOID:0000000005116276

1.CHECK CLIMATE CONTROLLED SEAT SWITCH INDICATOR

Check climate controlled seat indicator.
Refer to SE-137, "Component Function Check".

Is the inspection result normal?

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

2.CONFIRM THE OPERATION

Confirm the operation again.

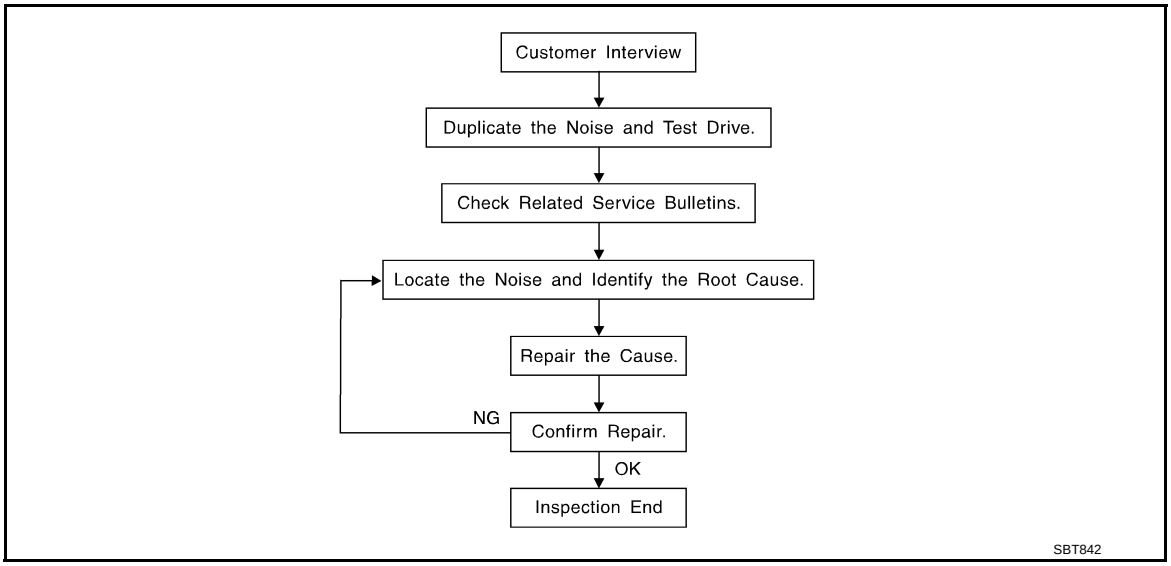
Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-36, "Intermittent Incident".
NO >> GO TO 1.

SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow

INFOID:0000000004747012



CUSTOMER INTERVIEW

Interview the customer if possible, to determine the conditions that exist when the noise occurs. Use the Diagnostic Worksheet during the interview to document the facts and conditions when the noise occurs and any of customer's comments; refer to SE-217, "Diagnostic Worksheet". This information is necessary to duplicate the conditions that exist when the noise occurs.

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

DUPLICATE THE NOISE AND TEST DRIVE

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

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

1) Close a door.
2) Tap or push/pull around the area where the noise appears to be coming from.
3) Rev the engine.
4) Use a floor jack to recreate vehicle “twist”.
5) At idle, apply engine load (electrical load, half-clutch on M/T models, drive position on A/T models).
6) Raise the vehicle on a hoist and hit a tire with a rubber hammer.

- Drive the vehicle and attempt to duplicate the conditions the customer states exist when the noise occurs.
- If it is difficult to duplicate the noise, drive the vehicle slowly on an undulating or rough road to stress the vehicle body.

CHECK RELATED SERVICE BULLETINS

After verifying the customer concern or symptom, check ASIST for Technical Service Bulletins (TSBs) related to that concern or symptom.
If a TSB relates to the symptom, follow the procedure to repair the noise.

LOCATE THE NOISE AND IDENTIFY THE ROOT CAUSE

1. Narrow down the noise to a general area. To help pinpoint the source of the noise, use a listening tool (Chassis ear: J-39570, Engine ear and mechanics stethoscope).
2. Narrow down the noise to a more specific area and identify the cause of the noise by:

- Removing the components in the area that is are suspected to be the cause of the noise.
  Do not use too much force when removing clips and fasteners, otherwise clips and fastener can be broken or lost during the repair, resulting in the creation of new noise.
- Tapping or pushing/pulling the component that is are suspected to be the cause of the noise.
  Do not tap or push/pull the component with excessive force, otherwise the noise will be eliminated only temporarily.
- Feeling for a vibration by hand by touching the component(s) that is are suspected to be the cause of the noise.
- Placing a piece of paper between components that are suspected to be the cause of the noise.
- Looking for loose components and contact marks.
  Refer to SE-215, "Inspection Procedure".

REPAIR THE CAUSE

- If the cause is a loose component, tighten the component securely.
- If the cause is insufficient clearance between components:

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

CAUTION:
Never use excessive force as many components are constructed of plastic and may be damaged.
NOTE:
Always check with the Parts Department for the latest parts information.
The following materials are contained in the Nissan Squeak and Rattle Kit (J-43980). Each item can be ordered separately as needed.
URETHANE PADS [1.5 mm (0.059 in) thick]
Insulates connectors, harness, etc.
76268-9E005: 100 × 135 mm (3.94 × 5.31 in)/76884-71L01: 60 × 85 mm (2.36 × 3.35 in)/76884-71L02:15 × 25 mm (0.59 × 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 × 1.97 in)/73982-50Y00: 10 mm (0.39 in) thick, 50 × 50 mm (1.97 × 1.97 in)
INSULATOR (Light foam block)
80845-71L00: 30 mm (1.18 in) thick, 30 × 50 mm (1.18 × 1.97in)
FELT CLOTHTAPE
Used to insulate where movement does not occur. Ideal for instrument panel applications.
68370-4B000: 15 × 25 mm (0.59 × 0.98 in) pad/68239-13E00: 5 mm (0.20 in) wide tape roll
The following materials, not found in the kit, can also be used to repair squeaks and rattles.
UHMW (TEFLON) TAPE

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:0000000004747013

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

INSTRUMENT PANEL

Most incidents are caused by contact and movement between:

1. The cluster lid A and instrument panel
2. Acrylic lens and combination meter housing
3. Instrument panel to front pillar garnish
4. Instrument panel to windshield
5. Instrument panel mounting pins
6. Wiring harnesses behind the combination meter
7. A/C defroster duct and duct joint
   These incidents can usually be located by tapping or moving the components to duplicate the noise or by pressing on the components while driving to stop the noise. Most of these incidents can be repaired by applying felt cloth tape or silicon spray (in hard to reach areas). Urethane pads can be used to insulate wiring harness.
   CAUTION:
   Never use silicone spray to isolate a squeak or rattle. If the area is saturated with silicone, the recheck of repair becomes impossible.

CENTER CONSOLE

Components to pay attention to include:

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

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

DOORS

Pay attention to the following:

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

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

TRUNK

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

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

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

SUNROOF/HEADLINING

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

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

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

SEATS

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

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

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

UNDERHOOD

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

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

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

Diagnostic Worksheet

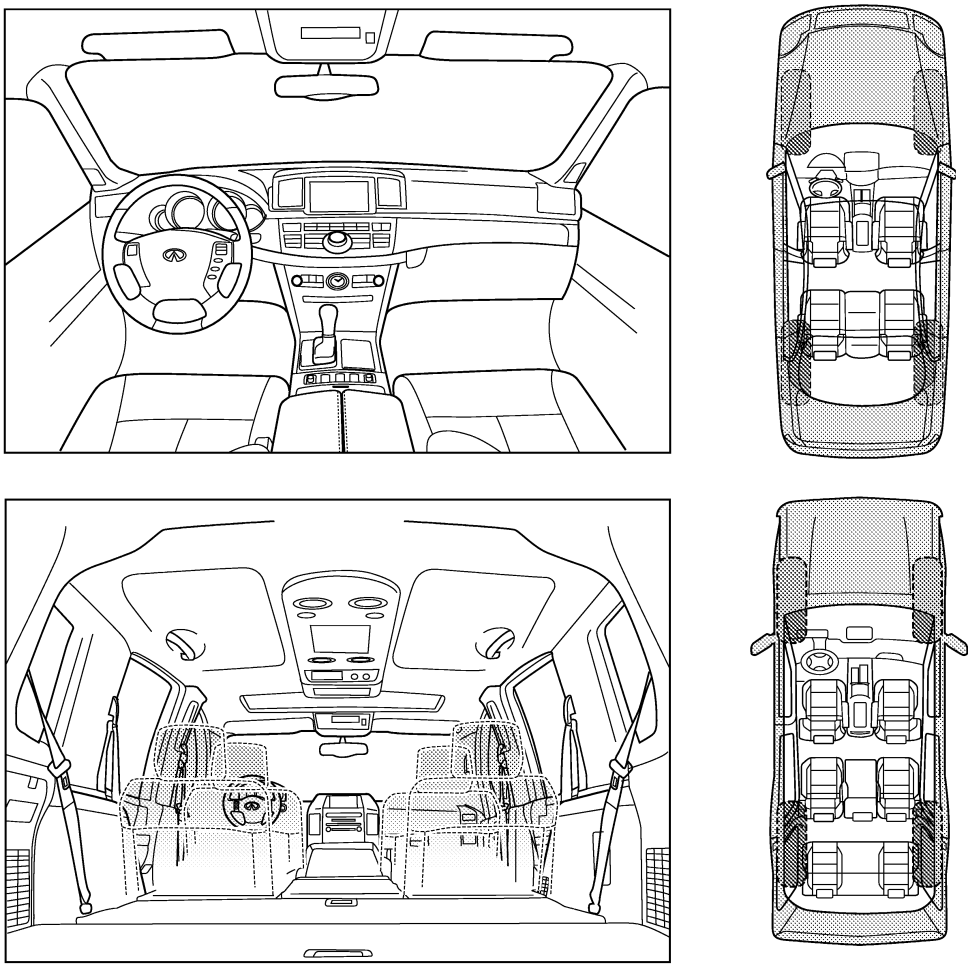
INFOID:0000000004747014

INFINITI

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.

PIIB8741E

SQUEAK & RATTLE DIAGNOSTIC WORKSHEET - page 2

Briefly describe the location where the noise occurs:

_____

_____

II. WHEN DOES IT OCCUR? (please check the boxes that apply)

- ☐ anytime
- ☐ 1st time in the morning
- ☐ only when it is cold outside
- ☐ only when it is hot outside
- ☐ after sitting out in the rain
- ☐ when it is raining or wet
- ☐ dry or dusty conditions
- ☐ other:

III. WHEN DRIVING:

- ☐ through driveways
- ☐ over rough roads
- ☐ over speed bumps
- ☐ only about ____ mph
- ☐ on acceleration
- ☐ coming to a stop
- ☐ on turns: left, right or either (circle)
- ☐ with passengers or cargo
- ☐ other: _____
- ☐ after driving _____ miles or _____ minutes

IV. WHAT TYPE OF NOISE

- ☐ squeak (like tennis shoes on a clean floor)
- ☐ creak (like walking on an old wooden floor)
- ☐ rattle (like shaking a baby rattle)
- ☐ knock (like a knock at the door)
- ☐ tick (like a clock second hand)
- ☐ thump (heavy, muffled knock noise)
- ☐ buzz (like a bumble bee)

TO BE COMPLETED BY DEALERSHIP PERSONNEL

Test Drive Notes:

_____

_____

_____

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

VIN: _____ Customer Name: _____

W.O.# _____ Date: _____

This form must be attached to Work Order

PIIB8742E

PRECAUTION

PRECAUTIONS

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

INFOID:0000000005157960

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

WARNING:

- **To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.**
- **Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the “SRS AIR BAG”.**
- **Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.**

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

WARNING:

- **When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.**
- **When using air or electric power tools or hammers, always switch the ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.**

Service Procedure Precautions for Models with a Pop-up Roll Bar

INFOID:0000000005157961

WARNING:

- **Risk of passenger injury or death may increase if the pop-up roll bar does not deploy during a roll over collision. In order to reduce the chance of an incident where the pop-up roll bar is inoperative, all maintenance must be performed by a NISSAN or INFINITI dealer.**
- **Before removing and installing the pop-up roll bar component parts and harness, always turn the ignition switch OFF, disconnect the battery negative terminal, and wait for 3 minutes or more. (The purpose of this operation is to discharge electricity that is accumulated in the auxiliary power supply circuit in the air bag diagnosis sensor unit.)**
- **When repairing, removing, and installing a pop-up roll bar, always refer to SRS AIR BAG and SRS AIR BAG CONTROL warnings in the Service Manual.**

Precaution for Battery Service

INFOID:0000000005157962

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

Service Notice

INFOID:0000000004747017

- 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

INFOID:0000000004747018

- When removing or disassembling each component, be careful not to damage or deform it. If a component may be subject to interference, be sure to protect it with a shop cloth.
- When removing (disengaging) components with a screwdriver or similar tool, be sure to wrap the component with a shop cloth or vinyl tape to protect it.
- Protect the removed parts with a shop cloth and keep them.
- Replace a deformed or damaged clip.
- If a part is specified as a non-reusable part, always replace it with new one.
- Be sure to tighten bolts and nuts securely to the specified torque.
- After re-installation is completed, be sure to check that each part works normally.
- Follow the steps below to clean components.

- Water soluble foul: Dip a soft cloth into lukewarm water, and wring the water out of the cloth to wipe the fouled area.
  Then rub with a soft and dry cloth.
- Oily foul: Dip a soft cloth into lukewarm water with mild detergent (concentration: within 2 to 3%), and wipe the fouled area.
  Then dip a cloth into fresh water, and wring the water out of the cloth to wipe the detergent off. Then rub with a soft and dry cloth.

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

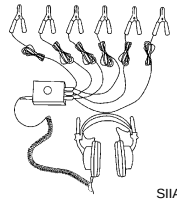
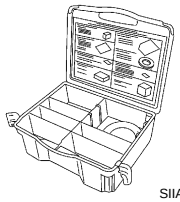
PREPARATION

PREPARATION

Special Service Tool

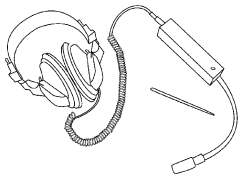
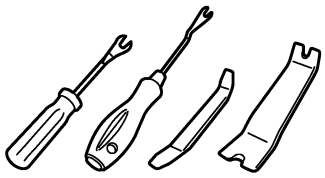
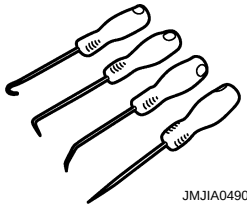
INFOID:0000000004747019

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

Tool number (Kent-Moore No.) Tool name	Description
(J39570) Chassis ear  SIIA0993E	Locates the noise
(J43980) NISSAN Squeak and Rattle Kit  SIIA0994E	Repairs the cause of noise

Commercial Service Tool

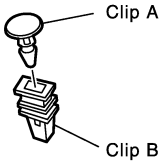
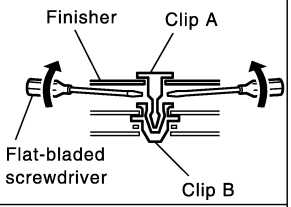
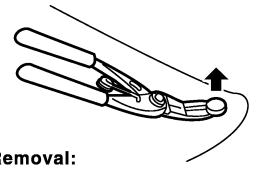
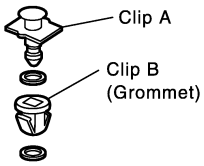
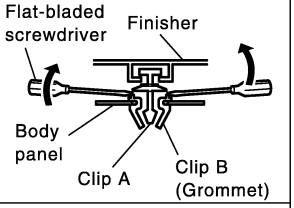
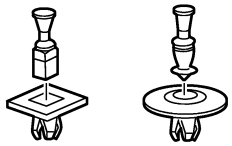
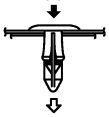
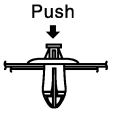
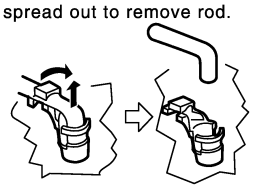
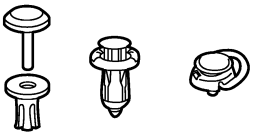
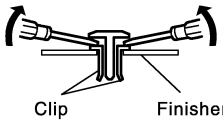
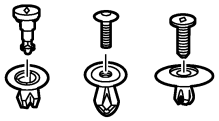
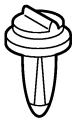
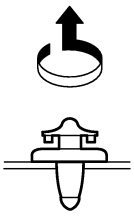
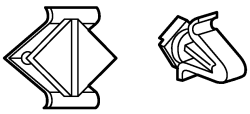
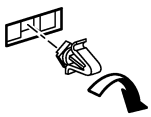
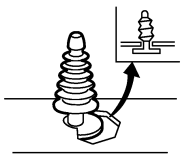
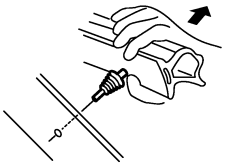
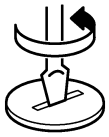
INFOID:0000000004747020

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

CLIP LIST

Clip List

INFOID:0000000006053020

Shapes	Removal & Installation	Shapes	Removal & Installation
	**Removal:** Remove by bending up with flat-bladed screwdrivers or clip remover. 		**Removal:** 
	 **Removal:** Remove with a clip remover.		**Removal:** 
	**Removal:** Push center pin to catching position. (Do not remove center pin by hitting it.)  **Installation:** 		**Removal:** Holder portion of clip must be spread out to remove rod. 
	**Removal:** Remove by bending up with flat-bladed screwdrivers or clip remover. 		**Removal:** 1. Screw out with a Phillips screwdriver. 2. Remove female portion with flat-bladed screwdriver. 
	**Removal:** 		**Removal:**  **Removal:**  **Installation:** 
	**Removal:** 		**Removal:** 

JMJIA3734GB

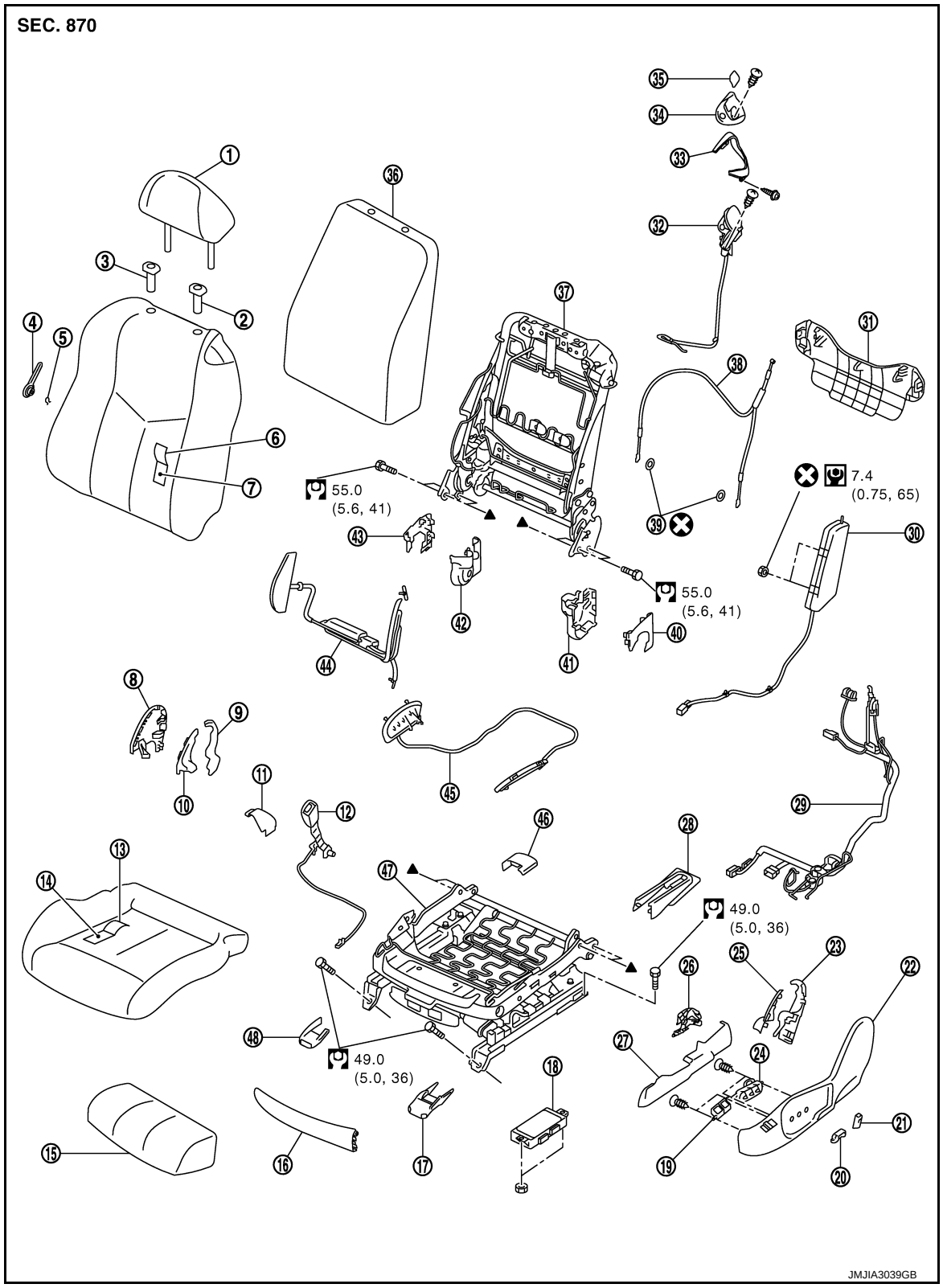
REMOVAL AND INSTALLATION

FRONT SEAT

Exploded View

INFOID:0000000004747021

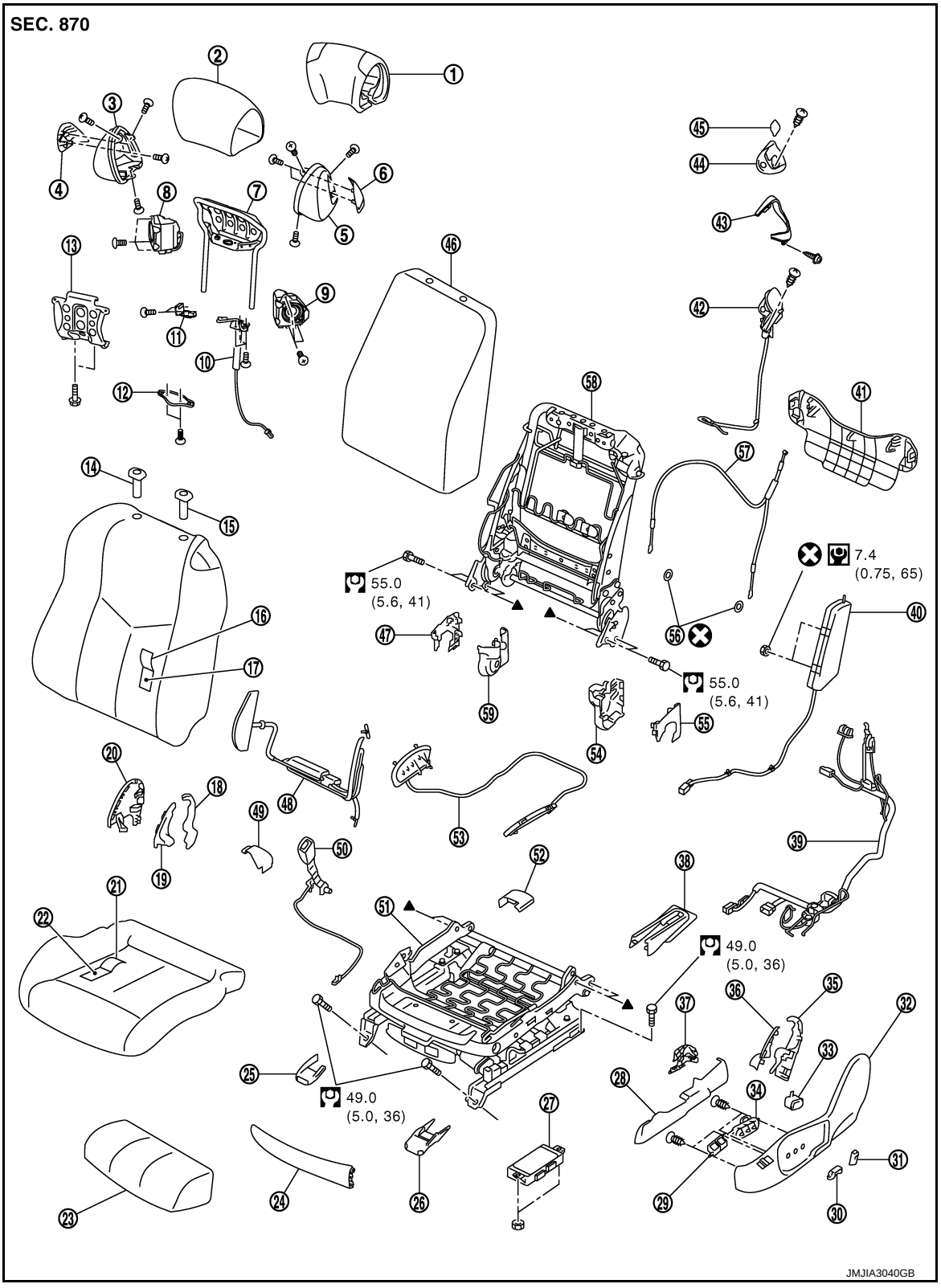
DRIVER'S SEAT



1. Headrest
2. Headrest holder (locked)
3. Headrest holder (free)
4. Lumber support lever knob
5. Snap ring
6. Seatback trim
7. Seatback pad
8. Seat cushion inner finisher
9. Seat cushion inner finisher inside (rear)
10. Seat cushion inner finisher inside (front)
11. Seat slide inner finisher
12. Seat belt buckle
13. Seat cushion trim
14. Seat cushion pad
15. Seat cushion pad (front)
16. Seat cushion front finisher
17. Front outer slide cover
18. Seat control unit
19. Side support switch
20. Seat slide and lifter switch knob
21. Seat reclining switch knob
22. Seat cushion outer finisher
23. Seat cushion outer finisher inside (rear)
24. Seat control switch
25. Seat cushion outer finisher inside (front)
26. Seat slide outer finisher (inside)
27. Seat slide outer finisher (outside)
28. Rear outer slide cover
29. Seat harness
30. Side air bag module
31. Seatback lower panel
32. Walk-in lever
33. Walk-in lever lower escutcheon
34. Walk-in lever upper escutcheon
35. Walk-in lever cap
36. Seatback silencer
37. Seatback frame
38. Reclining device wire
39. Push nut
40. Reclining device outer cover (outside)
41. Reclining device outer cover (inside)
42. Reclining device inner cover (inside)
43. Reclining device inner cover (outside)
44. Seatback side support bag and unit
45. Seat cushion side support bag
46. Rear inner slide cover
47. Seat cushion frame
48. Front inner slide cover

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

DRIVER'S SEAT WITH HEADREST SPEAKER

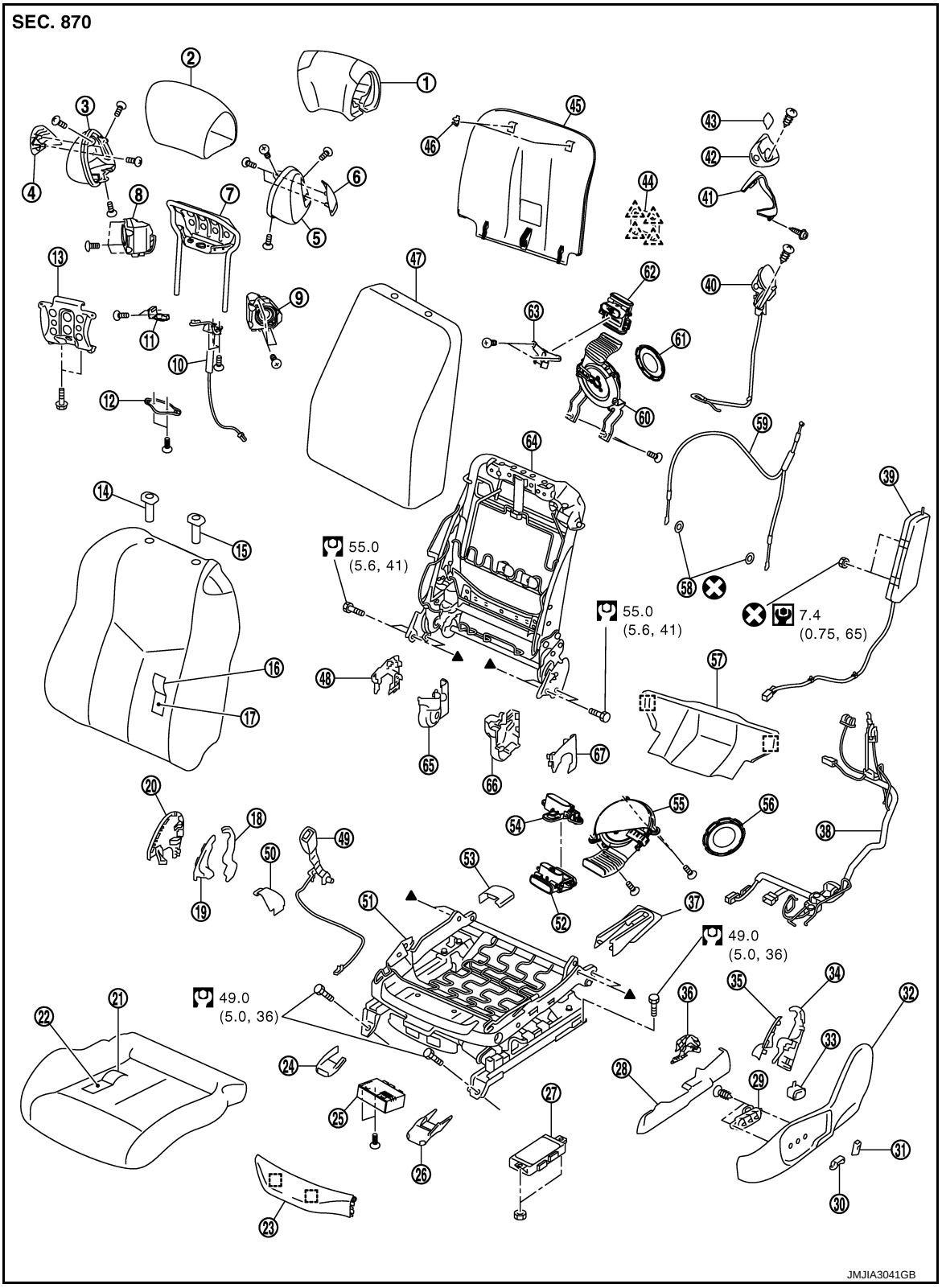


1. Headrest pad
2. Headrest trim cover
3. Headrest inner grille
4. Headrest inner escutcheon
5. Headrest outer grille
6. Headrest outer escutcheon
7. Headrest frame
8. Driver headrest inner speaker
9. Driver headrest outer speaker
10. Headrest harness
11. Microphone (for AudioPilot®)
12. Headrest cover
13. Headrest frame front
14. Headrest holder (free)
15. Headrest holder (locked)

16. Seatback trim
17. Seatback pad
18. Seat cushion inner finisher inside (rear)
19. Seat cushion inner finisher inside (front)
20. Seat cushion inner finisher
21. Seat cushion trim
22. Seat cushion pad
23. Seat cushion pad (front)
24. Seat cushion front finisher
25. Front inner slide cover
26. Front outer slide cover
27. Seat control unit
28. Seat slide outer finisher (outside)
29. Side support switch
30. Seat slide and lifter switch knob
31. Seat reclining switch knob
32. Seat cushion outer finisher
33. Lumber support switch
34. Seat control switch
35. Seat cushion outer finisher inside (rear)
36. Seat cushion outer finisher inside (front)
37. Seat slide outer finisher (inside)
38. Rear outer slide cover
39. Seat harness
40. Side air bag module
41. Seatback lower panel
42. Walk-in lever
43. Walk-in lever lower escutcheon
44. Walk-in lever upper escutcheon
45. Walk-in lever cap
46. Seatback silencer
47. Reclining device inner cover (outside)
48. Seatback side support bag and unit
49. Seat slide inner finisher
50. Seat belt buckle
51. Seat cushion frame
52. Rear inner slide cover
53. Seat cushion side support bag
54. Reclining device outer cover (inside)
55. Reclining device outer cover (outside)
56. Push nut
57. Reclining device wire
58. Seatback frame
59. Reclining device inner cover (inside)

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

DRIVER'S SEAT WITH HEADREST SPEAKER AND AIR CONDITIONER



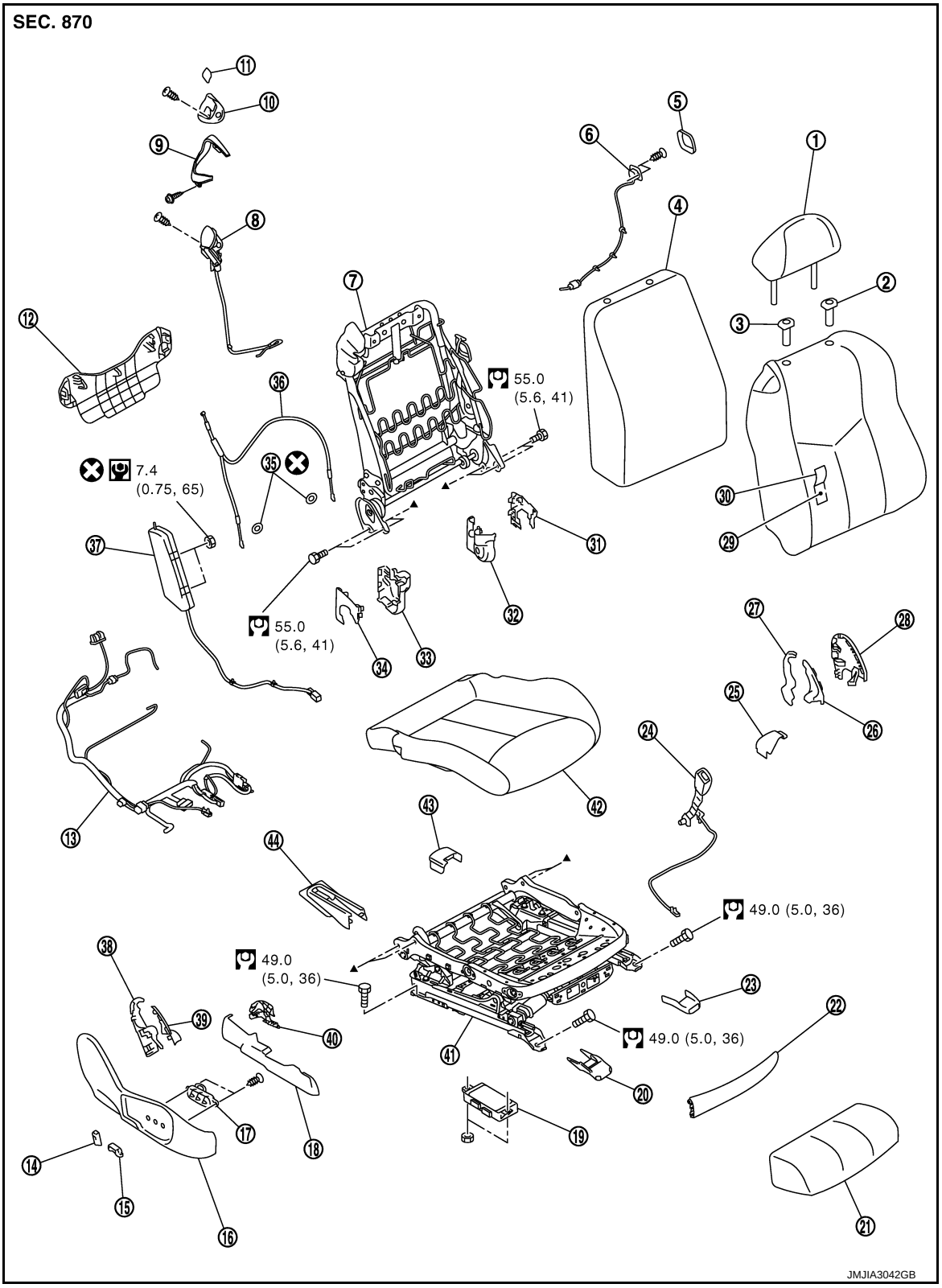
1. Headrest pad
2. Headrest trim cover
3. Headrest inner grille
4. Headrest inner escutcheon
5. Headrest outer grille
6. Headrest outer escutcheon
7. Headrest frame
8. Driver headrest inner speaker
9. Driver headrest outer speaker
10. Headrest harness
11. Microphone (for AudioPilot®)
12. Headrest cover
13. Headrest frame front
14. Headrest holder (free)
15. Headrest holder (locked)

16. Seatback trim
17. Seatback pad
18. Seat cushion inner finisher inside (rear)
19. Seat cushion inner finisher inside (front)
20. Seat cushion inner finisher
21. Seat cushion trim
22. Seat cushion pad
23. Seat cushion front finisher
24. Front inner slide cover
25. Seat A/C control unit
26. Front outer slide cover
27. Seat control unit
28. Seat slide outer finisher (outside)
29. Seat control switch
30. Seat slide and lifter switch knob
31. Seat reclining switch knob
32. Seat cushion outer finisher
33. Lumber support switch
34. Seat cushion outer finisher inside (rear)
35. Seat cushion outer finisher inside (front)
36. Seat slide outer finisher (inside)
37. Rear outer slide cover
38. Seat harness
39. Side air bag module
40. Walk-in lever
41. Walk-in lever lower escutcheon
42. Walk-in lever upper escutcheon
43. Walk-in lever cap
44. Seatback board grille
45. Seatback board
46. Seatback board clip
47. Seatback silencer
48. Reclining device inner cover (outside)
49. Seat belt buckle
50. Seat slide inner finisher
51. Seat cushion frame
52. Seat cushion thermal electric device
53. Rear inner slide cover
54. Seat cushion A/C duct
55. Seat cushion blower unit
56. Seat cushion A/C filter
57. Seatback lower panel
58. Push nut
59. Reclining device wire
60. Seatback blower unit
61. Seatback A/C filter
62. Seatback thermal electric device
63. Seatback thermal electric device bracket
64. Seatback frame
65. Reclining device inner cover (inside)
66. Reclining device outer cover (inside)
67. Reclining device outer cover (outside)

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

PASSENGER'S SEAT

SEC. 870

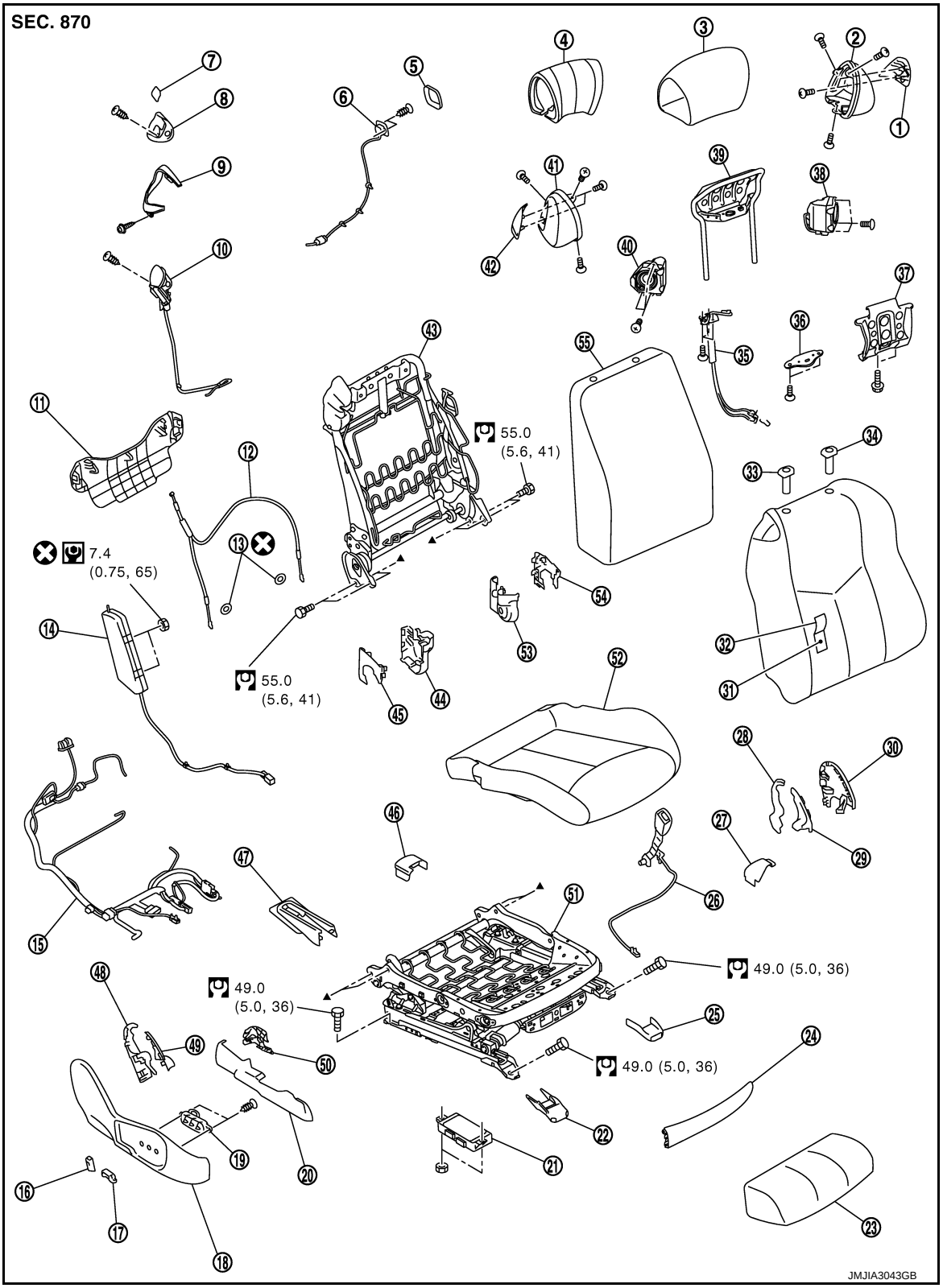


1. Headrest
2. Headrest holder (locked)
3. Headrest holder (free)
4. Seatback silencer
5. Slide switch escutcheon
6. Slide switch (seatback)
7. Seatback frame
8. Walk-in lever
9. Walk-in lever lower escutcheon
10. Walk-in lever upper escutcheon
11. Walk-in lever cap
12. Seatback lower panel
13. Seat harness
14. Seat reclining switch knob
15. Seat slide and lifter switch knob
16. Seat cushion outer finisher
17. Seat control switch
18. Seat slide outer finisher

19. Seat control unit	20. Front outer slide cover	21. Seat cushion pad (front)
22. Seat cushion front finisher	23. Front inner slide cover	24. Seat belt buckle
25. Seat slide inner finisher	26. Seat cushion inner finisher inside (front)	27. Seat cushion inner finisher inside (rear)
28. Seat cushion inner finisher	29. Seatback pad	30. Seatback trim
31. Reclining device inner cover (outside)	32. Reclining device inner cover (inside)	33. Reclining device outer cover (inside)
34. Reclining device outer cover (outside)	35. Push nut	36. Reclining device wire
37. Side air bag module	38. Seat cushion outer finisher inside (rear)	39. Seat cushion outer finisher inside (front)
40. Seat slide outer finisher (inside)	41. Seat cushion frame	42. Seat cushion trim & pad
43. Rear inner slide cover	44. Rear outer slide cover	

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

PSSENGER'S SEAT WITH HEAD REST SPEAKER

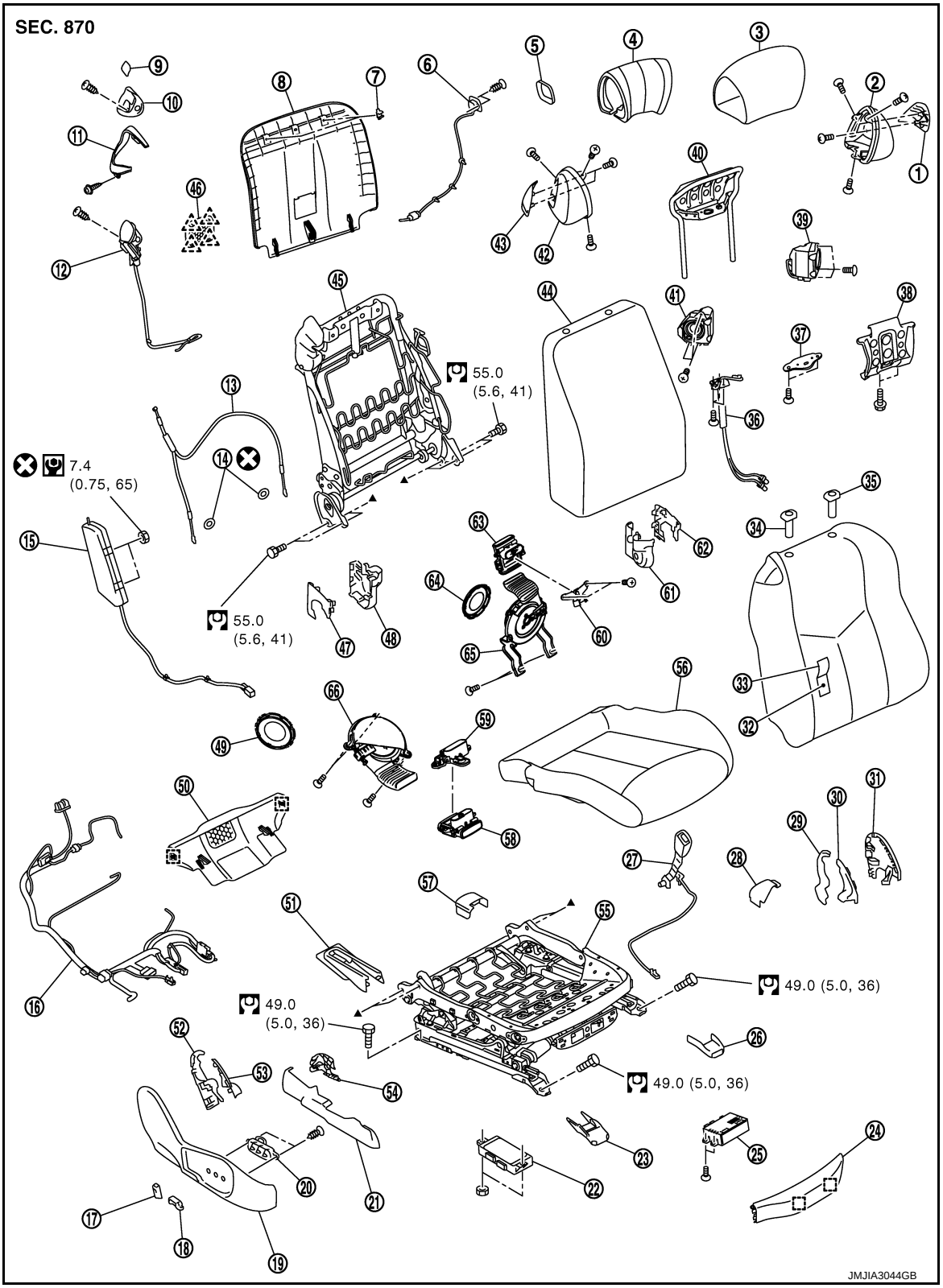


1. Headrest inner escutcheon
2. Headrest inner grille
3. Headrest trim cover
4. Headrest pad
5. Slide switch escutcheon
6. Slide switch (seatback)
7. Walk-in lever cap
8. Walk-in lever upper escutcheon
9. Walk-in lever lower escutcheon
10. Walk-in lever
11. Seatback lower panel
12. Reclining device wire
13. Push nut
14. Side air bag module
15. Seat harness
16. Seat reclining switch knob
17. Seat slide and lifter switch knob
18. Seat cushion outer finisher

19. Seat control switch
20. Seat slide outer finisher
21. Seat control unit
22. Front outer slide cover
23. Seat cushion pad (front)
24. Seat cushion front finisher
25. Front inner slide cover
26. Seat belt buckle
27. Seat slide inner finisher
28. Seat cushion inner finisher inside (rear)
29. Seat cushion inner finisher inside (front)
30. Seat cushion inner finisher
31. Seatback pad
32. Seatback trim
33. Headrest holder (free)
34. Headrest holder (locked)
35. Headrest harness
36. Headrest cover
37. Headrest frame front
38. Passenger headrest inner speaker
39. Headrest frame
40. Passenger headrest outer speaker
41. Headrest outer grille
42. Headrest outer escutcheon
43. Seatback frame
44. Reclining device outer cover (inside)
45. Reclining device outer cover (outside)
46. Rear inner slide cover
47. Rear outer slide cover
48. Seat cushion outer finisher inside (rear)
49. Seat cushion outer finisher inside (front)
50. Seat slide outer finisher (inside)
51. Seat cushion frame
52. Seat cushion trim & pad
53. Reclining device inner cover (inside)
54. Reclining device inner cover (outside)
55. Seatback silencer

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

PASSENGER'S SEAT WITH HEADREST SPEAKER AND AIR CONDITIONER



1. Headrest inner escutcheon
2. Headrest inner grille
3. Headrest trim cover
4. Headrest pad
5. Slide switch escutcheon
6. Slide switch (seatback)
7. Seatback board clip
8. Seatback board
9. Walk-in lever cap
10. Walk-in lever upper escutcheon
11. Walk-in lever lower escutcheon
12. Walk-in lever
13. Reclining device wire
14. Push nut
15. Side air bag module
16. Seat harness
17. Seat reclining switch knob
18. Seat slide and lifter switch knob

19. Seat cushion outer finisher
20. Seat control switch
21. Seat slide outer finisher
22. Seat control unit
23. Front outer slide cover
24. Seat cushion front finisher
25. Seat A/C control unit
26. Front inner slide cover
27. Seat belt buckle
28. Seat slide inner finisher
29. Seat cushion inner finisher inside (rear)
30. Seat cushion inner finisher inside (front)
31. Seat cushion inner finisher
32. Seatback pad
33. Seatback trim
34. Headrest holder (free)
35. Headrest holder (locked)
36. Headrest harness
37. Headrest cover
38. Headrest frame front
39. Passenger headrest inner speaker
40. Headrest frame
41. Passenger headrest outer speaker
42. Headrest outer grille
43. Headrest outer escutcheon
44. Seatback silencer
45. Seatback frame
46. Seatback board grille
47. Reclining device outer cover (outside)
48. Reclining device outer cover (inside)
49. Seat cushion A/C filter
50. Seatback lower panel
51. Rear outer slide cover
52. Seat cushion outer finisher inside (rear)
53. Seat cushion outer finisher inside (front)
54. Seat slide outer finisher (inside)
55. Seat cushion frame
56. Seat cushion trim & pad
57. Rear inner slide cover
58. Seat cushion thermal electric device
59. Seat cushion A/C duct
60. Seatback thermal electric device bracket
61. Reclining device inner cover (inside)
62. Reclining device inner cover (outside)
63. Seatback thermal electric device
64. Seatback A/C filter
65. Seatback blower unit
66. Seat cushion blower unit

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

Removal and Installation

INFOID:0000000004747022

REMOVAL

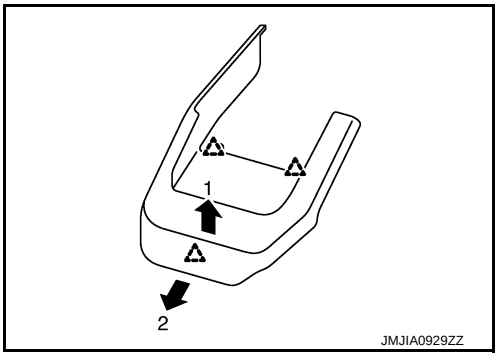
CAUTION:

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

1. Remove the front slide cover.

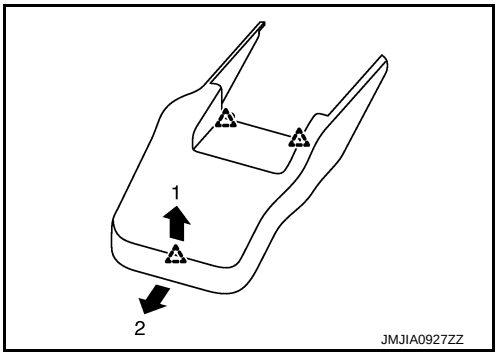
a. Front outer slide cover
- Slide the seat to the rearmost position.
- Pull up the front edge of the front slide cover to release the pawls.
- Slide the front slide cover forward to release the pawls.

△ : Pawl



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

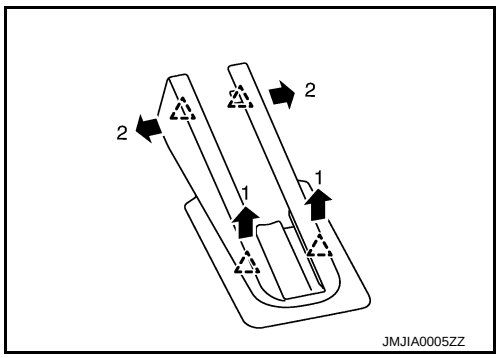
△ : Pawl



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

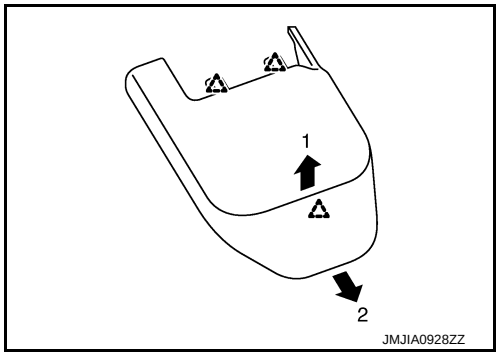
a. Rear outer slide cover
- Slide the seat to the foremost position.
- Pull up the rear edge of the rear outer slide cover to release the pawls.
- Open the front end of the rear outer slide cover to release the pawls.

: Pawl



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

: Pawl



4. Remove the mounting bolts on the rear side of the front seat.
5. Set seatback in a standing position.
6. Disconnect harness connectors under the seat and remove harness securing clips.
   CAUTION:
   Before removal, turn ignition switch OFF, disconnect battery negative terminal and then wait for at least 3 minutes.
7. Remove seat from the vehicle.
   CAUTION:
   When removing and installing, use shop cloths to protect parts from damage.

INSTALLATION

Install in the reverse order of removal.

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

NOTE:
After installing the front seat, perform additional service when removing battery negative terminal. (with automatic drive positioner models) Refer to ADP-9, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement". (without automatic drive positioner models) Refer to SE-9, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement".

Disassembly and Assembly

INFOID:0000000004747023

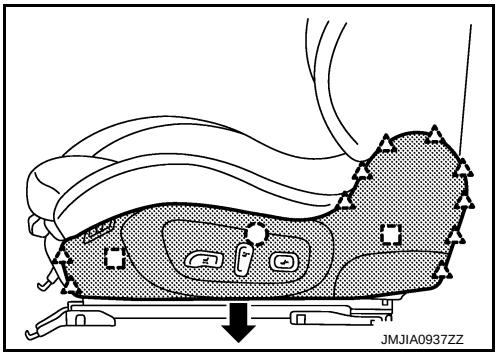
SEATBACK

Disassembly

1. Remove the seat cushion outer finisher.

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

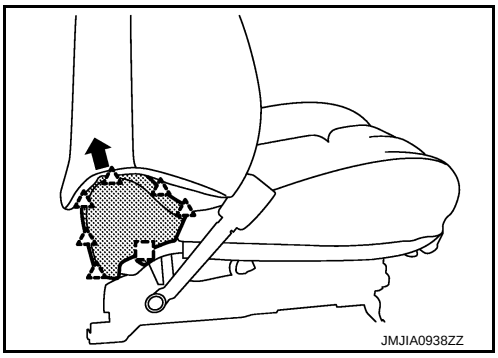
: Clip
: Metal clip
: Pawl



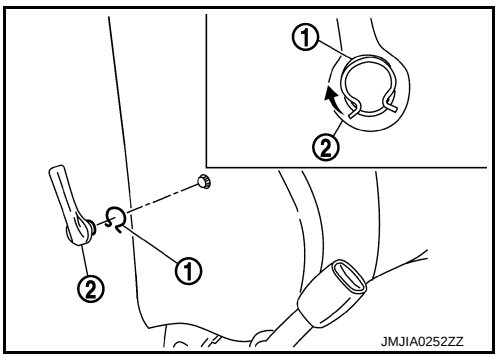
- Disconnect the seat control switch, lumbar support switch (except for driver side seat with air conditioner) and side support switch (with side support seat only) harness connector.
- Remove the seat cushion outer finisher inside (front, rear).

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

: Metal clip
: Pawl

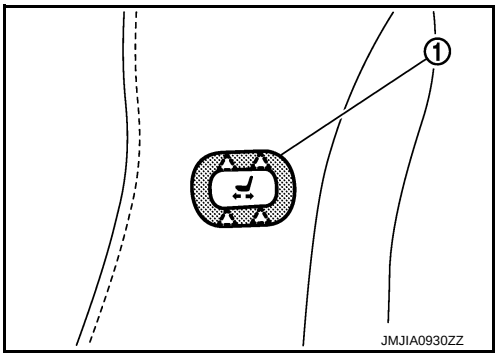


3. Remove the lumbar support lever knob. (with manual lumbar support seat only.)
   Pull snap ring (1) upward, and remove lumbar support lever knob (2) from seatback frame.Using a hook and pick tool.



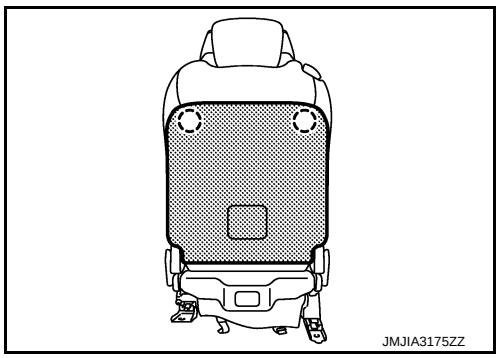
4. Remove the seatback trim and seatback pad.
   - Remove the pawls, and then pull out slide switch escutcheon (1) (passenger's seat only).

: Pawl



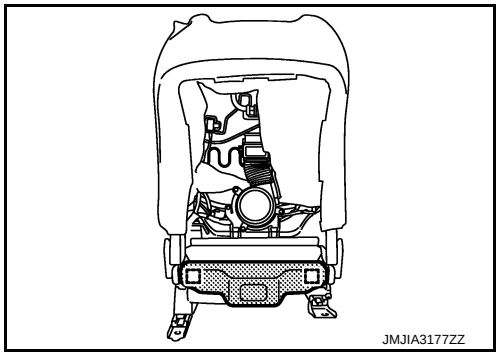
- Remove seatback board.

: Clip

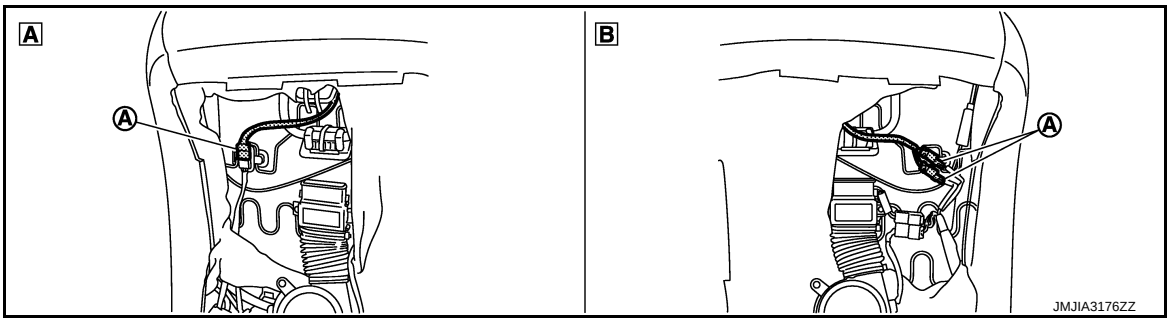


- Remove the seatback lower panel.

: Metal clip



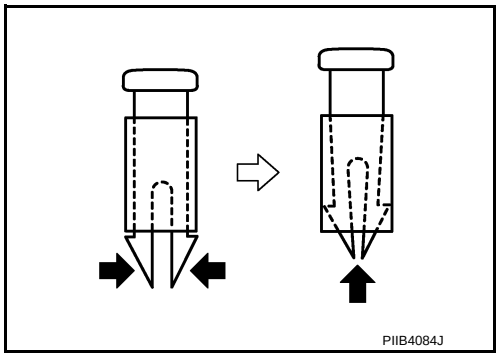
- Disconnect headrest speaker harness connector (A). (except seat without headrest speaker.)



(A) : Driver seat
(B) : Passenger seat

- Remove headrest.
- Remove headrest holders.

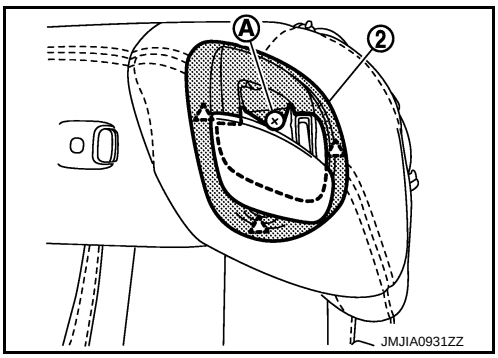
CAUTION:
Before installing headrest holder check its orientation. (front/rear and right/left)



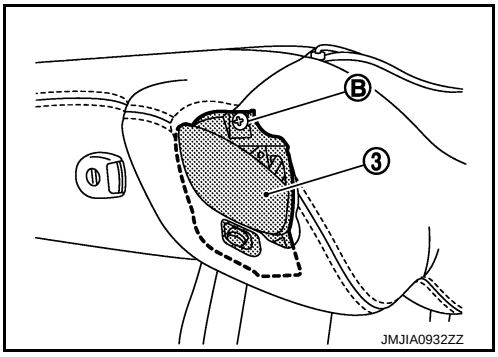
- Remove side air bag module.
- Remove the walk-in lever cap.

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

: Pawl

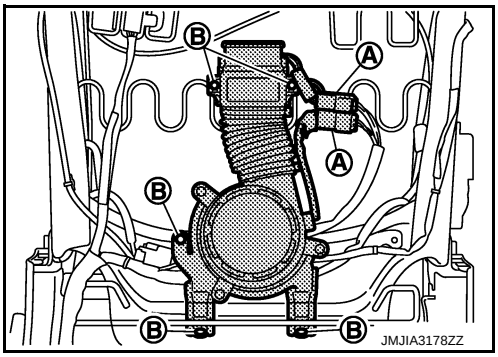


- Remove the screw (B), and then pull the seatback trim from the walk-in lever (3).



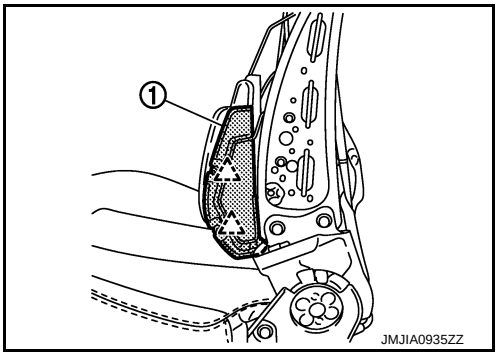
- Remove the walk-in lever lower escutcheon.
- Remove the seatback trim and seatback pad from the seatback frame.
- Remove the hog rings, and separate the seatback trim and seatback pad.

5. Remove the seatback silencer.
6. Remove seatback air conditioner unit.(except seat without air conditioner.)
   - Disconnect harness connectors (A).
   - Remove seatback air conditioner unit mounting screws (B).



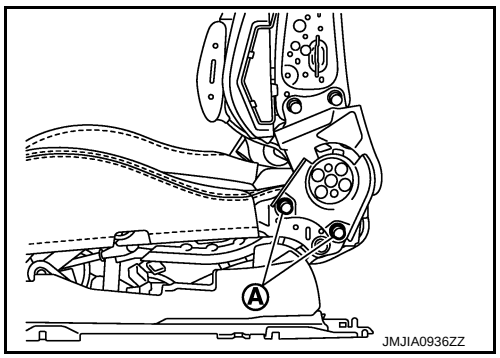
7. Disconnect the harness connectors.
8. Remove the side support bag and unit. (with side support seats only.)
   - Remove the pawls, and then remove side support bag (1).
   - Remove the side support unit.

: Pawl

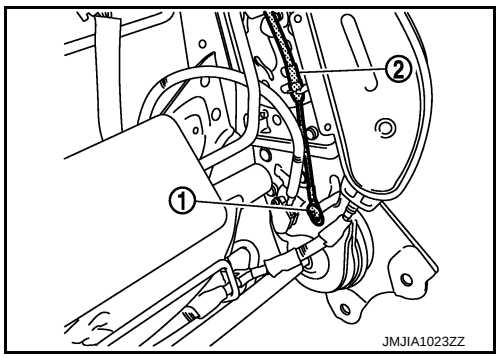


9. Remove the seatback frame.

Remove the seatback frame mounting bolts (A).



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



13. Remove the walk-in lever.

Assembly

Assemble in the reverse order of disassembly.

CAUTION:

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

SEAT CUSHION

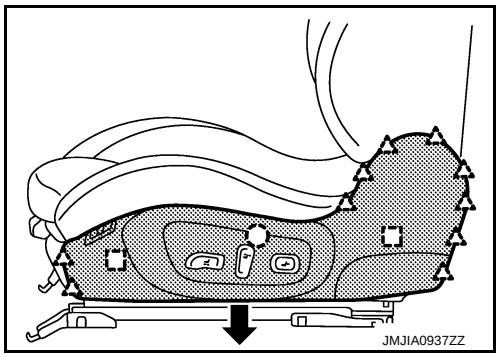
Disassembly

CAUTION:

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

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

: Clip
: Metal clip
: Pawl

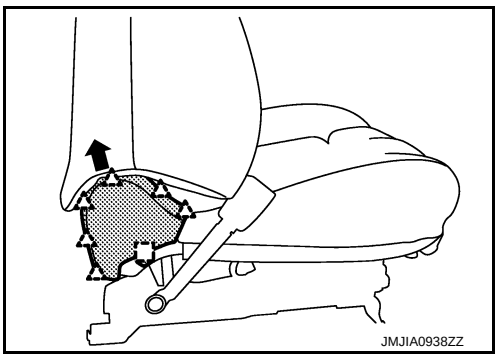


    - Disconnect the seat control switch, lumbar support switch (except for driver side seat with air conditioner) and side support switch (with side support seat only) harness connector.
    - Remove the seat cushion outer finisher inside (front, rear).
2. Remove the seat cushion inner finisher.

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

: Metal clip

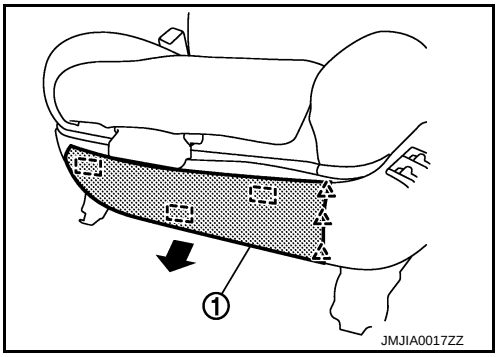
: Pawl



3. Remove the seat cushion front finisher.
Remove the metal clips, and then pull out seat cushion front finisher (1).

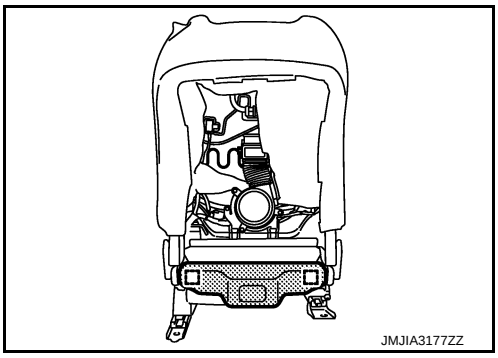
: Metal clip

: Pawl

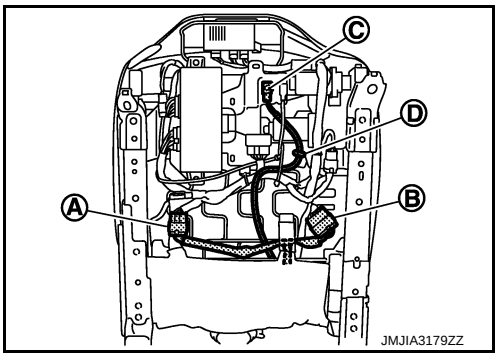


4. Remove seatback lower panel.

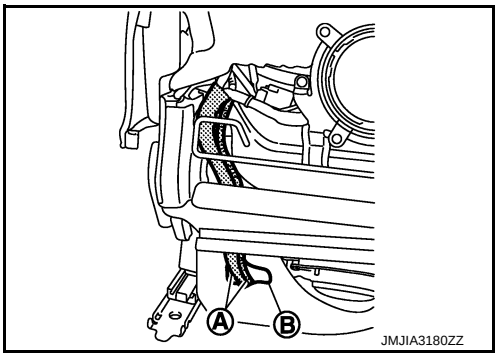
: Metal clip



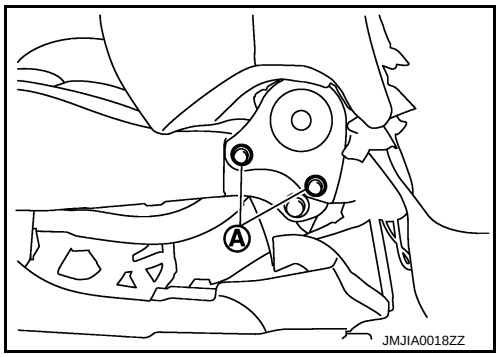
5. Disconnect harness connectors (A) and (B).
6. Remove side air bag harness connector fixing clips (C).
7. Remove side air bag harness fixing clamp (D).



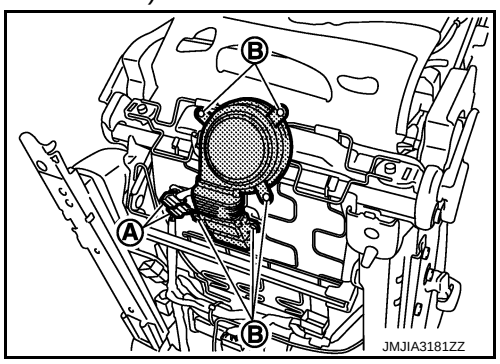
8. Remove seat cushion trim retainers and pull out harness (A) through the hole of seat cushion trim (B).



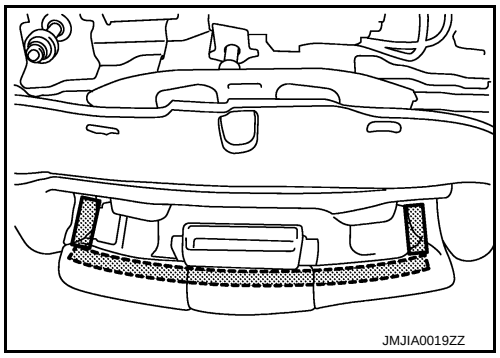
9. Remove the seatback mounting bolts (A), and then remove the seatback assembly.



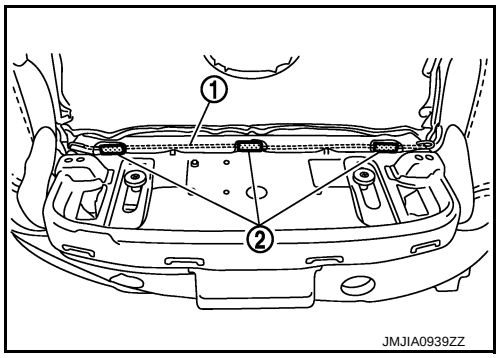
10. Remove seat cushion air conditioner unit.(except seat without air conditioner.)
    - Disconnect harness connectors (A).
    - Remove seatback air conditioner unit mounting screws (B).



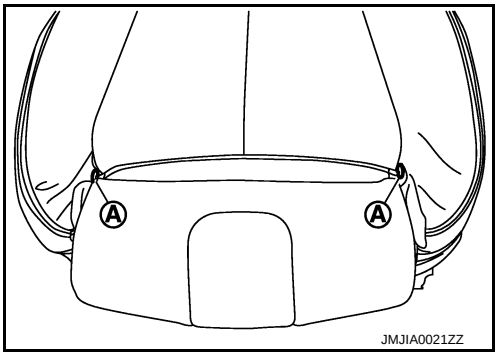
11. Remove the seat cushion pad (front). (Thigh extension model only.)
    - Remove the retainer.
    - Remove the seat cushion pad (front).



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



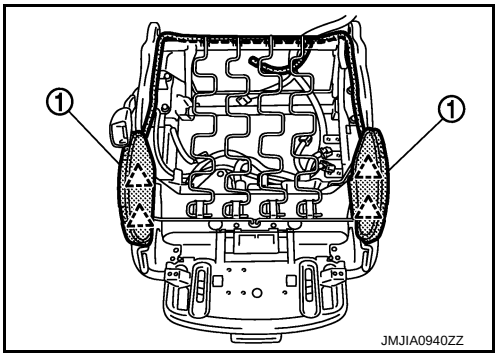
- Remove the clips (A).(Thigh extension model only.)



- Remove the seat cushion retainer.
- Disconnect the seat cushion heater unit harness connector.
- Remove the hog rings, and separate the seat cushion trim and seat cushion pad.

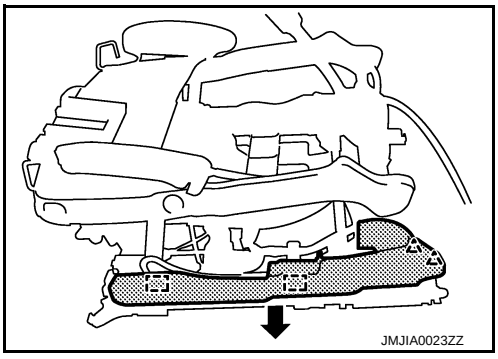
13. Remove the side support bag.(Side support model only.)
    - Remove the hose clamp.
    - Remove the pawls, and then remove side support bag (1).

    : Pawl



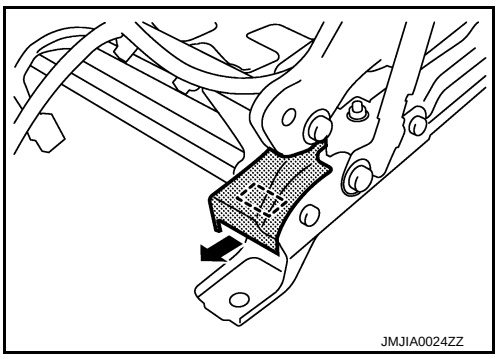
14. Remove the seat slide outer finisher.
    - Remove the metal clip and pawls, and then pull out seat slide outer finisher (outside).
    - Remove the metal clip, and then pull out seat slide outer finisher (inside).

    : Metal clip



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

    : Metal clip



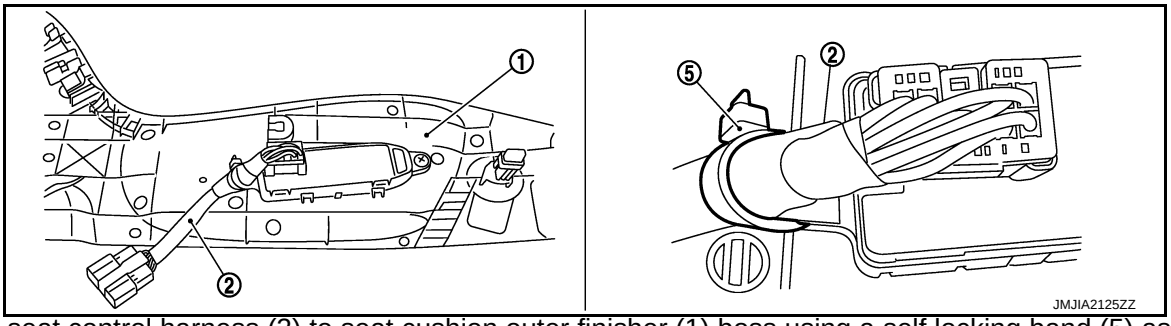
Assembly

1. Assemble in the reverse order of disassembly.

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

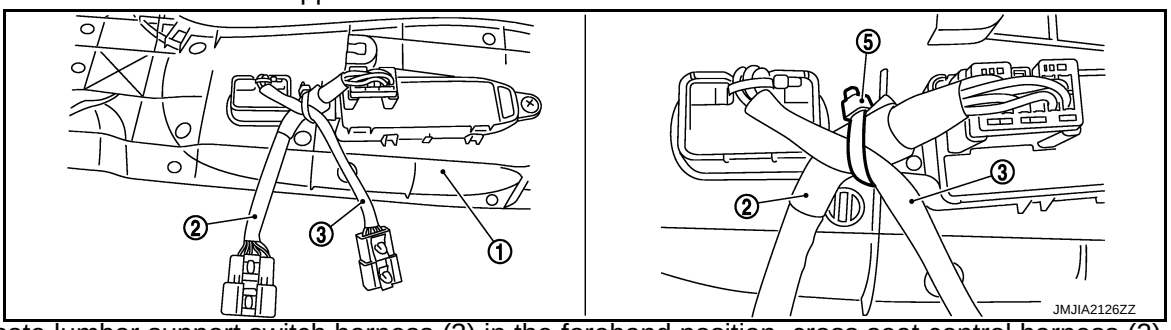
2. Front seat switch harness layout.

a. Normal seat without lumbar support switch



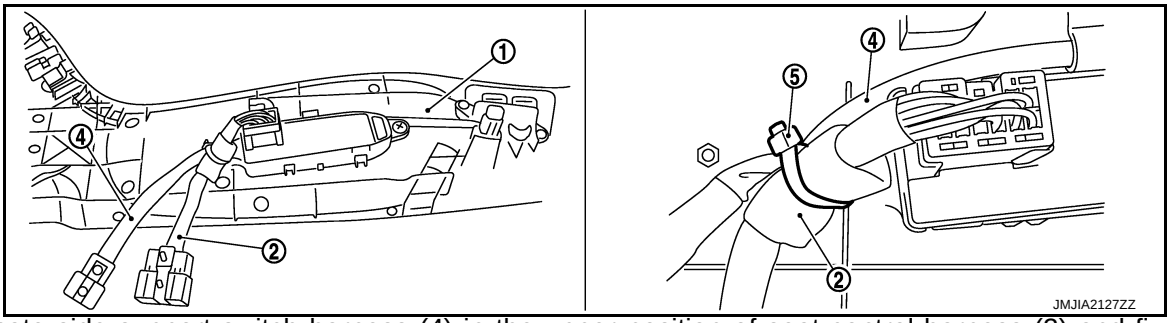
Fix seat control harness (2) to seat cushion outer finisher (1) boss using a self locking band (5) as shown in the figure.

b. Normal seat with lumbar support switch



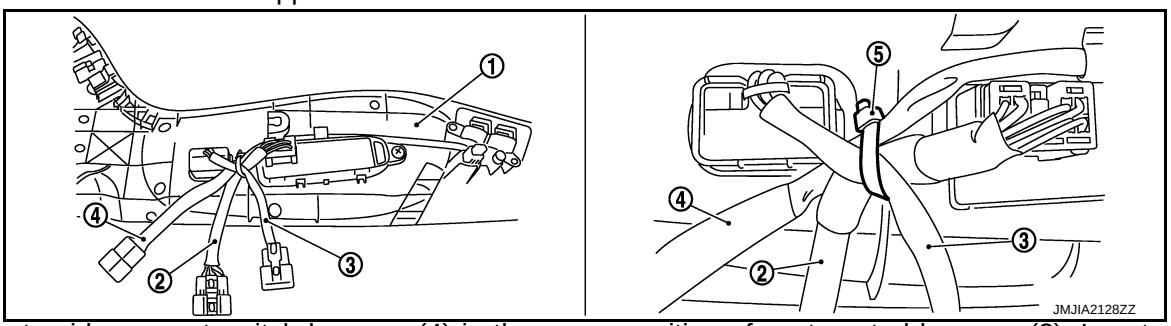
Locate lumbar support switch harness (3) in the forehand position, cross seat control harness (2), and fix to seat cushion outer finisher (1) boss using a self locking band (5) as shown in the figure.

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.

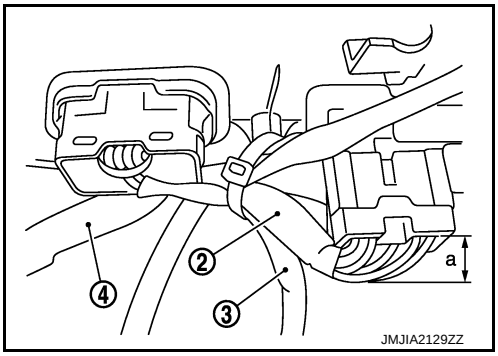
d. Sport seat with lumbar support switch



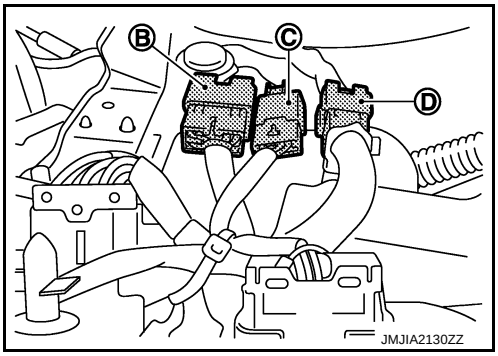
Locate side support switch harness (4) in the upper position of seat control harness (2). Locate lumbar support switch harness (3) crossing in the forehand position, and fix to seat cushion outer finisher (1) boss using a self locking band (5) as shown in the figure.

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.**



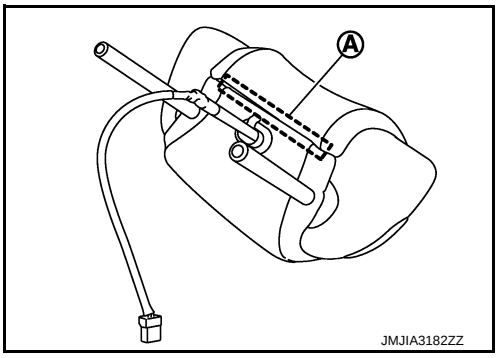
- **Locate lumbar support switch harness crossing in the upper position, fix seat control harness connector (B), lumbar support switch harness connector (C), and side support harness connector (D) as shown in the figure.**



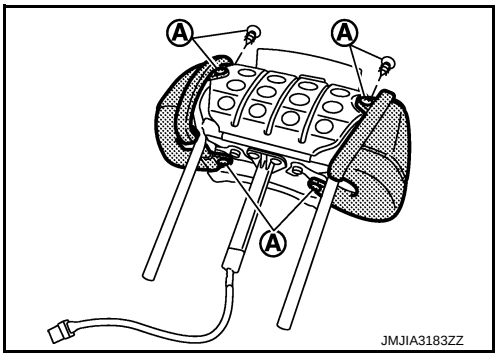
HEADREST (WITH HEADREST SPEAKER ONLY)

Disassembly

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

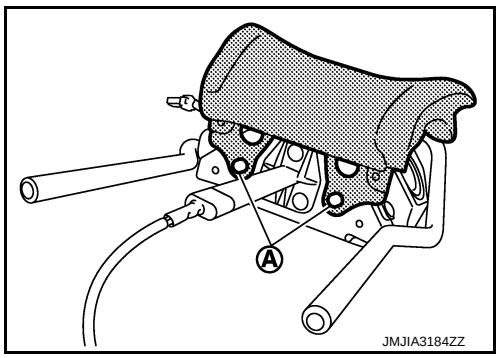


2. Remove headrest cover.
3. Remove headrest pad.
4. Remove mounting screws (A), and then remove headrest outer/inner grille.



5. Remove following parts after removing headrest outer/inner grille.
   - Headrest outer/inner escutcheon.
   - Microphone (for AudioPilot®). Refer to AV-747, "Removal and Installation".

6. Remove mounting bolts (A), and then headrest frame front.



7. Remove headrest outer/inner speakers. Refer to AV-745, "Removal and Installation".

Assembly

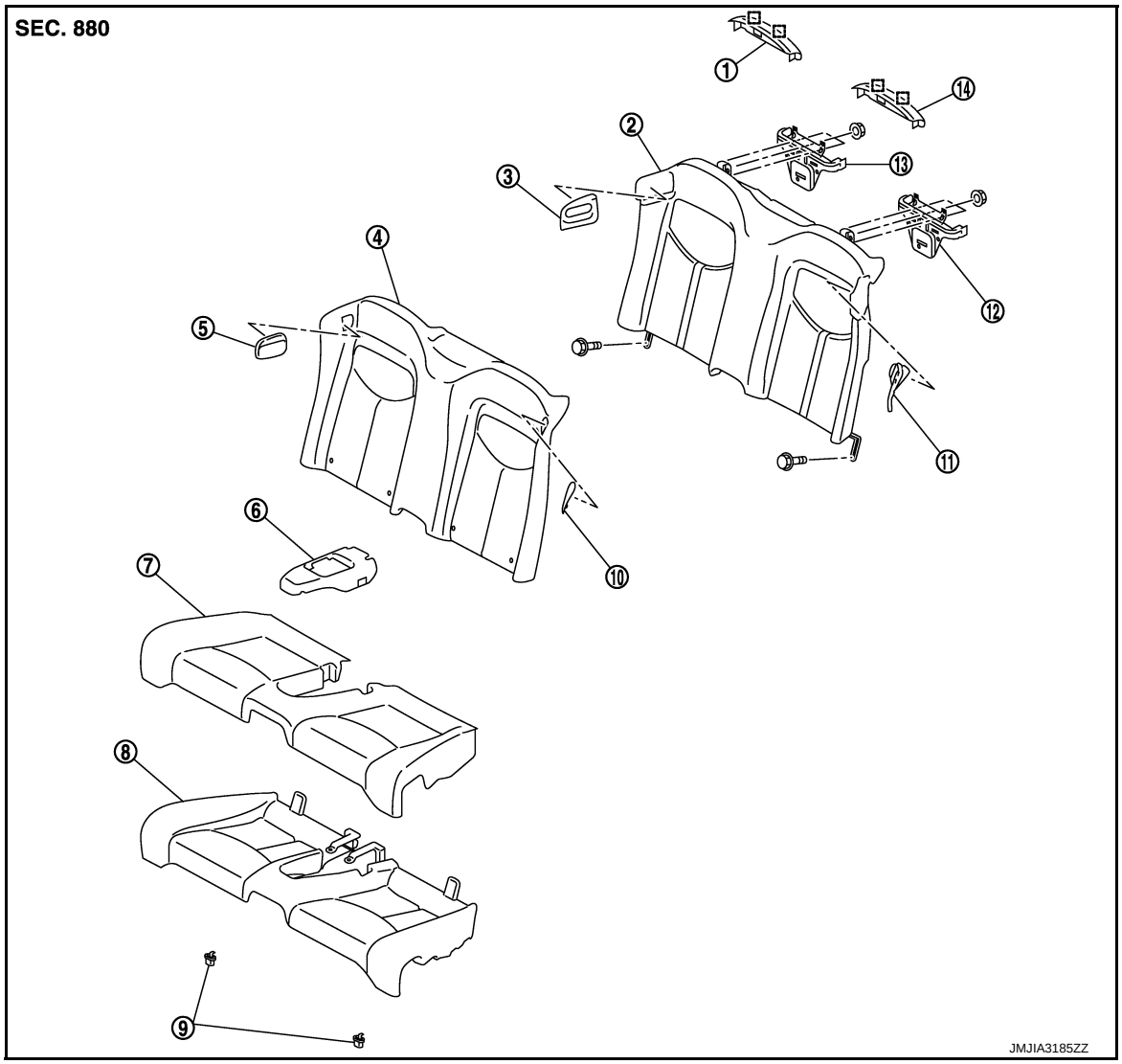
Assembly in the reverse order of disassembly.

REAR SEAT

Exploded View

INFOID:0000000004747024

REAR SEAT



1. Pop-up roll bar cover (RH)
2. Seatback pad
3. Seatback inner bezel RH
4. Seatback trim
5. Rear seat belt escutcheon RH
6. Seat cushion tray
7. Seat cushion trim
8. Seat cushion pad
9. Seat cushion hook
10. Rear seat belt escutcheon LH
11. Seatback inner bezel LH
12. Seatback bracket LH
13. Seatback bracket RH
14. Pop-up roll bar cover (LH)

: Metal clip

Removal and Installation

INFOID:0000000004747025

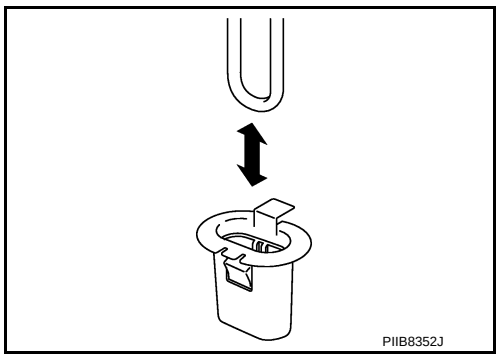
REMOVAL

CAUTION:

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

1. Remove the seat cushion.

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



2. Remove the seatback.
   - Remove rear seat belt outer anchor mounting bolts (LH/RH).
   - Remove rear seatback mounting bolts (LH/RH).
   - Remove rear seat belt escutcheons (LH/RH).
   - Pull seatback up, and then remove seatback.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

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

Disassembly and Assembly

INFOID:0000000004747026

SEATBACK

Disassembly

1. Remove the hog rings, and remove the seatback retainer.
2. Remove the hog rings to separate the seatback trim and seatback pad.
3. Remove seatback inner bezels (LH/RH).

Assembly

Assemble in the reverse order of disassembly.

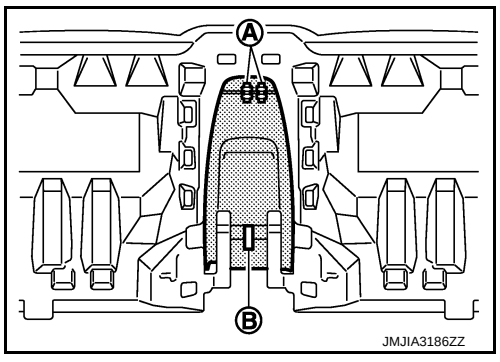
CAUTION:

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

SEAT CUSHION

Disassembly

1. Remove seat cushion tray.
   Remove the clips (A) from the seat cushion backside, and then remove hook (B) when pulling seat cushion tray.



2. Remove the seat cushion trim and seat cushion pad.
   Remove the hog rings to separate the seat cushion trim and seat cushion pad.

Assembly

Assemble in the reverse order of disassembly.

CAUTION:

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

DRIVER SEAT CONTROL UNIT

Exploded View

INFOID:0000000004747029

Refer to SE-223, "Exploded View".

Removal and Installation

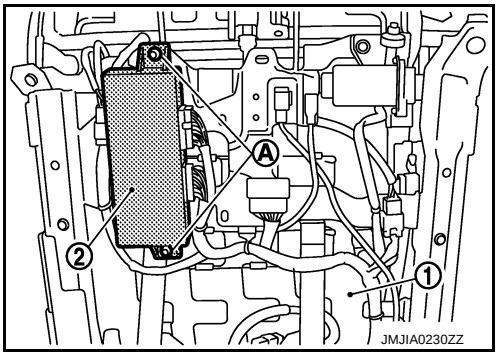
INFOID:0000000004747030

REMOVAL

CAUTION:

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

1. Remove driver seat (1). Refer to SE-234, "Removal and Installation".
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

Exploded View

INFOID:0000000004747031

Refer to SE-223, "Exploded View".

Removal and Installation

INFOID:0000000004747032

REMOVAL

CAUTION:

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

NOTE:

The same procedure is performed for driver side. Refer to SE-248, "Removal and Installation".

INSTALLATION

Install in the reverse order of removal.

CAUTION:

Always clamp the harness to the right place.

HEATED SEAT CONTROL UNIT

Exploded View

INFOID:0000000004747033

Refer to SE-223, "Exploded View".

Removal and Installation

INFOID:0000000004747034

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 SE-223, "Exploded View".

INSTALLATION

Install in the reverse order of removal.

CAUTION:

Always clamp the harness to the right place.

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

Exploded View

INFOID:0000000004747035

Refer to IP-12, "Exploded View".

Removal and Installation

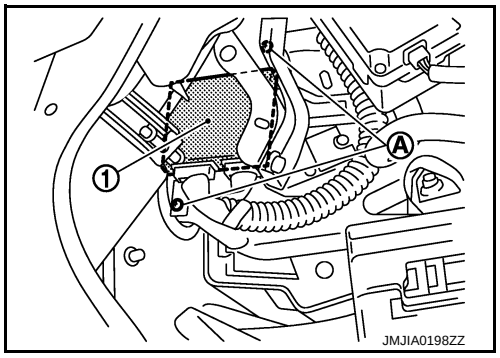
INFOID:0000000004747036

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 IP-13, "Removal and Installation".
3. Remove the screws (A).
4. Remove automatic drive positioner control unit (1).



INSTALLATION

Install in the reverse order of removal.

CAUTION:

Always clamp the harness to the right place.

POWER SEAT SWITCH

Removal and Installation

INFOID:0000000004747037

REMOVAL

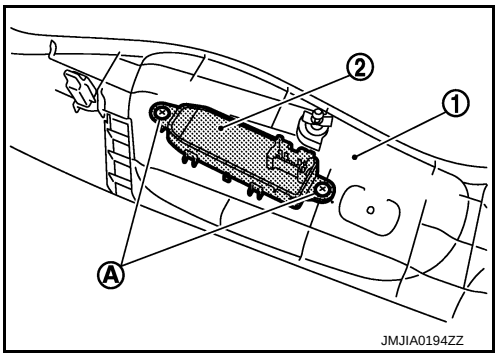
CAUTION:

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

NOTE:

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

1. Remove the seat cushion outer finisher (1). Refer to SE-234, "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

SEATBACK

SEATBACK : Removal and Installation

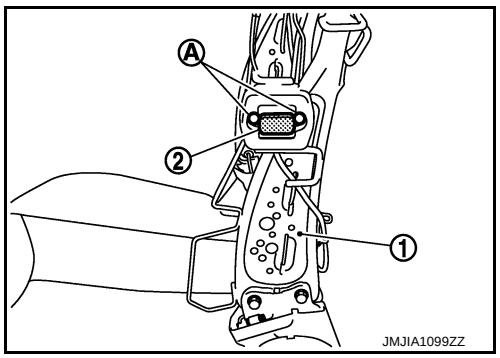
INFOID:0000000004747038

REMOVAL

CAUTION:

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

1. Remove seatback pad. Refer to SE-234, "Removal and Installation".
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.

SIDE SUPPORT SWITCH

Removal and Installation

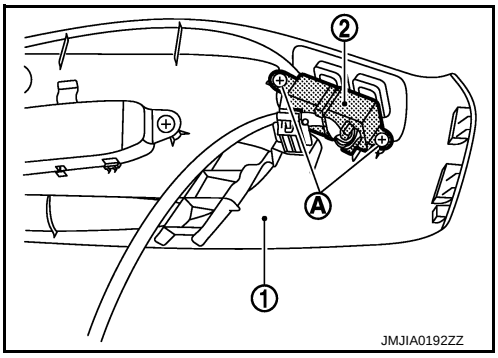
INFOID:0000000004747039

REMOVAL

CAUTION:

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

1. Remove seat cushion outer finisher (1). Refer to SE-234, "Removal and Installation".
2. Remove screws (A).
3. Remove side support switch (2) from seat cushion outer finisher.



INSTALLATION

Install in the reverse order of removal.

CAUTION:

Always clamp the harness to the right place.

LUMBAR SUPPORT SWITCH

Removal and Installation

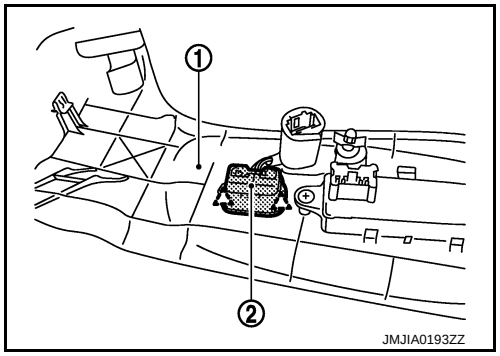
INFOID:0000000004747040

REMOVAL

CAUTION:

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

1. Remove seat cushion outer finisher (1). Refer to SE-234, "Removal and Installation"
2. Remove lumbar support switch (2).



: Pawl

INSTALLATION

Install in the reverse order of removal.

CAUTION:

Always clamp the harness to the right place.

HEATED SEAT SWITCH

Exploded View

INFOID:0000000004747041

Refer to IP-24, "Exploded View".

Removal and Installation

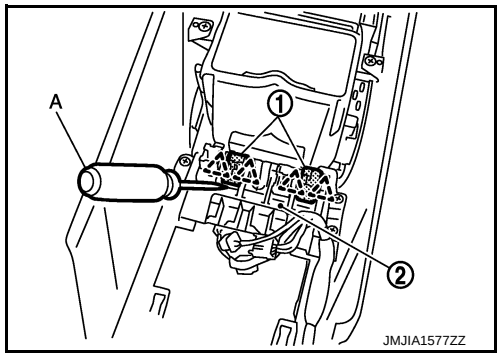
INFOID:0000000004747042

REMOVAL

CAUTION:

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

1. Remove the console body assembly. Refer to IP-25, "Removal and Installation"
2. Remove heated seat switch (1) from switch bracket (2) with flat-bladed screwdriver (A).



: Pawl

NOTE:

The same procedure is performed for passenger side.

INSTALLATION

Install in the reverse order of removal.

CLIMATE CONTROLLED SEAT SWITCH

Exploded View

INFOID:0000000004747443

Refer to IP-24, "Exploded View".

Removal and Installation

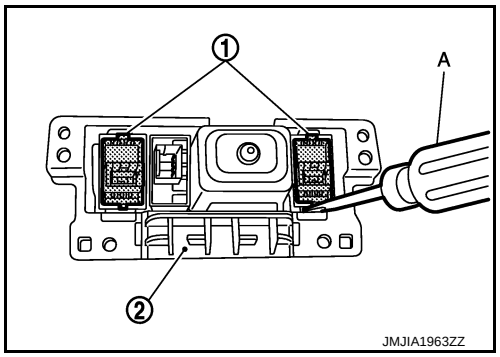
INFOID:0000000004747444

REMOVAL

CAUTION:

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

1. Remove the console upper finisher, console finisher assembly, cup holder assembly and console switch finisher. Refer to IP-25, "Removal and Installation"
2. Climate controlled seat switch (1) is removed from console switch finisher (2) using flat-bladed screwdriver (A) etc.



INSTALLATION

Install in the reverse order of removal.

CLIMATE CONTROLLED SEAT BLOWER FILTER

SEAT CUSHION

SEAT CUSHION : Exploded View

INFOID:0000000004747445

Refer to SE-223, "Exploded View".

SEAT CUSHION : Removal and Installation

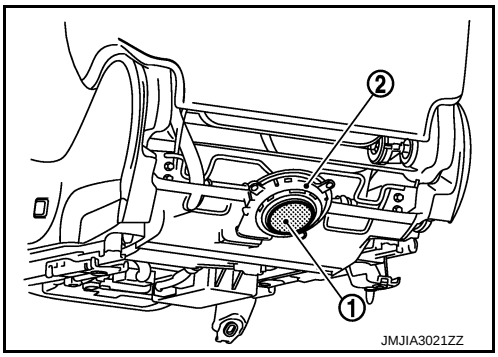
INFOID:0000000004747446

REMOVAL

CAUTION:

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

1. Remove the seat cushion rear finisher.
2. Turn blower filter (1) counter clockwise and remove it from climate controlled seat blower motor (2).



INSTALLATION

Install in the reverse order of removal.

Replacement interuals

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

SEATBACK

SEATBACK : Exploded View

INFOID:0000000005031902

Refer to SE-223, "Exploded View".

SEATBACK : Removal and Installation

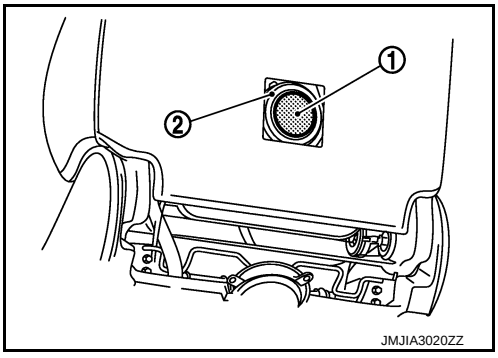
INFOID:0000000005031903

REMOVAL

CAUTION:

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

1. Remove the seatback escutcheon.
2. Turn blower filter (1) counter clockwise and remove it from climate controlled seat blower motor (2).



INSTALLATION

Install in the reverse order of removal.

Replacement interuals

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