SECTION SE
SEAT

CONTENTS

BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

INFOID:0000000007471883

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.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 3.

3.IDENTIFY THE MALFUNCTIONING SYSTEM WITH “SYMPTOM DIAGNOSIS”

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

>> GO TO 4.

4.IDENTIFY THE MALFUNCTIONING PARTS WITH “DTC/CIRCUIT DIAGNOSIS”

Perform the diagnosis with “DTC/CIRCUIT DIAGNOSIS” of the applicable system.

>> GO TO 5.

5.REPAIR OR REPLACE THE MALFUNCTIONING PARTS

Repair or replace the specified malfunctioning parts.

>> GO TO 6.

6.FINAL CHECK

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

Are the malfunctions corrected?

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

INSPECTION AND ADJUSTMENT

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Description

INFOID:0000000007471884

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:0000000007471885

1.SYSTEM INITIALIZATION

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

>> Work end.

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Description

INFOID:0000000007471886

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:0000000007471887

1.SYSTEM INITIALIZATION

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

>> Work end.

SYSTEM INITIALIZATION

SYSTEM INITIALIZATION : Description

INFOID:0000000007471888

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:0000000007471889

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.

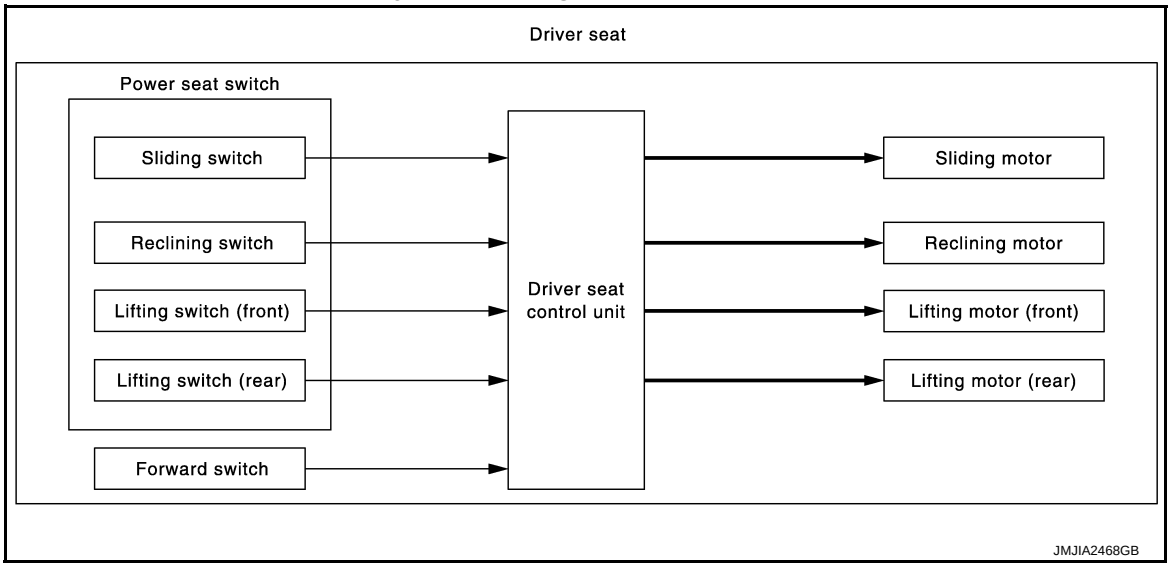
SYSTEM DESCRIPTION

POWER SEAT FOR DRIVER SIDE

POWER SEAT FUNCTION

POWER SEAT FUNCTION : System Diagram

INFOID:0000000007471890



POWER SEAT FUNCTION : System Description

INFOID:0000000007471891

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

SLIDING OPERATION

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

RECLINING OPERATION

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

LIFTING OPERATION

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

SLEEP MODE

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

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

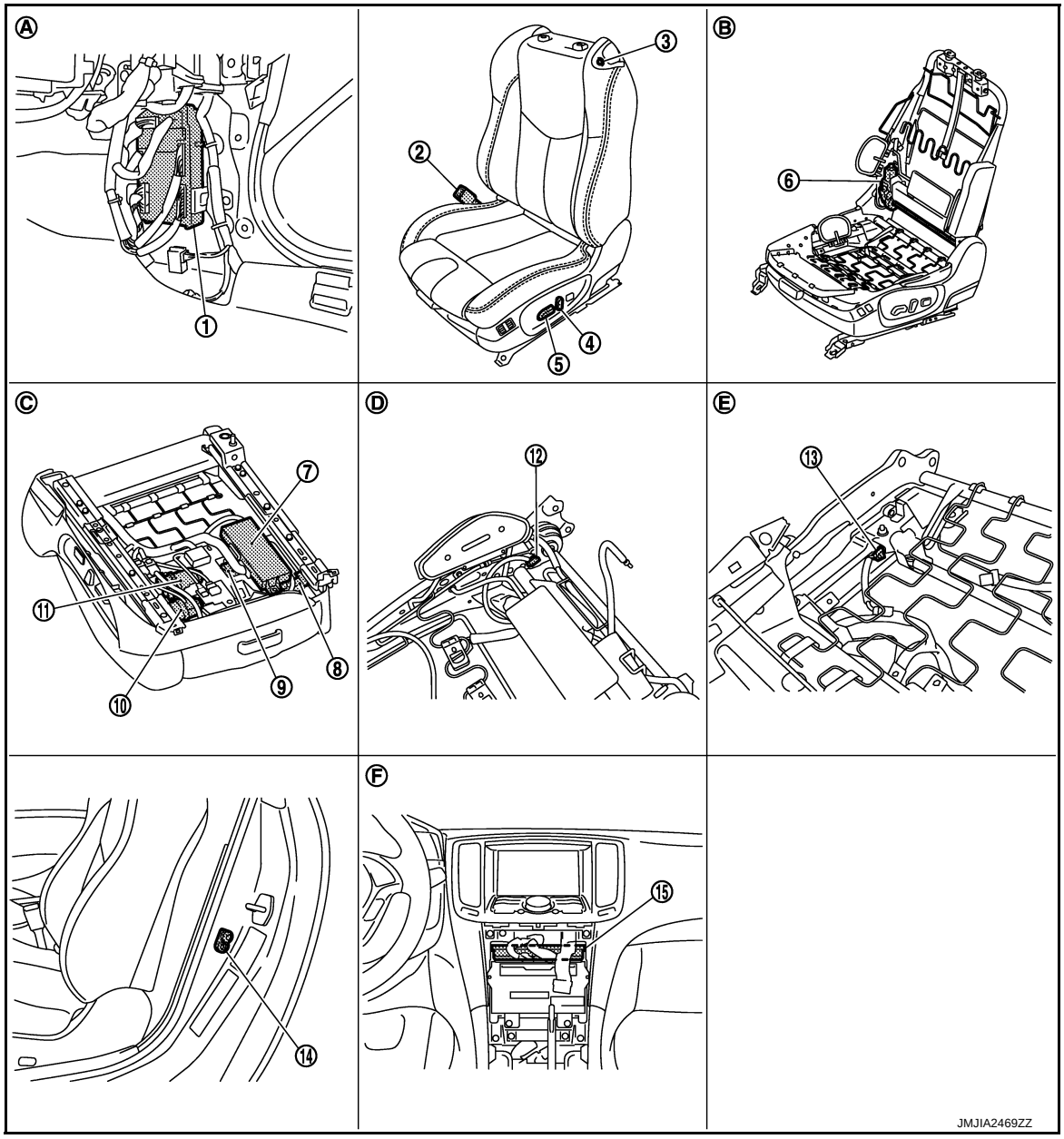
WAKE-UP MODE

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

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

POWER SEAT FUNCTION : Component Parts Location

INFOID:0000000007471892



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

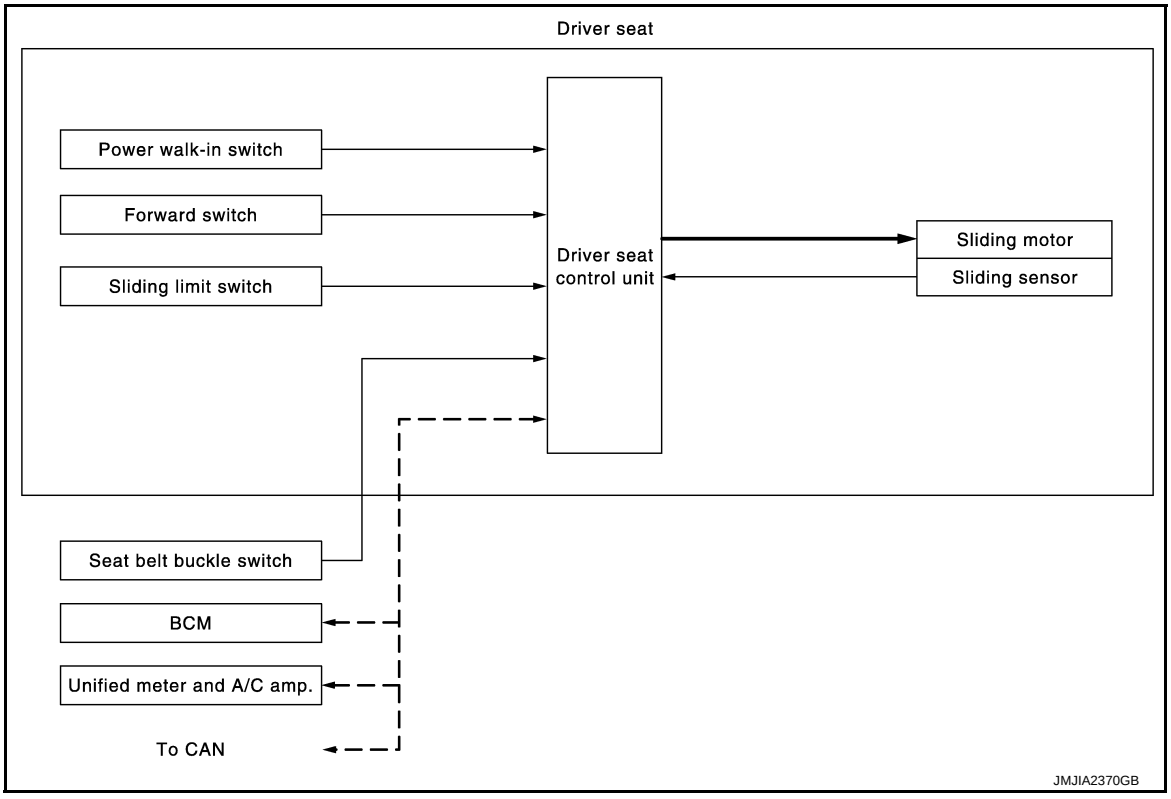
INFOID:0000000007471893

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:0000000007471894



POWER WALK-IN FUNCTION : System Description

INFOID:0000000007471895

OUTLINE

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

Forward Operation

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

Backward Operation

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

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

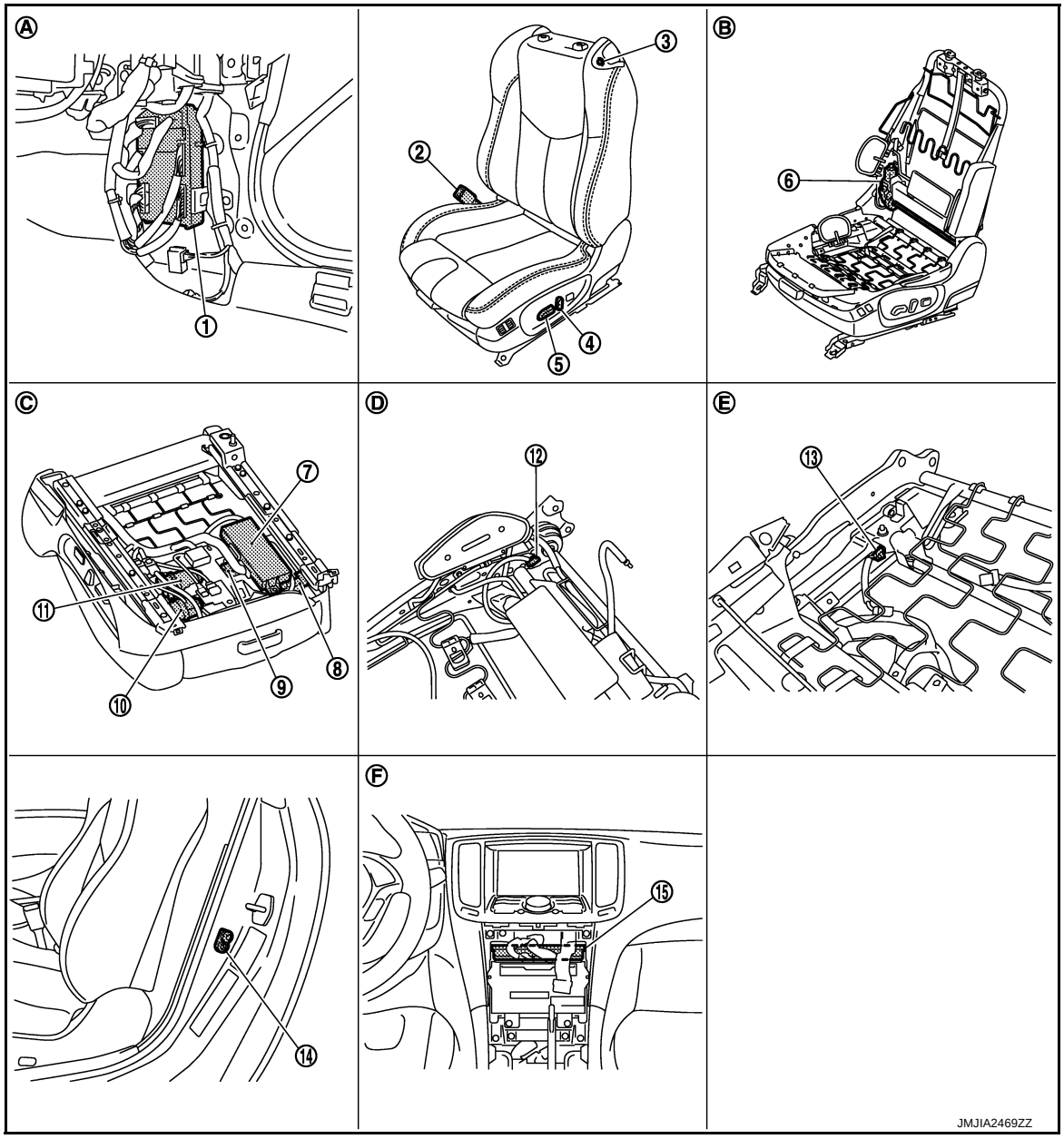
WAKE-UP MODE

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

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

POWER WALK-IN FUNCTION : Component Parts Location

INFOID:0000000007471896



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:0000000007471897

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

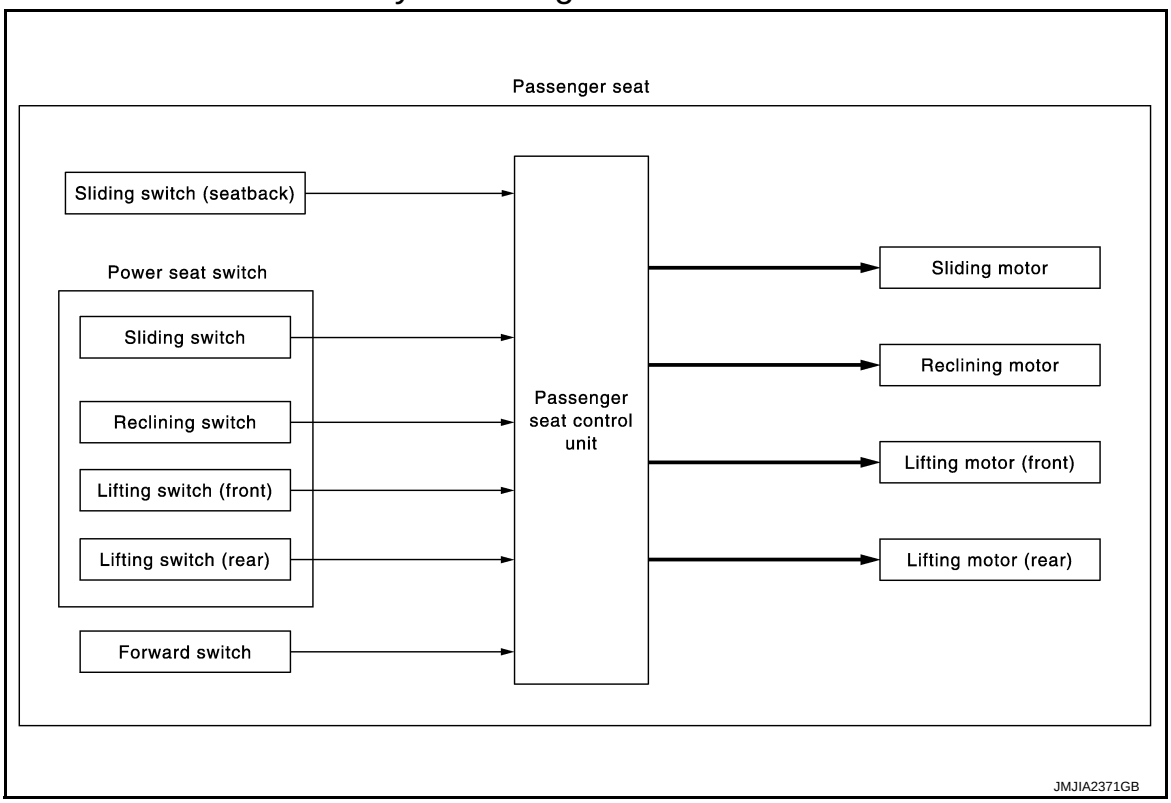
Item	Function
Sliding motor	Slides the seat forward/backward.

POWER SEAT FOR PASSENGER SIDE

POWER SEAT FUNCTION

POWER SEAT FUNCTION : System Diagram

INFOID:0000000007471898



POWER SEAT FUNCTION : System Description

INFOID:0000000007471899

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

SLIDING OPERATION

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

RECLINING OPERATION

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

LIFTING OPERATION

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

SLEEP MODE

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

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

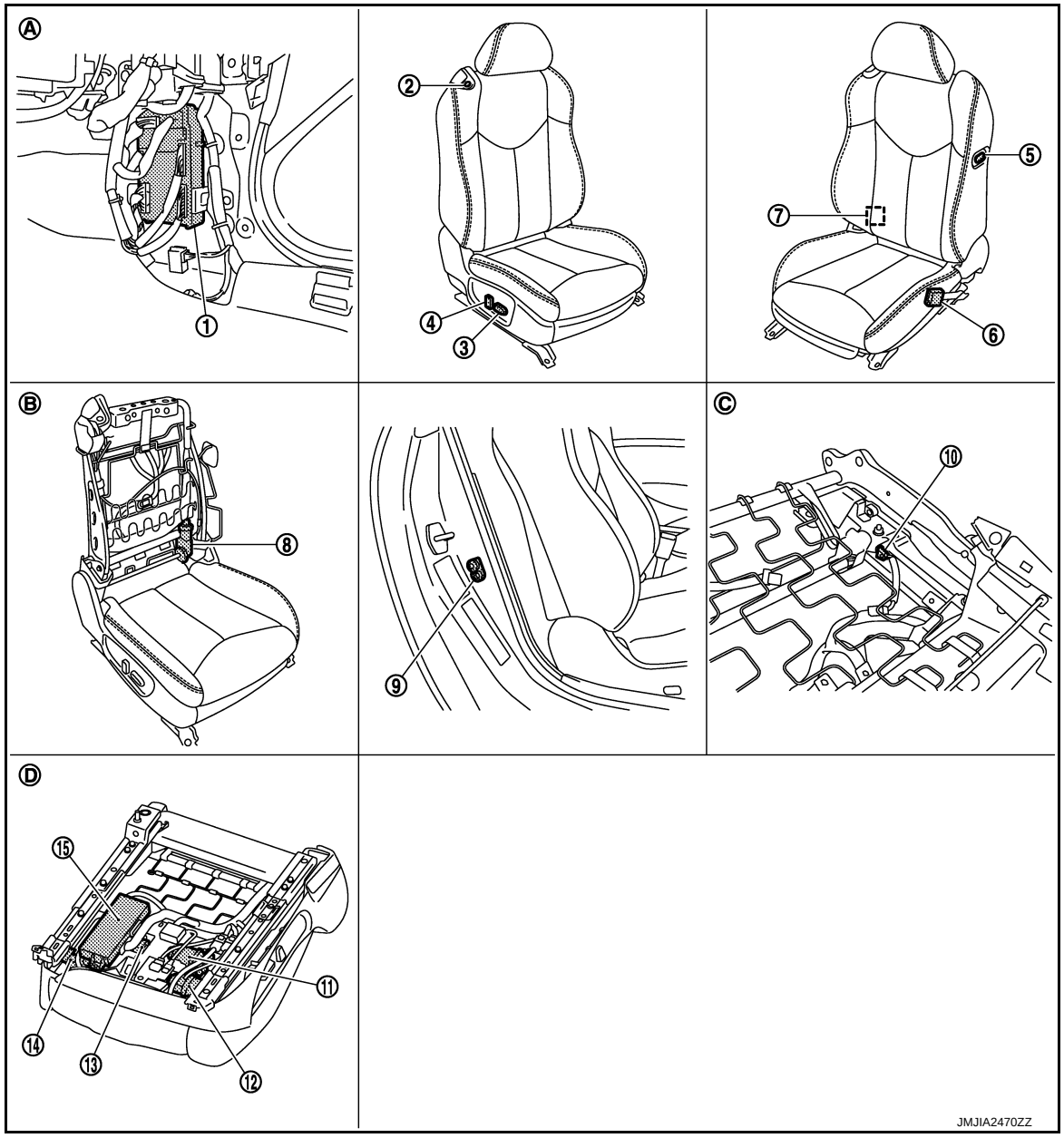
WAKE-UP MODE

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

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

POWER SEAT FUNCTION : Component Parts Location

INFOID:0000000007471900



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

*: With 8-way power passenger's seat

POWER SEAT FUNCTION : Component Description

INFOID:0000000007471901

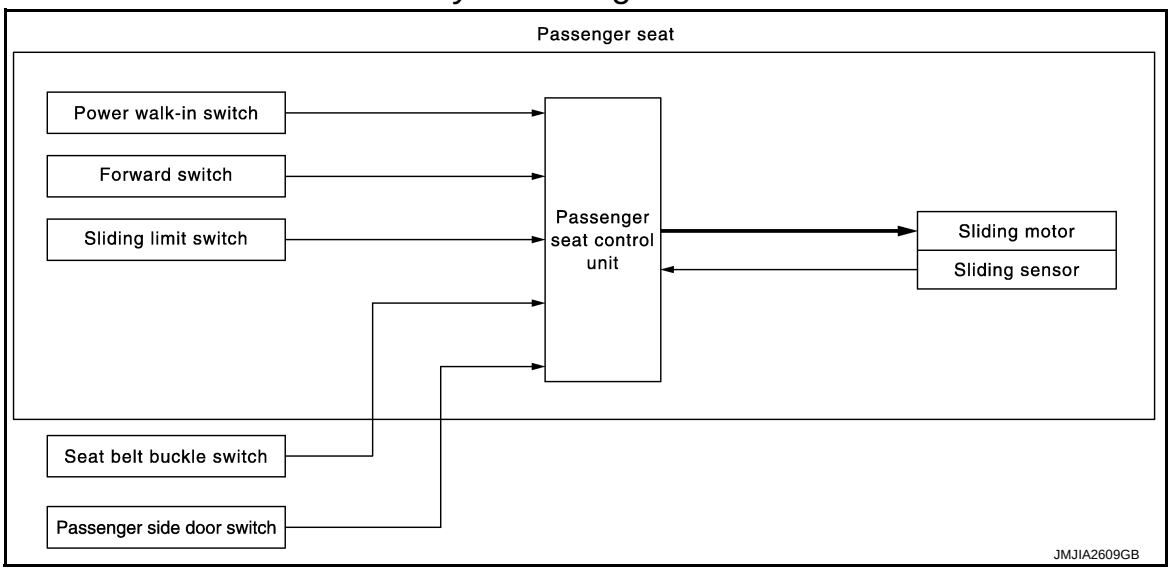
Item	Function
BCM	The power received from battery to passenger seat control unit is supplied at all times.
Passenger seat control unit	Operates each motor with the signal from the power seat switch and sliding switch (seatback).
Power seat switch	Built-in reclining switch, sliding switch, and lifting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

*: With 8-way power passenger's seat

POWER WALK-IN FUNCTION

POWER WALK-IN FUNCTION : System Diagram

INFOID:0000000007471902



POWER WALK-IN FUNCTION : System Description

INFOID:0000000007471903

OUTLINE

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

Forward Operation

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

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

Backward Operation

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

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

OPERATION PROCEDURE

Forward Operation

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

Backward Operation

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

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

OPERATION CONDITION

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

Forward Operation

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

Backward Operation

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

DETAIL FLOW

Forward Operation

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

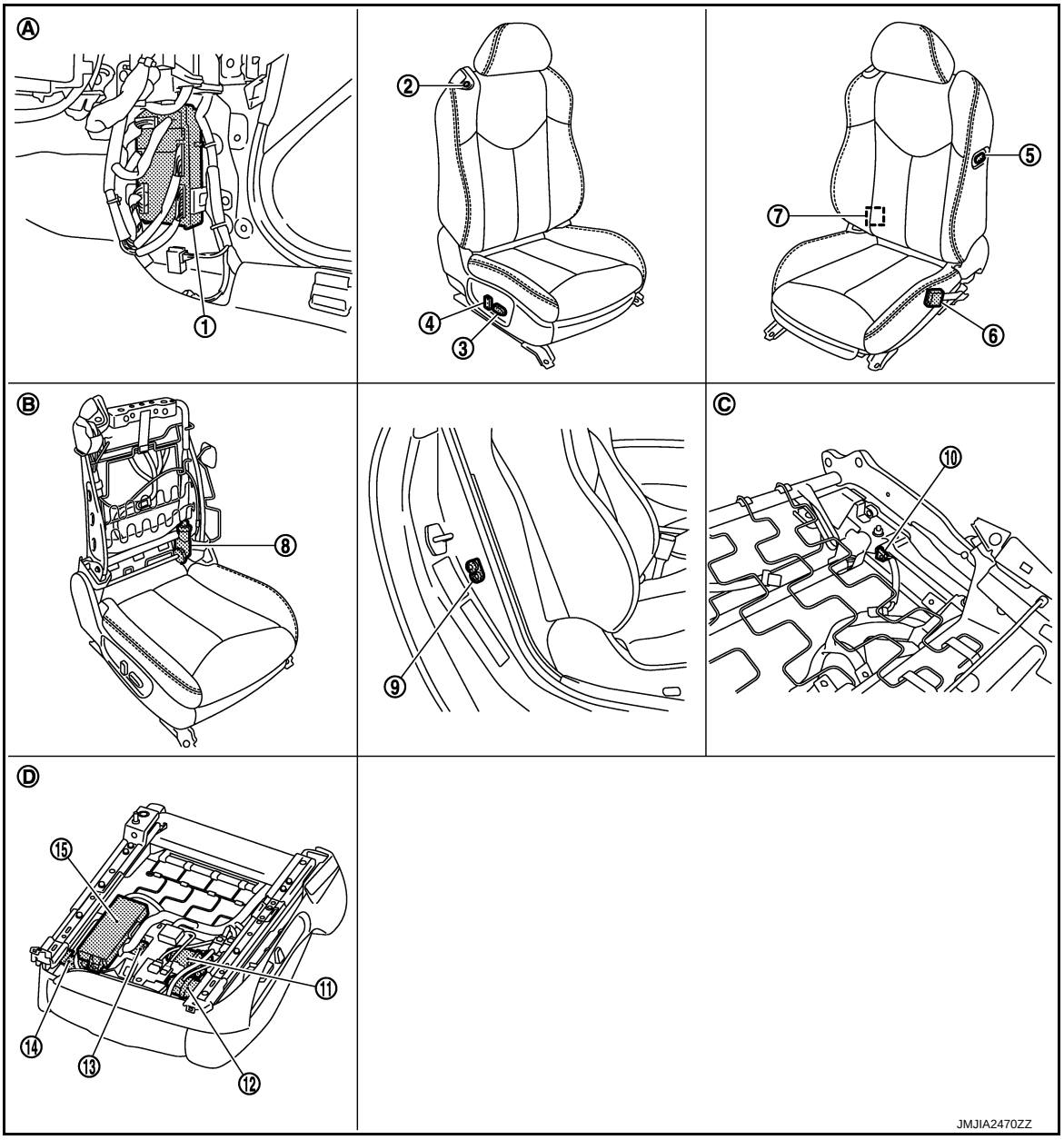
WAKE-UP MODE

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

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

POWER WALK-IN FUNCTION : Component Parts Location

INFOID:0000000007471904



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

*: With 8-way power passenger's seat

POWER WALK-IN FUNCTION : Component Description

INFOID:0000000007471905

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

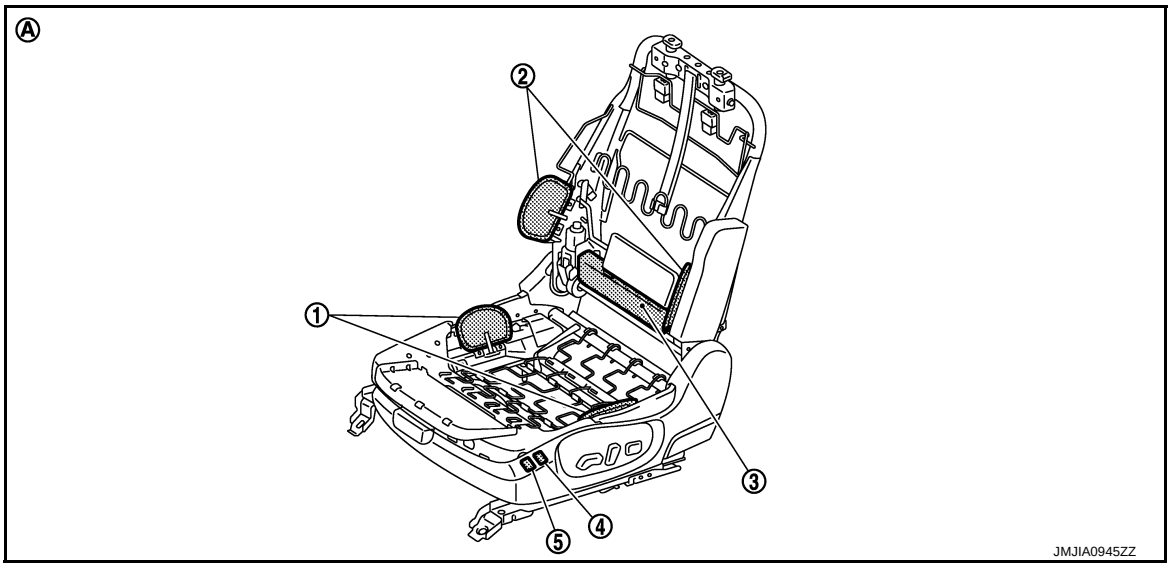
System Description

INFOID:0000000007471906

- 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:0000000007471907



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

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

Component Description

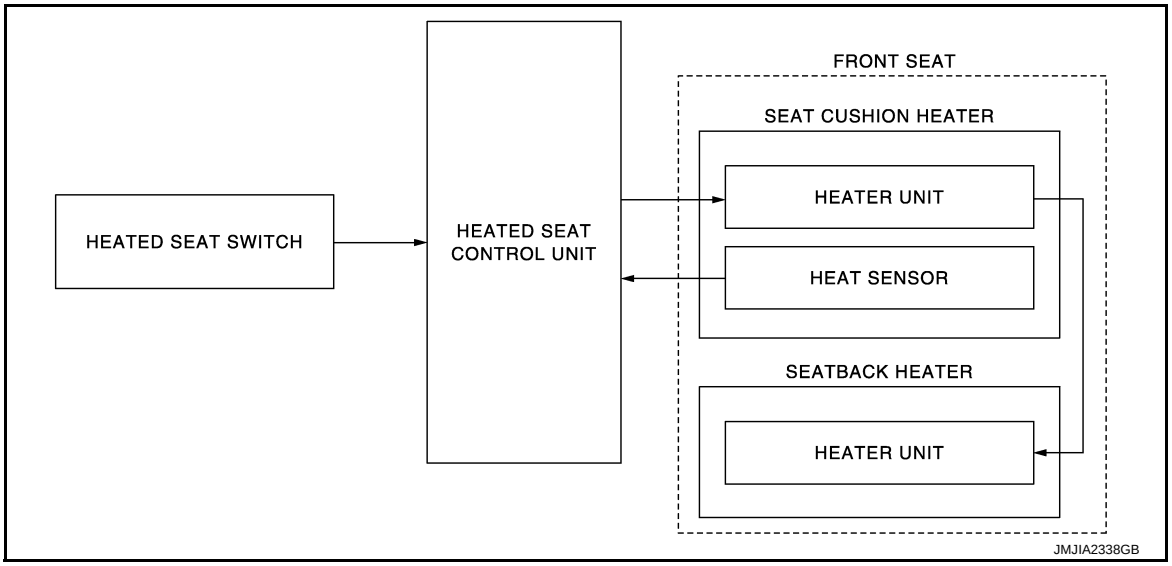
INFOID:0000000007471908

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

HEATED SEAT

System Diagram

INFOID:0000000007471909



System Description

INFOID:0000000007471910

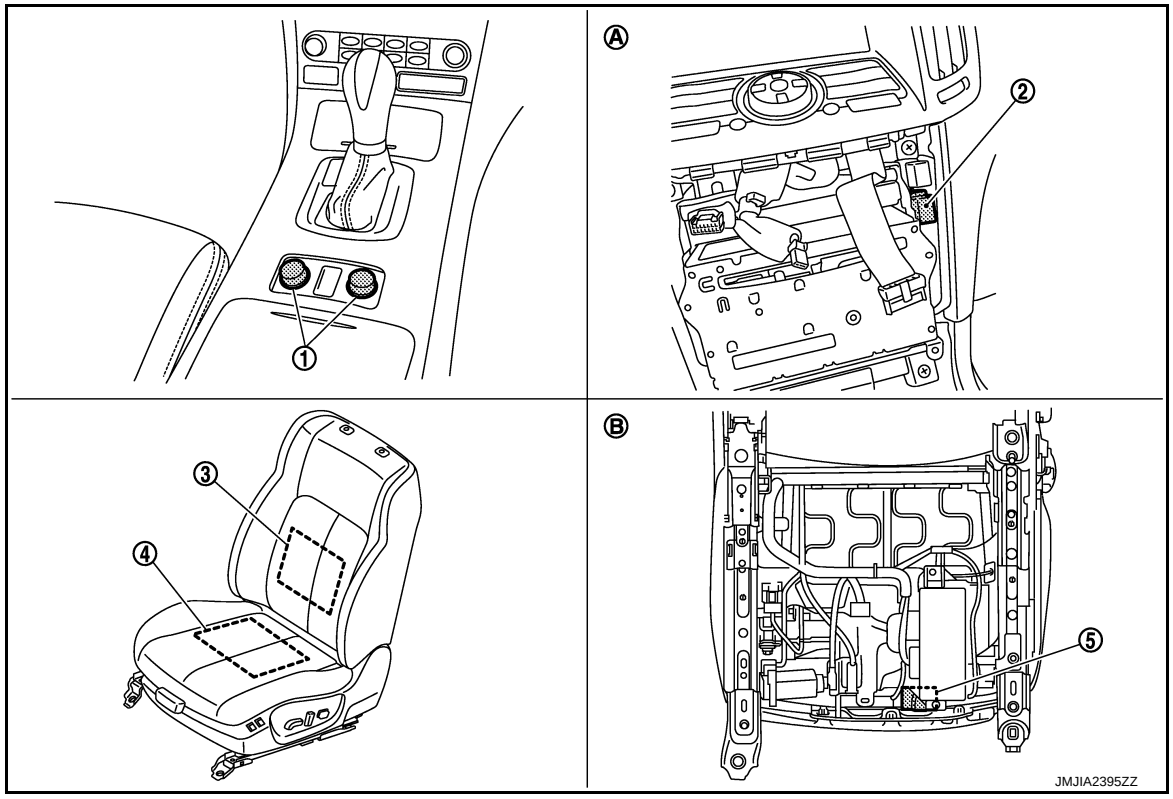
- Heated seat is activated by heated seat switch while ignition switch is ON, and is equipped with the function to warm seat cushion and seatback.
- Heated seat is equipped with the 6-stage temperature adjustment function that adjusts temperature by operating heated seat switch to the optimal position.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

OPERATION DESCRIPTION

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

Component Parts Location

INFOID:0000000007471911



1. Heated seat switch
   - Driver side
     A/T M141
     M/T M175
   - Passenger side
     A/T M142
     M/T M176
2. Seatback heater
   - Driver side B542
   - Passenger side B582
3. Seat cushion heater
   - Driver side B517, B541
   - Passenger side B574, B581
4. Heated seat relay M70
5. Heated seat control unit
   - Driver side B518
   - Passenger side B575

A. Behind cluster lid C
B. Backside of seat cushion

Component Description

INFOID:0000000007471912

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

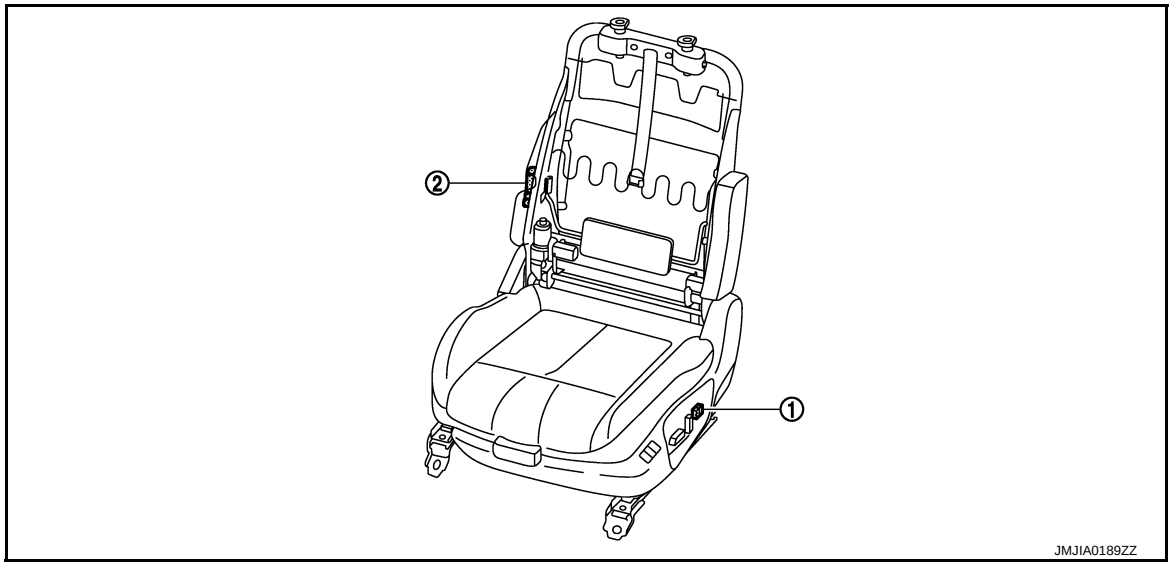
System Description

INFOID:0000000007471913

- 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:0000000007471914



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

Component Description

INFOID:0000000007471915

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

DIAGNOSIS SYSTEM (DRIVER SEAT C/U)

CONSULT Function

INFOID:0000000007792155

The automatic drive positioner system can be checked and diagnosed for component operation using CONSULT.

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	Drives each output device.
ECU PART NUMBER	Displays part numbers of driver seat control unit.

SELF DIAGNOSTIC RESULTS

Refer to ADP-181, "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*3	“ON/OFF”	×	×	ON/OFF status judged from the reclining switch (forward) signal.
RECLN SW–RR*3	“ON/OFF”	×	×	ON/OFF status judged from the reclining switch (backward) signal.
LIFT FR SW–UP*3	“ON/OFF”	×	×	ON/OFF status judged from the lifting switch front (upward) signal.
LIFT FR SW–DN*3	“ON/OFF”	×	×	ON/OFF status judged from the lifting switch front (downward) signal.
LIFT RR SW–UP*3	“ON/OFF”	×	×	ON/OFF status judged from the lifting switch rear (upward) signal.
LIFT RR SW–DN*3	“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.
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.

Monitor Item	Unit	Main Signals	Selection From Menu	Contents
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 buckle switch signal.
DETENT SW*1	“ON/OFF”	×	×	The selector lever position “OFF (P position) / ON (other than the 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 PULS*4	–	–	×	Value (32768) when battery connections are standard. If it moves backward, the value increases. If it moves forward, the value decreases.
LIFT FR PULSE*4	–	–	×	Value (32768) when battery connections are standard. If it moves DOWN, the value increases. If it moves UP, the value decreases.
LIFT RR PULSE*4	–	–	×	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.

*4: It is displayed but is not operated for models with driver seat without automatic driver positioner system.

ACTIVE TEST

CAUTION:

When driving vehicle, never 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).

Test item	Description
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.

*: Does not display without automatic driver position system.

DTC/CIRCUIT DIAGNOSIS

U1000 CAN COMM CIRCUIT

Description

INFOID:0000000007471918

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:0000000007471919

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.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to SE-30, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000007471920

Refer to LAN-24, "Interview Sheet".

Special Repair Requirement

INFOID:0000000007471921

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

B2112 SLIDING MOTOR

Description

INFOID:0000000007471922

- 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:0000000007471923

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.

Is the DTC detected?

YES >> Refer to SE-31, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000007471924

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Check “Self diagnostic result” using CONSULT.
3. Erase the DTC.
4. Perform DTC confirmation procedure. Refer to SE-31, "DTC Logic".

Is the DTC displayed again?

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

2.CHECK SLIDING MOTOR CIRCUIT (POWER SHORT)

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-180, "Removal and Installation"

4.CHECK INTERMITTENT INCIDENT

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

>> INSPECTION END

B2113 RECLINING MOTOR

Description

INFOID:0000000007471925

- 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:0000000007471926

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.

Is the DTC detected?

YES >> Refer to SE-33, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000007471927

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Check “Self diagnostic result” using CONSULT.
3. Erase the DTC.
4. Perform DTC confirmation procedure. Refer to SE-33, "DTC Logic".

Is the DTC displayed again?

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

2.CHECK RECLINING MOTOR CIRCUIT (POWER SHORT)

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

(+)		(–)	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-180, "Removal and Installation".

4.CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

POWER SUPPLY AND GROUND CIRCUIT

DRIVER SEAT CONTROL UNIT

DRIVER SEAT CONTROL UNIT : Diagnosis Procedure

INFOID:0000000007471928

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

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	K (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:0000000007471929

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 CIRCUIT

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

(+)		(–)	Voltage (V) (Approx.)
Passenger seat control unit			
Connector	Terminal		
B553	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 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.

HEATED SEAT CONTROL UNIT

HEATED SEAT CONTROL UNIT : Diagnosis Procedure

INFOID:0000000007471930

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	M70	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 >> Repair or replace harness between heated seat relay and fuse holder.
NO >> Repair or replace harness between heated seat control unit and heated seat relay.

4.CHECK POWER SUPPLY 2

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

(+)			(–)	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-101, "DRIVER SIDE : Component Inspection".
- Passenger side: Refer to SE-103, "PASSENGER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 8.
NO >> Replace heated seat switch. Refer to SE-187, "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	59		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-43, "Intermittent Incident".

>> INSPECTION END

HEATED SEAT SWITCH

HEATED SEAT SWITCH : Diagnosis Procedure

INFOID:0000000007471931

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				Continuity
Connector		Terminal	Ground	
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-43, "Intermittent Incident"

>> INSPECTION END

SLIDING SWITCH
DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000007471932

- 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:0000000007471933

1.CHECK FUNCTION

1. Turn ignition switch ON.
2. Select “SLIDE SW-FR”, “SLIDE SW-RR” in the “Data monitor” mode using CONSULT.
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-41, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000007471934

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-180, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK SLIDING SWITCH

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

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace power seat switch. Refer to SE-183, "Removal and Installation".

4.CHECK INTERMITTENT INCIDENT

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

>> INSPECTION END

DRIVER SIDE : Component Inspection

INFOID:0000000007471935

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-183, "Removal and Installation".

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000007471936

- 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:0000000007471937

1.CHECK FUNCTION

Check seat sliding operation with sliding switch.

Is the indication normal?

YES >> Sliding switch function is OK.
NO >> Refer to SE-43, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000007471938

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-44, "PASSENGER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 6.
NO >> Replace power seat switch. Refer to SE-183, "Removal and Installation".

5.CHECK SLIDING SWITCH (SEATBACK)

Check sliding switch (seatback).
Refer to SE-46, "SEATBACK : Component Inspection".

Is the inspection result normal?

YES >> GO TO 6.
NO >> Replace sliding switch (seatback). Refer to SE-163, "Exploded View".

6.CHECK INTERMITTENT INCIDENT

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

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:0000000007471939

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-183, "Removal and Installation".

SEATBACK

SEATBACK : Description

INFOID:0000000007471940

- 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:0000000007471941

1.CHECK FUNCTION

Check seat sliding operation with sliding switch (seatback).

Is the inspection result normal?

YES >> Sliding switch (seatback) function is OK.
NO >> Refer to SE-44, "SEATBACK : Diagnosis Procedure".

SEATBACK : Diagnosis Procedure

INFOID:0000000007471942

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-46, "SEATBACK : Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace sliding switch (seatback). Refer to SE-163, "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-181, "Removal and Installation".

6.CHECK INTERMITTENT INCIDENT

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

>> INSPECTION END

SEATBACK : Component Inspection

INFOID:0000000007471943

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-163, "Exploded View".

RECLINING SWITCH
DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000007471944

- 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:0000000007471945

1.CHECK FUNCTION

1. Turn ignition switch ON.
2. Select “RECLN SW-FR”, “RECLN SW-RR” in the “Data monitor” mode using CONSULT.
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-47, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000007471946

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-180, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK RECLINING SWITCH

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

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace power seat switch. Refer to SE-183, "Removal and Installation".

4.CHECK INTERMITTENT INCIDENT

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

>> INSPECTION END

DRIVER SIDE : Component Inspection

INFOID:0000000007471947

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-183, "Removal and Installation".

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000007471948

- 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:0000000007471949

1.CHECK FUNCTION

Check seat reclining operation with reclining switch.

Is the indication normal?

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

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000007471950

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-50, "PASSENGER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace power seat switch. Refer to SE-183, "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-181, "Removal and Installation".

5.CHECK INTERMITTENT INCIDENT

Check intermittent incident.
Refer toGI-43, "Intermittent Incident".

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:0000000007471951

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-183, "Removal and Installation".

LIFTING SWITCH (FRONT)
DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000007471952

- 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:0000000007471953

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.
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-51, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000007471954

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-180, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK LIFTING SWITCH (FRONT)

Check lifting switch (front).
Refer to SE-52, "DRIVER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace power seat switch. Refer to SE-183, "Removal and Installation".

4.CHECK INTERMITTENT INCIDENT

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

>> INSPECTION END

DRIVER SIDE : Component Inspection

INFOID:0000000007471955

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-183, "Removal and Installation".

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000007471956

- 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:0000000007471957

1.CHECK FUNCTION

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

Is the indication normal?

YES >> Lifting switch (front) function is OK.
NO >> Refer to SE-53, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000007471958

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-54, "PASSENGER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace power seat switch. Refer to SE-183, "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-181, "Removal and Installation".

5.CHECK INTERMITTENT INCIDENT

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

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:0000000007471959

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-183, "Removal and Installation".

LIFTING SWITCH (REAR)

DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000007471960

- 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:0000000007471961

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.
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-55, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000007471962

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-180, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK LIFTING SWITCH (REAR)

Check lifting switch (rear).
Refer to SE-56, "DRIVER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace power seat switch. Refer to SE-183, "Removal and Installation".

4.CHECK INTERMITTENT INCIDENT

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

>> INSPECTION END

DRIVER SIDE : Component Inspection

INFOID:0000000007471963

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-183, "Removal and Installation".

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000007471964

- 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:0000000007471965

1.CHECK FUNCTION

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

Is the indication normal?

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

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000007471966

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-58, "PASSENGER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace power seat switch. Refer to SE-183, "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-181, "Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

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

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:0000000007471967

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-183, "Removal and Installation".

POWER SEAT SWITCH GROUND CIRCUIT

DRIVER SIDE

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000007471968

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-56, "DRIVER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 3.
NO >> Replace power seat switch. Refer to SE-183, "Removal and Installation".

3.CHECK INTERMITTENT INCIDENT

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

>> INSPECTION END

PASSENGER SIDE

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000007471969

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-44, "PASSENGER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 3.
NO >> Replace power seat switch. Refer to SE-183, "Removal and Installation".

3.CHECK INTERMITTENT INCIDENT

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

>> INSPECTION END

FORWARD SWITCH
DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000007471970

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

DRIVER SIDE : Component Function Check

INFOID:0000000007471971

1.CHECK FUNCTION

1. Turn ignition switch ON.
2. Select “FORWARD SW” in the “Data Monitor” mode using CONSULT.
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-61, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000007471972

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-180, "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-62, "DRIVER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace forward switch. Refer to SE-163, "Exploded View".

5.CHECK INTERMITTENT INCIDENT

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

>> INSPECTION END

DRIVER SIDE : Component Inspection

INFOID:0000000007471973

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-163, "Exploded View".

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000007471974

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

PASSENGER SIDE : Component Function Check

INFOID:0000000007471975

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-63, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000007471976

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-64, "PASSENGER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace forward switch. Refer to SE-163, "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-181, "Removal and Installation".

6.CHECK INTERMITTENT INCIDENT

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

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:0000000007471977

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-163, "Exploded View".

SEAT BELT BUCKLE SWITCH
DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000007471978

- 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:0000000007471979

1.CHECK FUNCTION

1. Turn ignition switch ON.
2. Select “SEAT BELT SW” in the “Data Monitor” mode using CONSULT.
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-65, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000007471980

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-180, "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-66, "DRIVER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace seat belt buckle switch (driver side). Refer to SE-163, "Exploded View".

5.CHECK INTERMITTENT INCIDENT

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

>> INSPECTION END

DRIVER SIDE : Component Inspection

INFOID:0000000007471981

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-163, "Exploded View".

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000007471982

- 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:0000000007471983

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-67, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000007471984

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-68, "PASSENGER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace seat belt buckle switch (passenger side). Refer to SE-163, "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-181, "Removal and Installation".

6.CHECK INTERMITTENT INCIDENT

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

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:0000000007471985

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-163, "Exploded View".

SLIDING LIMIT SWITCH
DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000007471986

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

DRIVER SIDE : Component Function Check

INFOID:0000000007471987

1.CHECK FUNCTION

1. Turn ignition switch ON.
2. Select “FWD LIMIT SW” in the “Data Monitor” mode using CONSULT.
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-69, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000007471988

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-180, "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-70, "DRIVER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace sliding limit switch. Refer to SE-163, "Exploded View".

5.CHECK INTERMITTENT INCIDENT

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

>> INSPECTION END

DRIVER SIDE : Component Inspection

INFOID:0000000007471989

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-163, "Exploded View".

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000007471990

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

PASSENGER SIDE : Component Function Check

INFOID:0000000007471991

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-71, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000007471992

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-72, "PASSENGER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace sliding limit switch. Refer to SE-163, "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-181, "Removal and Installation".

6.CHECK INTERMITTENT INCIDENT

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

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:0000000007471993

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-163, "Exploded View".

POWER WALK-IN SWITCH
DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000007471994

- 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:0000000007471995

1.CHECK FUNCTION

1. Turn ignition switch ON.
2. Select “WALK-IN SW” in the “Data Monitor” mode using CONSULT.
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-73, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000007471996

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-180, "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-74, "DRIVER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace power walk-in switch. Refer to SE-163, "Exploded View".

5.CHECK INTERMITTENT INCIDENT

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

>> INSPECTION END

DRIVER SIDE : Component Inspection

INFOID:0000000007471997

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-163, "Exploded View".

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000007471998

- 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:0000000007471999

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-75, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000007472000

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-76, "PASSENGER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace power walk-in switch. Refer to SE-163, "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-181, "Removal and Installation".

6.CHECK INTERMITTENT INCIDENT

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

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:0000000007472001

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-163, "Exploded View".

DOOR SWITCH

Description

INFOID:0000000007472002

Detects passenger side doors open or closed condition.

Component Function Check

INFOID:0000000007472003

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-77, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000007472004

1.CHECK PASSENGER SIDE DOOR SWITCH

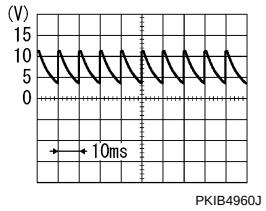
Check passenger side door switch.
Refer to SE-77, "Component Function Check".

Is the inspection result normal?

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

2.CHECK PASSENGER SIDE DOOR SWITCH INPUT SIGNAL

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

(+)		(–)	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	2		Not existed

Is the inspection result normal?

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

4. CHECK INTERMITTENT INCIDENT

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

>> INSPECTION END

SLIDING SENSOR
DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000007472005

- 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:0000000007472006

1.CHECK FUNCTION

1. Turn ignition switch ON.
2. Select “SLIDE PULSE” in the “Data Monitor” mode using CONSULT.
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?

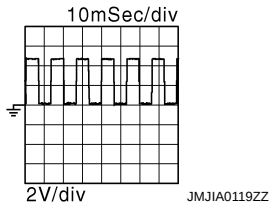
YES >> Sliding sensor function is OK.
NO >> Refer to SE-79, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000007472007

1.CHECK SLIDING SENSOR SIGNAL

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

(+)		(–)	Condition		Signal (Reference value)
Sliding sensor					
Connector	Terminal				
B526	24	Ground	Seat sliding	Operate	
				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-180, "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-180, "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-163, "Exploded View".
NO >> Replace driver seat control unit. Refer to SE-180, "Removal and Installation".

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000007472008

- 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:0000000007472009

1.CHECK FUNCTION

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

Is the indication normal?

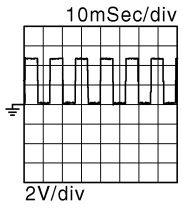
YES >> Sliding sensor function is OK.
NO >> Refer to SE-81, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000007472010

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-181, "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-163, "Exploded View".
NO >> Replace passenger seat control unit. Refer to SE-181, "Removal and Installation".

SLIDING MOTOR
DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000007472011

- 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:0000000007472012

1.CHECK FUNCTION

1. Turn ignition switch ON.
2. Select “SEAT SLIDE” in the “Active Test” mode using CONSULT.
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-84, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000007472013

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

2.CHECK SLIDING MOTOR CIRCUIT

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

Sliding 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-180, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK SLIDING MOTOR

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

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace sliding motor. Refer to SE-163, "Exploded View".

4.CHECK INTERMITTENT INCIDENT

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

>> INSPECTION END

DRIVER SIDE : Component Inspection

INFOID:0000000007472014

1.CHECK SLIDING MOTOR-1

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

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace seat cushion frame (sliding motor).

2.CHECK SLIDING MOTOR-2

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

Item	Terminal		Operation
	(+)	(–)	
Sliding motor	35	42	Forward
	42	35	Backward

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace sliding motor. Refer to SE-163, "Exploded View".

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000007472015

- 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:0000000007472016

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-86, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000007472017

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

2.CHECK SLIDING MOTOR CIRCUIT

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

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-181, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK SLIDING MOTOR

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

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace sliding motor. Refer to SE-163, "Exploded View".

4.CHECK INTERMITTENT INCIDENT

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

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:0000000007472018

1.CHECK SLIDING MOTOR-1

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

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace seat cushion frame (sliding motor).

2.CHECK SLIDING MOTOR-2

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

Item	Terminal		Operation
	(+)	(–)	
Sliding motor	35	42	Forward
	42	35	Backward

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace sliding motor. Refer to SE-163, "Exploded View".

RECLINING MOTOR
DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000007472019

- 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:0000000007472020

1.CHECK RECLINING MOTOR FUNCTION

Check reclining operation with power seat switch.

Is the inspection result normal?

YES >> Reclining motor function is OK.
NO >> Refer to SE-88, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000007472021

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 >> GO TO 3.
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-180, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK RECLINING MOTOR

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

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace reclining motor. Refer to SE-163, "Exploded View".

4.CHECK INTERMITTENT INCIDENT

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

>> INSPECTION END

DRIVER SIDE : Component Inspection

INFOID:0000000007472022

1.CHECK RECLINING MOTOR-1

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

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace seatback frame (reclining motor).

2.CHECK RECLINING MOTOR-2

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

Item	Terminal		Operation
	(+)	(–)	
Reclining motor	36	44	Forward
	44	36	Backward

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace reclining motor. Refer to SE-163, "Exploded View".

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000007472023

- 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:0000000007472024

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-89, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000007472025

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

2.CHECK RECLINING MOTOR CIRCUIT

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

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-181, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK RECLINING MOTOR

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

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace reclining motor. Refer to SE-163, "Exploded View".

4.CHECK INTERMITTENT INCIDENT

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

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:0000000007472026

1.CHECK RECLINING MOTOR-1

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

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace seatback frame (reclining motor).

2.CHECK RECLINING MOTOR-2

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

Item	Terminal		Operation
	(+)	(–)	
Reclining motor	36	44	Forward
	44	36	Backward

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace reclining motor. Refer to SE-163, "Exploded View".

LIFTING MOTOR (FRONT)
DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000007472027

- 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:0000000007472028

1.CHECK LIFTING MOTOR (FRONT) FUNCTION

Check lifting operation with power seat switch.

Is the inspection result normal?

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

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000007472029

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 >> GO TO 3.
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-180, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK LIFTING MOTOR (FRONT)

Check lifting motor (front).
Refer to SE-93, "DRIVER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace lifting motor (front). Refer to SE-163, "Exploded View".

4.CHECK INTERMITTENT INCIDENT

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

>> INSPECTION END

DRIVER SIDE : Component Inspection

INFOID:0000000007472030

1.CHECK LIFTING MOTOR (FRONT) -1

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

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace seat cushion frame (lifting motor).

2.CHECK LIFTING MOTOR (FRONT) -2

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

Item	Terminal		Operation
	(+)	(–)	
Lifting motor (front)	37	45	Downward
	45	37	Upward

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace lifting motor (front). Refer to SE-163, "Exploded View".

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000007472031

- 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:0000000007472032

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-93, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000007472033

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

2.CHECK LIFTING MOTOR (FRONT) CIRCUIT

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

Lifting 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-181, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK LIFTING MOTOR (FRONT)

Check lifting motor (front).
Refer to SE-94, "PASSENGER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace lifting motor (front). Refer to SE-163, "Exploded View".

4.CHECK INTERMITTENT INCIDENT

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

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:0000000007472034

1.CHECK LIFTING MOTOR (FRONT) -1

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

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace seat cushion frame (lifting motor).

2.CHECK LIFTING MOTOR (FRONT) -2

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

Item	Terminal		Operation
	(+)	(–)	
Lifting motor (front)	37	45	Downward
	45	37	Upward

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace lifting motor (front). Refer to SE-163, "Exploded View".

LIFTING MOTOR (REAR)
DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000007472035

- 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:0000000007472036

1.CHECK LIFTING MOTOR (REAR) FUNCTION

Check lifting operation with power seat switch.

Is the inspection result normal?

YES >> Lifting motor (rear) function is OK.
NO >> Refer to SE-96, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000007472037

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 >> GO TO 3.
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-180, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK LIFTING MOTOR (REAR)

Check lifting motor (rear).
Refer to SE-97, "DRIVER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace lifting motor (rear). Refer to SE-163, "Exploded View".

4.CHECK INTERMITTENT INCIDENT

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

>> INSPECTION END

DRIVER SIDE : Component Inspection

INFOID:0000000007472038

1.CHECK LIFTING MOTOR (REAR) -1

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

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace seat cushion frame (lifting motor).

2.CHECK LIFTING MOTOR (REAR) -2

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

Item	Terminal		Operation
	(+)	(–)	
Lifting motor (rear)	38	39	Upward
	39	38	Downward

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace lifting motor (rear).

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000007472039

- 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:0000000007472040

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-97, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000007472041

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

2.CHECK LIFTING MOTOR (REAR) CIRCUIT

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

Lifting 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-181, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK LIFTING MOTOR (REAR)

Check lifting motor (rear).
Refer to SE-98, "PASSENGER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace lifting motor (rear). Refer to SE-163, "Exploded View".

4.CHECK INTERMITTENT INCIDENT

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

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:0000000007472042

1.CHECK LIFTING MOTOR (REAR) -1

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

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace seat cushion frame (lifting motor).

2.CHECK LIFTING MOTOR (REAR) -2

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

Item	Terminal		Operation
	(+)	(–)	
Lifting motor (rear)	38	39	Up
	39	38	Down

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace lifting motor (rear). Refer to SE-163, "Exploded View".

HEATED SEAT SWITCH
DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000007472043

Adjusts heated seat temperature and deactivates heated seat.

DRIVER SIDE : Component Function Check

INFOID:0000000007472044

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-100, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000007472045

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-101, "DRIVER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace heated seat switch. Refer to SE-187, "Removal and Installation".

4.CHECK INTERMITTENT INCIDENT

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

>> INSPECTION END

DRIVER SIDE : Component Inspection

INFOID:0000000007472046

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-187, "Removal and Installation".

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000007472047

Adjusts heated seat temperature and deactivates heated seat.

PASSENGER SIDE : Component Function Check

INFOID:0000000007472048

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-102, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000007472049

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-103, "PASSENGER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace heated seat switch. Refer to SE-187, "Removal and Installation".

4.CHECK INTERMITTENT INCIDENT

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

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:0000000007472050

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-187, "Removal and Installation".

HEATED SEAT RELAY

Description

INFOID:0000000007472051

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

Component Function Check

INFOID:0000000007472052

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-104, "Diagnosis Procedure"

Diagnosis Procedure

INFOID:0000000007472053

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		
M70	2	Ground	Battery voltage

Is the inspection result normal?

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

2.CHECK HEATED SEAT RELAY POWER SUPPLY CIRCUIT

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

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

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

Heated seat relay		Ground	Continuity
Connector	Terminal		
M70	2		Not existed

Is the inspection result normal?

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

3.CHECK HEATED SEAT RELAY GROUND CIRCUIT

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

Heated seat relay		Ground	Continuity
Connector	Terminal		
M70	1		Existed

Is the inspection result normal?

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

4.CHECK HEATED SEAT RELAY

Check heated seat relay.
Refer to SE-105, "Component Inspection".

Is the inspection result normal?

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

5.CHECK INTERMITTENT INCIDENT

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

>> INSPECTION END

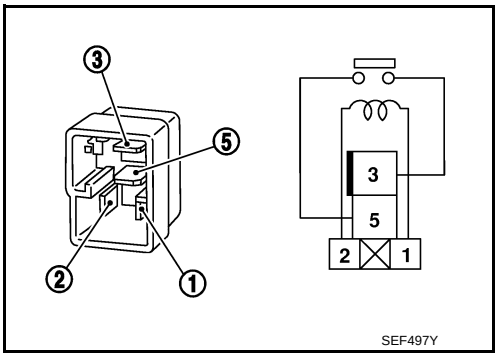
Component Inspection

INFOID:0000000007472054

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



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Is the inspection result normal?

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

HEAT SENSOR
DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000007472055

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

DRIVER SIDE : Component Function Check

INFOID:0000000007472056

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-106, "DRIVER SIDE : Diagnosis Procedure"

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000007472057

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-107, "DRIVER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 6.
NO >> Replace seat cushion heater. Refer to SE-166, "Removal and Installation".

6.CHECK INTERMITTENT INCIDENT

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

>> INSPECTION END

DRIVER SIDE : Component Inspection

INFOID:0000000007472058

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-163, "Exploded View".

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000007472059

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

PASSENGER SIDE : Component Function Check

INFOID:0000000007472060

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-108, "PASSENGER SIDE : Diagnosis Procedure"

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000007472061

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-110, "PASSENGER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 6.
NO >> Replace seat cushion heater. Refer to SE-163, "Exploded View".

6.CHECK INTERMITTENT INCIDENT

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

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:0000000007472062

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-163, "Exploded View".

SEAT CUSHION HEATER

DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000007472063

Warms the seat cushion.

DRIVER SIDE : Component Function Check

INFOID:0000000007472064

1.CHECK FUNCTION

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

Is the inspection result normal?

YES >> Seat cushion heater function is OK.
NO >> Refer to SE-111, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000007472065

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-182, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK SEAT CUSHION HEATER

Check seat cushion heater.
Refer to SE-112, "DRIVER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace seat cushion heater. Refer to SE-163, "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	59		Existed

Is the inspection result normal?

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

5.CHECK INTERMITTENT INCIDENT

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

>> INSPECTION END

DRIVER SIDE : Component Inspection

INFOID:0000000007472066

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			
59	68	When heat sensor temperature is 20°C (68°F)	2.6 – 3.0

NOTE:
Resistance value changes according to temperature.

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace seat cushion heater. Refer to SE-163, "Exploded View".

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000007472067

Warms the seat cushion.

PASSENGER SIDE : Component Function Check

INFOID:0000000007472068

1.CHECK FUNCTION

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

Is the inspection result normal?

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

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000007472069

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-182, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK SEAT CUSHION HEATER

Check seat cushion heater.
Refer to SE-114, "PASSENGER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace seat cushion heater. Refer to SE-163, "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	59		Existed

Is the inspection result normal?

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

5.CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-43, "Intermittent Incident"

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:0000000007472070

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			
59	68	When heat sensor temperature is 20°C (68°F)	2.6 – 3.0

NOTE:
Resistance value changes according to temperature.

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace seat cushion heater. Refer to SE-163, "Exploded View".

SEATBACK HEATER

DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000007472071

Warms the seat cushion.

DRIVER SIDE : Component Function Check

INFOID:0000000007472072

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-115, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000007472073

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-163, "Exploded View".
NO >> Replace seatback heater. Refer to SE-163, "Exploded View".

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000007472074

Warms the seat cushion.

PASSENGER SIDE : Component Function Check

INFOID:0000000007472075

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-115, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000007472076

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-163, "Exploded View".
NO >> Replace seatback heater. Refer to SE-163, "Exploded View".

HEATED SEAT SWITCH INDICATOR

DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000007472077

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

DRIVER SIDE : Component Function Check

INFOID:0000000007472078

1.CHECK FUNCTION

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

Is the inspection result normal?

YES >> Heated seat switch indicator function is OK.
NO >> Refer to SE-117, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000007472079

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-187, "Removal and Installation".
NO >> Repair or replace harness.

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000007472080

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

PASSENGER SIDE : Component Function Check

INFOID:0000000007472081

1.CHECK FUNCTION

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

Is the inspection result normal?

YES >> Heated seat switch indicator function is OK.
NO >> Refer to SE-117, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000007472082

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?

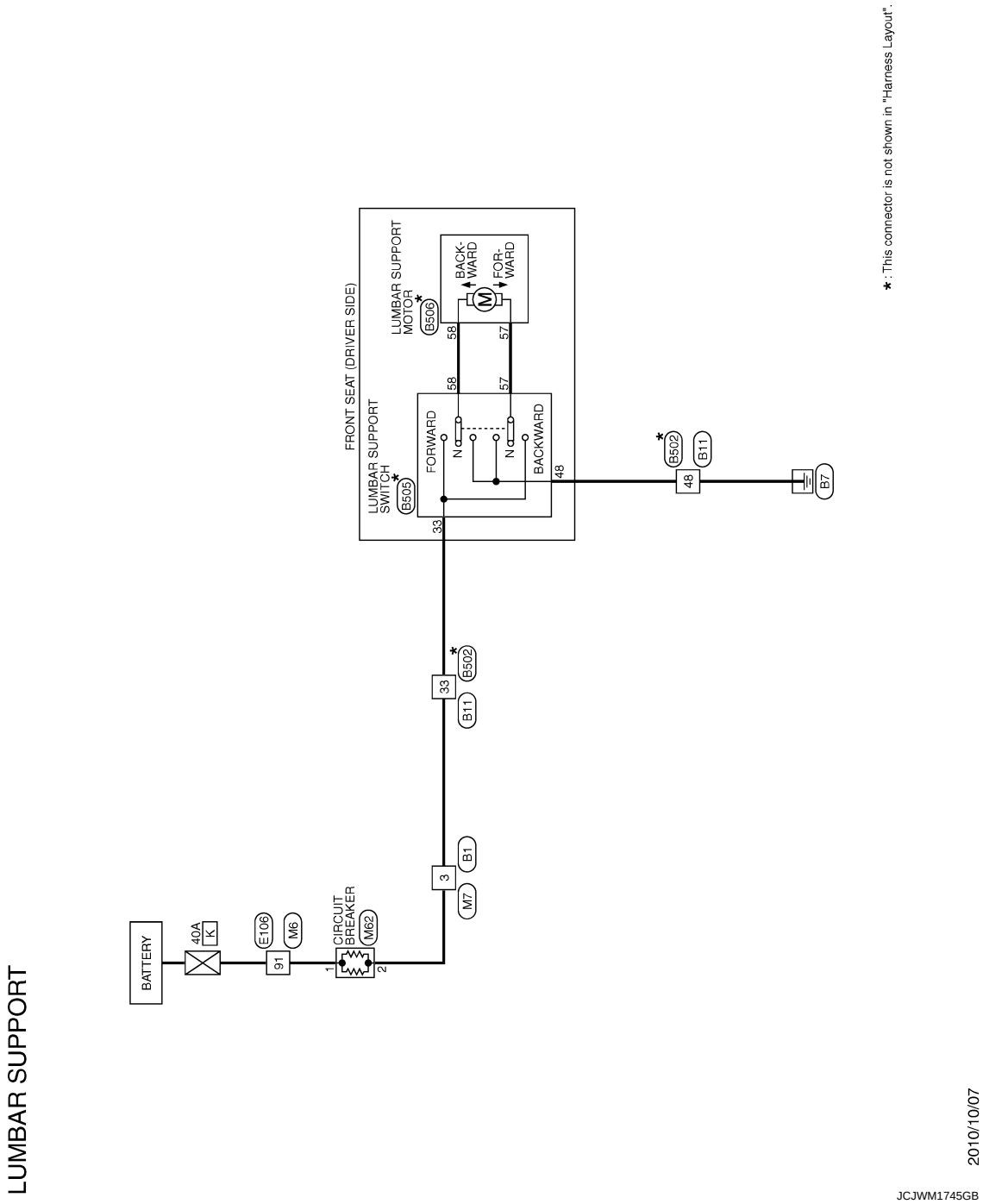
YES >> Replace heated seat switch. Refer to SE-187, "Removal and Installation".
NO >> Repair or replace harness.

LUMBAR SUPPORT

Wiring Diagram - LUMBAR SUPPORT -

INFOID:0000000007472083

For connector terminal arrangements, harness layouts, and alphabets in a ⬡ (option abbreviation; if not described in wiring diagram), refer to GI-12, "Connector Information".

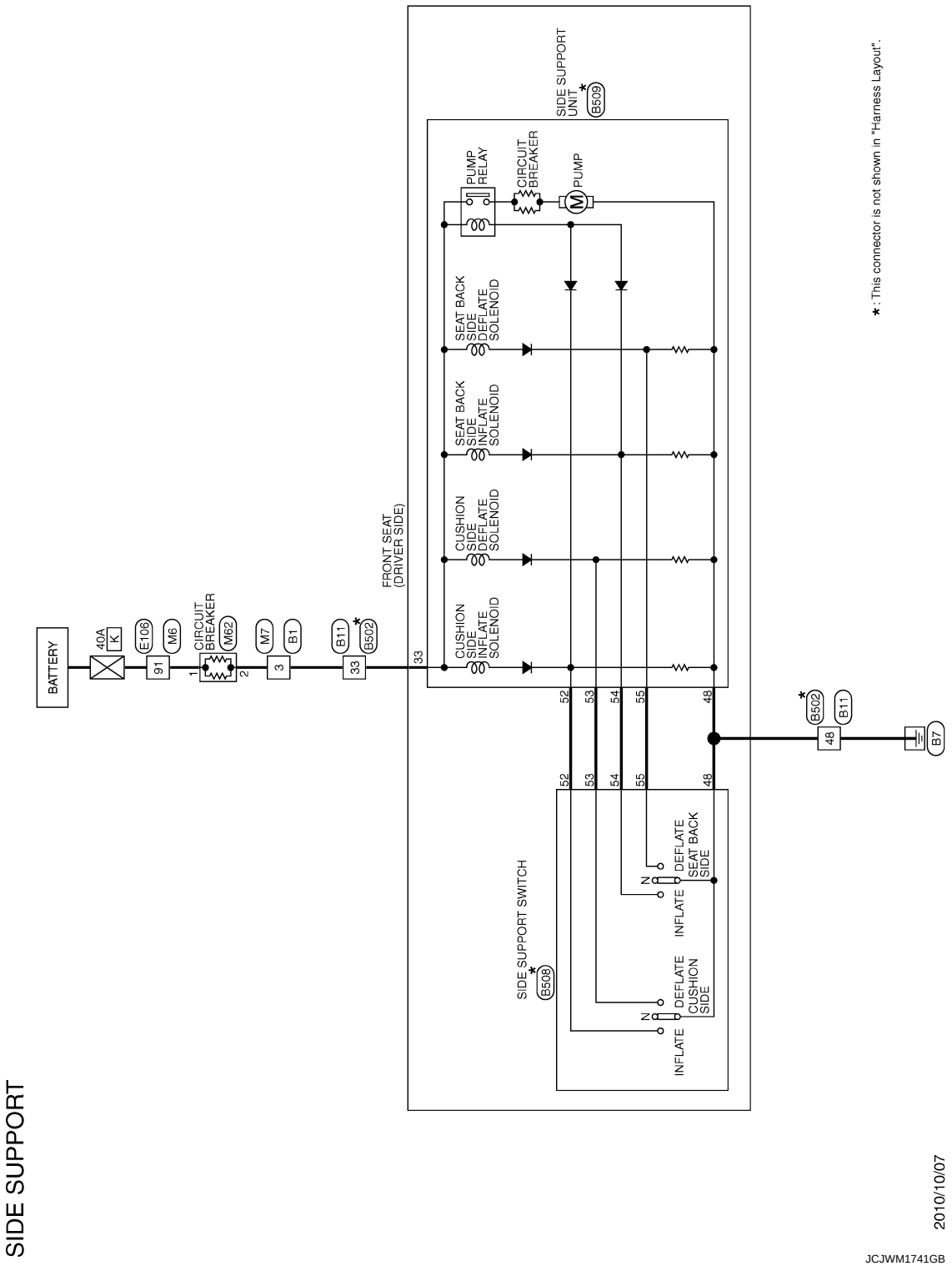


SIDE SUPPORT

Wiring Diagram - SIDE SUPPORT -

INFOID:0000000007472084

For connector terminal arrangements, harness layouts, and alphabets in a ⬡ (option abbreviation; if not described in wiring diagram), refer to GI-12, "Connector Information".



ECU DIAGNOSIS INFORMATION

DRIVER SEAT CONTROL UNIT (WITHOUT AUTOMATIC DRIVE POSITIONER)

Reference Value

INFOID:0000000007472085

VALUES ON THE DIAGNOSIS TOOL

CONSULT MONITOR ITEM

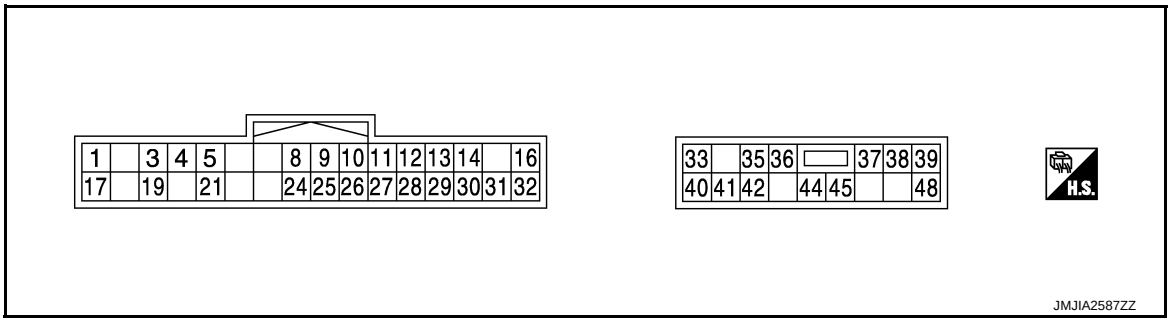
Monitor Item	Condition		Value/Status
SLIDE SW–FR	Sliding switch (front)	Operate	ON
		Release	OFF
SLIDE SW–RR	Sliding switch (rear)	Operate	ON
		Release	OFF
FORWARD SW	Seat back	Folded down	ON
		Other than above	OFF
WALK-IN SW	Power walk-in switch	Pressed	ON
		Other than above	OFF
FWD LIMIT SW	Seat sliding	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

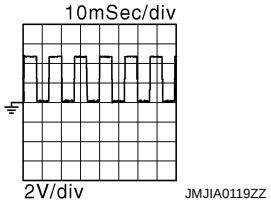
*2: M/T model

*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.

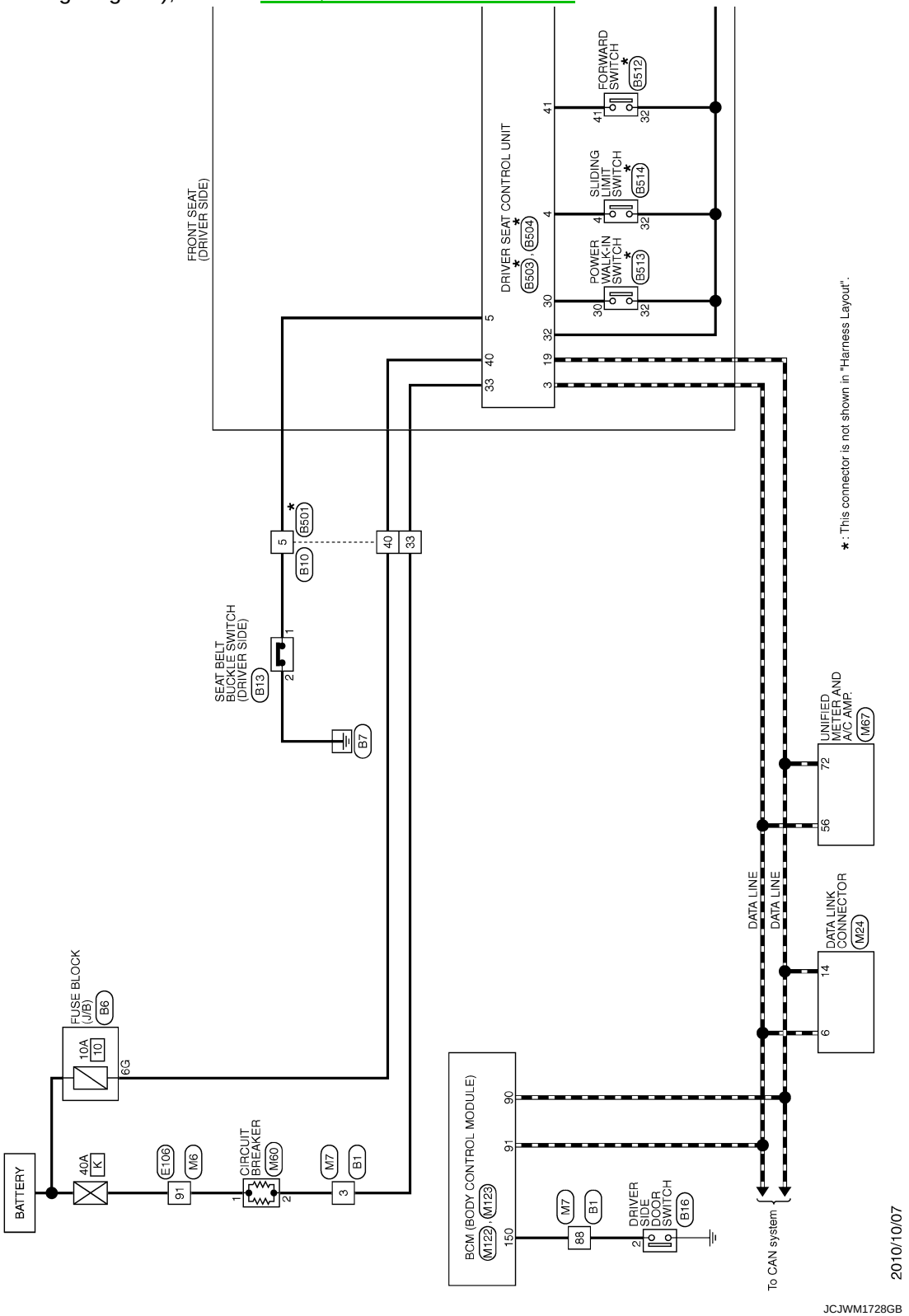
Wiring Diagram - POWER SEAT SYSTEM FOR DRIVER SIDE (WITHOUT AUTO-

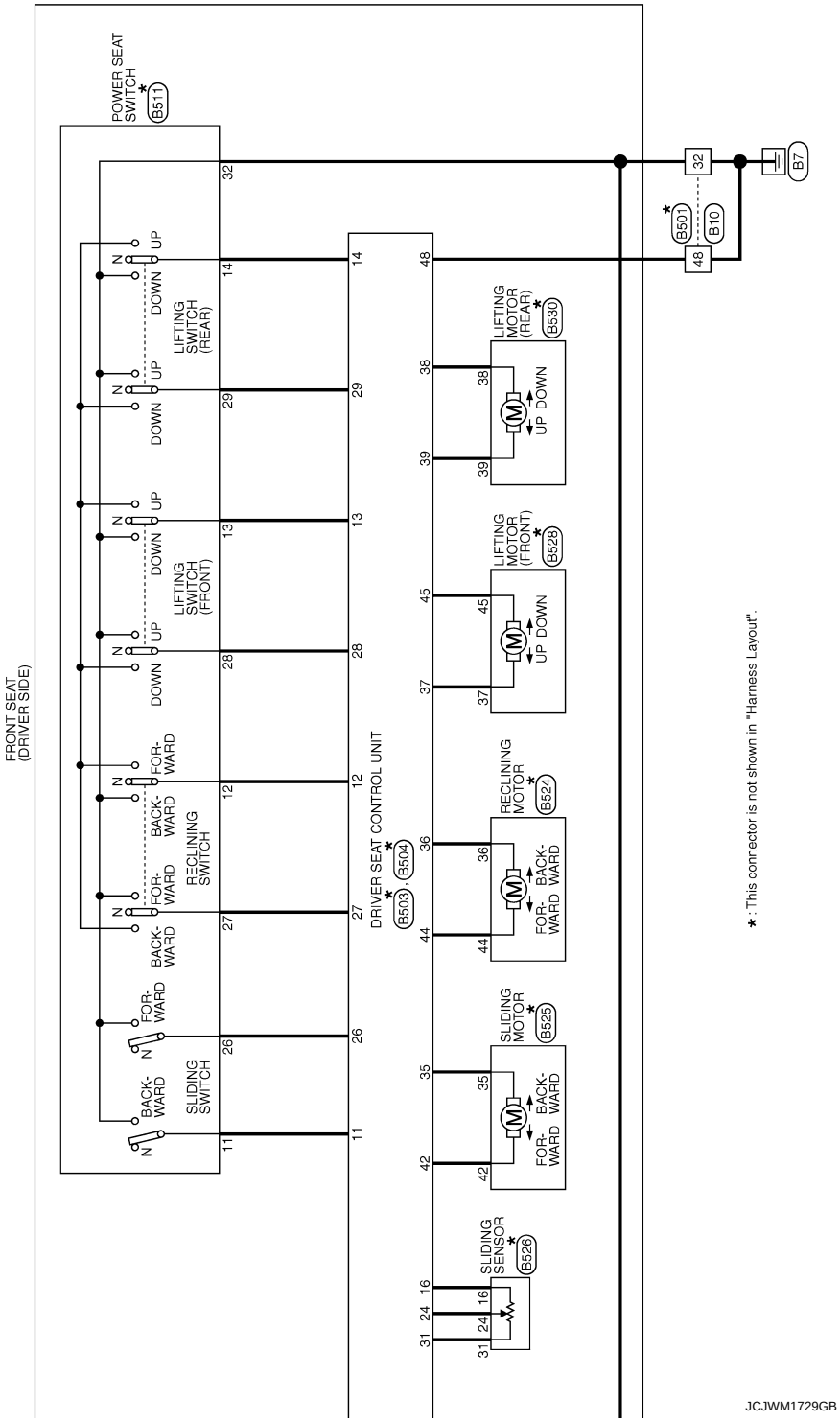
MATIC DRIVE POSITIONER) -

INFOID:0000000007472086

For connector terminal arrangements, harness layouts, and alphabets in a ⬡ (option abbreviation; if not described in wiring diagram), refer to GI-12, "Connector Information".

POWER SEAT FOR DRIVER SIDE (WITHOUT AUTOMATIC DRIVE POSITIONER)





Fail-Safe

INFOID:0000000007472087

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: ADP-48, "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	ADP-49, "DTC Logic"
Only manual functions, except seat reclining, operate normally.	Seat reclining output*1	B2113	ADP-51, "DTC Logic"

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

DTC Index

INFOID:0000000007472088

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

*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.

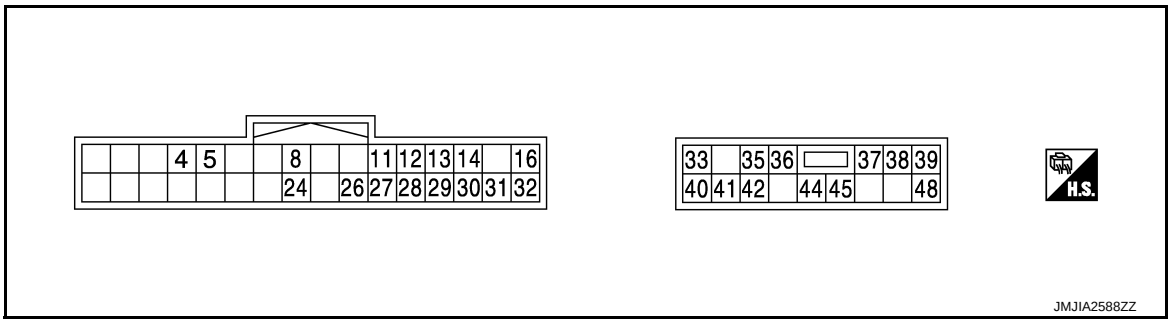
*2: Driver seat without automatic driver positioner system display.

PASSENGER SEAT CONTROL UNIT

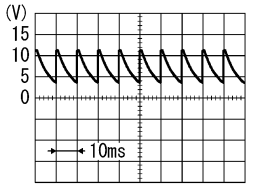
Reference Value

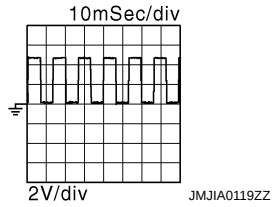
INFOID:0000000007472089

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 (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

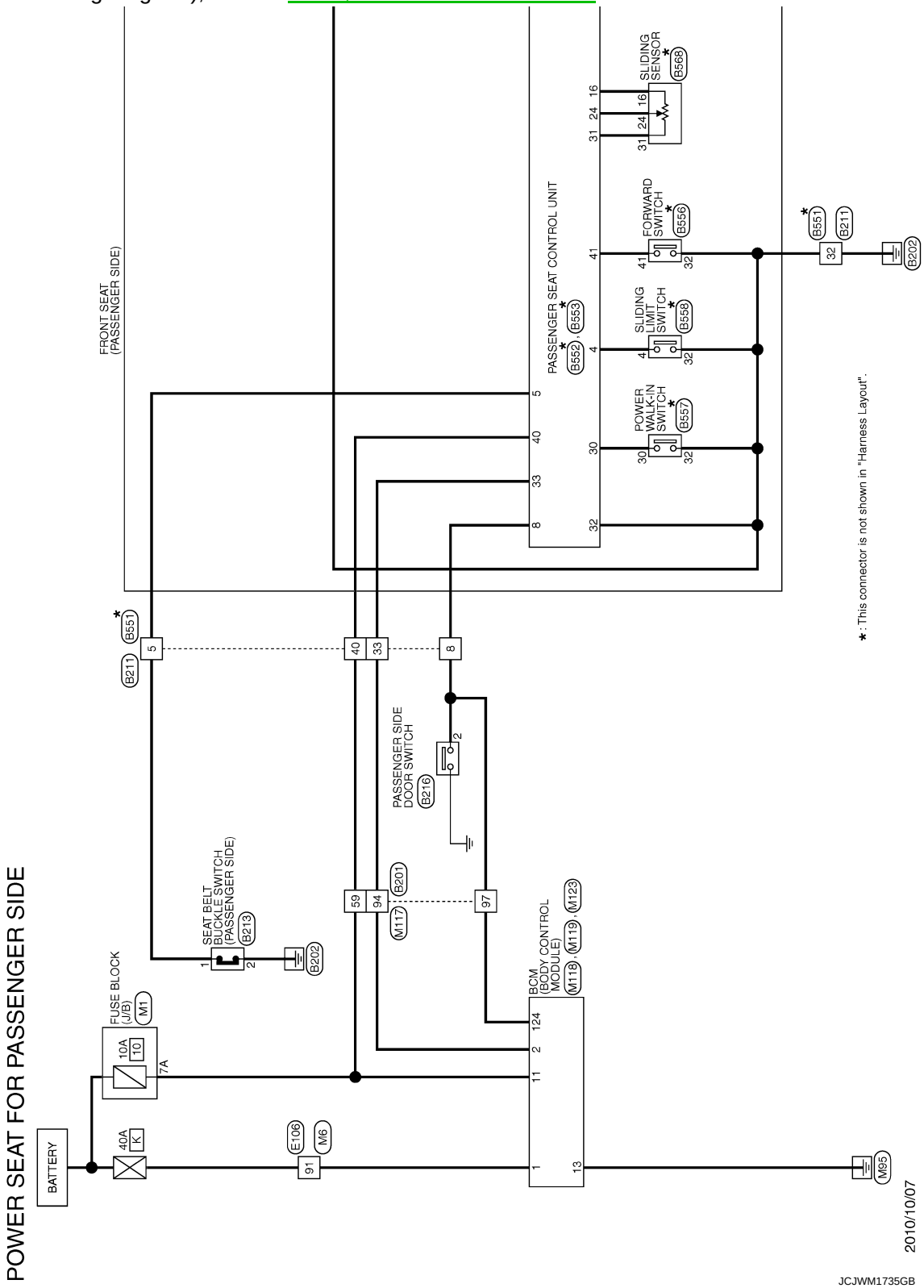
Terminal No. (Wire color)		Description		Condition		Voltage (V) (Approx.)
(+)	(–)	Signal name	Input/ Output			
42 (W)	Ground	Sliding motor backward output	Output	Seat sliding	Operate (backward)	Battery voltage
					Stop	0
44 (P)	Ground	Reclining motor backward output	Output	Seat reclining	Operate (backward)	Battery voltage
					Stop	0
45 (L/R)	Ground	Lifting motor (front) upward output	Output	Seat lifting (front)	Operate (upward)	Battery voltage
					Stop	0
48 (B)	Ground	Ground (power)	—	—		0

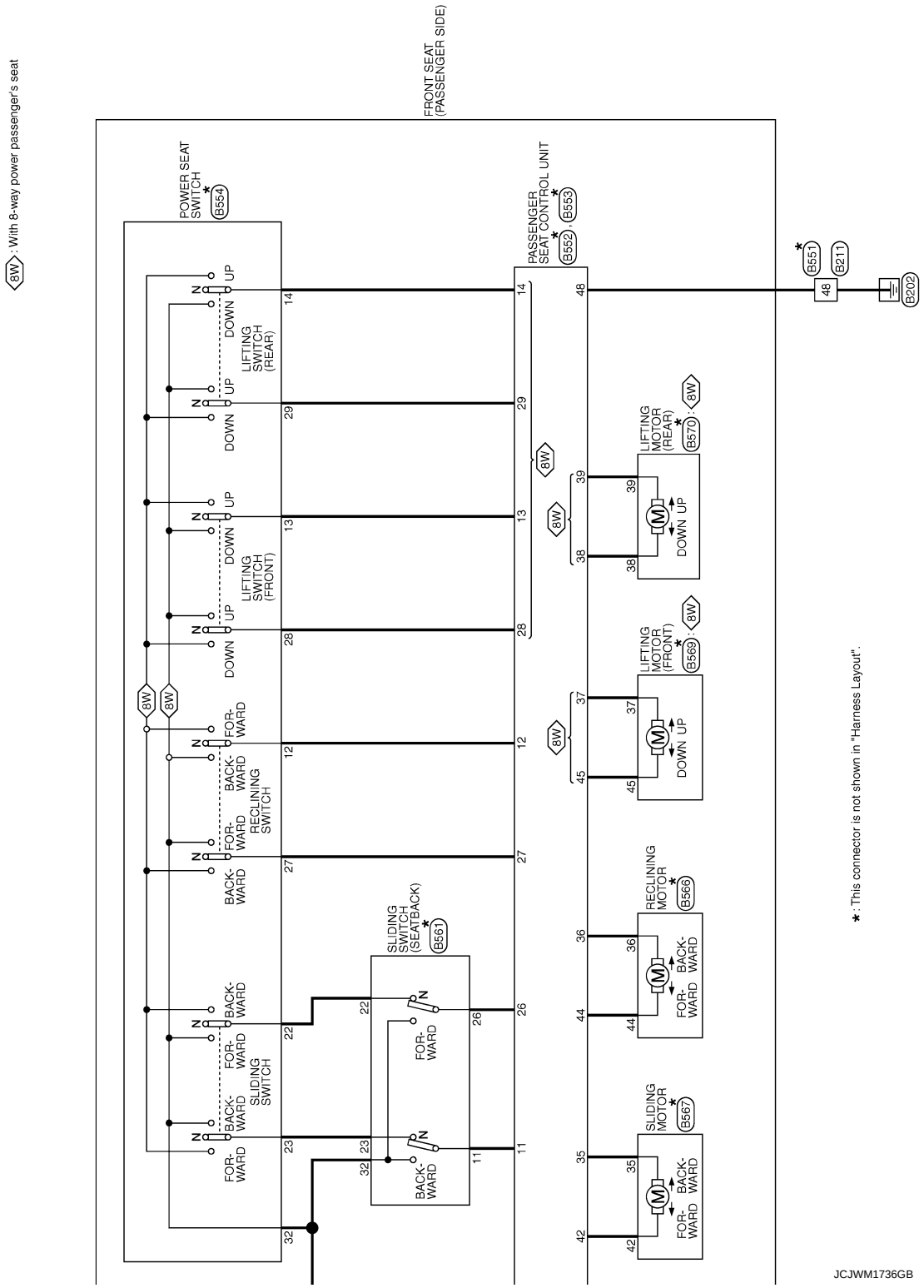
*: Not in the sleep mode.

Wiring Diagram - POWER SEAT SYSTEM FOR PASSENGER SIDE -

INFOID:0000000007472090

For connector terminal arrangements, harness layouts, and alphabets in a ⬡ (option abbreviation; if not described in wiring diagram), refer to GI-12, "Connector Information".



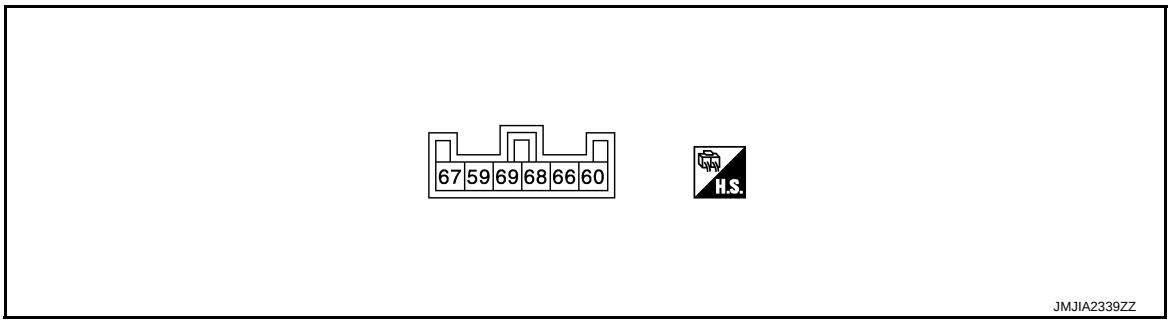

8W : With 8-way power passenger's seat
FRONT SEAT (PASSENGER SIDE)
POWER SEAT SWITCH
B554
PASSENGER SEAT CONTROL UNIT
B552
B553
B551
B211
48
B202
LIFTING SWITCH (REAR)
LIFTING SWITCH (FRONT)
RECLINING SWITCH
SLIDING SWITCH
SLIDING SWITCH (SEATBACK)
B561
LIFTING MOTOR (REAR)
B570
LIFTING MOTOR (FRONT)
B569
RECLINING MOTOR
B566
SLIDING MOTOR
B567
UP
DOWN
FOR-WARD
BACK-WARD
DOWN UP
JCJWM1736GB
* : This connector is not shown in "Harness Layout".

HEATED SEAT CONTROL UNIT

Reference Value

INFOID:0000000007472091

TERMINAL LAYOUT



PHYSICAL VALUES

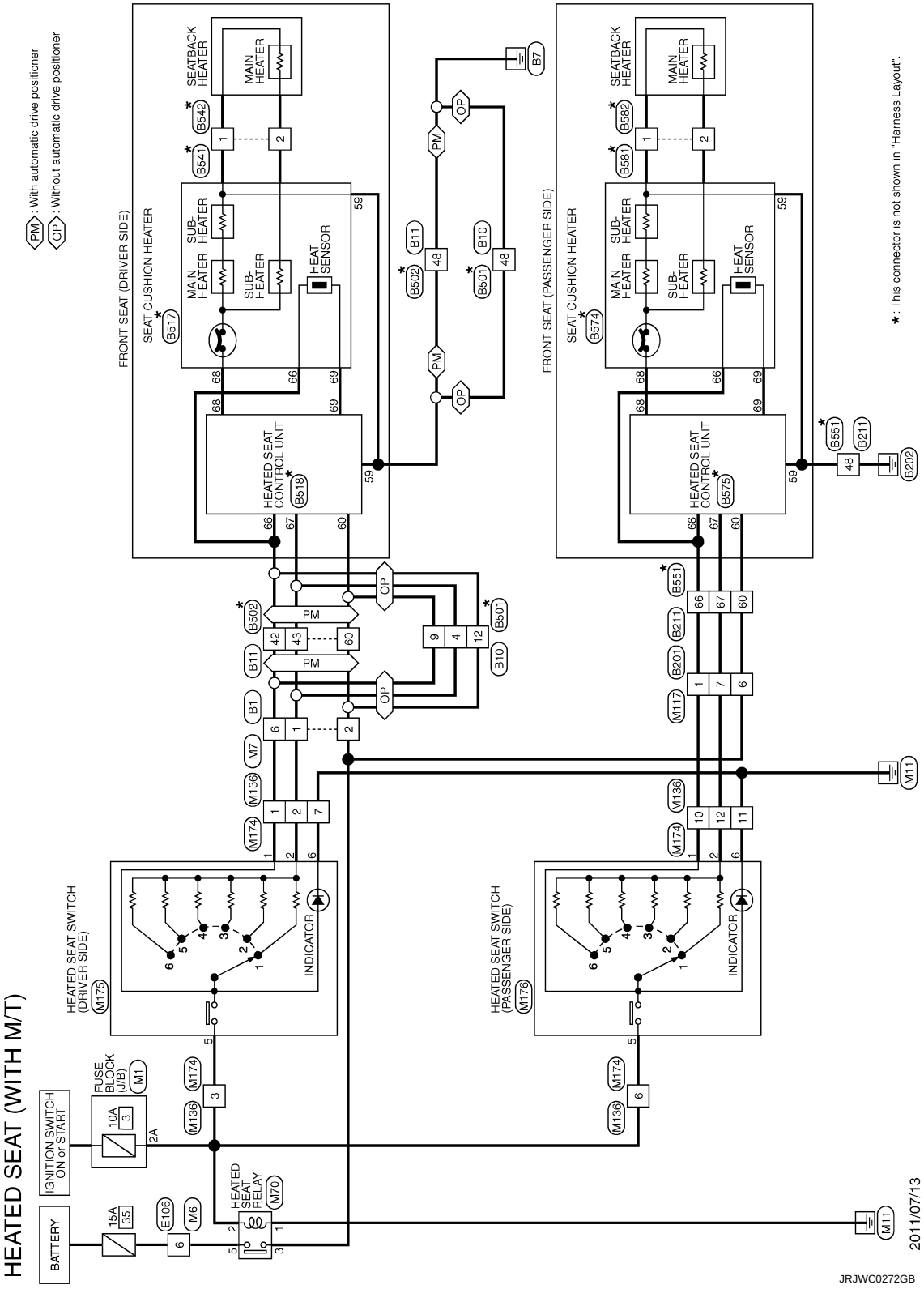
Terminal No. (Wire color)		Description		Condition		Voltage (V) (Approx.)
(+)	(–)	Signal name	Input/ Output			
59 (B)	Ground	Ground	–	Ignition switch ON		0
60 (Y)	Ground	IGN power supply	Input	Ignition switch	OFF or ACC	0
					ON	Battery voltage
66 (B)	Ground	Heated seat operation signal	Input	Heated 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.

Wiring Diagram - HEATED SEAT SYSTEM (WITH M/T) -

INFOID:0000000007472092

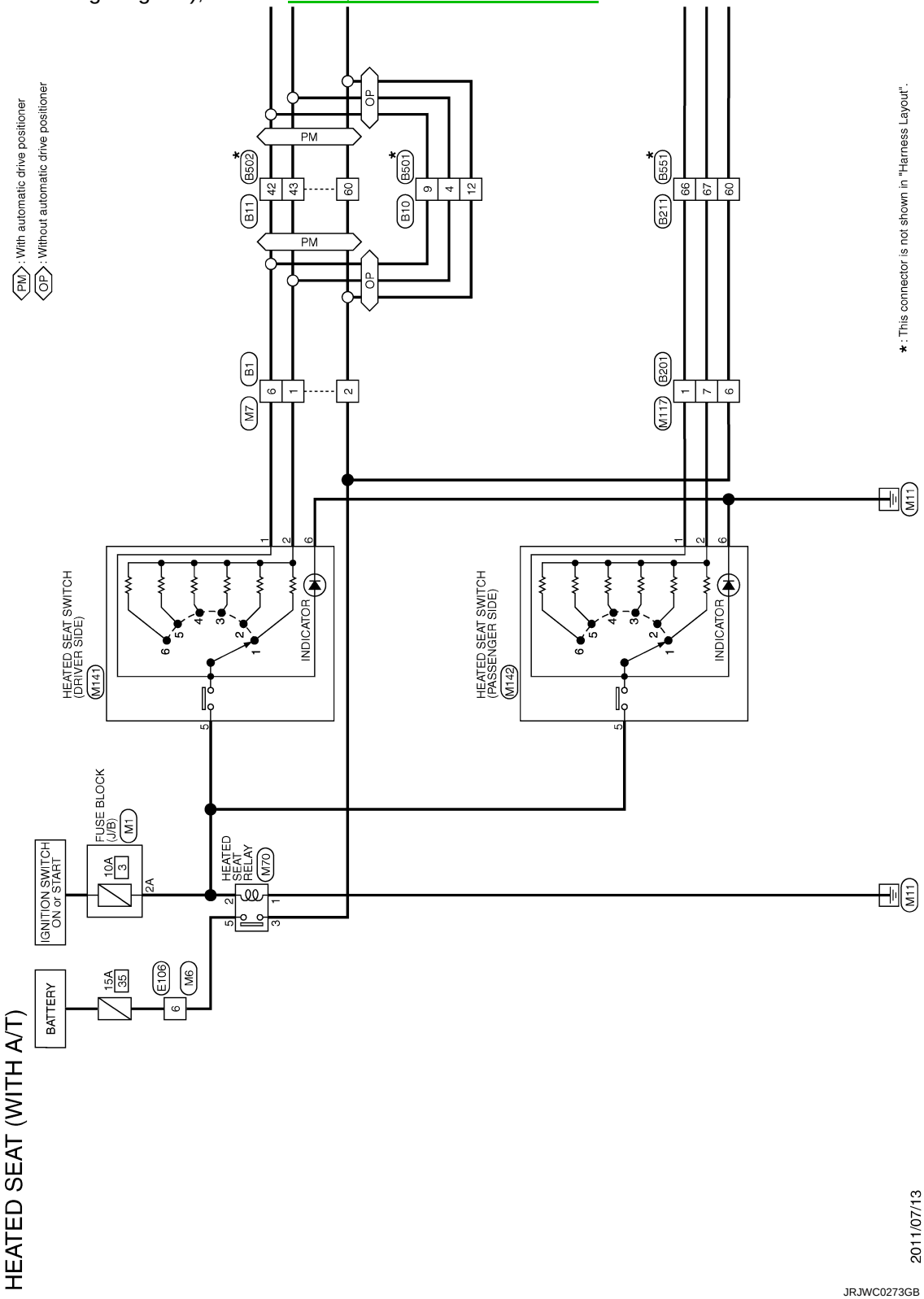
For connector terminal arrangements, harness layouts, and alphabets in a ⬡ (option abbreviation; if not described in wiring diagram), refer to GI-12, "Connector Information".

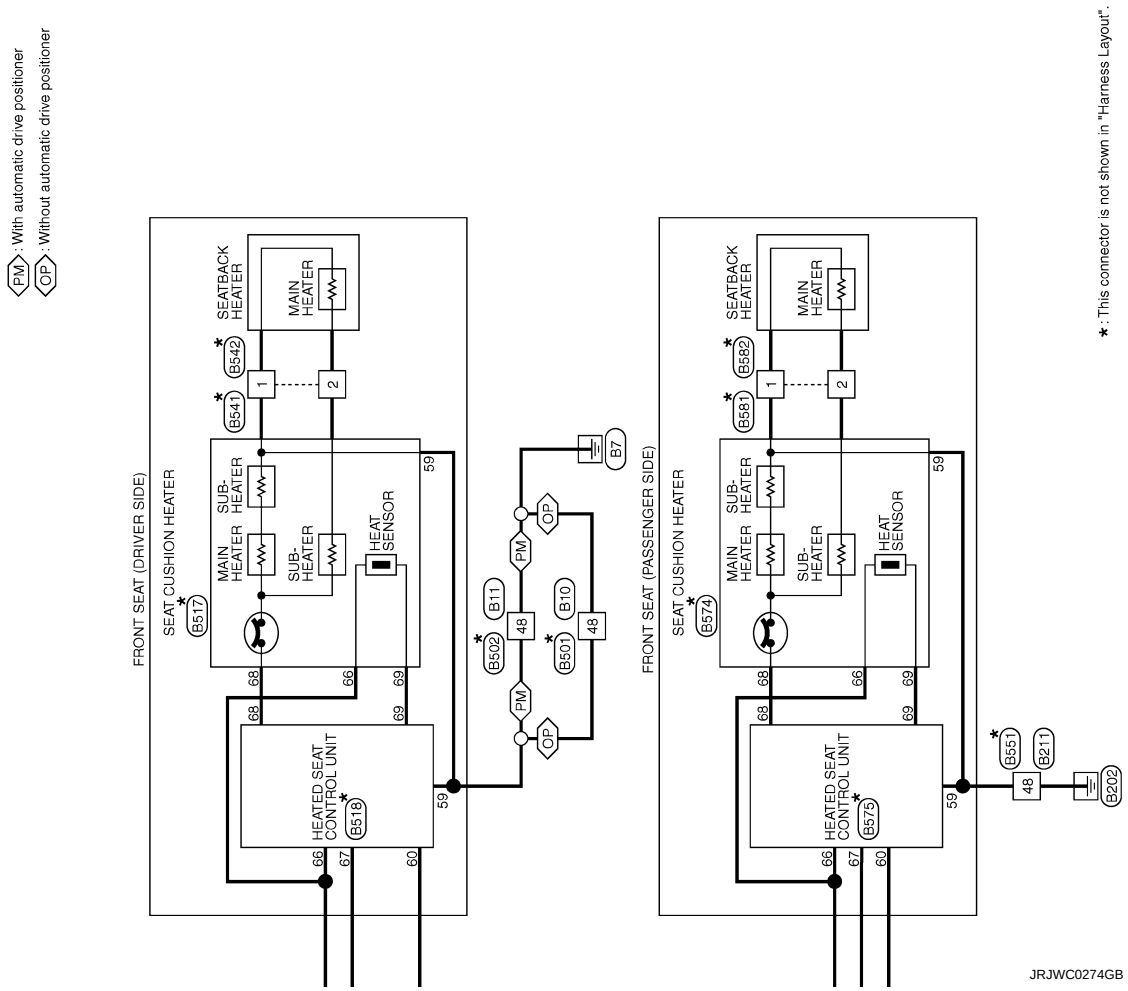


Wiring Diagram - HEATED SEAT SYSTEM (WITH A/T) -

INFOID:0000000007472093

For connector terminal arrangements, harness layouts, and alphabets in a ⬡ (option abbreviation; if not described in wiring diagram), refer to GI-12, "Connector Information".




PM : With automatic drive positioner
OP : Without automatic drive positioner
* : This connector is not shown in "Harness Layout".
FRONT SEAT (DRIVER SIDE)
SEAT CUSHION HEATER
B517
SEATBACK HEATER
B542
B541
MAIN HEATER
SUB-HEATER
MAIN HEATER
SUB-HEATER
HEAT SENSOR
HEATED SEAT CONTROL UNIT
B518
B502
B501
B11
B10
B7
48
PM
OP
FRONT SEAT (PASSENGER SIDE)
SEAT CUSHION HEATER
B574
SEATBACK HEATER
B582
B581
MAIN HEATER
SUB-HEATER
MAIN HEATER
SUB-HEATER
HEAT SENSOR
HEATED SEAT CONTROL UNIT
B575
B551
B211
B202
48
JRJWC0274GB

SYMPTOM DIAGNOSIS

ALL COMPONENTS OF POWER SEAT DO NOT OPERATE

DRIVER SIDE

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000007472094

1. CHECK POWER SUPPLY CIRCUIT AND GROUND CIRCUIT

Check power supply circuit and ground circuit.
Refer to SE-35, "DRIVER SEAT CONTROL UNIT : Diagnosis Procedure".

Is the inspection result normal?

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

2. CHECK POWER SEAT SWITCH GROUND CIRCUIT

Check power seat switch ground circuit.
Refer to SE-59, "DRIVER SIDE : Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace the malfunctioning parts.

3. CONFIRM THE OPERATION

Check the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".
NO >> GO TO 1.

PASSENGER SIDE

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000007472095

1. CHECK POWER SUPPLY AND GROUND CIRCUIT

Check power supply and ground circuit.
Refer to SE-35, "PASSENGER SEAT CONTROL UNIT : Diagnosis Procedure".

Is the inspection result normal?

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

2. CHECK POWER SEAT SWITCH GROUND CIRCUIT

Check power seat switch ground circuit.
Refer to SE-59, "PASSENGER SIDE : Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace the malfunctioning parts.

3. CONFIRM THE OPERATION

Check the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".
NO >> GO TO 1.

POWER SEAT SWITCH (PASSENGER SIDE) DOES NOT OPERATE ANY COMPONENTS

Diagnosis Procedure

INFOID:0000000007472096

1.CHECK POWER SEAT SWITCH GROUND CIRCUIT

Check power seat switch ground circuit.
Refer to SE-59, "PASSENGER SIDE : Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 2.
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-43, "Intermittent Incident".
NO >> GO TO 1.

SLIDING FUNCTION DOES NOT OPERATE

DRIVER SIDE

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000007472097

1. CHECK SLIDING MECHANISM

Check for the following.
- Mechanism deformation or pinched foreign materials.
- Interference with other parts because of poor installation.

Is the inspection result normal?

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

2. CHECK SLIDING SWITCH

Check sliding switch.
Refer to SE-41, "DRIVER SIDE : Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace the malfunctioning parts.

3. CHECK SLIDING MOTOR

Check sliding motor.
Refer to SE-84, "DRIVER SIDE : Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Repair or replace the malfunctioning parts.

4. CONFIRM THE OPERATION

Check the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".
NO >> GO TO 1.

PASSENGER SIDE

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000007472098

1. CHECK SLIDING OPERATION

Check sliding operation.

Which sliding switch is malfunctioning?

Both sides>>GO TO 2.
Seatback side>>GO TO 4.
Power seat switch side>>GO TO 5.

2. CHECK SLIDING MECHANISM

Check for the following.
- Mechanism deformation or pinched foreign materials.
- Interference with other parts because of poor installation.

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace the malfunctioning parts.

3. CHECK SLIDING MOTOR

Check sliding motor.
Refer to SE-85, "PASSENGER SIDE : Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Repair or replace the malfunctioning parts.

4. CHECK SLIDING SWITCH (SEATBACK)

Check sliding switch (seatback).
Refer to SE-44, "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-42, "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-43, "Intermittent Incident".
NO >> GO TO 1.

RECLINING FUNCTION DOES NOT OPERATE

DRIVER SIDE

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000007472099

1. CHECK RECLINING MECHANISM

Check for the following.
- Mechanism deformation or pinched foreign materials.
- Interference with other parts because of poor installation.

Is the inspection result normal?

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

2. CHECK RECLINING SWITCH

Check reclining switch.
Refer to SE-47, "DRIVER SIDE : Component_Function_Check".

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace the malfunctioning parts.

3. CHECK FORWARD SWITCH

Check forward switch.
Refer to SE-61, "DRIVER SIDE : Component_Function_Check".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Repair or replace the malfunctioning parts.

4. CHECK RECLINING MOTOR

Check reclining motor.
Refer to SE-88, "DRIVER SIDE : Component_Function_Check".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace the malfunctioning parts.

5. CONFIRM THE OPERATION

Check the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".
NO >> GO TO 1.

PASSENGER SIDE

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000007472100

1. CHECK RECLINING MECHANISM

Check for the following.
- Mechanism deformation or pinched foreign materials.
- Interference with other parts because of poor installation.

Is the inspection result normal?

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

2. CHECK RECLINING SWITCH

Check reclining switch.
Refer to SE-48, "PASSENGER SIDE : Component_Function_Check".

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace the malfunctioning parts.

3.CHECK FORWARD SWITCH

Check forward switch.
Refer to SE-62, "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-89, "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-43, "Intermittent Incident".
NO >> GO TO 1.

LIFTING FUNCTION DOES NOT OPERATE

FRONT

FRONT : Diagnosis Procedure

INFOID:0000000007472101

1. CHECK LIFTING MECHANISM

Check for the following.
- Mechanism deformation or pinched foreign materials.
- Interference with other parts because of poor installation.

Is the inspection result normal?

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

2. CHECK LIFTING SWITCH (FRONT)

Check lifting switch (front).
- Driver side: Refer to SE-51, "DRIVER SIDE : Component Function Check".
- Passenger side: Refer to SE-52, "PASSENGER SIDE : Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace the malfunctioning parts.

3. CHECK LIFTING MOTOR (FRONT)

Check lifting motor (front).
- Driver side: Refer to SE-92, "DRIVER SIDE : Component Function Check".
- Passenger side: Refer to SE-93, "PASSENGER SIDE : Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Repair or replace the malfunctioning parts.

4. CONFIRM THE OPERATION

Check the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".
NO >> GO TO 1.

REAR

REAR : Diagnosis Procedure

INFOID:0000000007472102

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-55, "DRIVER SIDE : Component Function Check".
- Passenger side: 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 LIFTING MOTOR (REAR)

Check lifting motor (rear).

- Driver side: Refer to SE-96, "DRIVER SIDE : Component Function Check".
- Passenger side: Refer to SE-97, "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-43, "Intermittent Incident".
NO >> GO TO 1.

POWER WALK-IN FUNCTION DOES NOT OPERATE
DRIVER SIDE

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000007472103

1.CHECK SEAT SLIDING OPERATION

Check seat sliding operation.

Is the inspection result normal?

YES >> GO TO 2.
NO >> Refer to SE-139, "DRIVER SIDE : Diagnosis Procedure".

2.PERFORM INITIALIZATION PROCEDURE

1. Perform initialization procedure.
   Refer to SE-8, "SYSTEM INITIALIZATION : Special Repair Requirement".
2. Check power walk-in function.
   Refer to SE-11, "POWER WALK-IN FUNCTION : System Description".

Is the inspection result normal?

YES >> Power walk-in function is normal.
NO >> GO TO 3.

3.CHECK POWER WALK-IN SWITCH

Check power walk-in switch.
Refer to SE-73, "DRIVER SIDE : Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Repair or replace the malfunctioning parts.

4.CHECK SEAT BELT BUCKLE SWITCH

Check seat belt buckle switch.
Refer to SE-65, "DRIVER SIDE : Component Function Check".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace the malfunctioning parts.

5.CHECK FORWARD SWITCH

Check forward switch.
Refer to SE-61, "DRIVER SIDE : Component Function Check".

Is the inspection result normal?

YES >> GO TO 6.
NO >> Repair or replace the malfunctioning parts.

6.CHECK SLIDING LIMIT SWITCH

Check sliding limit switch.
Refer to SE-69, "DRIVER SIDE : Component Function Check".

Is the inspection result normal?

YES >> GO TO 7.
NO >> Repair or replace the malfunctioning parts.

7.CHECK DRIVER SIDE DOOR SWITCH

Check driver side door switch.
Refer to SE-77, "Component Function Check"

Is the inspection result normal?

YES >> GO TO 8.
NO >> Repair or replace the malfunctioning parts.

8.CHECK SLIDING SENSOR

Check sliding sensor.
Refer to SE-79, "DRIVER SIDE : Component Function Check".

Is the inspection result normal?

YES >> GO TO 9.
NO >> Repair or replace the malfunctioning parts.

9. CONFIRM THE OPERATION

Check the operation again.
Refer to SE-11, "POWER WALK-IN FUNCTION : System Description".

Is the result normal?

YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".
NO >> Replace driver seat control unit. Refer to SE-180, "Removal and Installation".

PASSENGER SIDE

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000007472104

1. CHECK SEAT SLIDING OPERATION

Check seat sliding operation.

Is the inspection result normal?

YES >> GO TO 2.
NO >> Refer to SE-139, "PASSENGER SIDE : Diagnosis Procedure".

2. PERFORM INITIALIZATION PROCEDURE

1. Perform initialization procedure.
   Refer to SE-8, "SYSTEM INITIALIZATION : Special Repair Requirement".
2. Check power walk-in function.
   Refer to SE-11, "POWER WALK-IN FUNCTION : System Description".

Is the inspection result normal?

YES >> Power walk-in function is normal.
NO >> GO TO 3.

3. CHECK POWER WALK-IN SWITCH

Check power walk-in switch.
Refer to SE-74, "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-66, "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-62, "PASSENGER SIDE : Component Function Check".

Is the inspection result normal?

YES >> GO TO 6.
NO >> Repair or replace the malfunctioning parts.

6. CHECK SLIDING LIMIT SWITCH

Check sliding limit switch.
Refer to SE-70, "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-77, "Component Function Check"

Is the inspection result normal?

YES >> GO TO 8.
NO >> Repair or replace the malfunctioning parts.

8.CHECK SLIDING SENSOR

Check sliding sensor.
Refer to SE-79, "DRIVER SIDE : Component Function Check".

Is the inspection result normal?

YES >> GO TO 9.
NO >> Repair or replace the malfunctioning parts.

9.CONFIRM THE OPERATION

Check the operation again.
Refer to SE-11, "POWER WALK-IN FUNCTION : System Description".

Is the result normal?

YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".
NO >> Replace passenger seat control unit. Refer to SE-181, "Removal and Installation".

HEATED SEAT DOES NOT OPERATE

BOTH SIDES

BOTH SIDES : Diagnosis Procedure

INFOID:0000000007472105

1. CHECK HEATED SEAT SWITCH POWER SUPPLY

Check heated seat switch power supply.
Refer to SE-38, "HEATED SEAT SWITCH : Diagnosis Procedure".

Is the inspection result normal?

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

2. CHECK HEATED SEAT RELAY

Check heated seat relay.
Refer to SE-104, "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-36, "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-43, "Intermittent Incident".
NO >> GO TO 1.

DRIVER SIDE

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000007472106

1. CHECK HEATED SEAT SWITCH POWER SUPPLY

Check heated seat switch power supply.
Refer to SE-38, "HEATED SEAT SWITCH : Diagnosis Procedure".

Is the inspection result normal?

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

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

Check heated seat switch power supply and ground circuit.
Refer to SE-36, "HEATED SEAT CONTROL UNIT : Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace the malfunctioning parts.

3. CHECK HEATED SEAT SWITCH

Check heated seat switch.
Refer to SE-100, "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-111, "DRIVER SIDE : Component Function Check".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace the malfunctioning parts.

5.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".
NO >> GO TO 1.

PASSENGER SIDE

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000007472107

1.CHECK HEATED SEAT SWITCH POWER SUPPLY

Check heated seat switch power supply.
Refer to SE-38, "HEATED SEAT SWITCH : Diagnosis Procedure".

Is the inspection result normal?

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

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

Check heated seat switch power supply and ground circuit.
Refer to SE-36, "HEATED SEAT CONTROL UNIT : Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace the malfunctioning parts.

3.CHECK HEATED SEAT SWITCH

Check heated seat switch.
Refer to SE-101, "PASSENGER SIDE : Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Repair or replace the malfunctioning parts.

4.CHECK SEAT CUSHION HEATER

Check seat cushion heater.
Refer to SE-112, "PASSENGER SIDE : Component Function Check".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace the malfunctioning parts.

5.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".
NO >> GO TO 1.

SEATBACK HEATER ONLY DOES NOT OPERATE

DRIVER SIDE

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000007472108

1.CHECK SEATBACK HEATER

Check seatback heater.
Refer to SE-115, "DRIVER SIDE : Component_Function_Check".

Is the inspection result normal?

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

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".
NO >> GO TO 1.

PASSENGER SIDE

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000007472109

1.CHECK SEATBACK HEATER

Check seatback heater.
Refer to SE-115, "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-43, "Intermittent Incident".
NO >> GO TO 1.

CANNOT ADJUST HEATED SEAT TEMPERATURE

DRIVER SIDE

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000007472110

1. CHECK HEATED SEAT SWITCH

Check heated seat switch.
Refer to SE-100, "DRIVER SIDE : Component_Function_Check".

Is the inspection result normal?

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

2. CHECK HEAT SENSOR

Check heat sensor.
Refer to SE-106, "DRIVER SIDE : Description".

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace the malfunctioning parts.

3. CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".
NO >> Replace heated seat control unit. Refer to SE-182, "Removal and Installation".

PASSENGER SIDE

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000007472111

1. CHECK HEATED SEAT SWITCH

Check heated seat switch.
Refer to SE-101, "PASSENGER SIDE : Component_Function_Check".

Is the inspection result normal?

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

2. CHECK HEAT SENSOR

Check heat sensor.
Refer to SE-108, "PASSENGER SIDE : Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace the malfunctioning parts.

3. CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".
NO >> Replace heated seat control unit. Refer to SE-182, "Removal and Installation".

HEATED SEAT SWITCH INDICATOR DOES NOT TURN ON

DRIVER SIDE

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000007472112

1.CHECK HEATED SEAT SWITCH INDICATOR

Check heated seat switch indicator.
Refer to SE-117, "DRIVER SIDE : Component Function Check".

Is the inspection result normal?

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

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".
NO >> GO TO 1.

PASSENGER SIDE

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000007472113

1.CHECK HEATED SEAT SWITCH INDICATOR

Check heated seat switch indicator.
Refer to SE-117, "PASSENGER SIDE : Component Function Check".

Is the inspection result normal?

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

2.CONFIRM THE OPERATION

Confirm the operation again.

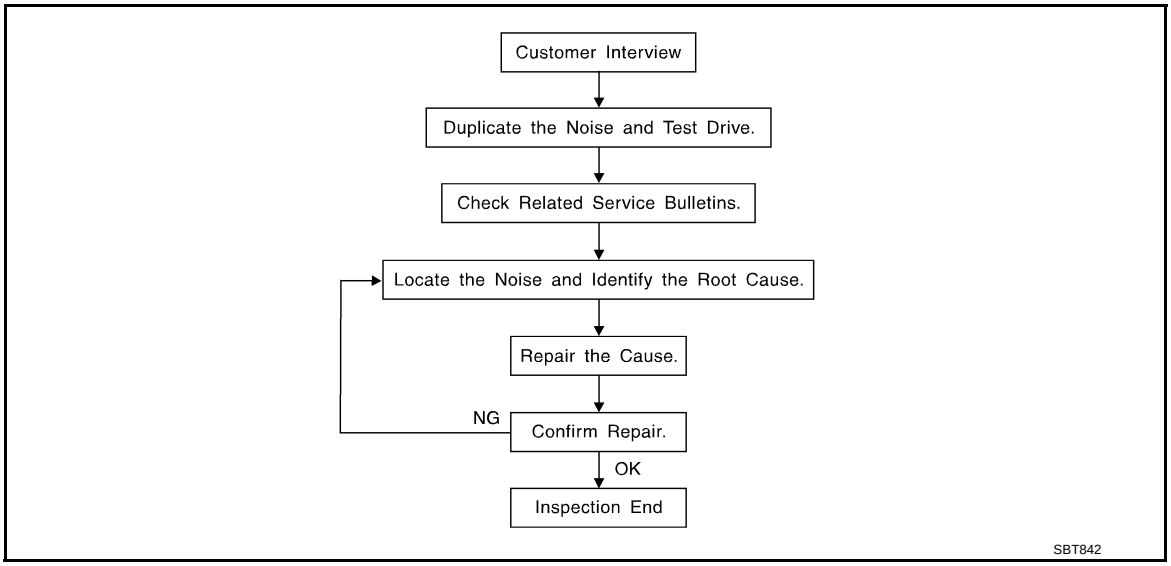
Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".
NO >> GO TO 1.

SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow

INFOID:0000000007472114



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-157, "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-155, "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:0000000007472115

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

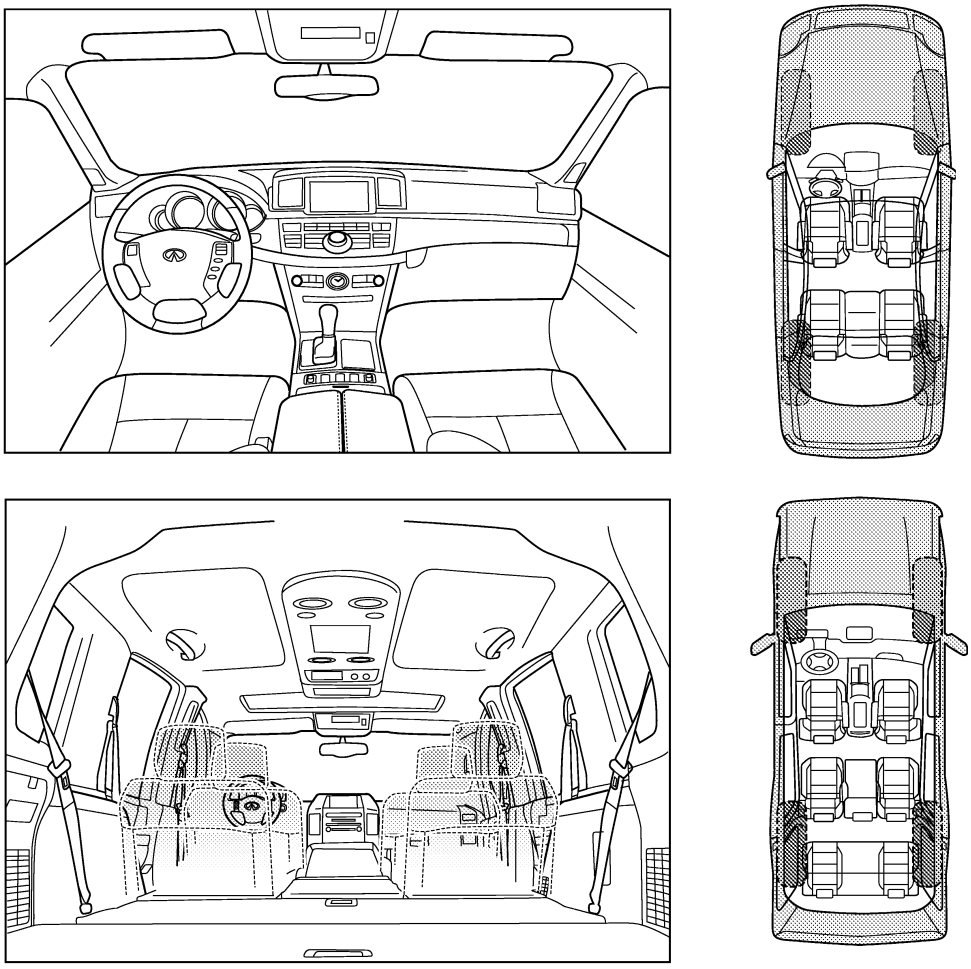
INFOID:0000000007472116

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:0000000007472117

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

WARNING:

Always observe the following items for preventing accidental activation.

- **To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.**
- **Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see “SRS AIR BAG”.**
- **Never use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.**

PRECAUTIONS WHEN USING POWER TOOLS (AIR OR ELECTRIC) AND HAMMERS

WARNING:

Always observe the following items for preventing accidental activation.

- **When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, never use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.**
- **When using air or electric power tools or hammers, always switch the ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.**

Precaution for Battery Service

INFOID:0000000007472118

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:0000000007472119

- 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:0000000007472120

- 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.

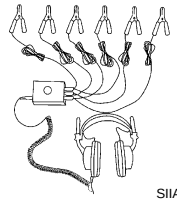
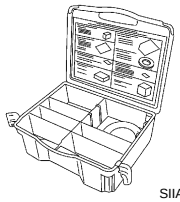
PREPARATION

PREPARATION

Special Service Tool

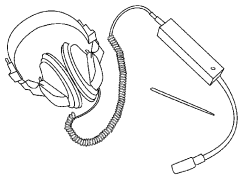
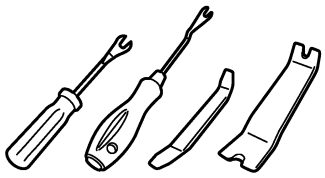
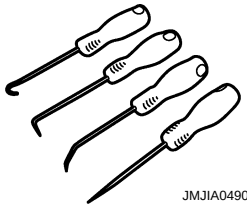
INFOID:0000000007472121

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

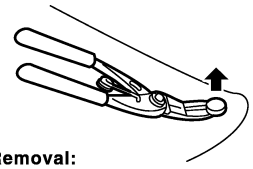
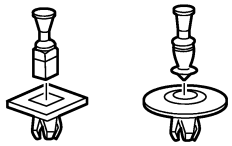
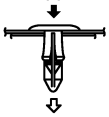
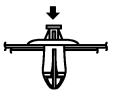
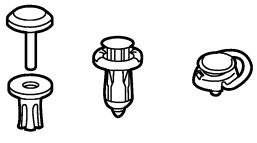
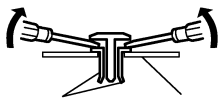
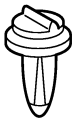
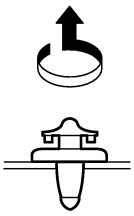
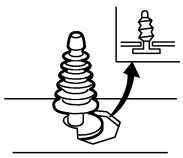
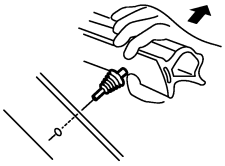
INFOID:0000000007472122

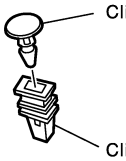
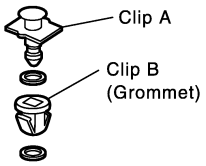
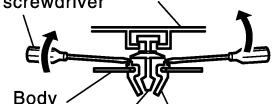
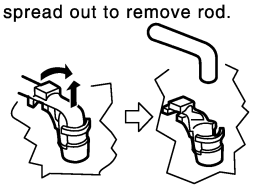
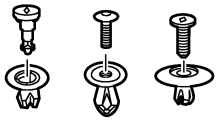
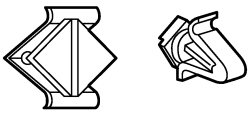
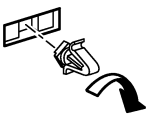
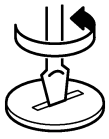
Tool name	Description
Engine ear  SIIA0995E	Locates the noise
Remover tool  JMKIA3050ZZ	Removes the clips, pawls and metal clips
Hook and pick tool  JMJIA0490ZZ	Removes the snap pins

CLIP LIST

Clip List

INFOID:0000000007472123

Shapes	Removal & Installation
	**Removal:** Remove by bending up with flat-bladed screwdrivers or clip remover. 
	 **Removal:** Remove with a clip remover.
	**Removal:** Push center pin to catching position. (Do not remove center pin by hitting it.) Push  **Installation:** Push 
	**Removal:** Remove by bending up with flat-bladed screwdrivers or clip remover.  Clip Finisher
	**Removal:** 
	**Removal:** 

Shapes	Removal & Installation
 Clip A Clip B	**Removal:** Finisher Clip A  Flat-bladed screwdriver Clip B
 Clip A Clip B (Grommet)	**Removal:** Flat-bladed screwdriver Finisher  Body panel Clip A Clip B (Grommet)
	**Removal:** Holder portion of clip must be spread out to remove rod. 
	**Removal:** 1. Screw out with a Phillips screwdriver. 2. Remove female portion with flat-bladed screwdriver. 
	**Removal:**  Rotate 45° to remove.  **Removal:** **Installation:** 
	**Removal:** 

JMJIA3734GB

REMOVAL AND INSTALLATION

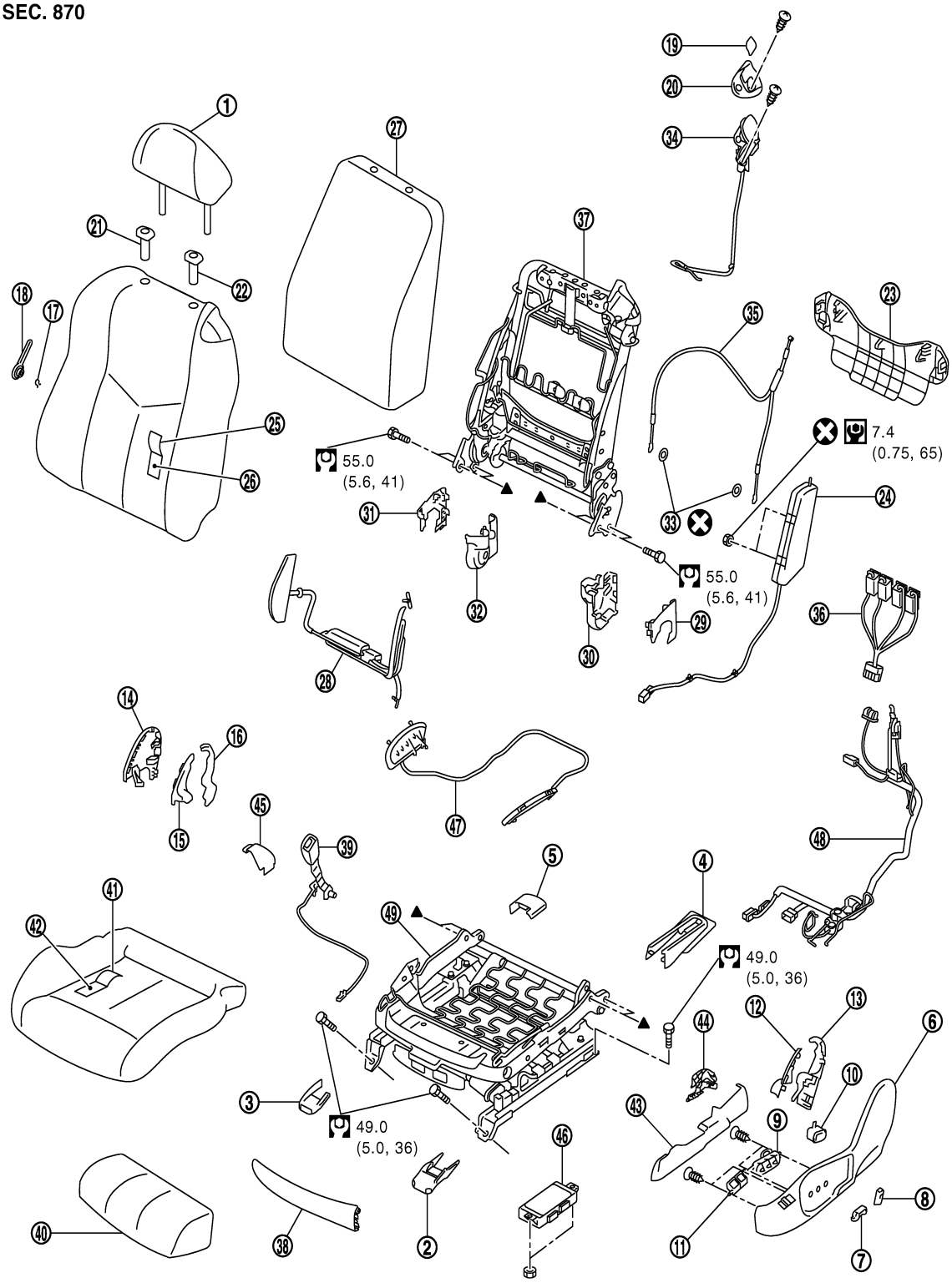
FRONT SEAT

Exploded View

INFOID:0000000007472124

DRIVER'S SEAT

SEC. 870

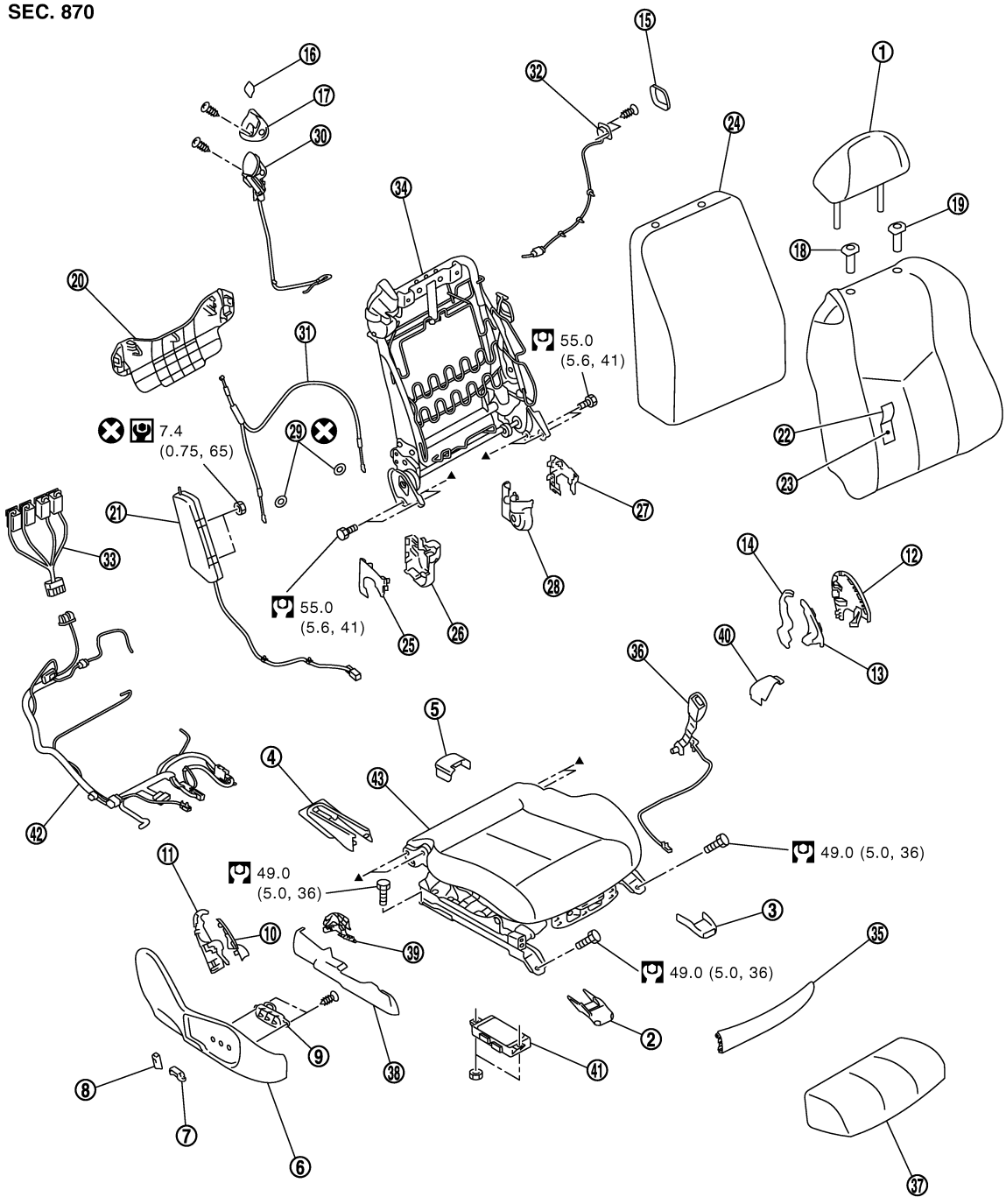


1. Headrest
2. Front outer slide cover
3. Front inner slide cover
4. Rear outer slide cover
5. Rear inner slide cover
6. Seat cushion outer finisher
7. Seat slide and lifter switch knob
8. Seat reclining switch knob
9. Seat control switch
10. Lumbar support switch
11. Side support switch
12. Seat cushion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

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

PASSENGER'S SEAT

SEC. 870



JMJIA1022GB

1. Headrest
2. Front outer slide cover
3. Front inner slide cover
4. Rear outer slide cover
5. Rear inner slide cover
6. Seat cushion outer finisher
7. Seat slide and lifter switch knob
8. Seat reclining switch knob
9. Seat control switch
10. Seat cushion outer finisher inside (front)
11. Seat cushion outer finisher inside (rear)
12. Seat cushion inner finisher
13. Seat cushion inner finisher inside (front)
14. Seat cushion inner finisher inside (rear)
15. Slide switch escutcheon
16. Walk-in lever cap
17. Walk-in lever upper escutcheon
18. Headrest holder (free)
19. Headrest holder (locked)
20. Seatback lower panel
21. Side air bag module
22. Seatback trim
23. Seatback pad
24. Seatback silencer

25. Reclining device outer cover (outside)
26. Reclining device outer cover (inside)
27. Reclining device inner cover (outside)
28. Reclining device inner cover (inside)
29. Push nut
30. Walk-in lever
31. Reclining device wire
32. Slide switch (seatback)
33. Reclining and slide relay
34. Seatback frame
35. Seat cushion front finisher
36. Seat belt buckle
37. Seat cushion pad (front)
38. Seat slide outer finisher (outside)
39. Seat slide outer finisher (inside)
40. Seat slide inner finisher
41. Seat control unit
42. Seat harness
43. Seat cushion assembly

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

Removal and Installation

INFOID:0000000007472125

REMOVAL

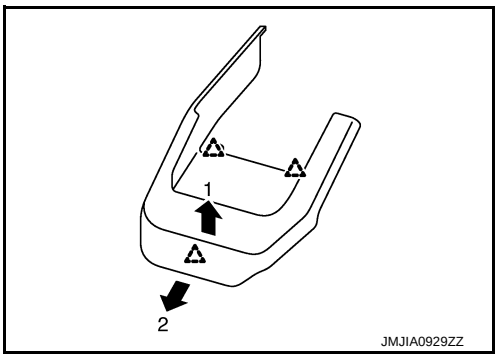
CAUTION:

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

1. Remove the headrest.
2. Remove the front slide cover.

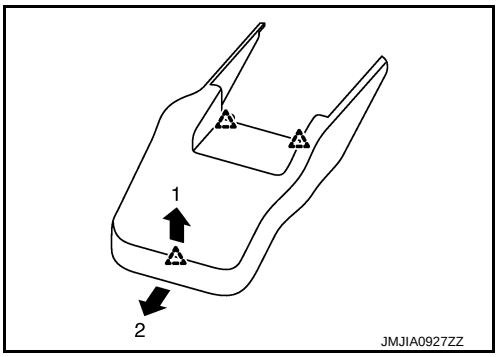
a. Front outer slide cover
- Slide the seat to the rearmost position.
- Pull up the front edge of the front slide cover to release the pawls.
- Slide the front slide cover forward to release the pawls.

: Pawl



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

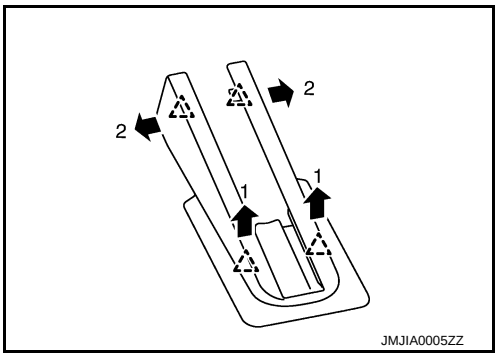
: Pawl



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

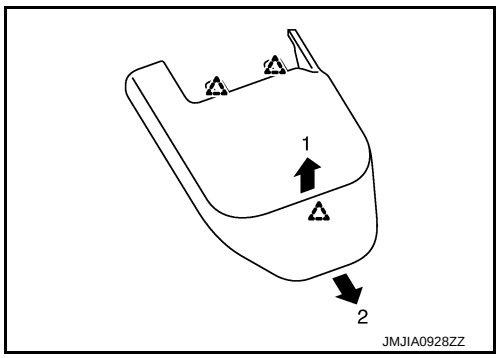
a. Rear outer slide cover
- Slide the seat to the foremost position.
- Pull up the rear edge of the rear outer slide cover to release the pawls.
- Open the front end of the rear outer slide cover to release the pawls.

: 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



5. Remove the mounting bolts on the rear side of the front seat.
6. Set seatback in a standing position.
7. Disconnect harness connector under the seat and remove harness securing clips.
   CAUTION:
   Before removal, turn ignition switch OFF, disconnect battery negative terminal and then wait for at least 3 minutes.
8. Remove seat from the vehicle.
   CAUTION:
   When removing and installing, use shop cloths to protect parts from damage.

INSTALLATION

Install in the reverse order of removal.

CAUTION:
- **Before installation, turn ignition switch OFF, disconnect battery negative terminal and then wait for at least 3 minutes.**
- **Clamp the harness in position.**

NOTE:
After installing the front seat, perform additional service when removing battery negative terminal.(With automatic drive positioner model) Refer to ADP-9, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement". (Without automatic drive positioner model) Refer to SE-8, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement".

Disassembly and Assembly

INFOID:0000000007472126

SEATBACK

Disassembly

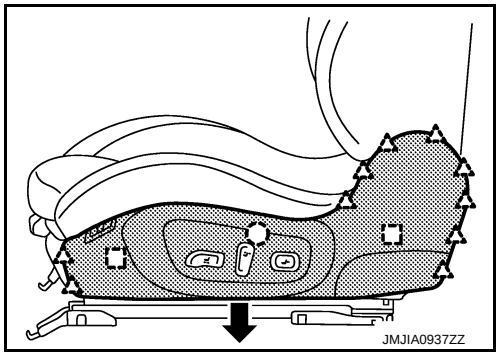
1. Remove the seat cushion outer finisher.
   - Remove the metal clips, clips and pawls, and then pull out seat cushion outer finisher.

     : Clip

     : Metal clip

     : Pawl

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

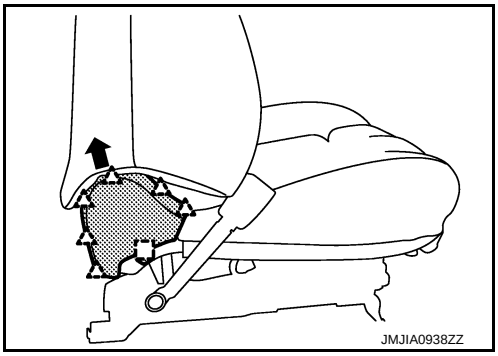


   - Remove the seat cushion outer finisher inside (front, rear).

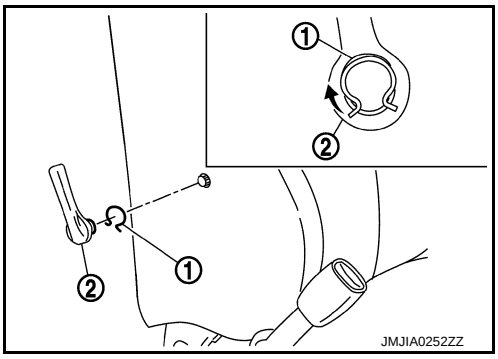
2. Remove the seat cushion inner finisher.
   - Remove the seat cushion inner finisher inside (front, rear) by releasing the metal clip and pull it up together with the cover.
   - Remove the seat cushion inner finisher inside (front, rear) from the seat cushion inner finisher by releasing the pawls.

   : Metal clip

   : Pawl

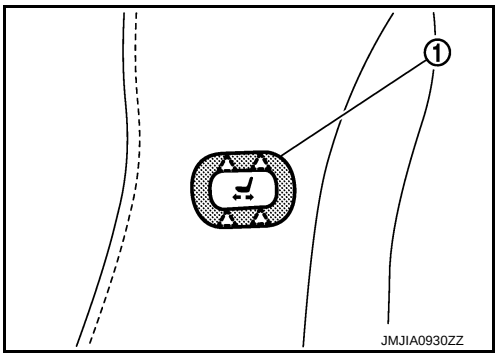


3. Remove the lumbar support lever knob.(Manual lumbar support model only.)
   Pull snap ring (1) upward, and remove lumbar support lever knob (2) from seatback frame.Using a hook and pick tool.



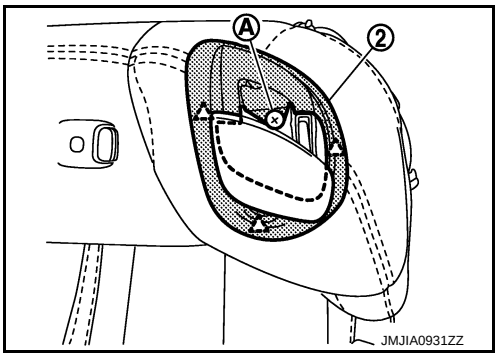
4. Remove the seatback trim and seatback pad.
   - Remove the pawls, and then pull out slide switch escutcheon (1).

   : Pawl

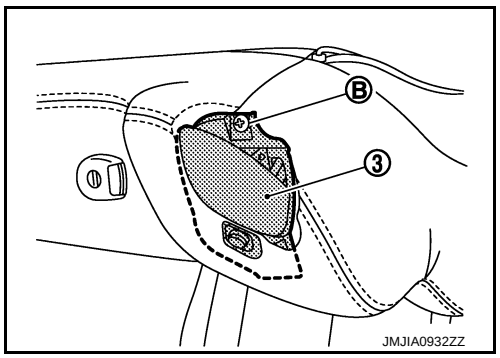


   - Remove the walk-in lever cap.
   - Remove the screw (A) and pawls, and then walk-in lever upper escutcheon (2).

   : Pawl

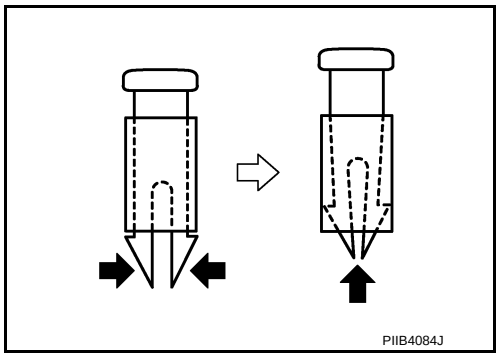


- Remove the screw (B), and then pull the seatback trim from the walk-in lever (3) and walk-in lever lower escutcheon.

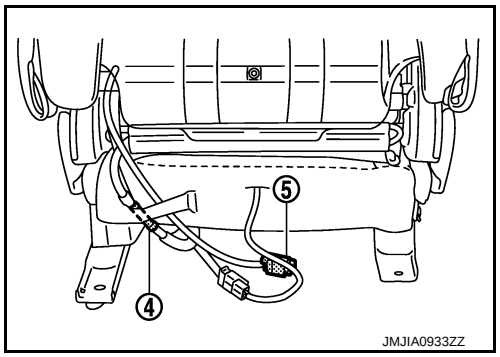


- Remove the seatback retainer, and then open the fastener.
- Remove the headrest holder.

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

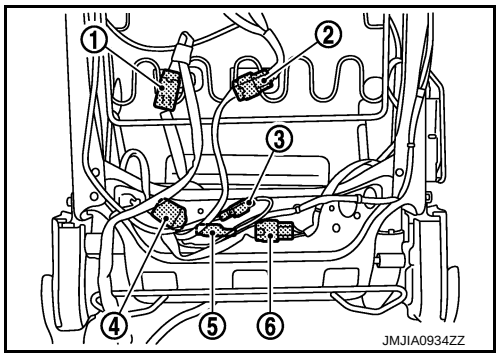


- Remove the seatback lower panel.
- Remove the side air bag module.
- Remove the side support hose joint (4) located backside the seat cushion.(Side support model only.)
- Disconnect the seatback heater unit harness connector (5).



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

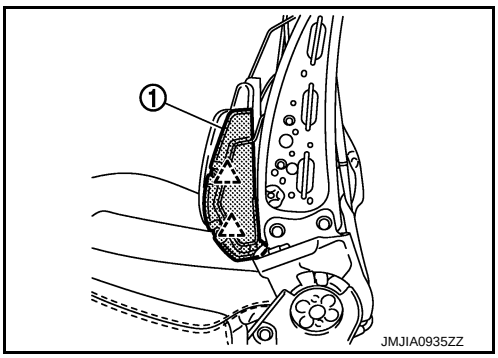
5. Remove the seatback silencer.
6. Disconnect the harness connectors.
   - Disconnect the side support unit harness connector (1) and remove the harness clamp.(Side support model only.)
   - Disconnect the reclining and slide relay harness connector (2) and remove the harness clamp.
   - Disconnect the power walk-in switch harness connector (3).
   - Disconnect the forward switch harness connector (4).
   - Disconnect the lumbar support motor harness connector (5) and remove the harness clamp.(Power lumbar support model only.)
   - Disconnect the reclining motor harness connector (6) and remove the harness clamp.
   - Disconnect the slide switch (seatback) harness connector. (Passenger's seat only)



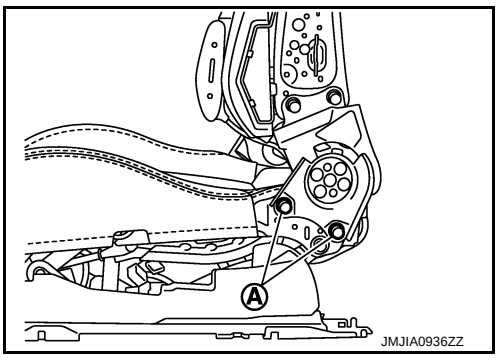
7. Remove the side support bag and unit.(Side support model only.)

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

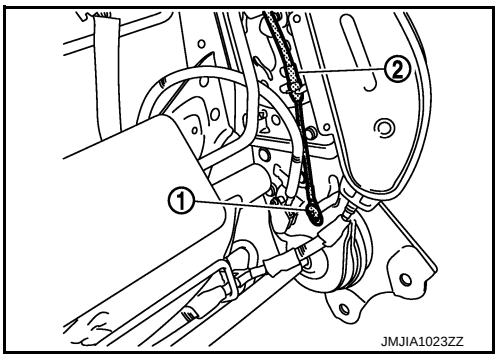
: Pawl



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



9. Remove the reclining device outer cover (front, rear).
10. Remove the reclining device inner cover (front, rear).
11. Remove the reclining device wire.
    - Remove the push nut (1).
    - Remove the reclining device wire (2) from the seatback frame and walk-in lever.



12. Remove the walk-in lever.

Assembly
Assemble in the reverse order of disassembly.
CAUTION:
Install the hog rings of seatback trim in position, and then securely connect the trim or trim cord with the pad side wire.

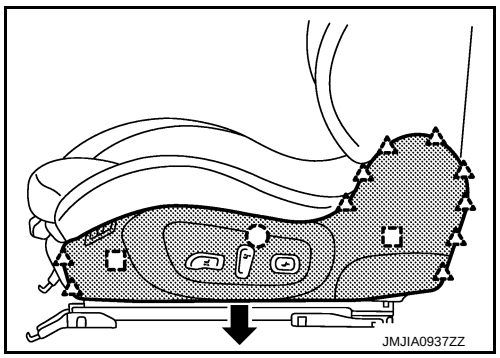
SEAT CUSHION

Disassembly
CAUTION:
- **Never disassemble front passenger seat cushion assembly.**
- **Always replace as an assembly.**
- **For front passenger seat service parts, refer to the service part catalogue.**

1. Remove the seat cushion outer finisher.

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

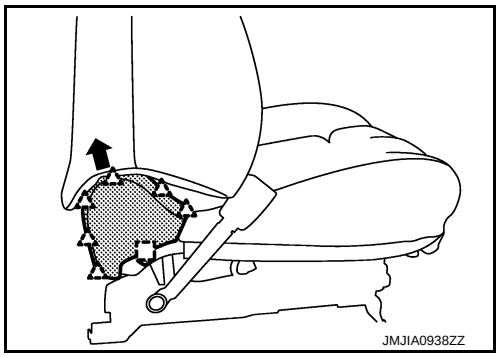
: Clip
: Metal clip
: Pawl


JMJIA0937ZZ

- Disconnect the seat control switch, lumbar support switch and side support switch harness connector.
- Remove the seat cushion outer finisher inside (front, rear).

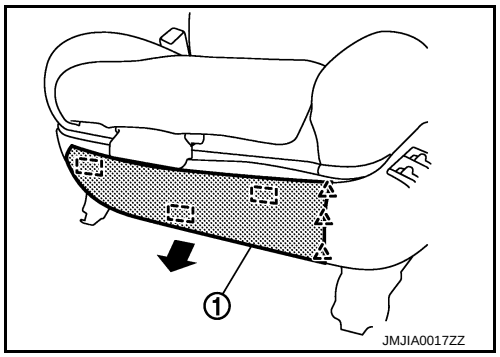
2. Remove the seat cushion inner finisher.
- Remove the seat cushion inner finisher inside (front, rear) by releasing the metal clip and pull it up together with the cover.
- Remove the seat cushion inner finisher inside (front, rear) from the seat cushion inner finisher by releasing the pawls.

: Metal clip
: Pawl


JMJIA0938ZZ

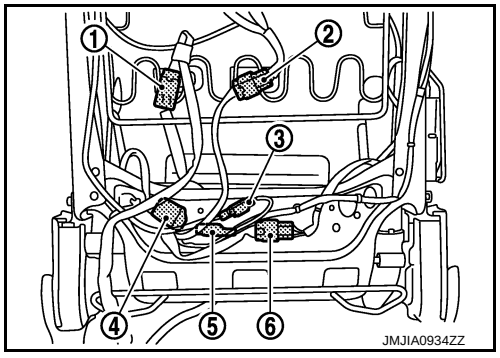
3. Remove the seat cushion front finisher.
Remove the metal clips, and then pull out seat cushion front finisher (1).

: Metal clip
: Pawl



JMJIA0017ZZ

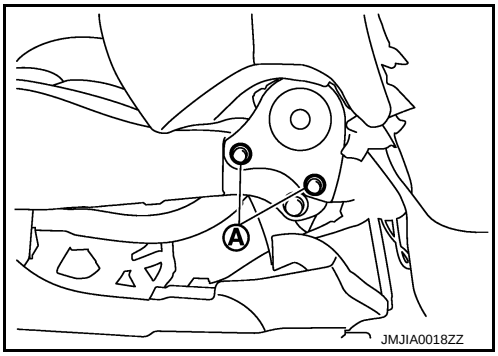
4. Remove the seatback assembly.
- Remove the seatback lower panel.
- Disconnect the side support unit harness connector (1) and remove the harness clamp.(Side support model only.)
- Disconnect the reclining and slide relay harness connector (2) and remove the harness clamp.
- Disconnect the power walk-in switch harness connector (3).
- Disconnect the forward switch harness connector (4).
- Disconnect the lumbar support motor harness connector (5) and remove the harness clamp.(Power lumbar support model only.)
- Disconnect the reclining motor harness connector (6) and remove the harness clamp.
- Disconnect the slide switch (seatback) harness connector. (Passenger's seat only)



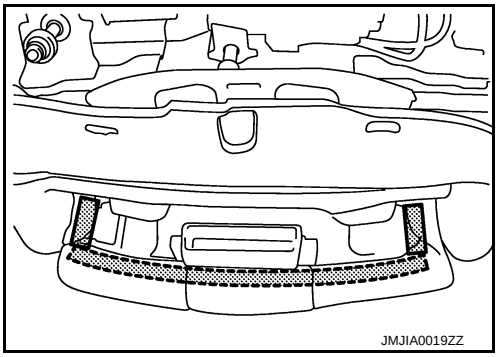
JMJIA0934ZZ

- Remove the side support hose joint located backside the seat cushion.(Side support model only.)
- Remove the seat cushion retainer, and then side air bag harness clamp and seatback heater unit harness connector.

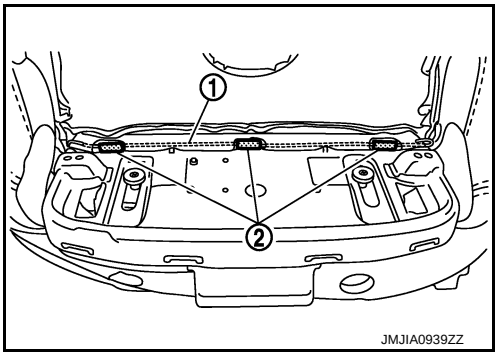
- Remove the seatback mounting bolts (A), and then remove the seatback assembly.



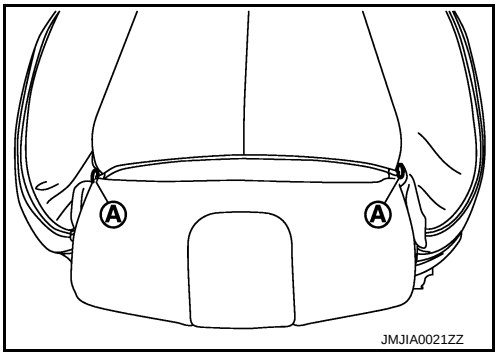
5. Remove the seat cushion pad (front). (Thigh extension model only.)
   - Remove the retainer.
   - Remove the seat cushion pad (front).



6. Remove the seat cushion trim and seat cushion pad.
   - Remove the seat cushion trim wire (1) from the hook (2).



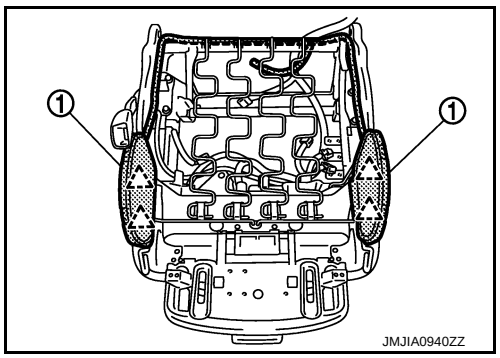
   - Remove the clips (A).(Thigh extension model only.)



   - Remove the seat cushion retainer.
   - Disconnect the seat cushion heater unit harness connector.
   - Remove the hog rings, and separate the seat cushion trim and seat cushion pad.
7. Remove the side support bag.(Side support model only.)
   - Remove the hose clamp.

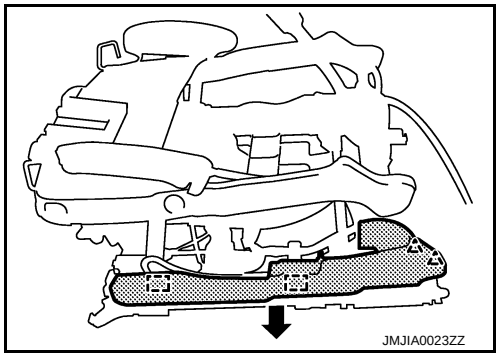
- Remove the pawls, and then remove side support bag (1).

: Pawl



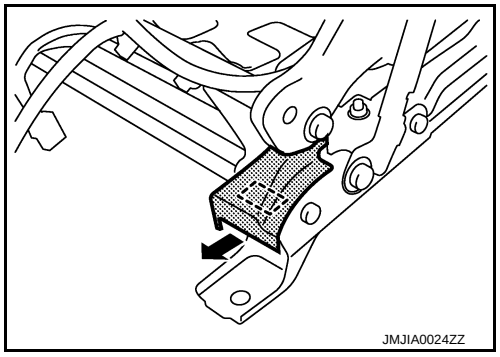
8. Remove the seat slide outer finisher.
   - Remove the metal clip and pawls, and then pull out seat slide outer finisher (outside).
   - Remove the metal clip, and then pull out seat slide outer finisher (inside).

: Metal clip



9. Remove the seat slide inner finisher.
   Remove the metal clip, and then pull out seat slide inner finisher.

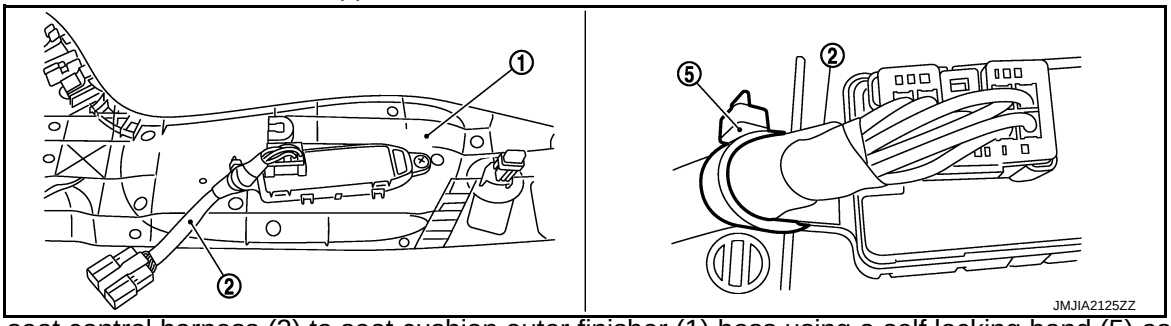
: Metal clip



Assembly

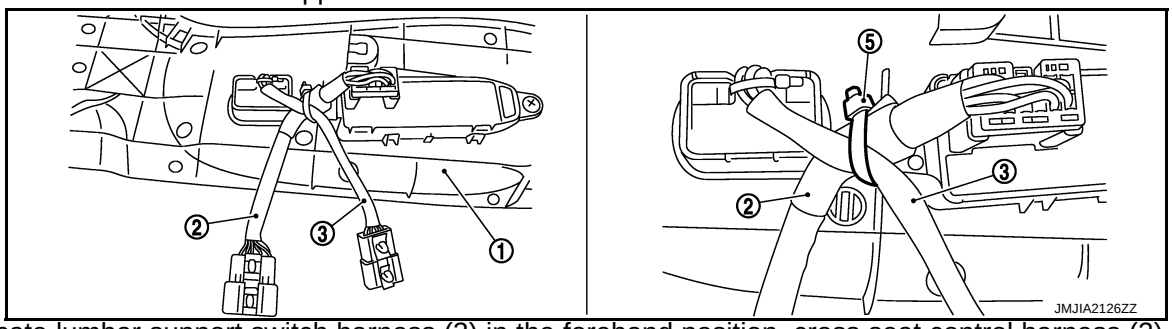
1. Assemble in the reverse order of disassembly.
   CAUTION:
   Install the hog rings of seat cushion trim in position, and then securely connect the trim or trim cord with the pad side wire.
2. Front seat switch harness layout.

a. Normal seat without lumbar support switch



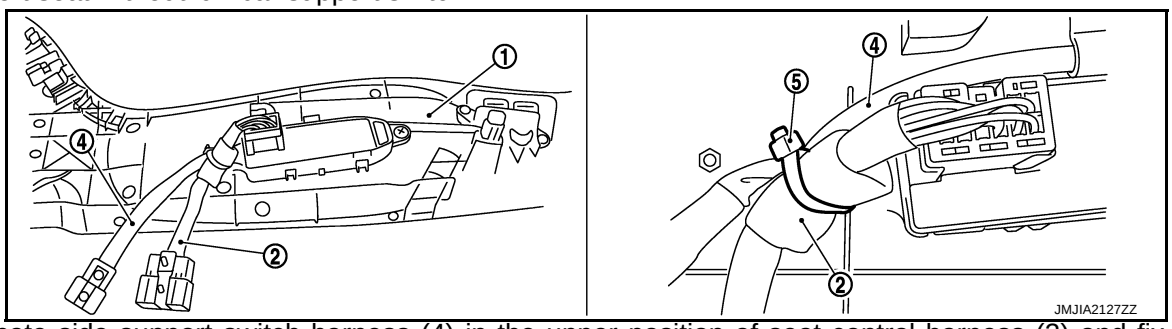
Fix seat control harness (2) to seat cushion outer finisher (1) boss using a self locking band (5) as shown in the figure.

b. Normal seat with lumbar support switch



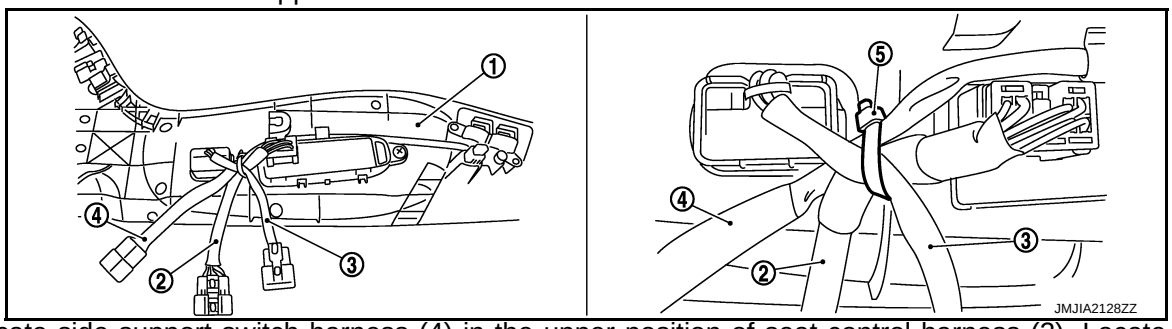
Locate lumbar support switch harness (3) in the forehand position, cross seat control harness (2), and fix to seat cushion outer finisher (1) boss using a self locking band (5) as shown in the figure.

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.

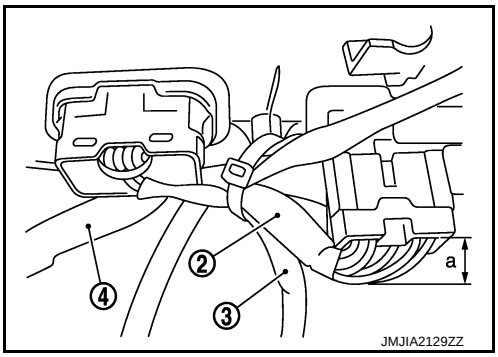
d. Sport seat with lumbar support switch



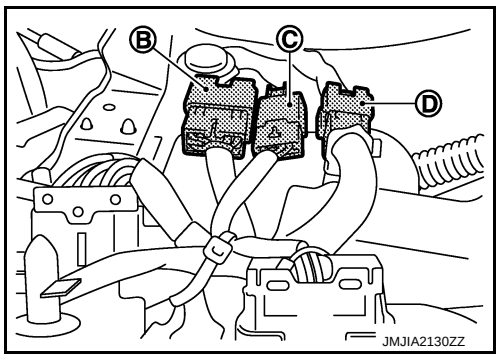
Locate side support switch harness (4) in the upper position of seat control harness (2). Locate lumbar support switch harness (3) crossing in the forehand position, and fix to seat cushion outer finisher (1) boss using a self locking band (5) as shown in the figure.

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.**

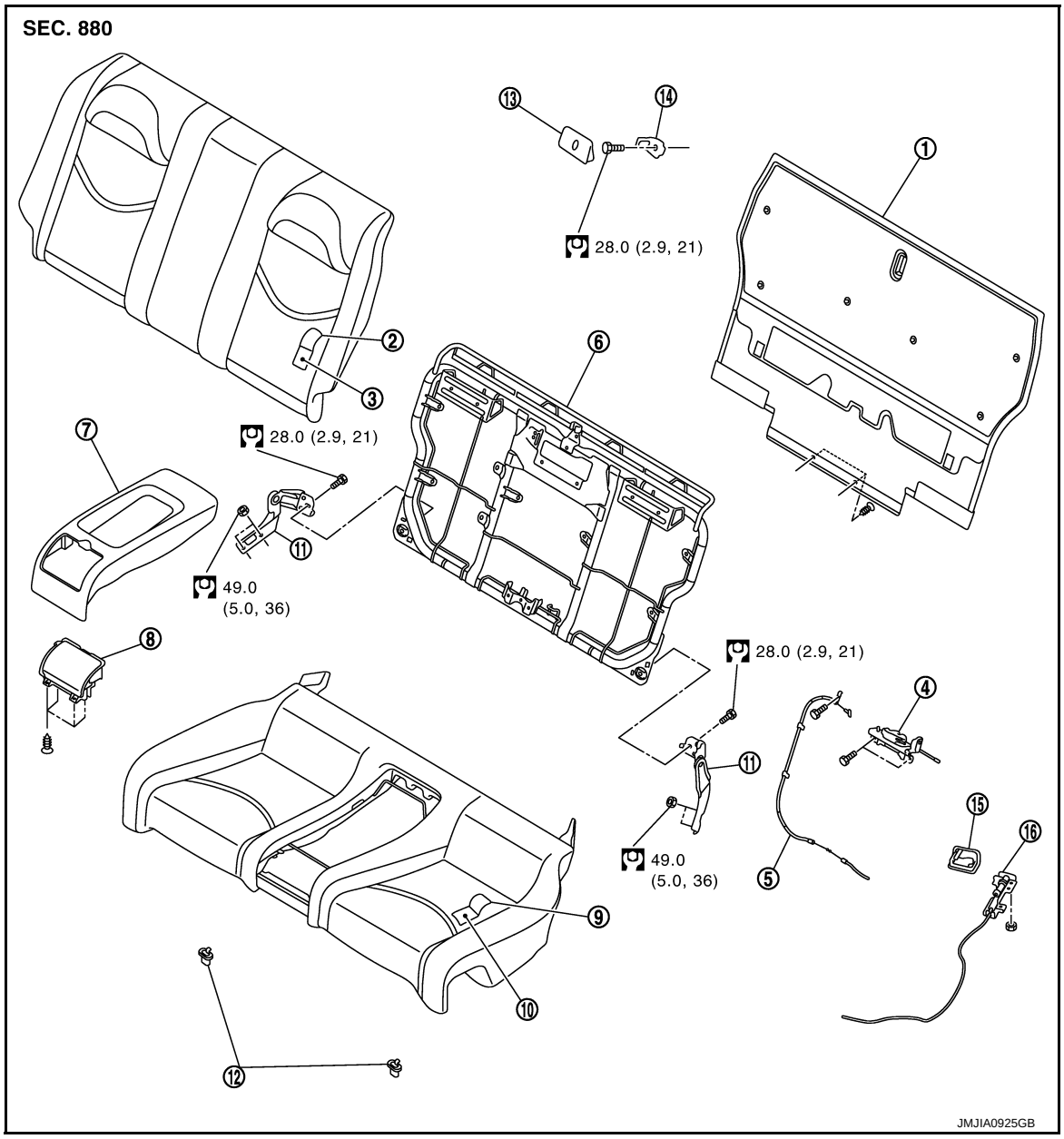


REAR SEAT

Exploded View

INFOID:0000000007472127

REAR SEAT



1. Seatback board
2. Seatback trim
3. Seatback pad
4. Seatback lock assembly
5. Seatback lock cable
6. Seatback frame
7. Center tray
8. Cup holder
9. Seat cushion trim
10. Seat cushion pad
11. Seatback side bracket
12. Seat cushion hook
13. Seat striker cover
14. Seat striker
15. Seat control lever escutcheon
16. Seatback control cable

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

Removal and Installation

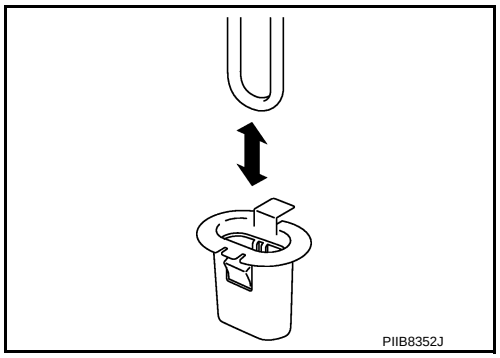
INFOID:0000000007472128

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 the seatback control cable. Refer to SE-179, "Removal and Installation".
   - Remove the seatback mounting bolt.
   - Remove the seatback frame the vehicle.
3. Remove the seatback side bracket.
   - Remove the seatback side bracket mounting nuts.
   - Remove the seatback side bracket from the vehicle.
4. Remove the seat striker.
   - Remove the seat striker cover.
   - Remove the seat striker mounting bolt.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

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

Disassembly and Assembly

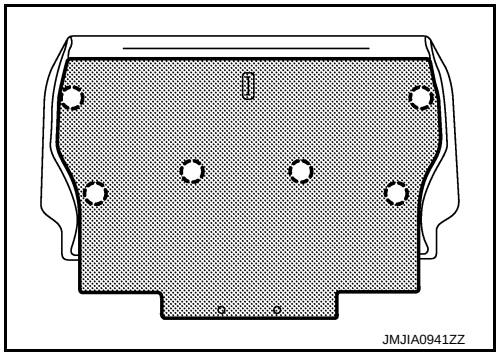
INFOID:0000000007472129

SEATBACK

Disassembly

1. Remove the seatback board.
   Remove the clips.

: Clip



2. Remove the seatback trim and seatback pad.
   - Remove the hog rings, and remove the seatback retainer.
   - Remove the hog rings to separate the seatback trim and seatback pad.
3. Remove the seatback lock cable.
   - Remove the mounting bolt and cable clamp.
   - Remove the seatback lock cable from the seatback frame.
4. Remove the seatback lock assembly.
   - Remove the seatback lock assembly mounting bolt.
   - Remove the seatback lock assembly from the seatback frame.

Assembly

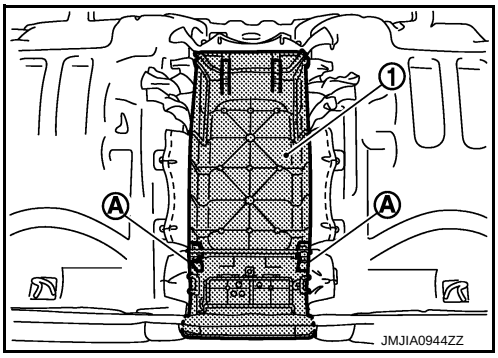
Assemble in the reverse order of disassembly.

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

SEAT CUSHION

Disassembly

1. Remove the center tray.
   - Remove the clips (A) from the seat cushion backside, and then remove pawls when pulling the center tray (1).



   - Remove the center tray from the seat cushion assembly.
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.

SEATBACK CONTROL CABLE

Exploded View

INFOID:0000000007472130

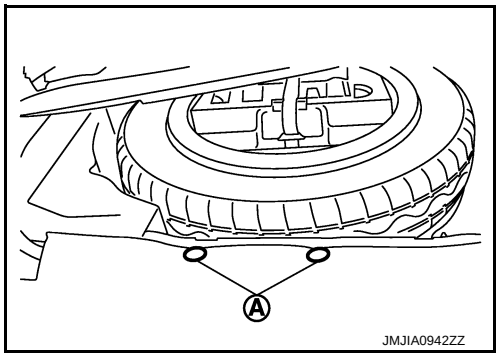
Refer to SE-176, "Exploded View".

Removal and Installation

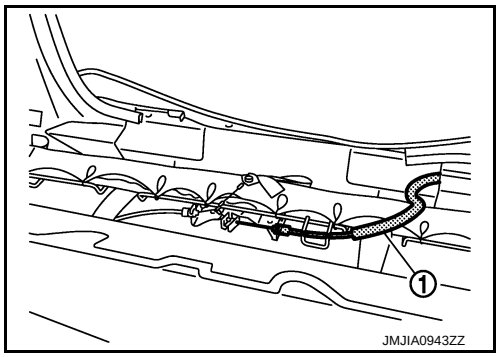
INFOID:0000000007472131

REMOVAL

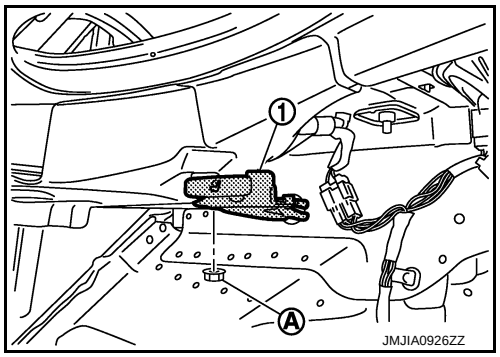
1. Remove the trunk front finisher upper. Refer to INT-29, "Removal and Installation".
2. Remove the seatback control cable.
   - Fold the seatback before.
   - Remove the clips (A), and then pull up the seatback lower part.



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



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



INSTALLATION

Install in the reverse order of removal.

DRIVER SEAT CONTROL UNIT

Exploded View

INFOID:0000000007472132

Refer to SE-163, "Exploded View".

Removal and Installation

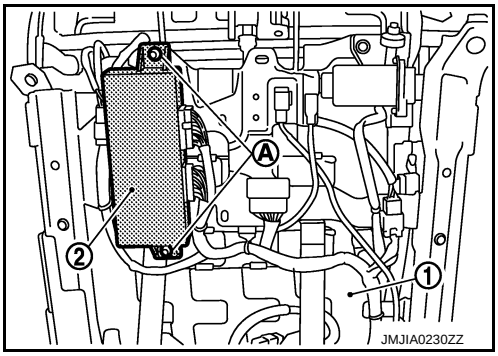
INFOID:0000000007472133

REMOVAL

CAUTION:

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

1. Remove driver seat (1). Refer to SE-166, "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:0000000007472134

Refer to SE-163, "Exploded View".

Removal and Installation

INFOID:0000000007472135

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-180, "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:0000000007472136

Refer to SE-163, "Exploded View".

Removal and Installation

INFOID:0000000007472137

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-163, "Exploded View".

INSTALLATION

Install in the reverse order of removal.

CAUTION:

Always clamp the harness to the right place.

POWER SEAT SWITCH

Removal and Installation

INFOID:0000000007472140

REMOVAL

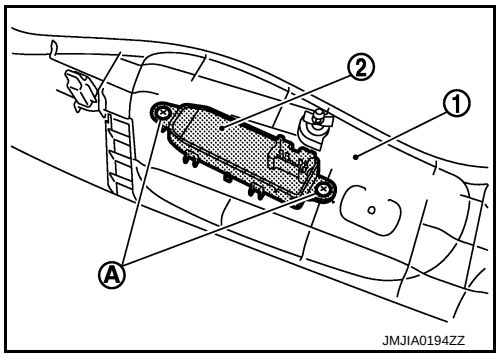
CAUTION:

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-166, "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

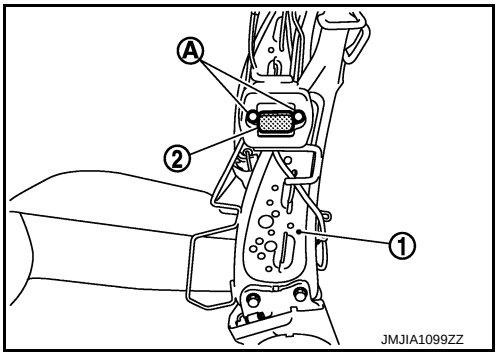
INFOID:0000000007472141

REMOVAL

CAUTION:

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

1. Remove seatback pad. Refer to SE-166, "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

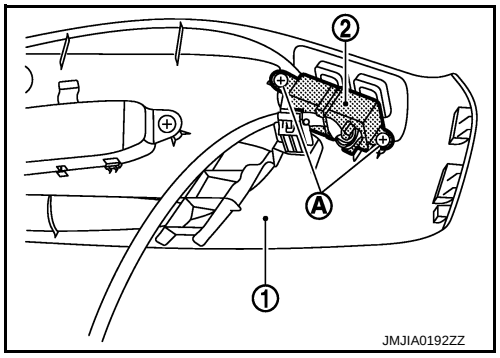
INFOID:0000000007472142

REMOVAL

CAUTION:

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

1. Remove seat cushion outer finisher (1). Refer to SE-166, "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

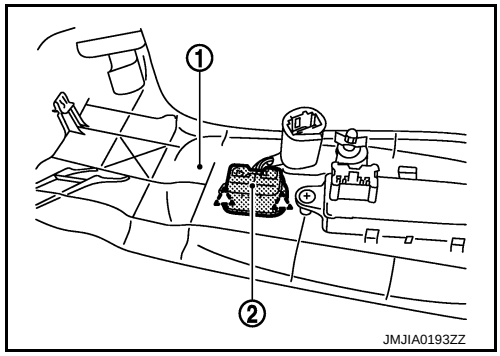
INFOID:0000000007472143

REMOVAL

CAUTION:

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

1. Remove seat cushion outer finisher (1). Refer to SE-166, "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:0000000007472144

Refer to IP-35, "A/T MODELS : Exploded View" (A/T models) or IP-40, "M/T MODELS : Exploded View" (M/T models).

Removal and Installation

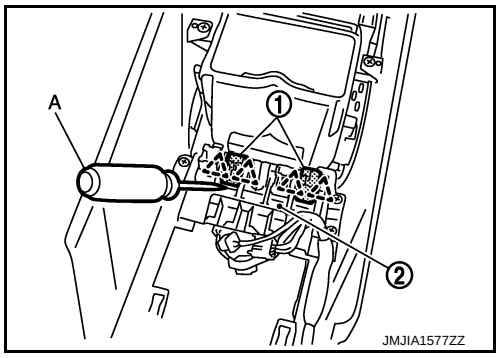
INFOID:0000000007472145

REMOVAL

CAUTION:

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

1. Remove the console body assembly. Refer to IP-36, "A/T MODELS : Removal and Installation" (A/Y models) or IP-41, "M/T MODELS : Removal and Installation" (M/T models).
2. Remove heated seat switch (1) from switch bracket (2) with remover tool (A).



: Pawl

NOTE:

The same procedure is performed for passenger side.

INSTALLATION

Install in the reverse order of removal.