SECTION SE
SEAT

CONTENTS

BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

WorkFlow

INFOID:0000000001734372

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 “COMPONENT DIAGNOSIS”

Perform the diagnosis with “Component 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:0000000001694207

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

NOTE:

When disconnecting the battery terminal or replacing the driver seat control unit, DTC, registered items of memory storing, and setting details of system setting detected in the past are erased. Perform operation after checking the contents.

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement

INFOID:0000000001694208

1. SYSTEM INITIALIZATION

Perform system initialization. Refer to SE-7, "SYSTEM INITIALIZATION : Description".

>> Work end.

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Description

INFOID:0000000001728907

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

NOTE:

When disconnecting the battery terminal or replacing the driver seat control unit, DTC, registered items of memory storing, and setting details of system setting detected in the past are erased. Perform operation after checking the contents.

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement

INFOID:0000000001728908

1. SYSTEM INITIALIZATION

Perform system initialization. Refer to SE-7, "SYSTEM INITIALIZATION : Description".

>> Work end.

SYSTEM INITIALIZATION

SYSTEM INITIALIZATION : Description

INFOID:0000000001694211

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:0000000001694212

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.

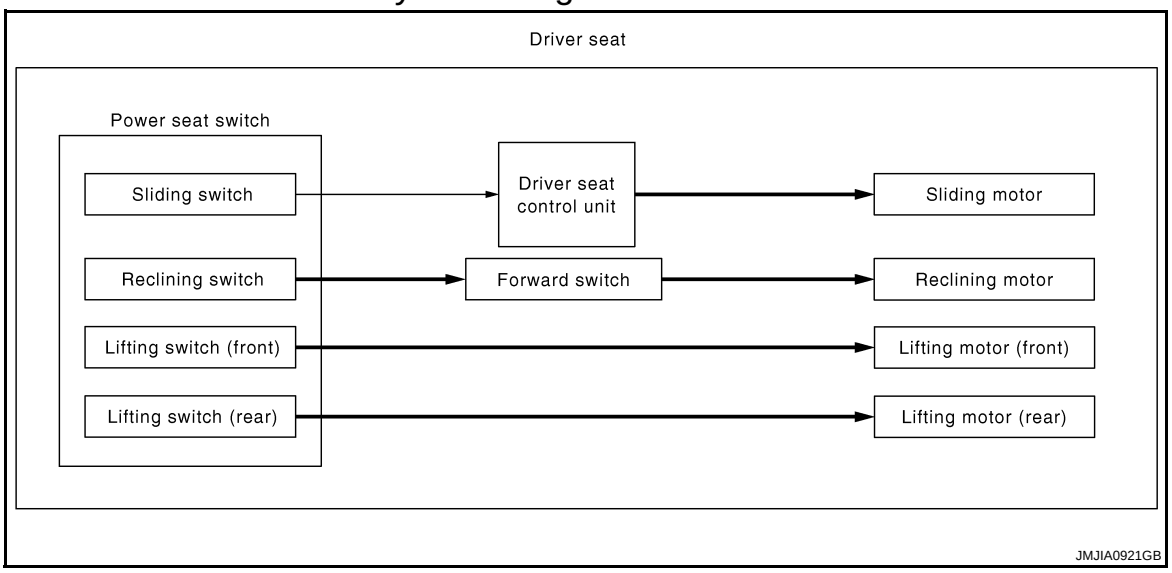
FUNCTION DIAGNOSIS

POWER SEAT FOR DRIVER SIDE

POWER SEAT FUNCTION

POWER SEAT FUNCTION : System Diagram

INFOID:0000000001729823



POWER SEAT FUNCTION : System Description

INFOID:0000000001694077

SLIDING OPERATION

While operating the sliding switch located in power seat switch, sliding motor operates and makes possible the seat front and back position adjustment.

RECLINING OPERATION

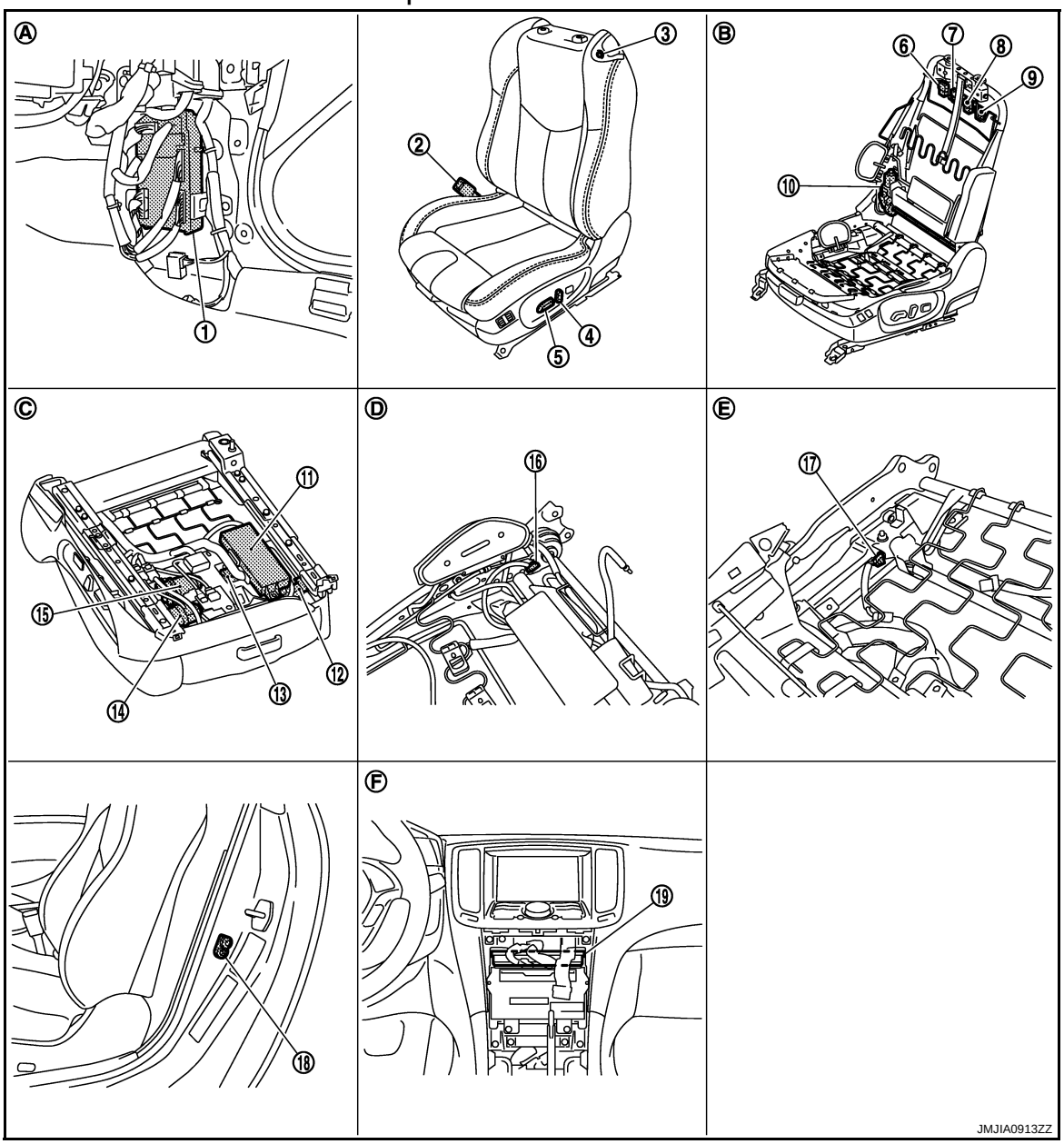
While operating the reclining switch located in power seat switch, reclining motor operates and makes possible the seat back forward and backward position adjustment.

LIFTING OPERATION

While operating the lifting switch located in power seat switch, lifting motor operates and makes possible the seat cushion (front and rear) up and down position adjustment.

POWER SEAT FUNCTION : Component Parts Location

INFOID:0000000001694078



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 relay (backward) B518
7.	Sliding relay (forward) B515	8.	Sliding relay (backward) B516	9.	Reclining relay (forward) B517
10.	Reclining motor B524	11.	Driver seat control unit B503, B504	12.	Sliding sensor B526
13.	Lifting motor (front) B528	14.	Sliding motor B525	15.	Lifting motor (rear) B530
16.	Forward switch B512	17.	Sliding limit switch B514	18.	Driver side door switch B16
19.	Unified meter and A/C amp. M67				
A.	Dash side lower (passenger side)	B.	View with seat cushion pad and seat back pad are removed.	C.	View with back side of seat cushion.
D.	View with seat back pad is removed.	E.	View with seat cushion pad is removed.	F.	Behind cluster lid C

POWER SEAT FUNCTION : Component Description

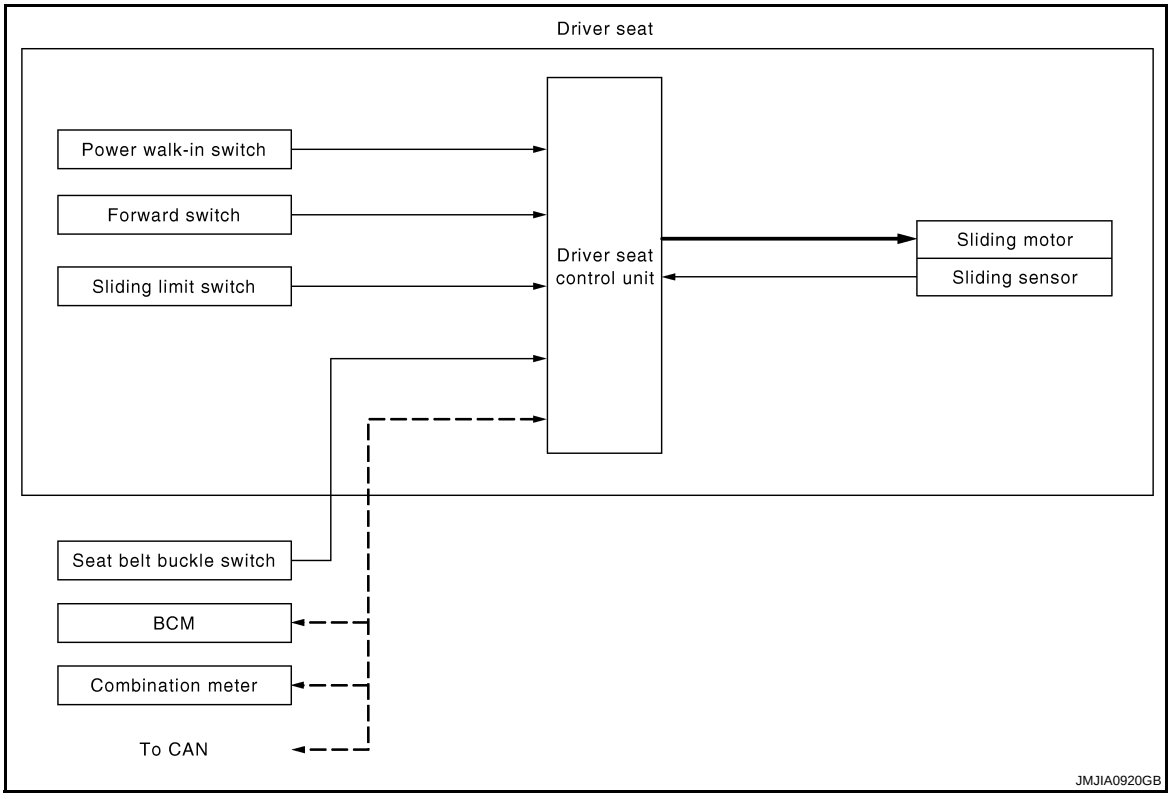
INFOID:0000000001694079

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

POWER WALK-IN FUNCTION

POWER WALK-IN FUNCTION : System Diagram

INFOID:0000000001728885



POWER WALK-IN FUNCTION : System Description

INFOID:0000000001837448

OUTLINE

Slide the driver seat automatically with the power walk-in switch operation so as to easily facilitate the entry to the rear seat.

Forward Operation

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

OPERATION PROCEDURE

Forward Operation

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

Backward Operation

1. Open driver door.
2. Fold up the seatback after performing the forward operation.
3. Press the power walk-in switch.
4. Slide the seat to the previous position before the forward operation was 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 edge
Seat back	Folded down

Backward Operation

Item	Request status
Initialize	Done
Driver side seat belt	Not fastened
Switch inputs • Power seat switch (sliding) • Set switch • Memory switch	Not operated
Vehicle speed	0 km/h
Seat position (sliding)	The seat sliding position will not move after performing the forward operation.
Seat back	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 inputted to the driver seat control unit when the power walk-in switch is operated.

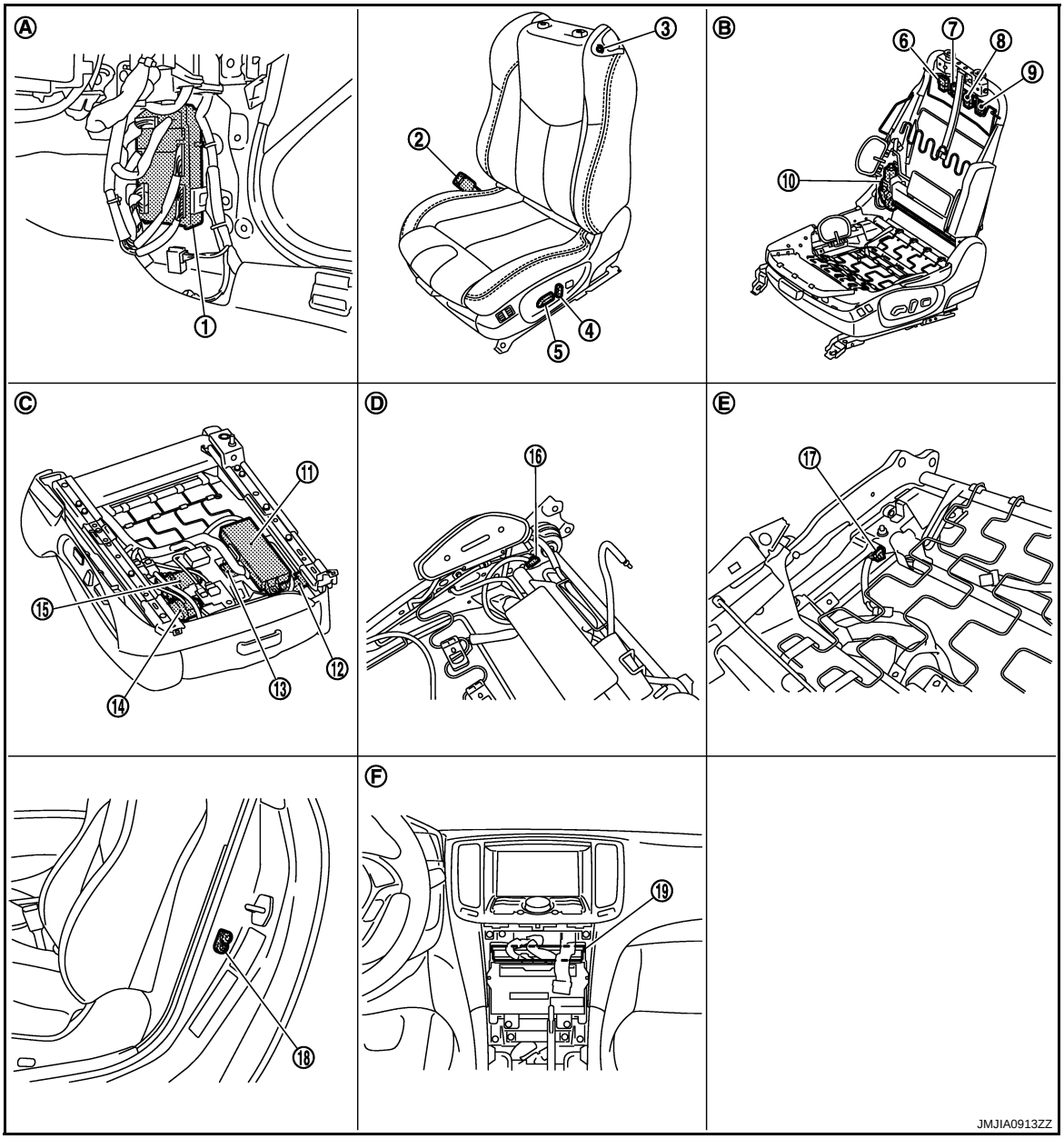
Order	Inputs	Outputs	Control unit condition
3	—	Sliding motor (forward)	Driver seat control unit operates the seat sliding motor forward when it detects that the power walk-in switch is operated.
4	Sliding limit switch	—	Driver seat control unit stops the seat sliding motor when it detects that the seat 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 inputted 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 position before performing the forward operation by the signal from sliding sensor.

POWER WALK-IN FUNCTION : Component Parts Location

INFOID:0000000001729825



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 relay (backward) B518
7.	Sliding relay (forward) B515	8.	Sliding relay (backward) B516	9.	Reclining relay (forward) B517
10.	Reclining motor B524	11.	Driver seat control unit B503, B504	12.	Sliding sensor B526
13.	Lifting motor (front) B528	14.	Sliding motor B525	15.	Lifting motor (rear) B530
16.	Forward switch B512	17.	Sliding limit switch B514	18.	Driver side door switch B16
19.	Unified meter and A/C amp. M67				
A.	Dash side lower (passenger side)	B.	View with seat cushion pad and seat back pad are removed.	C.	View with back side of seat cushion.
D.	View with seat back pad is removed.	E.	View with seat cushion pad is removed.	F.	Behind cluster lid C

POWER WALK-IN FUNCTION : Component Description

INFOID:0000000001837447

CONTROL UNITS

Item	Function
Driver seat control unit	Operates the specific seat motor with the signal from the power seat switch.
Unified meter and A/C amp.	Transmit the vehicle speed signal to the driver seat control unit via CAN communication.
BCM	Transmit the following status to the driver seat control unit via CAN communication. • Driver door: OPEN/CLOSE • Starter: CRANKING/OTHER

INPUT PARTS

Switches

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

Sensors

Item	Function
Sliding sensor	Detect the frontward/rearward position of seat.

OUTPUT PARTS

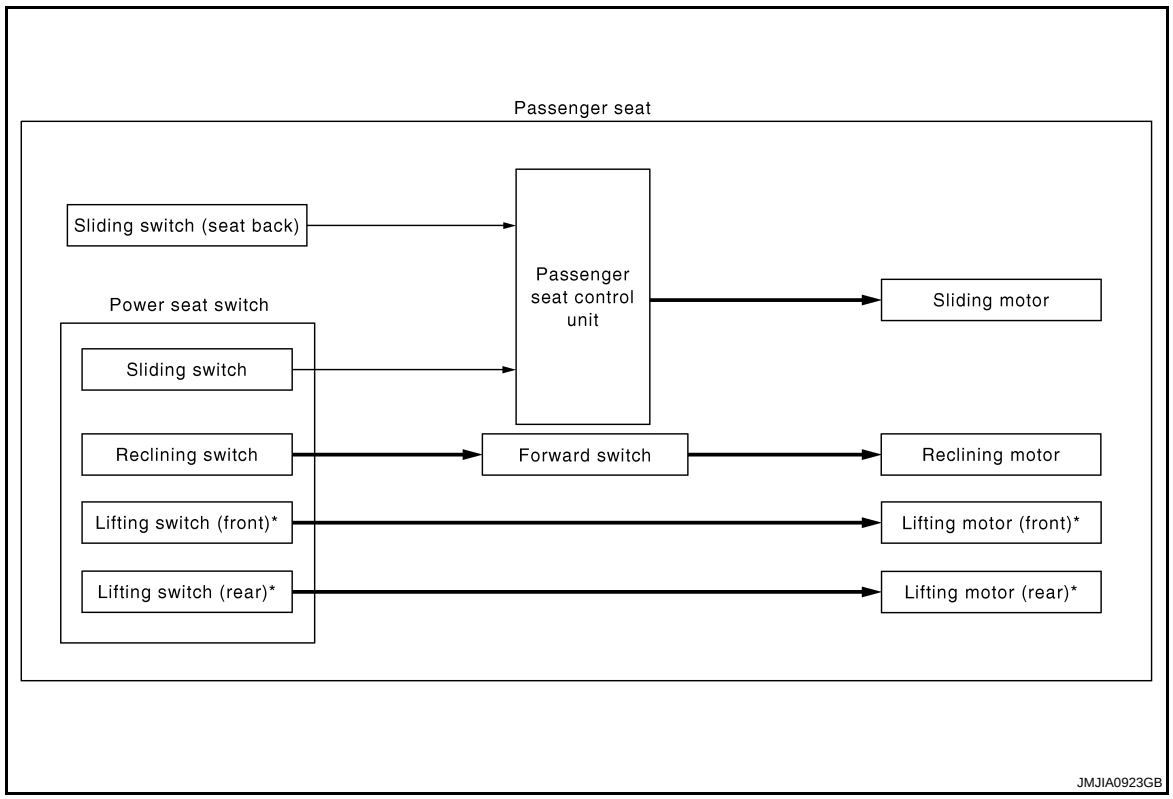
Item	Function
Sliding motor	Slide the seat frontward/rearward.

POWER SEAT FOR PASSENGER SIDE

POWER SEAT FUNCTION

POWER SEAT FUNCTION : System Diagram

INFOID:0000000001729824



*: If seat lifting (front/rear) function is equipped.

POWER SEAT FUNCTION : System Description

INFOID:0000000001705181

BCM can operate regardless of the ignition switch position, because battery power is supplied at all times to power seat switch.

SLIDING OPERATION

While operating the sliding switch located in power seat switch, sliding motor operates and makes possible the seat frontward and backward position adjustment.

RECLINING OPERATION

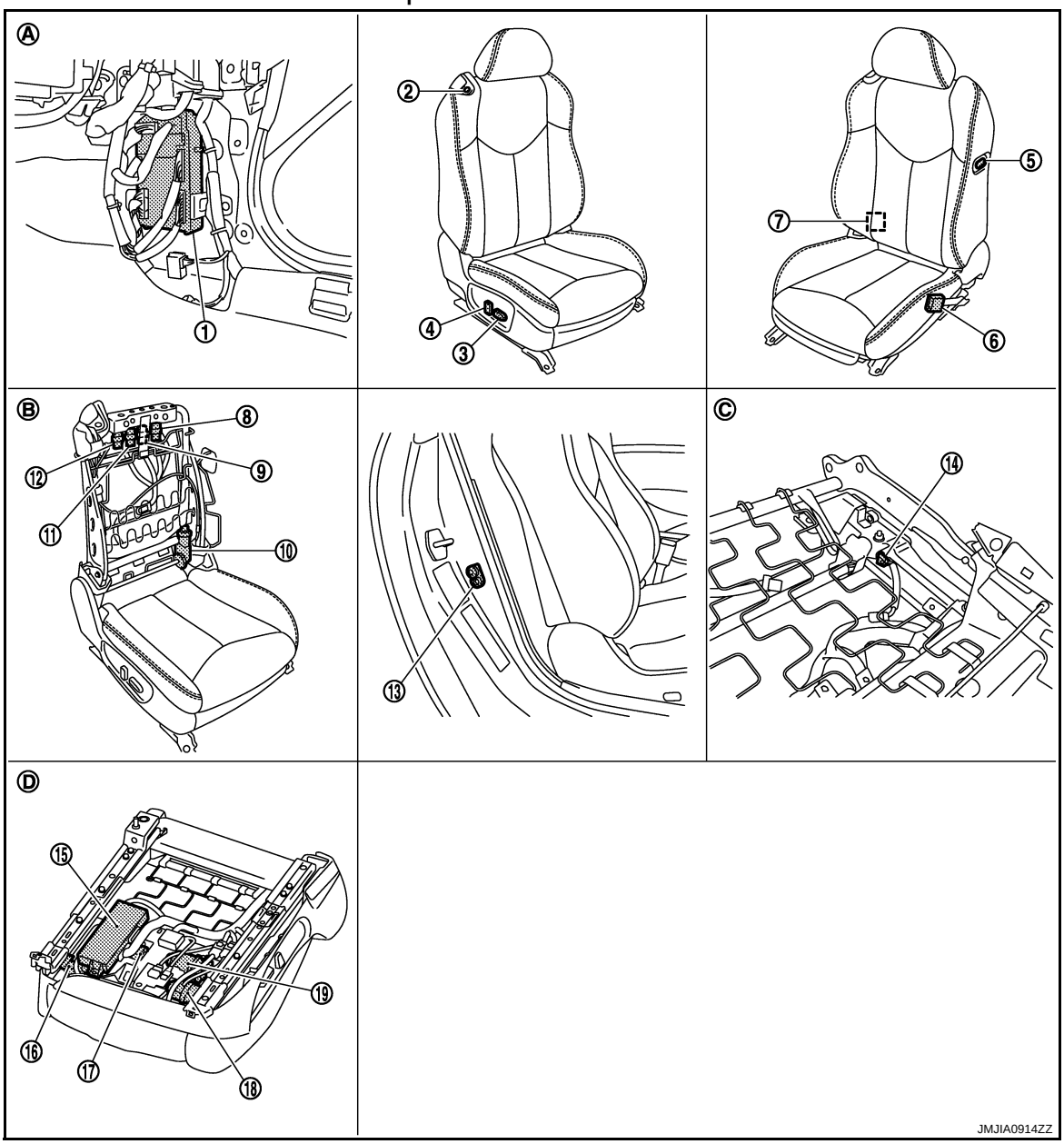
While operating the reclining switch located in power seat switch, reclining motor operates and makes possible the seat back forward and backward position adjustment.

LIFTING OPERATION

While operating the lifting switch located in power seat switch, lifting motor operates and makes possible the seat cushion (front/rear) upward and downward position adjustment.

POWER SEAT FUNCTION : Component Parts Location

INFOID:0000000001729822



1.	BCM M118, M119	2.	Power walk-in switch B557	3.	Sliding, lifting switch (Power seat switch B554)
4.	Reclining switch (Power seat switch B554)	5.	Sliding switch (seat back) B561	6.	Seat belt buckle switch (passenger side) B213
7.	Forward switch B556	8.	Reclining relay (forward) B562	9.	Sliding relay (backward) B560
10.	Reclining motor B566	11.	Sliding relay (forward) B559	12.	Reclining relay (backward) B563
13.	Door switch (passenger side) B216	14.	Sliding limit switch B558	15.	Passenger seat control unit B552, B553
16.	Sliding sensor B568	17.	Lifting motor (front) B569	18.	Sliding motor B567
19.	Lifting motor (rear) B570				
A.	Dash side lower (passenger side)	B.	View with seat back pad is removed.	C.	View with seat back pad is removed.
D.	Back side of seat cushion.				

POWER SEAT FUNCTION : Component Description

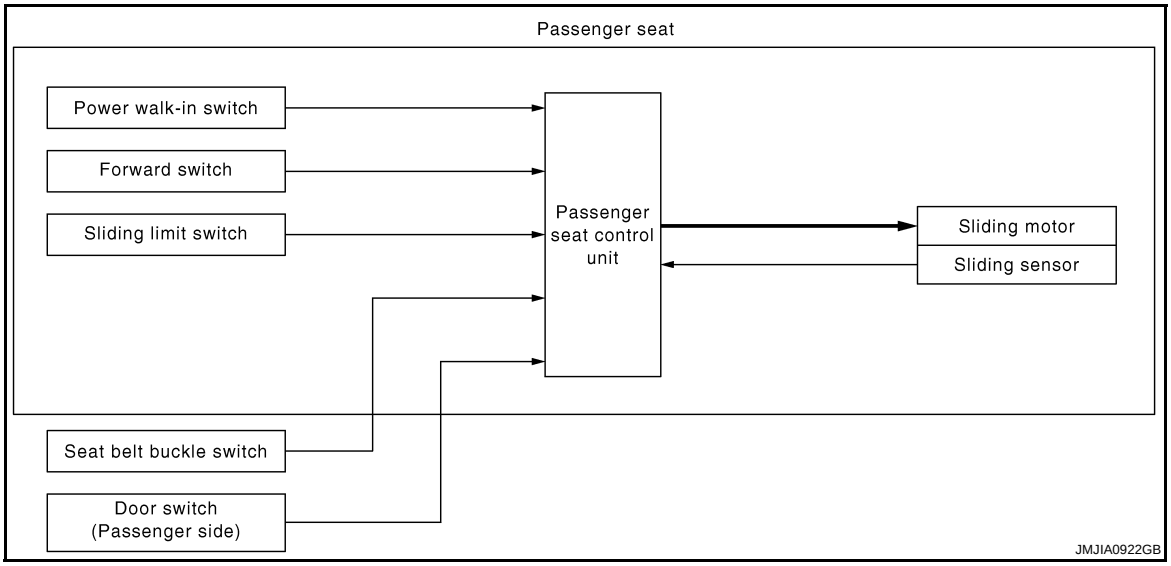
INFOID:0000000001705183

Item	Function
BCM	Supplies at all times the power received from battery to power seat switch and passenger seat control unit.
Passenger seat control unit	Operates the sliding motor with the signal from the sliding switch.
Power seat switch	Built-in reclining switch, sliding switch and lifting switch, controls the power supplied to each motor.
Reclining motor	With the power supplied to power seat switch, operates the forward and backward movement of seatback.
Sliding motor	With the power supplied to power seat switch, operates the forward and backward slide of seat.
Lifting motor (front/rear)	With the power supplied to power seat switch, operates the up and down movement of seat cushion.

POWER WALK-IN FUNCTION

POWER WALK-IN FUNCTION : System Diagram

INFOID:0000000001728889



POWER WALK-IN FUNCTION : System Description

INFOID:0000000001837454

OUTLINE

Slide the passenger seat automatically with the power walk-in switch operation so as to easily facilitate the entry to the rear seat.

Forward Operation

Slide (forward) the passenger 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 seat back is folded up after performing the forward operation of power walk-in function. Slide (backward) it to the position [maximum amount is 178 mm (7.0 in) from front edge] before performing the forward operation by operating the power walk-in switch.
If the manual operation is 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 is folded down.

3. Press the power walk-in switch.
4. Slide the seat to the front end position.

Backward Operation

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

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
Seat back	Folded down

Backward Operation

Item	Request status
Initialize	Done
Passenger side seat belt	Not fastened
Switch inputs • Power seat switch (sliding) • Set switch • Memory switch	Not operated
Seat position (sliding)	The seat sliding position will not move after performing the forward operation.
Seat back	Folded up

DETAIL FLOW

Forward Operation

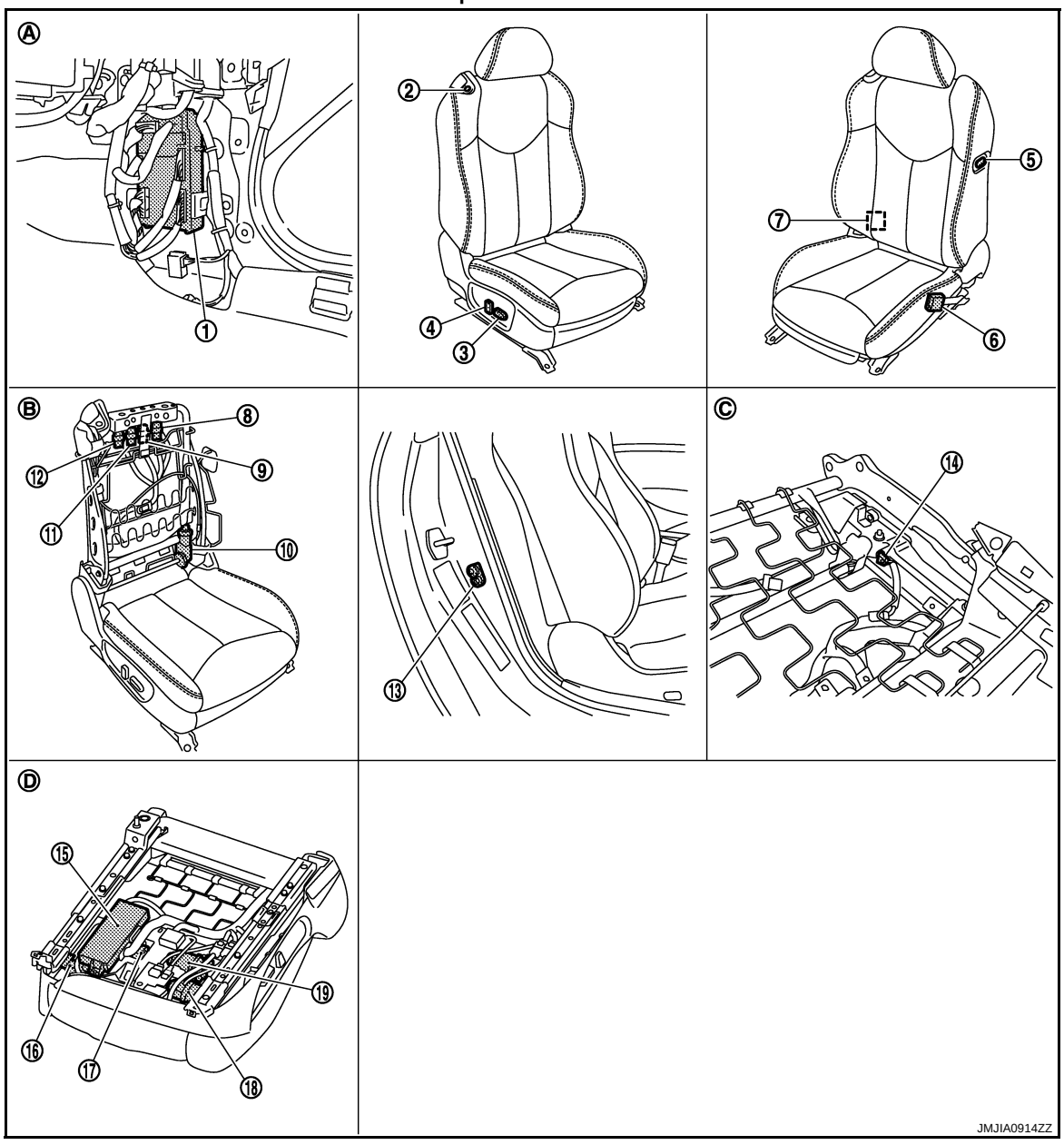
Order	Inputs	Outputs	Control unit condition
1	Forward switch	—	Passenger seat control unit detects that the seatback is folded down by the signal from the forward switch.
2	Power walk-in switch	—	The operation signal is inputted to the passenger seat control unit when the power walk-in switch is operated.
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 inputted 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 position before performing the forward operation by the signal from sliding sensor.

POWER WALK-IN FUNCTION : Component Parts Location

INFOID:0000000001729826



1.	BCM M118, M119	2.	Power walk-in switch B557	3.	Sliding, lifting switch (Power seat switch B554)
4.	Reclining switch (Power seat switch B554)	5.	Sliding switch (seat back) B561	6.	Seat belt buckle switch (passenger side) B213
7.	Forward switch B556	8.	Reclining relay (forward) B562	9.	Sliding relay (backward) B560
10.	Reclining motor B566	11.	Sliding relay (forward) B559	12.	Reclining relay (backward) B563
13.	Door switch (passenger side) B216	14.	Sliding limit switch B558	15.	Passenger seat control unit B552, B553
16.	Sliding sensor B568	17.	Lifting motor (front) B569	18.	Sliding motor B567
19.	Lifting motor (rear) B570				
A.	Dash side lower (passenger side)	B.	View with seat back pad is removed.	C.	View with seat back pad is removed.
D.	Back side of seat cushion.				

POWER WALK-IN FUNCTION : Component Description

INFOID:0000000001837455

CONTROL UNITS

Item	Function
Passenger seat control unit	Operates the sliding motor with the signal from the power seat switch.

INPUT PARTS

Switches

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

Sensors

Item	Function
Sliding sensor	Detect the frontward/rearward position of seat.

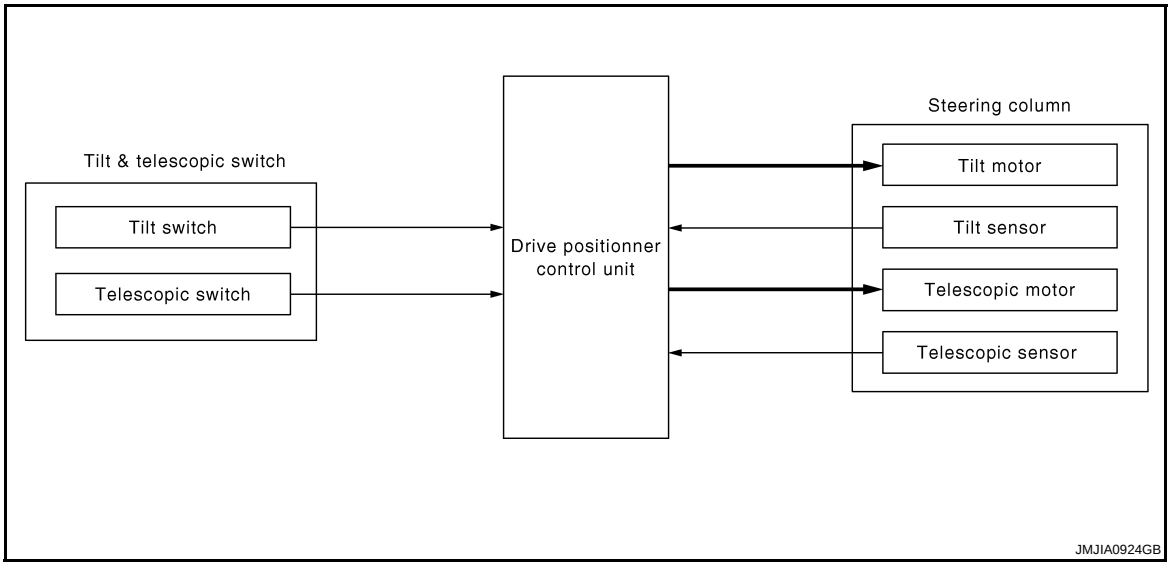
OUTPUT PARTS

Item	Function
Sliding motor	Slide the seat frontward/rearward.

TILT&TELESCOPIC SYSTEM

System Diagram

INFOID:0000000001734687



System Description

INFOID:0000000001694080

Power from battery is supplied at all times to automatic driver positioner control unit, tilt & telescopic system can operate regardless of the ignition switch position.

TILT OPERATION

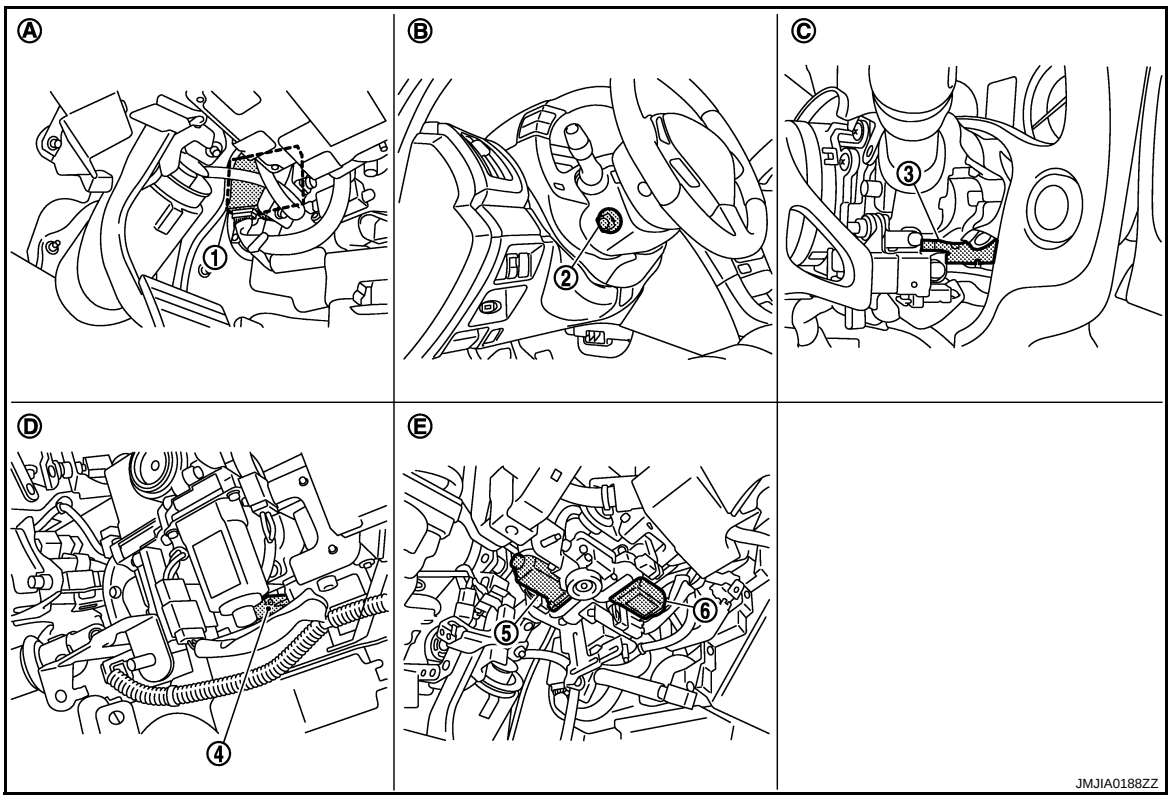
- While operating the tilt & telescopic switch, tilt motor operates, and allows up or down position adjustment of steering wheel.
- During tilt motor operation tilt sensor detects the position of steering wheel and automatically cuts the power when the operation limit is reached.

TELESCOPIC OPERATION

- Operating the tilt & telescopic switch, telescopic motor operates and allows forward and backward position regulation of steering wheel.
- During telescopic motor operation telescopic sensor detects the position of steering wheel and automatically cuts the power when the operation limit is reached.

Component Parts Location

INFOID:0000000001694081



1.	Automatic drive positioner control unit M51, M52	2.	Tilt & telescopic switch M31	3.	Telescopic sensor M48
4.	Tilt sensor M48	5.	Telescopic motor M49	6.	Tilt motor M49
A.	View with instrument driver lower panel is removed.	B.	Steering column cover	C.	View with steering column cover is removed.
D.	View with steering column cover is removed.	E.	View with instrument lower cover is removed.		

Component Description

INFOID:0000000001694082

Item	Function
Automatic drive positioner control unit	Detects data input signal of tilt & telescopic switch and tilt & telescopic sensor, performs tilt & telescopic motor control.
Tilt & telescopic switch	Tilt switch and telescopic switch, as a unit, transmit switch operation signal to automatic drive positioner control unit.
Tilt & telescopic motor	Operates with the power received from automatic drive positioner control unit.
Tilt & telescopic sensor	Detects the position of steering, send signal to automatic drive positioner control unit.

SIDE SUPPORT UNIT

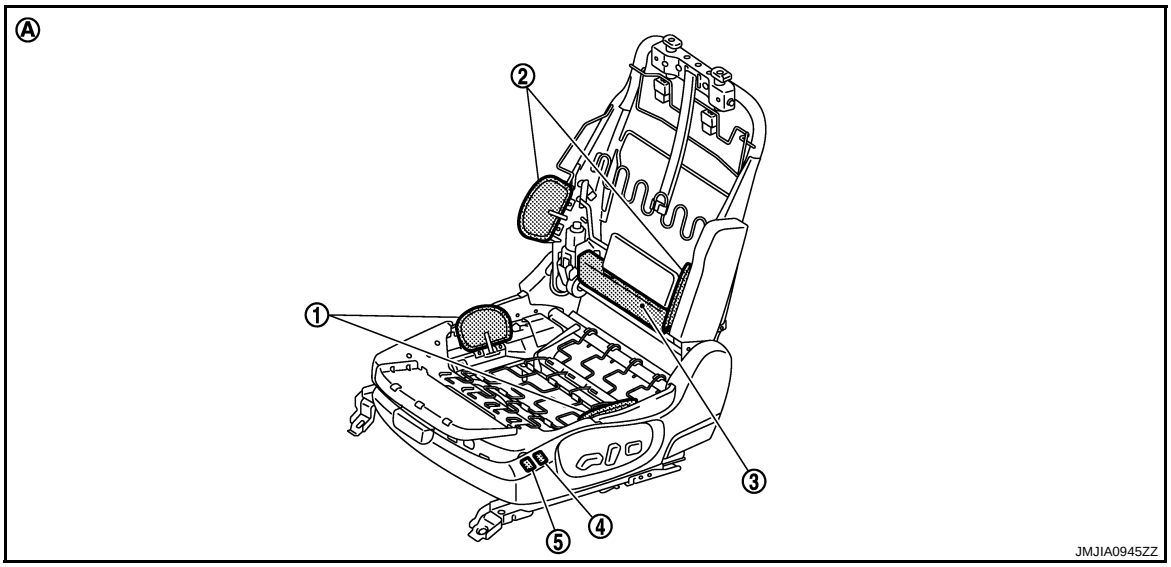
System Description

INFOID:0000000001728895

- 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:0000000001728896



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:0000000001728897

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

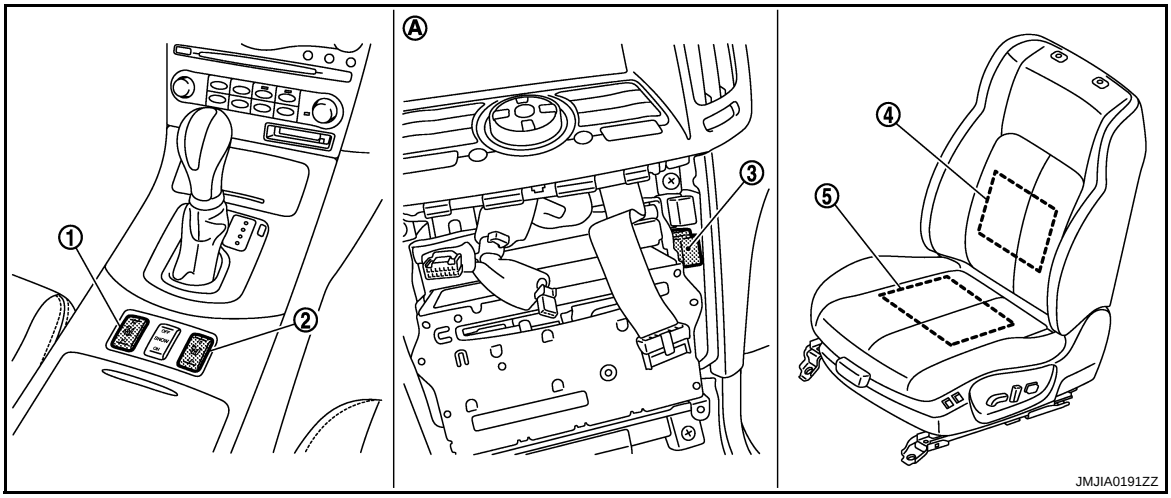
System Description

INFOID:0000000001694225

- Heated seat is a system that operates when ignition switch is in ON or START position.
- While operating the heated seat switch, seat cushion heater and seat back heater operate.
- Changing heated seat switch to LOW/HIGH position, depending on working heater number it is possible to adjust the seat temperature.

Component Parts Location

INFOID:0000000001694226



1. Heated seat switch (driver side)
   M138: A/T models
   M172: M/T models
2. Heated seat switch (passenger side)
   M140: A/T models
   M173: M/T models
3. Heated seat relay M70
4. Seat back heater
5. Seat cushion heater
   B507: Driver side
   B555: Passenger side

A. View with cluster lid C is removed.

Component Description

INFOID:0000000001694227

Item	Function
Heated seat switch (driver side / passenger side)	• Power is supplied to each heater. • Depending on LOW/HIGH position of switch, operating heater number is changeable.
Seat cushion heater	Built-in seat cushion, the heater operates with the power supplied by heater seat switch.
Seat back heater	Built-in seatback, the heater operates with the power supplied by heater seat switch.

LUMBAR SUPPORT

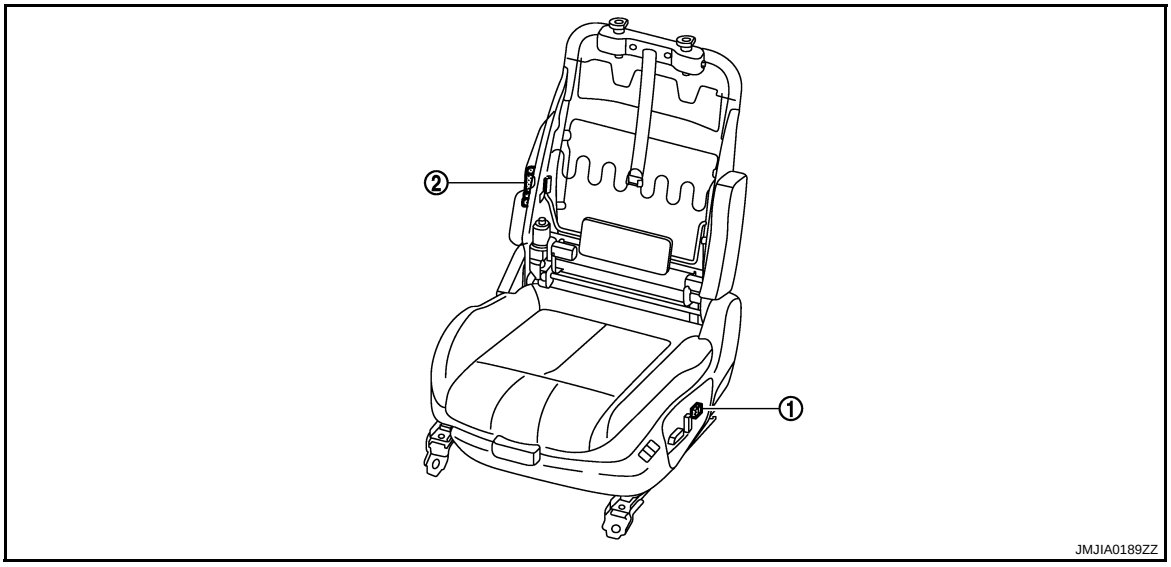
System Description

INFOID:0000000001694228

- 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:0000000001694229



1. Lumbar support switch B547
2. Lumbar support motor B548

Component Description

INFOID:0000000001694230

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)

Diagnosis Description

INFOID:0000000001730051

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

DIAGNOSTIC MODE

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

CONSULT-III Function

INFOID:0000000001730052

SELF DIAGNOSTIC RESULTS

Refer to SE-112, "DTC Index".

DATA MONITOR

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

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

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

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

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

ACTIVE TEST

CAUTION:

When driving vehicle, do not perform active test.

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

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

COMPONENT DIAGNOSIS

U1000 CAN COMM CIRCUIT

Description

INFOID:0000000001729811

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:0000000001729812

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 at least 3 seconds.

>> GO TO 2.

2. STEP 2

Check “Self Diagnostic Result” with CONSULT-III.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to SE-29, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000001729813

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

Special Repair Requirement

INFOID:0000000001729814

Refer to SE-7, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement".

B2112 SLIDING MOTOR

Description

INFOID:0000000001729815

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

DTC Logic

INFOID:0000000001729816

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 second or more even if the sliding switch is not input.	• Driver seat control unit

DTC CONFIRMATION PROCEDURE

1.STEP 1

Turn ignition switch ON.

>> GO TO 2.

2.STEP 2

Check “Self Diagnostic Result” with CONSULT-III.

Is the DTC detected?

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

NOTE:
First perform diagnosis for B2126 or B2127 if B2126 or B2127 is detected.

Diagnosis Procedure

INFOID:0000000001729817

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Check “Self Diagnostic Result” with CONSULT-III.
3. Erase the DTC.
4. Perform DTC confirmation procedure. Refer to SE-30, "DTC Logic".

Is the DTC displayed again?

YES >> GO TO 2.
NO >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".

2.REPLACE DRIVER SEAT CONTROL UNIT

Replace driver seat control unit. Refer to SE-164, "Removal and Installation".

>> INSPECTION END

POWER SUPPLY AND GROUND CIRCUIT

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

AUTOMATIC DRIVE POSITIONER CONTROL UNIT : Diagnosis Procedure

INFOID:0000000001694221

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

1.CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Check voltage between automatic drive positioner control unit harness connector and ground.

Terminals			Voltage (V) (Approx.)
(+)		(–)	
Automatic drive positioner control unit connector	Terminal		
M52	34	Ground	Battery voltage
	39		

Is the inspection result normal?

YES >> GO TO 2.
NO >> Check the following.
- Repair or replace harness between driver seat control unit and fuse block (J/B).
- Circuit breaker

2.CHECK GROUND CIRCUIT

Check continuity between the automatic drive positioner control unit harness connector and ground.

Automatic drive positioner control unit connector	Terminal	Ground	Continuity
M52	40		Existed
	48		

Is the inspection result normal?

YES >> Automatic drive positioner control unit power supply and ground circuit are OK.
NO >> Repair or replace harness between automatic drive positioner control unit and ground.

AUTOMATIC DRIVE POSITIONER CONTROL UNIT : Special Repair Requirement

INFOID:0000000001694222

1.PERFORM ADDITIONAL SERVICE

Perform additional service when removing battery negative terminal.

>> Refer to SE-7, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Description".

DRIVER SEAT CONTROL UNIT

DRIVER SEAT CONTROL UNIT : Diagnosis Procedure

INFOID:0000000001694217

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

1.CHECK POWER SUPPLY CIRCUIT

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

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

Is the inspection result normal?

YES >> GO TO 2.
NO >> Check the following.
- Repair or replace harness between driver seat control unit and fuse block (J/B).
- Circuit breaker

2.CHECK GROUND CIRCUIT

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

Driver seat control unit connector	Terminal	Ground	Continuity
B503	32		Existed
B504	48		

Is the inspection result normal?

YES >> Driver seat control unit power supply and ground circuit are OK.
NO >> Repair or replace harness between driver seat control unit and ground.

DRIVER SEAT CONTROL UNIT : Special Repair Requirement

INFOID:0000000001694218

1.PERFORM ADDITIONAL SERVICE

Perform additional service when removing battery negative terminal.

>> Refer to SE-7, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Description".

PASSENGER SEAT CONTROL UNIT

PASSENGER SEAT CONTROL UNIT : Diagnosis Procedure

INFOID:0000000001694219

NOTE:
Do not disconnect the battery negative terminal and the passenger seat control unit connector until DTC is confirmed with CONSULT-III.

1.CHECK POWER SUPPLY CIRCUIT

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

Terminals			Voltage (V) (Approx.)
(+)		(–)	
Passenger seat control unit connector	Terminal		
B553	33	Ground	Battery voltage
	40		

Is the inspection result normal?

YES >> GO TO 2.
NO >> Check the following.
- Repair or replace harness between passenger seat control unit and fuse block (J/B).
- Repair or replace harness between passenger seat control unit and BCM.

2.CHECK GROUND CIRCUIT

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

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

Is the inspection result normal?

YES >> Passenger seat control unit power supply and ground circuit are OK.
NO >> Repair or replace harness between driver seat control unit and ground.

PASSENGER SEAT CONTROL UNIT : Special Repair Requirement

INFOID:0000000001694220

1.PERFORM ADDITIONAL SERVICE

Perform additional service when removing battery negative terminal.

>> Refer to SE-7, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Description".

POWER SEAT SWITCH
DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000001694093

With a built-in reclining switch, sliding switch and lifting switch, power seat switch controls the power supplied to each motor.

DRIVER SIDE : Component Function Check

INFOID:0000000001694094

1.CHECK POWER SEAT SWITCH FUNCTION

Check power seat operation with power seat switch.

Is the inspection results normal?

YES >> Power seat switch is OK.
NO >> Refer to SE-34, "DRIVER SIDE : Diagnosis Procedure"..

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000001694095

1.CHECK CIRCUIT BREAKER AND FUSIBLE LINK

Check that following circuit breaker and fusible link.

Terminal No.	Signal name	Item
33	Battery power supply	Circuit breaker
		Fusible link K

Is the inspection result normal?

YES >> GO TO 2.
NO >> Replace circuit breaker or fusible link after repairing affected circuit.

2.CHECK POWER SUPPLY

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

Power seat switch		Ground	Voltage (V) (Approx.)
Connector	Terminal		
B511	33	Ground	Battery voltage

Is the inspection result normal?

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

3.CHECK GROUND CIRCUIT

Check continuity between power seat switch and ground.

Power seat switch		Ground	Continuity
Connector	Terminal		
B511	48	Ground	Existed

Is the inspection result normal?

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

4.CHECK POWER SEAT SWITCH

Check power seat switch function.
Refer to SE-35, "DRIVER SIDE : Component Inspection".

Is the inspection result normal?

YES >> Power seat switch is OK.
NO >> Replace power seat switch.

DRIVER SIDE : Component Inspection

INFOID:0000000001694096

1.CHECK POWER SEAT SWITCH

1. Turn ignition switch OFF.
2. Remove power seat switch.
3. Detect the malfunctioning switch.

Which switch is malfunctioning?

RECLINING SWITCH>>GO TO 2.
SLIDING SWITCH>>GO TO 3.
LIFTING SWITCH (FRONT)>>GO TO 4.
LIFTING SWITCH (REAR)>>GO TO 5.

2.CHECK RECLINING SWITCH

Check continuity between power seat switch terminals.

Terminal		Switch condition	Continuity
27	33	Forward	Existed
		Neutral	Not existed
		Backward	Not existed
12		Forward	Not existed
		Neutral	Not existed
		Backward	Existed
27	48	Forward	Not existed
		Neutral	Not existed
		Backward	Existed
12		Forward	Existed
		Neutral	Not existed
		Backward	Not existed

Is the inspection result normal?

YES >> Power seat switch (reclining switch) is OK.
NO >> Replace power seat switch. Refer to SE-167, "Removal and Installation".

3.CHECK SLIDING SWITCH

Check continuity between power seat switch terminals.

Terminal		Switch condition	Continuity
22	33	Forward	Existed
		Neutral	Not existed
		Backward	Not existed
23		Forward	Not existed
		Neutral	Not existed
		Backward	Existed

Is the inspection result normal?

YES >> Power seat switch (sliding switch) is OK.
NO >> Replace power seat switch. Refer to SE-167, "Removal and Installation".

4.CHECK LIFTING SWITCH (FRONT)

Check continuity between power seat switch terminals.

Terminal		Switch condition	Continuity
28	33	Up	Existed
		Neutral	Not existed
		Down	Not existed
13		Up	Not existed
		Neutral	Not existed
		Down	Existed
28	48	Up	Not existed
		Neutral	Not existed
		Down	Existed
13		Up	Existed
		Neutral	Not existed
		Down	Not existed

Is the inspection result normal?

YES >> Power seat switch (front lifting switch) is OK.
NO >> Replace power seat switch. Refer to SE-167, "Removal and Installation".

5. CHECK LIFTING SWITCH (REAR)

Check continuity between power seat switch terminals.

Terminal		Switch condition	Continuity
29	33	Up	Existed
		Neutral	Not existed
		Down	Not existed
14		Up	Not existed
		Neutral	Not existed
		Down	Existed
29	48	Up	Not existed
		Neutral	Not existed
		Down	Existed
14		Up	Existed
		Neutral	Not existed
		Down	Not existed

Is the inspection result normal?

YES >> Power seat switch (rear lifting switch) is OK.
NO >> Replace power seat switch. Refer to SE-167, "Removal and Installation".

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000001772477

With a built-in reclining switch, sliding switch and lifting switch, power seat switch controls the power supplied to each motor.

PASSENGER SIDE : Component Function Check

INFOID:0000000001772478

1. CHECK POWER SEAT SWITCH FUNCTION

Check power seat operation with power seat switch.

Is the inspection results normal?

YES >> Power seat switch is OK.

NO >> Refer to SE-37, "PASSENGER SIDE : Diagnosis Procedure"..

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000001772792

1.CHECK POWER SUPPLY

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

Power seat switch		Ground	Voltage (V) (Approx.)
Connector	Terminal		
B554	33	Ground	Battery voltage

Is the inspection result normal?

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

2.CHECK POWER SUPPLY CIRCUIT

1. Disconnect BCM connector.
2. Check continuity between power seat switch harness connector and BCM harness connector.

Power seat switch		BCM		Continuity
Connector	Terminal	Connector	Terminal	
B554	33	M118	2	Existed

3. Check continuity between power seat switch harness connector and ground.

Power seat switch		Ground	Continuity
Connector	Terminal		
B554	33	Ground	Not existed

Is the inspection result normal?

YES >> Replace BCM.
NO >> Repair or replace harness.

3.CHECK GROUND

Check continuity between power seat switch and ground.

Power seat switch		Ground	Continuity
Connector	Terminal		
B554	48	Ground	Existed

Is the inspection result normal?

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

4.CHECK GROUND CIRCUIT

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

Power seat switch		Ground	Continuity
Connector	Terminal		
B554	48	Ground	Existed

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> Repair or replace harness.

5.CHECK POWER SEAT SWITCH

Check power seat switch function.
Refer to SE-38, "PASSENGER SIDE : Component Inspection".

Is the inspection result normal?

YES >> Power seat switch is OK.
NO >> Replace power seat switch.

PASSENGER SIDE : Component Inspection

INFOID:0000000001904496

1. CHECK POWER SEAT SWITCH

1. Turn ignition switch OFF.
2. Remove power seat switch.
3. Detect the malfunctioning switch.

Which switch is malfunctioning?

RECLINING SWITCH>>GO TO 2.
SLIDING SWITCH>>GO TO 3.
LIFTING SWITCH (FRONT)>>GO TO 4.
LIFTING SWITCH (REAR)>>GO TO 5.

2. CHECK RECLINING SWITCH

Check continuity between power seat switch terminals.

Terminal		Switch condition	Continuity
27	33	Forward	Existed
		Neutral	Not existed
		Backward	Not existed
12		Forward	Not existed
		Neutral	Not existed
		Backward	Existed
27	48	Forward	Not existed
		Neutral	Not existed
		Backward	Existed
12		Forward	Existed
		Neutral	Not existed
		Backward	Not existed

Is the inspection result normal?

YES >> Power seat switch (reclining switch) is OK.
NO >> Replace power seat switch. Refer to SE-167, "Removal and Installation".

3. CHECK SLIDING SWITCH

Check continuity between power seat switch terminals.

Terminal		Switch condition	Continuity
22	33	Forward	Existed
		Neutral	Not existed
		Backward	Not existed
23		Forward	Not existed
		Neutral	Not existed
		Backward	Existed

Is the inspection result normal?

YES >> Power seat switch (sliding switch) is OK.
NO >> Replace power seat switch. Refer to SE-167, "Removal and Installation".

4. CHECK LIFTING SWITCH (FRONT)

Check continuity between power seat switch terminals.

Terminal		Switch condition	Continuity
28	33	Up	Existed
		Neutral	Not existed
		Down	Not existed
13		Up	Not existed
		Neutral	Not existed
		Down	Existed
28	48	Up	Not existed
		Neutral	Not existed
		Down	Existed
13		Up	Existed
		Neutral	Not existed
		Down	Not existed

Is the inspection result normal?

YES >> Power seat switch (front lifting switch) is OK.
NO >> Replace power seat switch. Refer to SE-167, "Removal and Installation".

5. CHECK LIFTING SWITCH (REAR)

Check continuity between power seat switch terminals.

Terminal		Switch condition	Continuity
29	33	Up	Existed
		Neutral	Not existed
		Down	Not existed
14		Up	Not existed
		Neutral	Not existed
		Down	Existed
29	48	Up	Not existed
		Neutral	Not existed
		Down	Existed
14		Up	Existed
		Neutral	Not existed
		Down	Not existed

Is the inspection result normal?

YES >> Power seat switch (rear lifting switch) is OK.
NO >> Replace power seat switch. Refer to SE-167, "Removal and Installation".

SLIDING SWITCH
SEATBACK
SEATBACK : Description

INFOID:0000000001848726

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

SEATBACK : Component Function Check

INFOID:0000000001848727

1.CHECK SLIDING SWITCH (SEAT BACK) FUNCTION

Check seat sliding operation with sliding switch (seat back).

Is the inspection results normal?

YES >> Power seat switch is OK.
NO >> Refer to SE-40, "SEATBACK : Diagnosis Procedure".

SEATBACK : Diagnosis Procedure

INFOID:0000000001848763

1.CHECK SLIDING SWITCH (SEAT BACK) SIGNAL

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

Passenger seat control unit connector	Terminals		Condition		Voltage (V) (Approx.)
	(+)	(–)			
B552	11	Ground	Sliding switch (seat back)	Operate (backward)	0
				Release	Battery voltage
	26			Operate (forward)	0
				Release	Battery voltage

Is the inspection result normal?

YES >> GO TO 6.
NO >> GO TO 2.

2.CHECK SLIDING SWITCH (SEAT BACK) CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect passenger seat control unit connector and sliding switch (seat back) connector.
3. Check continuity between passenger seat control unit harness connector and sliding switch (seat back) harness connector.

Passenger seat control unit connector	Terminal	Sliding switch (seat back) connector	Terminal	Continuity
B552	11	B561	11	Existed
	26		26	

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

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

Is the inspection result normal?

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

3.CHECK PASSENGER SEAT CONTROL UNIT OUTPUT

1. Connect passenger seat control unit connector.

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

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

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace passenger seat control unit.

4. CHECK SLIDING SWITCH (SEAT BACK) GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Check continuity between sliding switch (seat back) harness connector and ground.

Sliding switch (seat back) connector	Terminal	Ground	Continuity
B561	32	Ground	Existed

Is the inspection result normal?

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

5. CHECK SLIDING SWITCH (SEAT BACK)

Refer to SE-41, "SEATBACK : Component Inspection".

Is the inspection result normal?

YES >> GO TO 6.
NO >> Replace power seat switch.

6. CHECK INTERMITTENT INCIDENT

Refer to GI-38, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace passenger seat control unit.
NO >> Repair or replace malfunctioning part.

SEATBACK : Component Inspection

INFOID:0000000001848764

1. CHECK SLIDING SWITCH

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

Terminal		Condition		Continuity
Sliding switch (seat back)				
32	11	Sliding switch	Operate (backward)	Existed
			Release	Not existed
	26	Sliding switch	Operate (forward)	Existed
			Release	Not existed

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace sliding switch (seat back).

FORWARD SWITCH
DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000001751582

Forward switch is installed on seat back frame. Forward switch detects condition of seat back.

DRIVER SIDE : Component Function Check

INFOID:0000000001751583

1.CHECK FUNCTION

1. Select “FORWARD SW” in “Data Monitor” mode with CONSULT-III.
2. Check the forward switch signal under the following condition.

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

Is the indication normal?

YES >> INSPECTION END
NO >> Refer to SE-42, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000001751584

1.CHECK FORWARD SWITCH SIGNAL

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

Driver seat control unit		Ground	Condition	Voltage (V) (Approx.)
Connector	Terminal			
B504	41	Ground	Seat back is folded down and power walk-in switch is pressed.	0
			Seat back is folded up and power walk-in switch is pressed.	5
			Seat back is folded up and seat reclining switch is operated.	Battery voltage

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> GO TO 2.

2.CHECK FORWARD SWITCH CIRCUIT

1. Disconnect driver seat control unit connector and forward switch 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	Ground	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		
B512	32	Ground	Existed

Is the inspection result normal?

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

4. CHECK DRIVER SEAT CONTROL UNIT OUTPUT

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

Driver seat control unit		Ground	Voltage (V) (Approx.)
Connector	Terminal		
B504	41	Ground	5

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace driver seat control unit. Refer to SE-164, "Removal and Installation".

5. CHECK FORWARD SWITCH

Refer to SE-43, "DRIVER SIDE : Component Inspection".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> Replace forward switch. (Built in seat back frame.)

DRIVER SIDE : Component Inspection

INFOID:0000000001751585

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 seat back	Folded up	Not existed
			Folded down	Existed

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace forward switch. (Built in seat back frame.)

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000001831165

Forward switch is installed on seat back frame. Forward switch detects condition of seat back.

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000001770917

1. CHECK FORWARD SWITCH SIGNAL

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

Passenger seat control unit		Ground	Condition	Voltage (V) (Approx.)
Connector	Terminal			
B553	41	Ground	Seat back is folded down and power walk-in switch is pressed.	0
			Seat back is folded up and power walk-in switch is pressed.	5
			Seat back is folded up and seat reclining switch is operated.	Battery voltage

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
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	Ground	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	Ground	Existed

Is the inspection result normal?

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

4.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.

Passenger seat control unit		Ground	Voltage (V) (Approx.)
Connector	Terminal		
B553	41	Ground	5

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace passenger seat control unit. Refer to SE-165, "Removal and Installation".

5.CHECK FORWARD SWITCH

Refer to SE-45, "PASSENGER SIDE : Component Inspection".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> Replace forward switch. (Built in seat back frame.)

PASSENGER SIDE : Component Inspection

INFOID:0000000001770918

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	Passenger side seat back	Folded up	Not existed
			Folded down	Existed

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace forward switch. (Built in seat back frame.)

SEAT BELT BUCKLE SWITCH
DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000001766494

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:0000000001766495

1.CHECK FUNCTION

1. Select “SEAT BELT SW” in “Data Monitor” mode with CONSULT-III.
2. 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 >> INSPECTION END
NO >> Refer to SE-46, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000001766496

1.CHECK SEAT BELT BUCKLE SWITCH SIGNAL

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

Driver seat control unit		Ground	Condition	Voltage (V) (Approx.)
Connector	Terminal			
B503	5	Ground	Passenger side seat belt is fastened, and power walk-in switch is pressed.	5
			Released	0

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> GO TO 2.

2.CHECK SEAT BELT BUCKLE SWITCH CIRCUIT

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

Driver seat control unit		Seat belt buckle switch		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	Ground	Not existed

Is the inspection result normal?

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

3.CHECK SEAT BELT BUCKLE SWITCH GROUND CIRCUIT

Check continuity between seat belt buckle switch harness connector and ground.

Seat belt buckle switch		Ground	Continuity
Connector	Terminal		
B13	2	Ground	Existed

Is the inspection result normal?

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

4.CHECK DRIVER SEAT CONTROL UNIT OUTPUT

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

Driver seat control unit		Ground	Voltage (V) (Approx.)
Connector	Terminal		
B503	5	Ground	5

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace driver seat control unit. Refer to SE-164, "Removal and Installation".

5.CHECK SEAT BELT BUCKLE SWITCH

Refer to SE-47, "DRIVER SIDE : Component Inspection".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> Replace seat belt buckle switch. (Built in seat belt buckle.)

DRIVER SIDE : Component Inspection

INFOID:0000000001766497

1.CHECK SEAT BELT BUCKLE SWITCH

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

Seat belt buckle switch		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. (Built in seat belt buckle.)

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000001831182

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

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000001770921

1.CHECK SEAT BELT BUCKLE SWITCH SIGNAL

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

Passenger seat control unit		Ground	Condition	Voltage (V) (Approx.)
Connector	Terminal			
B552	5	Ground	Passenger side seat belt is fastened, and power walk-in switch is pressed.	5
			Released	0

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> GO TO 2.

2.CHECK SEAT BELT BUCKLE SWITCH CIRCUIT

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

Passenger seat control unit		Seat belt buckle switch		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	Ground	Not existed

Is the inspection result normal?

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

3.CHECK SEAT BELT BUCKLE SWITCH GROUND CIRCUIT

Check continuity between seat belt buckle switch harness connector and ground.

Seat belt buckle switch		Ground	Continuity
Connector	Terminal		
B213	2	Ground	Existed

Is the inspection result normal?

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

4.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.

Passenger seat control unit		Ground	Voltage (V) (Approx.)
Connector	Terminal		
B552	5	Ground	5

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace passenger seat control unit. Refer to SE-165, "Removal and Installation".

5.CHECK SEAT BELT BUCKLE SWITCH

Refer to SE-49, "PASSENGER SIDE : Component Inspection".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> Replace seat belt buckle switch. (Built in seat belt buckle.)

PASSENGER SIDE : Component Inspection

INFOID:0000000001770922

1. CHECK SEAT BELT BUCKLE SWITCH

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

Seat belt buckle switch		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. (Built in seat belt buckle.)

SLIDING LIMIT SWITCH
DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000001766506

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

DRIVER SIDE : Component Function Check

INFOID:0000000001766507

1.CHECK FUNCTION

1. Select “FWD LIMIT SW” in “Data Monitor” mode with CONSULT-III.
2. 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 >> INSPECTION END
NO >> Go to SE-50, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000001766508

1.CHECK SLIDING LIMIT SWITCH SIGNAL

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

Driver seat control unit		Ground	Condition	Voltage (V) (Approx.)
Connector	Terminal			
B503	4	Ground	Sliding position is front edge and power walk in switch is pressed.	5
			Other than above	0

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident"
NO >> GO TO 2.

2.CHECK SLIDING LIMIT SWITCH CIRCUIT

1. Disconnect driver seat control unit connector and sliding limit switch 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	Ground	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		
B514	32	Ground	Existed

Is the inspection result normal?

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

4.CHECK DRIVER SEAT CONTROL UNIT OUTPUT

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

Driver seat control unit		Ground	Voltage (V) (Approx.)
Connector	Terminal		
B503	4	Ground	5

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace driver seat control unit. Refer to SE-164, "Removal and Installation".

5.CHECK SLIDING LIMIT SWITCH

Refer to SE-51, "DRIVER SIDE : Component Inspection".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident"
NO >> Replace sliding limit switch. (Built in seat cushion frame.)

DRIVER SIDE : Component Inspection

INFOID:0000000001766509

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. (Built in seat cushion frame.)

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000001831219

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

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000001770943

1.CHECK SLIDING LIMIT SWITCH SIGNAL

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

Passenger seat control unit		Ground	Condition	Voltage (V) (Approx.)
Connector	Terminal			
B552	4	Ground	Sliding position is front edge and power walk in switch is pressed.	5
			Other than above	0

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident"
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	Ground	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	Ground	Existed

Is the inspection result normal?

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

4.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.

Passenger seat control unit		Ground	Voltage (V) (Approx.)
Connector	Terminal		
B552	4	Ground	5

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace passenger seat control unit. Refer to SE-165, "Removal and Installation".

5.CHECK SLIDING LIMIT SWITCH

Refer to SE-53, "PASSENGER SIDE : Component Inspection".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident"
NO >> Replace sliding limit switch. (Built in seat cushion frame.)

PASSENGER SIDE : Component Inspection

INFOID:0000000001831220

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. (Built in seat cushion frame.)

POWER WALK-IN SWITCH
DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000001766498

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

DRIVER SIDE : Component Function Check

INFOID:0000000001766499

1.CHECK FUNCTION

1. Select “WALK-IN SW” in “Data Monitor” mode with CONSULT-III.
2. 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 >> INSPECTION END
NO >> Go to SE-54, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000001766500

1.CHECK POWER WALK-IN SWITCH SIGNAL

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

Driver seat control unit		Ground	Condition		Voltage (V) (Approx.)
Connector	Terminal				
B503	30	Ground	Power walk-in switch	Pressed	0
				Released	Battery voltage

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> GO TO 2.

2.CHECK POWER WALK-IN SWITCH CIRCUIT

1. Disconnect driver seat control unit connector and power walk-in switch 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	Ground	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		
B513	32	Ground	Existed

Is the inspection result normal?

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

4.CHECK DRIVER SEAT CONTROL UNIT OUTPUT

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

Driver seat control unit		Ground	Voltage (V) (Approx.)
Connector	Terminal		
B503	30	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace driver seat control unit. Refer to SE-164, "Removal and Installation".

5.CHECK POWER WALK-IN SWITCH

Refer to SE-55, "DRIVER SIDE : Component Inspection".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> Replace power walk-in switch.

DRIVER SIDE : Component Inspection

INFOID:0000000001766501

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	Not existed
			Released	Existed

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace power walk-in switch.

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000001771124

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

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000001771126

1.CHECK POWER WALK-IN SWITCH SIGNAL

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

Passenger seat control unit		Ground	Condition		Voltage (V) (Approx.)
Connector	Terminal				
B552	30	Ground	Power walk-in switch	Pressed	0
				Released	Battery voltage

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
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	Ground	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	Ground	Existed

Is the inspection result normal?

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

4.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.

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

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace passenger seat control unit. Refer to SE-165, "Removal and Installation".

5.CHECK POWER WALK-IN SWITCH

Refer to SE-57, "PASSENGER SIDE : Component Inspection".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> Replace power walk-in switch.

PASSENGER SIDE : Component Inspection

INFOID:0000000001831345

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	Not existed
			Released	Existed

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace power walk-in switch.

DOOR SWITCH
DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000001879548

Detects front door (driver side) open/close condition.

DRIVER SIDE : Component Function Check

INFOID:0000000001879549

1.CHECK FUNCTION

1. Select “DOOR SW-DR” in “Data Monitor” mode with CONSULT-III.
2. Check the driver side door switch signal under the following conditions.

Monitor item	Condition		Status
DOOR SW-DR	Driver side door	Open	ON
		Close	OFF

Is the inspection result normal?

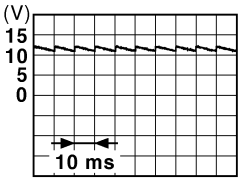
YES >> INSPECTION END
NO >> Perform diagnosis procedure. Refer to SE-58, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000001879550

1.CHECK DRIVER SIDE DOOR SWITCH SIGNAL

1. Turn ignition switch OFF.
2. Check signal between BCM connector and ground with oscilloscope.

Terminals			Condition		Voltage (V) (Approx.)
(+)		(–)			
BCM connector	Terminal				
M123	150	Ground	Driver side door	Open	0
				Close	

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Is the inspection result normal?

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

2.CHECK DRIVER SIDE DOOR SWITCH CIRCUIT

1. Disconnect BCM connector and driver side door switch connector.
2. Check continuity between BCM connector and driver side door switch connector.

BCM connector	Terminal	Door switch connector	Terminal	Continuity
M123	150	B16	2	Existed

3. Check continuity between BCM connector and ground.

BCM connector	Terminal	Ground	Continuity
M123	150		Not existed

Is the inspection result normal?

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

3. CHECK DRIVER SIDE DOOR SWITCH

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

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace driver side door switch.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-38, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace BCM.
NO >> Repair or replace the malfunctioning part.

DRIVER SIDE : Component Inspection

INFOID:0000000001879551

1. CHECK DRIVER SIDE DOOR SWITCH

1. Turn ignition switch OFF.
2. Disconnect driver side door switch connector.
3. Check continuity between driver side door switch terminals.

Terminal		Condition		Continuity
Driver side door switch				
2	Ground part of door switch	Driver side door switch	Pressed	Not existed
			Released	Existed

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace driver side door switch.

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000001879556

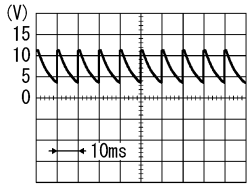
Detects front door (passenger side) open/close condition.

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000001879558

1. CHECK PASSENGER SIDE DOOR SWITCH SIGNAL

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

Terminals			Condition		Voltage (V) (Approx.)
(+)		(–)			
Passenger seat control unit connector	Terminal				
B552	8	Ground	Front door (passenger side)	Open	0
				Close	

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Is the inspection result normal?

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

2.CHECK PASSENGER SIDE DOOR SWITCH CIRCUIT

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

Passenger seat control unit connector	Terminal	Door switch connector	Terminal	Continuity
B552	8	B216 (Passenger side)	2	Existed

3. Check continuity between BCM connector and ground.

Passenger seat control unit connector	Terminal	Ground	Continuity
B552	8		Not existed

Is the inspection result normal?

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

3.CHECK PASSENGER SIDE DOOR SWITCH

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

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace passenger side door switch.

4.CHECK INTERMITTENT INCIDENT

Refer to GI-38, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace passenger seat control unit.
NO >> Repair or replace the malfunctioning part.

PASSENGER SIDE : Component Inspection

INFOID:0000000001879559

1.CHECK PASSENGER SIDE DOOR SWITCH

1. Turn ignition switch OFF.
2. Disconnect passenger side door switch connector.
3. Check continuity between passenger side door switch terminals.

Terminal		Condition		Continuity
Passenger side door switch				
2	Ground part of door switch	Front door switch (passenger side)	Pressed	Not existed
			Released	Existed

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace passenger side door switch.

TILT&TELESCOPIC SWITCH

Description

INFOID:0000000001694101

Tilt and telescopic switch as a unit, transmit switch operation signal to automatic drive positioner control unit.

Component Function Check

INFOID:0000000001694102

1.CHECK TILT AND TELESCOPIC SWITCH FUNCTION

Check tilt and telescopic operation with tilt and telescopic switch.

Is the inspection results normal?

YES >> Tilt and telescopic switch is OK.
NO >> Refer to SE-61, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000001694103

1.CHECK TILT AND TELESCOPIC SWITCH FUNCTION

Check voltage between tilt and telescopic switch and ground.

Tilt and telescopic switch		Ground	Switch condition	Voltage (V) (Approx.)
Connector	Terminal			
M31	2	Ground	Forward position	0
			Other than above	5
	3		Backward position	0
			Other than above	5
	4		Upward position	0
			Other than above	5
	5		Downward	0
			Other than above	5

Is the inspection result normal?

YES >> Tilt and telescopic switch is OK.
NO >> GO TO 2.

2.CHECK TILT AND TELESCOPIC SWITCH SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect tilt and telescopic switch connector, and automatic drive positioner control unit connector.
3. Check continuity between tilt and telescopic switch harness connector and automatic drive positioner control unit harness.

Tilt and telescopic switch connector	Terminal	Automatic drive positioner control unit	Terminal	Continuity
M31	2	M51	11	Existed
	3		27	
	4		1	
	5		17	

4. Check continuity between tilt and telescopic switch harness connector and ground.

Tilt and telescopic switch connector	Terminal		Continuity
M31	2	Ground	Not existed
	3		
	4		
	5		

Is the inspection result normal?

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

3.CHECK TILT AND TELESCOPIC SWITCH GROUND CIRCUIT

Check continuity between tilt and telescopic switch harness connector and ground.

Tilt and telescopic switch connector	Terminal	Ground	Continuity
M31	1		Existed

Is the inspection result normal?

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

4.CHECK TILT AND TELESCOPIC SWITCH

Check tilt and telescopic switch.
Refer to SE-62, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace tilt and telescopic switch.

5.CHECK AUTOMATIC DRIVE POSITIONER CONTROL UNIT

1. Connect automatic drive positioner control unit connector.
2. Check voltage between automatic drive positioner control unit harness connector and ground.

Tilt and telescopic switch		Ground	Voltage (V) (Approx.)
Connector	Terminal		
M51	1	Ground	5
	11		5
	17		5
	27		5

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> Replace automatic drive positioner control unit. Refer to SE-166, "Removal and Installation".

Component Inspection

INFOID:0000000001694104

1.CHECK TILT AND TELESCOPIC SWITCH

1. Turn ignition switch OFF.
2. Remove tilt and telescopic switch.
3. Check continuity between tilt and telescopic switch terminals.

Terminal		Switch condition	Continuity
2	1	Forward	Existed
		Other than above	Not existed
3		Backward	Existed
		Other than above	Not existed
4		Upward	Existed
		Other than above	Not existed
5		Downward	Existed
		Other than above	Not existed

Is the inspection result normal?

YES >> Tilt and telescopic switch is OK.
NO >> Replace tilt and telescopic switch. Refer to SE-171, "Removal and Installation".

SLIDING SENSOR
DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000001877723

- 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:0000000001877724

1.CHECK FUNCTION

1. Select “SLIDE PULSE” in “Data Monitor” mode with CONSULT-III.
2. Check sliding sensor signal under the following conditions.

Monitor item	Condition		Valve
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?

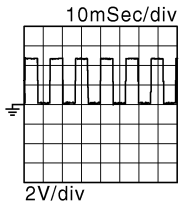
YES >> INSPECTION END
NO >> Perform daiagnosis procedure. Refer to SE-64, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000001877725

1.CHECK SLIDING SENSOR SIGNAL

1. Turn ignition switch ON.
2. Read voltage signal between driver seat control unit harness connector and ground with oscilloscope.

Terminals			Condition		Voltage signal
(+)		(–)			
Driver seat control unit connector	Terminal				
B503	24	Ground	Seat sliding	Operate	 JMJIA0119ZZ
				Other than above	0 or 5

Is the inspection result normal?

YES >> GO TO 6.
NO >> GO TO 2.

2.CHECK SLIDING SENSOR CIRCUIT

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

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

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

Driver seat control unit connector	Terminal	Ground	Continuity
B503	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 driver seat control unit connector.
2. Turn ignition switch ON.
3. Check voltage between sliding sensor harness connector and ground.

Terminals			Voltage (V) (Approx.)
(+)		(–)	
Sliding sensor connector	Terminal		
B526	16	Ground	5

Is the inspection result normal?

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

4.CHECK SLIDING SENSOR POWER SUPPLY CIRCUIT

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

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

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

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

Is the inspection result normal?

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

5.CHECK SLIDING SENSOR GROUND

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

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

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

6.CHECK INTERMITTENT INCIDENT

Refer to GI-38, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to SE-164, "Removal and Installation".
NO >> Repair or replace the malfunctioning part.

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000001879586

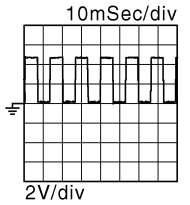
- The sliding sensor is installed on the seat slide cushion frame.
- The pulse signal is transmitted to the passenger seat control unit when sliding is operated.
- The passenger seat control unit counts the pulse and calculates the sliding amount of the seat.

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000001879588

1.CHECK SLIDING SENSOR SIGNAL

1. Turn ignition switch ON.
2. Read voltage signal between passenger seat control unit harness connector and ground with oscilloscope.

Terminals			Condition		Voltage signal
(+)		(–)			
Passenger seat control unit connector	Terminal				
B552	24	Ground	Seat sliding	Operate	 JMJIA0119ZZ
				Other than above	0 or 5

Is the inspection result normal?

YES >> GO TO 6.
NO >> GO TO 2.

2.CHECK SLIDING SENSOR CIRCUIT

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

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

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

Passenger seat control unit connector	Terminal	Ground	Continuity
B552	24		Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3. CHECK SLIDING SENSOR POWER SUPPLY

1. Connect passenger seat control unit connector.
2. Turn ignition switch ON.
3. Check voltage between sliding sensor harness connector and ground.

Terminals			Voltage (V) (Approx.)
(+)		(–)	
Sliding sensor connector	Terminal		
B568	16	Ground	5

Is the inspection result normal?

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

4. CHECK SLIDING SENSOR POWER SUPPLY CIRCUIT

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

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

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

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

Is the inspection result normal?

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

5. CHECK SLIDING SENSOR GROUND

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

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

Is the inspection result normal?

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

6. CHECK INTERMITTENT INCIDENT

Refer to GI-38, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace passenger seat control unit. Refer to SE-165, "Removal and Installation".
NO >> Repair or replace the malfunctioning part.

TILT&TELESCOPIC SENSOR

Description

INFOID:0000000001694131

Tilt and telescopic sensor detects the position of steering wheel and transmits signals to automatic drive positioner control unit.

Component Function Check

INFOID:0000000001694132

1.CHECK TILT AND TELESCOPIC SENSOR FUNCTION

Check tilt and telescopic operation with tilt and telescopic switch.

Is the inspection results normal?

YES >> Tilt and telescopic sensor is OK.
NO >> Refer to SE-68, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000001694133

1.CHECK TILT AND TELESCOPIC SENSOR SIGNAL

1. Turn ignition switch ON.
2. Check voltage between automatic drive positioner control unit harness connector and ground.

Tilt and telescopic sensor		Ground	Condition	Voltage (V) (Approx.)
Connector	Terminal			
M51	7	Ground	Tilt position	Change between 1.2 (close to top) 3.4 (close to bottom)
	23		Telescopic position	Change between 0.8 (close to top) 3.4 (close to bottom)

Is the inspection result normal?

YES >> Tilt and telescopic sensor are OK.
NO >> GO TO 2.

2.CHECK TILT AND TELESCOPIC SENSOR CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect tilt and telescopic sensor connector and automatic drive positioner control unit connector.
3. Check continuity between tilt and telescopic sensor harness connector and automatic drive positioner control unit harness connector.

Tilt and telescopic sensor connector	Terminal	Automatic drive positioner control unit	Terminal	Continuity
M48	1	M51, M52	33	Existed
	2		23	
	3		7	
	4		41	

4. Check continuity between tilt and telescopic sensor harness connector and ground.

Tilt and telescopic sensor connector	Terminal	Ground	Continuity
M48	1	Ground	Not existed
	2		
	3		
	4		

Is the inspection result normal?

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

3. CHECK TILT AND TELESCOPIC SENSOR POWER SUPPLY

1. Connect automatic drive positioner control unit connector.
2. Check voltage between automatic drive positioner control unit harness connector and ground.

Automatic drive position control unit		Ground	Voltage (V) (Approx.)
Connector	Terminal		
M52	33		5

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace automatic drive positioner control unit. Refer to SE-166, "Removal and Installation".

4. CHECK TILT AND TELESCOPIC SENSOR GROUND

Check continuity between automatic drive positioner control unit harness connector and ground.

Automatic drive position control unit		Ground	Continuity
Connector	Terminal		
M52	41		Existed

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> Replace automatic drive positioner control unit. Refer to SE-166, "Removal and Installation".

SLIDING MOTOR
DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000001694112

With power supplied to power seat switch, sliding motor operates forward and backward slide of seat.

DRIVER SIDE : Component Function Check

INFOID:0000000001907783

1.CHECK FUNCTION

1. Select “SEAT SLIDE” in “Active Test” mode with CONSULT-III.
2. 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 >> INSPECTION END
NO >> Perform diagnosis procedure. Refer to SE-70, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000001907784

1.CHECK SLIDING MOTOR POWER SUPPLY

1. Turn ignition switch OFF.
2. Disconnect sliding motor connector.
3. Turn ignition switch ON.
4. Perform “Active Test” (“SEAT SLIDE”) with CONSULT-lll
5. Check voltage between sliding motor harness connector and ground.

Terminal			Test item		Voltage (V) (Approx.)
(+)		(-)			
Sliding motor connector	Terminal				
B525	35	Ground	SEAT SLIDE	OFF	0
				FR (forward)	Battery voltage
				RR (backward)	0
	42			OFF	0
				FR (forward)	0
				RR (backward)	Battery voltage

Is the inspection result normal?

YES >> Replace sliding motor. (Built in seat slide cushion frame.)
NO >> GO TO 2.

2.CHECK SLIDING MOTOR CIRCUIT

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

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

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

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

Is the inspection result normal?

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

3.CHECK SLIDING MOTOR

Refer to SE-71, "DRIVER SIDE : Component Inspection".

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to SE-164, "Removal and Installation".
NO >> Repair or replace the malfunctioning part.

DRIVER SIDE : Component Inspection

INFOID:0000000001694115

1.CHECK SLIDING MOTOR-1

Check visually the sliding motor to see if any foreign object is not disturbing the functioning or if 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.

Terminal		Operation
(+)	(–)	
35	42	Forward
42	35	Backward

Is the inspection result normal?

YES >> Sliding motor is OK.
NO >> Replace sliding motor. (Built in seat cushion frame.)

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000001826363

With power supplied to power seat switch, sliding motor operates forward and backward slide of seat.

PASSENGER SIDE : Component Function Check

INFOID:0000000001907880

1.CHECK SLIDING MOTOR CIRCUIT

Check sliding operation with power seat switch.

Is the inspection results normal?

YES >> Sliding motor is OK.
NO >> Perform diagnosis procedure. Refer to SE-71, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000001907881

1.CHECK SLIDING MOTOR CIRCUIT

1. Turn ignition switch OFF.

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

passenger seat control unit connector	Terminal	Sliding motor connector	Terminal	Continuity
B553	35	B567	35	Existed
	42		42	

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

passenger seat control unit connector	Terminal	Ground	Continuity
B553	35		Not existed
	42		

Is the inspection result normal?

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

2.CHECK SLIDING MOTOR

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

Is the inspection result normal?

YES >> Replace passenger seat control unit. Refer to SE-165, "Removal and Installation".
NO >> Repair or replace the malfunctioning part.

PASSENGER SIDE : Component Inspection

INFOID:0000000001907882

1.CHECK SLIDING MOTOR-1

Check visually the sliding motor to see if any foreign object is not disturbing the functioning or if 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.

Terminal		Operation
(+)	(–)	
35	42	Forward
42	35	Backward

Is the inspection result normal?

YES >> Sliding motor is OK.
NO >> Replace sliding motor. (Built in seat cushion frame.)

RECLINING MOTOR
DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000001694116

With the power supplied to power seat switch, reclining motor operates the forward and backward movement of seatback.

DRIVER SIDE : Component Function Check

INFOID:0000000001694117

1.CHECK RECLINING MOTOR FUNCTION

Check reclining operation with power seat switch.

Is the inspection results normal?

YES >> Reclining motor is OK.
NO >> Refer to SE-73, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000001694118

1.CHECK RECLINING MOTOR CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect reclining motor connector and reclining relay.
3. Check continuity between reclining motor harness connector and reclining relay harness connector.

Reclining motor connector	Terminal	Reclining relay connector	Terminal	Continuity
B524	15	B518 (backward)	15	Existed
	71	B517 (forward)	71	

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

Reclining motor connector	Terminal	Ground	Continuity
B524	15	Ground	Not existed
	71		

Is the inspection result normal?

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

2.CHECK RECLINING MOTOR

Check reclining motor.
Refer to SE-73, "DRIVER SIDE : Component Inspection".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> Replace reclining motor. (Built in seat reclining frame.)

DRIVER SIDE : Component Inspection

INFOID:0000000001694119

1.CHECK RECLINING MOTOR-1

Check visually reclining motor to see if any foreign object is not disturbing the functioning or if 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.

Terminal		Operation
(+)	(–)	
71	15	Forward
15	71	Backward

Is the inspection result normal?

YES >> Reclining motor is OK.
NO >> Replace reclining motor. (Built in seatback frame.)

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000001826367

With the power supplied to power seat switch, reclining motor operates the forward and backward movement of seatback.

PASSENGER SIDE : Component Function Check

INFOID:0000000001826368

1.CHECK RECLINING MOTOR FUNCTION

Check reclining operation with power seat switch.

Is the inspection results normal?

YES >> Reclining motor is OK.
NO >> Refer to SE-74, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000001826369

1.CHECK RECLINING MOTOR CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect reclining motor connector and reclining relay.
3. Check continuity between reclining motor harness connector and reclining relay harness connector.

Reclining motor connector	Terminal	Reclining relay connector	Terminal	Continuity
B566	15	B563 (backward)	15	Existed
	71	B562 (forward)	71	

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

Reclining motor connector	Terminal	Ground	Continuity
B566	15	Ground	Not existed
	71		

Is the inspection result normal?

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

2.CHECK RECLINING MOTOR

Check reclining motor.
Refer to SE-74, "PASSENGER SIDE : Component Inspection".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> Replace reclining motor. (Built in seat reclining frame.)

PASSENGER SIDE : Component Inspection

INFOID:0000000001826370

1.CHECK RECLINING MOTOR-1

Check visually reclining motor to see if any foreign object is not disturbing the functioning or if 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.

Terminal		Operation
(+)	(–)	
71	15	Forward
15	71	Backward

Is the inspection result normal?

YES >> Reclining motor is OK.
NO >> Replace reclining motor. (Built in seatback frame.)

LIFTING MOTOR
FRONT

FRONT : Description

INFOID:0000000001694120

With the power supplied to power seat switch, lifting motor operates the up and down movement of seat cushion.

FRONT : Component Function Check

INFOID:0000000001694121

1.CHECK LIFTING MOTOR FUNCTION

Check lifting operation with power seat switch.

Is the inspection results normal?

YES >> Lifting motor is OK.
NO >> Refer to SE-76, "FRONT : Diagnosis Procedure".

FRONT : Diagnosis Procedure

INFOID:0000000001694122

1.CHECK LIFTING MOTOR CIRCUIT

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

Driver side

Lifting motor connector	Terminal	Power seat switch connector	Terminal	Continuity
B528	13	B511	13	Existed
	28		28	

Passenger side

Lifting motor connector	Terminal	Power seat switch connector	Terminal	Continuity
B569	13	B554	13	Existed
	28		28	

4. Check continuity between lifting motor harness connector and ground.

Driver side

Lifting motor connector	Terminal	Ground	Continuity
B528	13	Ground	Not existed
	28		

Passenger side

Lifting motor connector	Terminal	Ground	Continuity
B569	13	Ground	Not existed
	28		

Is the inspection result normal?

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

2.CHECK LIFTING MOTOR

Check lifting motor.
Refer to SE-77, "FRONT : Component Inspection".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> Replace lifting motor. (Built in seat cushion frame.)

FRONT : Component Inspection

INFOID:0000000001694123

1.CHECK LIFTING MOTOR-1

Check visually the lifting motor to see if any foreign object is not disturbing the functioning or if the lifting motor 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-2

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

Item	Terminal		Operation
	(+)	(–)	
Lifting motor	28	13	Up
	13	28	Down

Is the inspection result normal?

YES >> Lifting motor is OK.
NO >> Replace lifting motor. (Built in seat cushion frame.)

REAR

REAR : Description

INFOID:0000000001826422

With the power supplied to power seat switch, lifting motor operates the up and down movement of seat cushion.

REAR : Component Function Check

INFOID:0000000001826423

1.CHECK LIFTING MOTOR FUNCTION

Check lifting operation with power seat switch.

Is the inspection results normal?

YES >> Lifting motor is OK.
NO >> Refer to SE-77, "REAR : Diagnosis Procedure".

REAR : Diagnosis Procedure

INFOID:0000000001826424

1.CHECK LIFTING MOTOR CIRCUIT

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

Driver side

Lifting motor connector	Terminal	Power seat switch connector	Terminal	Continuity
B530	14	B511	14	Existed
	29		29	

Passenger side

Lifting motor connector	Terminal	Power seat switch connector	Terminal	Continuity
B570	14	B554	14	Existed
	29		29	

4. Check continuity between lifting motor harness connector and ground.

Driver side

Lifting motor connector	Terminal	Ground	Continuity
B530	14	Ground	Not existed
	29		

Passenger side

Lifting motor connector	Terminal	Ground	Continuity
B570	14	Ground	Not existed
	29		

Is the inspection result normal?

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

2.CHECK LIFTING MOTOR

Check lifting motor.
Refer to SE-78, "REAR : Component Inspection".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> Replace lifting motor. (Built in seat cushion frame.)

REAR : Component Inspection

INFOID:0000000001826425

1.CHECK LIFTING MOTOR-1

Check visually the lifting motor to see if any foreign object is not disturbing the functioning or if the lifting motor 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-2

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

Item	Terminal		Operation
	(+)	(–)	
Lifting motor	29	14	Up
	14	29	Down

Is the inspection result normal?

YES >> Lifting motor is OK.
NO >> Replace lifting motor. (Built in seat cushion frame.)

TILT&TELESCOPIC MOTOR

Description

INFOID:0000000001694124

Tilt and telescopic motor operates with the power received from automatic drive positioner control unit.

Component Function Check

INFOID:0000000001694125

1.CHECK TILT AND TELESCOPIC MOTOR FUNCTION

Check tilt and telescopic operation with tilt and telescopic switch.

Is the inspection results normal?

YES >> Tilt and telescopic motor are OK.
NO >> Refer to SE-79, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000001694126

1.CHECK MALFUNCTIONING PART

Check malfunctioning part.

Is it tilt operation or telescopic operation?

Tilt >> GO TO 2.
Telescopic>>GO TO 3.

2.CHECK TILT MOTOR CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect tilt and telescopic motor connector and automatic drive positioner control unit connector.
3. Check continuity between tilt motor harness connector and automatic drive positioner control unit harness connector.

Tilt and telescopic motor connector	Terminal	Power seat switch connector	Terminal	Continuity
M49	3	M52	42	Existed
	4		35	

Is the inspection result normal?

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

3.CHECK TELESCOPIC MOTOR CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect tilt and telescopic motor connector and automatic drive positioner control unit connector.
3. Check continuity between telescopic motor harness connector and automatic drive positioner control unit harness connector.

Tilt and telescopic motor connector	Terminal	Power seat switch connector	Terminal	Continuity
M49	1	M52	44	Existed
	2		36	

Is the inspection result normal?

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

4.CHECK ADP CONTROL UNIT

1. Connect automatic drive positioner control unit connector.
2. Check voltage between automatic drive positioner control unit harness connector and ground.

Automatic drive positioner control unit			Tilt and telescopic switch condition	Voltage (V) (Approx.)
Connector	Terminal			
M52	35	Ground	Upward	Battery voltage
			Other than above	0
	36		Forward	Battery voltage
			Other than above	0
	42		Downward	Battery voltage
			Other than above	0
	44		Backward	Battery voltage
			Other than above	0

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> Replace automatic drive positioner control unit. Refer to SE-166, "Removal and Installation".

SLIDING RELAY
FORWARD

FORWARD : Diagnosis Procedure

INFOID:0000000001827806

1.CHECK DRIVER SEAT CONTROL UNIT/PASSENGER SEAT CONTROL UNIT INPUT SIGNAL

1. Turn ignition switch ON.
2. Check continuity between driver seat control unit/passenger seat control unit harness connector and ground.

Driver seat control unit/ Passenger seat control unit		Ground	Condition		Voltage (V) (Approx.)
Connector	Terminal				
Driver seat control unit: B503 (driver side)	26	Ground	Sliding switch (driver side)	Operate (forward)	Battery voltage
				Release	0
Passenger seat control unit: B553 (passenger side)			Sliding switch (passenger side)	Operate (forward)	Battery voltage
				Release	0

Is the inspection result normal?

YES >> Sliding relay (forward) is OK.
NO >> GO TO 2.

2.CHECK SLIDING RELAY (FORWARD) POWER SUPPLY

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

Sliding relay (forward)		Ground	Condition		Voltage (V) (Approx.)
Connector	Terminal				
B515 (driver side)	22	Ground	Sliding switch (driver side)	Operate (forward)	Battery
				Release	0
B559 (passenger side)			Sliding switch (passenger side)	Operate (forward)	Battery
				Release	0

Is the inspection result normal?

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

3.CHECK SLIDING RELAY (FORWARD) POWER SUPPLY CIRCUIT

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

Power seat switch		Sliding relay (forward)		Continuity
Connector	Terminal	Connector	Terminal	
B511 (driver side)	22	B515 (driver side)	22	Existed
B554 (passenger side)		B559 (passenger side)		Existed

3. Check continuity between power seat switch harness connector and ground.

Power seat switch		Ground	Continuity
Connector	Terminal		
B511 (driver side)	22	Ground	Not existed
B554 (passenger side)			Not existed

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> Repair or replace harness.

4. CHECK SLIDING RELAY (FORWARD)

Refer to SE-83, "FORWARD : Component Inspection (Sliding Relay)".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace sliding relay.

5. CHECK SLIDING RELAY (FORWARD) CIRCUIT 1

1. Disconnect driver seat control unit/passenger seat control unit connector.
2. Check continuity between sliding relay (forward) harness connector and driver seat control unit/passenger seat control unit harness connector.

Sliding relay (forward)		Driver seat control unit/ Passenger seat control unit		Continuity
Connector	Terminal	Connector	Terminal	
B515 (driver side)	48	Driver seat control unit: B504 (driver side)	48	Existed
B559 (passenger side)		Passenger seat control unit: B553 (passenger side)		Existed

3. Check continuity between sliding relay (forward) harness connector and ground.

Sliding relay (forward)		Ground	Continuity
Connector	Terminal		
B515 (driver side)	48	Ground	Not existed
B559 (passenger side)			Not existed

Is the inspection result normal?

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

6. CHECK SLIDING RELAY (FORWARD) CIRCUIT 2

1. Check continuity between sliding relay (forward) harness connector and driver seat control unit/passenger seat control unit harness connector.

Sliding relay (forward)		Driver seat control unit/ Passenger seat control unit		Continuity
Connector	Terminal	Connector	Terminal	
B515 (driver side)	26	Driver seat control unit: B504 (driver side)	26	Existed
B559 (passenger side)		Passenger seat control unit: B553 (passenger side)		Existed

2. Check continuity between sliding relay (forward) harness connector and ground.

Sliding relay (forward)		Ground	Continuity
Connector	Terminal		
B515 (driver side)	26	Ground	Not existed
B559 (passenger side)			Not existed

Is the inspection result normal?

YES >> GO TO 7.
NO >> Repair or replace harness.

7. CHECK SLIDING RELAY (FORWARD) GROUND CIRCUIT

Check continuity between sliding relay (forward) harness connector and ground.

Sliding relay (forward)		Ground	Continuity
Connector	Terminal		
B515 (driver side)	32	Ground	Existed
B559 (passenger side)			Existed

Is the inspection result normal?

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

8. CHECK DRIVER SEAT CONTROL UNIT/PASSENGER SEAT CONTROL UNIT OUTPUT

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

Driver seat control unit/ Passenger seat control unit		Ground	Voltage (V) (Approx.)
Connector	Terminal		
Driver seat control unit: B503 (driver side)	26	Ground	Battery voltage
Passenger seat control unit: B552 (passenger side)			Battery voltage

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> Replace driver seat control unit/passenger seat control unit.

FORWARD : Component Inspection (Sliding Relay)

INFOID:0000000001827807

1. CHECK SLIDING RELAY

1. Turn ignition switch OFF.
2. Remove sliding relay (forward).
3. Check the continuity between sliding relay (forward) terminals under the following conditions.

Terminals	Condition	Continuity
26 and 32	12V direct current supply between terminals 22 and 48	Existed
	No current supply	Not existed

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace sliding relay (forward)

BACKWARD

BACKWARD : Diagnosis Procedure

INFOID:0000000001827810

1.CHECK DRIVER SEAT CONTROL UNIT/PASSENGER SEAT CONTROL UNIT INPUT SIGNAL

1. Turn ignition switch ON.
2. Check continuity between driver seat control unit/passenger seat control unit harness connector and ground.

Driver seat control unit/ Passenger seat control unit		Ground	Condition		Voltage (V) (Approx.)
Connector	Terminal				
Driver seat control unit: B503 (driver side)	11	Ground	Sliding switch (driver side)	Operate (backward)	Battery voltage
				Release	0
Passenger seat control unit: B553 (passenger side)			Sliding switch (passenger side)	Operate (backward)	Battery voltage
				Release	0

Is the inspection result normal?

YES >> Sliding relay (backward) is OK.
NO >> GO TO 2.

2.CHECK SLIDING RELAY (BACKWARD) POWER SUPPLY

1. Turn ignition switch OFF.
2. Disconnect sliding relay (backward).
3. Check voltage between sliding relay (backward) harness connector and ground.

Sliding relay (backward)		Ground	Condition		Voltage (V) (Approx.)
Connector	Terminal				
B516 (driver side)	23	Ground	Sliding switch (driver side)	Operate (backward)	Battery
				Release	0
B560 (passenger side)			Sliding switch (passenger side)	Operate (backward)	Battery
				Release	0

Is the inspection result normal?

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

3.CHECK SLIDING RELAY (BACKWARD) POWER SUPPLY CIRCUIT

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

Power seat switch		Sliding relay (backward)		Continuity
Connector	Terminal	Connector	Terminal	
B511 (driver side)	23	B516 (driver side)	23	Existed
B554 (passenger side)		B560 (passenger side)		Existed

3. Check continuity between power seat switch harness connector and ground.

Power seat switch		Ground	Continuity
Connector	Terminal		
B511 (driver side)	23	Ground	Not existed
B554 (passenger side)			Not existed

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> Repair or replace harness.

4. CHECK SLIDING RELAY (BACKWARD)

Refer to SE-86, "BACKWARD : Component Inspection (Sliding Relay)".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace sliding relay.

5. CHECK SLIDING RELAY (BACKWARD) CIRCUIT 1

1. Disconnect driver seat control unit/passenger seat control unit connector.
2. Check continuity between sliding relay (backward) harness connector and driver seat control unit/passenger seat control unit harness connector.

Sliding relay (backward)		Driver seat control unit/ Passenger seat control unit		Continuity
Connector	Terminal	Connector	Terminal	
B516 (driver side)	48	Driver seat control unit: B504 (driver side)	48	Existed
B560 (passenger side)		Passenger seat control unit: B553 (passenger side)		Existed

3. Check continuity between sliding relay (backward) harness connector and ground.

Sliding relay (backward)		Ground	Continuity
Connector	Terminal		
B516 (driver side)	48	Ground	Not existed
B560 (passenger side)			Not existed

Is the inspection result normal?

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

6. CHECK SLIDING RELAY (BACKWARD) CIRCUIT 2

1. Check continuity between sliding relay (backward) harness connector and driver seat control unit/passenger seat control unit harness connector.

Sliding relay (backward)		Driver seat control unit/ Passenger seat control unit		Continuity
Connector	Terminal	Connector	Terminal	
B516 (driver side)	11	Driver seat control unit: B504 (driver side)	11	Existed
B560 (passenger side)		Passenger seat control unit: B553 (passenger side)		Existed

2. Check continuity between sliding relay (backward) harness connector and ground.

Sliding relay (backward)		Ground	Continuity
Connector	Terminal		
B516 (driver side)	11	Ground	Not existed
B560 (passenger side)			Not existed

Is the inspection result normal?

YES >> GO TO 7.
NO >> Repair or replace harness.

7. CHECK SLIDING RELAY (BACKWARD) GROUND CIRCUIT

Check continuity between sliding relay (backward) harness connector and ground.

Sliding relay (backward)		Ground	Continuity
Connector	Terminal		
B516 (driver side)	32	Ground	Existed
B560 (passenger side)			Existed

Is the inspection result normal?

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

8. CHECK DRIVER SEAT CONTROL UNIT/PASSENGER SEAT CONTROL UNIT OUTPUT

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

Driver seat control unit/ Passenger seat control unit		Ground	Voltage (V) (Approx.)
Connector	Terminal		
Driver seat control unit: B503 (driver side)	11	Ground	Battery voltage
Passenger seat control unit: B553 (passenger side)			Battery voltage

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> Replace driver seat control unit/passenger seat control unit.

BACKWARD : Component Inspection (Sliding Relay)

INFOID:0000000001827811

1. CHECK SLIDING RELAY

1. Turn ignition switch OFF.
2. Remove sliding relay (backward).
3. Check the continuity between sliding relay (backward) terminals under the following conditions.

Terminals	Condition	Continuity
11 and 32	12 V direct current supply between terminals 23 and 48	Existed
	No current supply	Not existed

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace sliding relay (backward)

RECLINING RELAY
FORWARD

FORWARD : Diagnosis Procedure

INFOID:0000000001827822

1.CHECK RECLINING RELAY (FORWARD) POWER SUPPLY

Check voltage between reclining relay (forward) harness connector and ground.

Reclining relay (forward)		Ground	Condition		Voltage (V) (Approx.)
Connector	Terminal				
B517 (driver side)	27	Ground	Reclining switch (driver side)	Operate (forward)	Battery
	96			Release	0
B562 (passenger side)	27		Reclining switch (passenger side)	Operate (forward)	Battery
	96			Release	0

Is the inspection result normal?

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

2.CHECK RECLINING RELAY (FORWARD) POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect power seat switch connector and reclining relay.
3. Check continuity between power seat switch harness connector and reclining relay (forward) harness connector.

Power seat switch		Reclining relay (forward)		Continuity
Connector	Terminal	Connector	Terminal	
B511 (driver side)	27	B517 (driver side)	27	Existed
			96	
B554 (passenger side)		B562 (passenger side)	27	Existed
			96	

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

Power seat switch		Ground	Continuity
Connector	Terminal		
B511 (driver side)	27	Ground	Not existed
B554 (passenger side)			Not existed

Is the inspection result normal?

YES >> GO TO 7.
NO >> Repair or replace harness or connector.

3.CHECK RECLINING RELAY (FORWARD) CIRCUIT 1

1. Turn ignition switch OFF.
2. Disconnect reclining relay and diode 1 connector.
3. Check continuity between reclining relay (forward) harness connector and diode 1 harness connector.

Reclining relay (forward)		Diode 1		Continuity
Connector	Terminal	Connector	Terminal	
B517 (driver side)	18	B521 (driver side)	18	Existed
B562 (passenger side)		B564 (passenger side)		Existed

4. Check continuity reclining relay (forward) harness connector and ground.

Reclining relay (forward)		Ground	Continuity
Connector	Terminal		
B517 (driver side)	18	Ground	Not existed
B562 (passenger side)			Not existed

Is the inspection result normal?

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

4. CHECK DIODE 1

Refer to SE-90, "FORWARD : Component Inspection (Diode 1)".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace diode 1. (Built in seat back frame.)

5. FORWARD SWITCH CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect forward switch.
3. Check continuity between forward switch harness connector and diode 1 harness connector.

Forward switch		Diode 1		Continuity
Connector	Terminal	Connector	Terminal	
B512 (driver side)	41	B521 (driver side)	41	Existed
B556 (passenger side)		B564 (passenger side)		Existed

4. Check continuity between forward harness connector and ground.

Forward switch		Ground	Continuity
Connector	Terminal		
B512 (driver side)	41	Ground	Not existed
B556 (passenger side)			Not existed

Is the inspection result normal?

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

6. CHECK RECLINING RELAY (FORWARD)

Refer to SE-90, "FORWARD : Component Inspection (Reclining Relay)".

Is the inspection result normal?

YES >> GO TO 7.
NO >> Replace reclining relay.

7.CHECK INTERMITTENTE INCIDENT

Refer to GI-38, "Intermittent Incident".

>> INSPECTION END

FORWARD : Component Inspection (Reclining Relay)

INFOID:0000000001827823

1.CHECK RECLINING RELAY

1. Turn ignition switch OFF.
2. Remove reclining relay (forward).
3. Check the continuity between reclining relay (forward) terminals under the following conditions.

Terminals	Condition	Continuity
27 and 71	12 V direct current supply between terminals 18 and 96	Not existed
	No current supply	Existed

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace reclining relay (forward)

FORWARD : Component Inspection (Diode 1)

INFOID:0000000001832347

1.CHECK DIODE 1

1. Turn ignition switch OFF.
2. Remove diode 1.
3. Check the continuity between diode 1 terminals under the following conditions.

Terminals		Continuity
(+)	(-)	
18	41	Existed
41	18	Not existed

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace diode 1.

BACKWARD

BACKWARD : Diagnosis Procedure

INFOID:0000000001837186

1.CHECK RECLINING RELAY (BACKWARD) POWER SUPPLY

Check voltage between reclining relay (backward) harness connector and ground.

Reclining relay (backward)		Ground	Condition		Voltage (V) (Approx.)
Connector	Terminal				
B518 (driver side)	12	Ground	Reclining switch (driver side)	Operate (backward)	Battery
	94			Release	0
B563 (passenger side)	12		Reclining switch (passenger side)	Operate (backward)	Battery
	94			Release	0

Is the inspection result normal?

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

2. CHECK RECLINING RELAY (BACKWARD) POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect power seat switch connector and reclining relay.
3. Check continuity between power seat switch harness connector and reclining relay (backward) harness connector.

Power seat switch		Reclining relay (backward)		Continuity
Connector	Terminal	Connector	Terminal	
B511 (driver side)	12	B518 (driver side)	12	Existed
			94	
B554 (passenger side)		B563 (passenger side)	12	Existed
			94	

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

Power seat switch		Ground	Continuity
Connector	Terminal		
B511 (driver side)	12	Ground	Not existed
B554 (passenger side)			Not existed

Is the inspection result normal?

YES >> GO TO 7.
NO >> Repair or replace harness or connector.

3. CHECK RECLINING RELAY (BACKWARD) CIRCUIT 1

1. Turn ignition switch OFF.
2. Disconnect reclining relay and diode 2 connector.
3. Check continuity between reclining relay (backward) harness connector and diode 2 harness connector.

Reclining relay (backward)		Diode 2		Continuity
Connector	Terminal	Connector	Terminal	
B518 (driver side)	6	B522 (driver side)	6	Existed
B563 (passenger side)		B565 (passenger side)		Existed

4. Check continuity between reclining relay (backward) harness connector and ground.

Reclining relay (backward)		Ground	Continuity
Connector	Terminal		
B518 (driver side)	6	Ground	Not existed
B563 (passenger side)			Not existed

Is the inspection result normal?

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

4. CHECK DIODE 2

Refer to SE-92, "BACKWARD : Component Inspection (Diode 2)".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace diode 2. (Built in seat back frame.)

5.FORWARD SWITCH CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect forward switch.
3. Check continuity between forward switch harness connector and diode 2 harness connector.

Forward switch		Diode 2		Continuity
Connector	Terminal	Connector	Terminal	
B512 (driver side)	41	B522 (driver side)	41	Existed
B556 (passenger side)		B565 (passenger side)		Existed

4. Check continuity between forward switch harness connector and ground.

Forward switch		Ground	Continuity
Connector	Terminal		
B512 (driver side)	41	Ground	Not existed
B556 (passenger side)			Not existed

Is the inspection result normal?

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

6.CHECK RECLINING RELAY (BACKWARD)

Refer to SE-92, "BACKWARD : Component Inspection (Reclining Relay)".

Is the inspection result normal?

YES >> GO TO 7.
NO >> Replace reclining relay.

7.CHECK INTERMITTENTE INCIDENT

Refer to GI-38, "Intermittent Incident".

>> INSPECTION END

BACKWARD : Component Inspection (Reclining Relay)

INFOID:0000000001837187

1.CHECK RECLINING RELAY

1. Turn ignition switch OFF.
2. Remove reclining relay (backward).
3. Check the continuity between reclining relay (backward) terminals under the following conditions.

Terminals	Condition	Continuity
12 and 15	12 V direct current supply between terminals 6 and 94	Not existed
	No current supply	Existed

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace reclining relay (backward)

BACKWARD : Component Inspection (Diode 2)

INFOID:0000000001837190

1.CHECK DIODE 2

1. Turn ignition switch OFF.
2. Remove diode 2.

3. Check the continuity between diode 2 terminals under the following conditions.

Terminals		Continuity
(+)	(–)	
6	41	Existed
41	6	Not existed

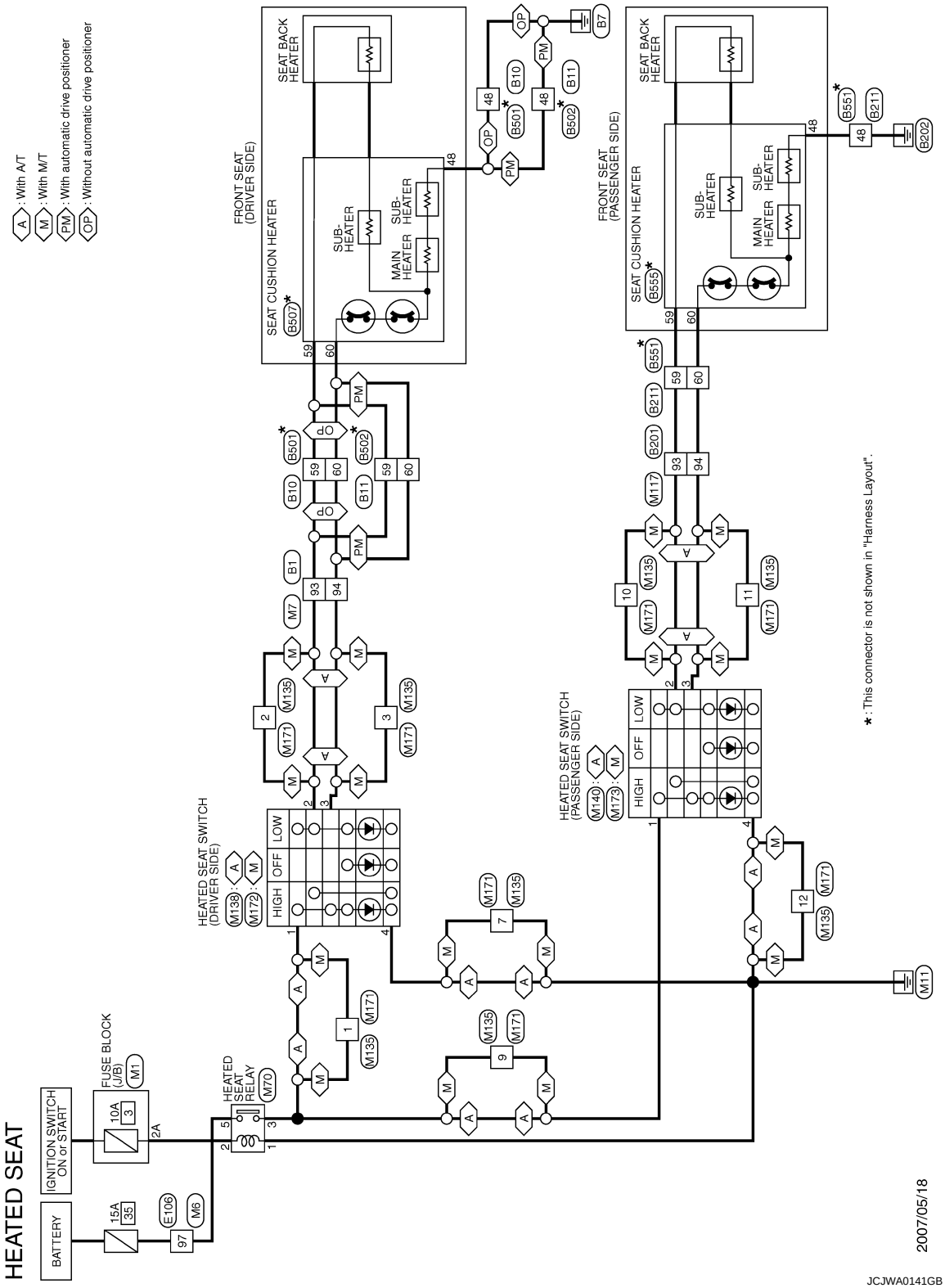
Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace diode 2.

HEATED SEAT

Wiring Diagram - HEATED SEAT SYSTEM -

INFOID:0000000001694145



HEATED SEAT

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
93	GR	–
94	O	–

Connector No.	B10
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
48	B	–
59	GR	–
60	O	–

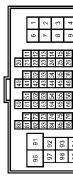
Connector No.	B11
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
48	B	–
59	GR	–
60	O	–

Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
93	Y	–
94	BR	–

Connector No.	B211
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
48	B	–
59	Y	–
60	BR	–

Connector No.	B501
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
48	B	–
59	Y/G	–
60	Y	–

Connector No.	B502
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-LC

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
48	B	–
59	Y/G	–
60	Y	–

Connector No.	B507
Connector Name	SEAT CUSHION HEATER (DRIVER SIDE)
Connector Type	M03FW-LC

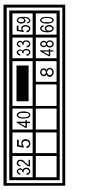
H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
48	B	–
59	Y/G	–
60	Y	–

JCJWA0142GB

HEATED SEAT

Connector No.	B551
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS

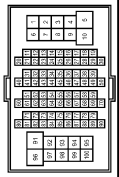


Terminal No.	Color of Wire	Signal Name [Specification]
48	B	–
59	Y/G	–
60	Y	–

Connector No.	B555
Connector Name	SEAT CUSHION HEATER (PASSENGER SIDE)
Connector Type	M03FW-LC

Terminal No.	Color of Wire	Signal Name [Specification]
48	B	–
59	Y/G	–
60	Y	–

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
97	BR	–

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS06FW-M2

Terminal No.	Color of Wire	Signal Name [Specification]
2A	G	–

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

Terminal No.	Color of Wire	Signal Name [Specification]
97	GR	–

Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

Terminal No.	Color of Wire	Signal Name [Specification]
93	GR	–
94	SB	–

Connector No.	M70
Connector Name	HEATED SEAT RELAY
Connector Type	MS02FL-M2

Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	–
2	P	–
3	G	–
5	GR	–

Connector No.	M117
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

Terminal No.	Color of Wire	Signal Name [Specification]
93	O	–
94	GR	–

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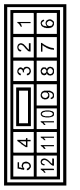
HEATED SEAT

Connector No.	M135
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	–
2	GR	–
3	SB	–
7	B	–
9	G	–
10	O	–
11	GR	–
12	GR	–

Connector No.	M138
Connector Name	HEATED SEAT SWITCH (DRIVER SIDE)
Connector Type	NS06FW-CS

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	G	–
2	GR	–
3	SB	–
4	B	–

Connector No.	M140
Connector Name	HEATED SEAT SWITCH (PASSENGER SIDE)
Connector Type	NS06FBR-CS

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	G	–
2	O	–
3	GR	–
4	GR	–

Connector No.	M171
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	G	–
2	GR	–
3	LG	–
7	B	–
9	G	–
10	GR	–
11	GR	–
12	B	–

Connector No.	M172
Connector Name	HEATED SEAT SWITCH (DRIVER SIDE)
Connector Type	NS06FW-CS

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	G	–
2	GR	–
3	LG	–
4	B	–

Connector No.	M173
Connector Name	HEATED SEAT SWITCH (PASSENGER SIDE)
Connector Type	NS06FBR-CS

H.S.

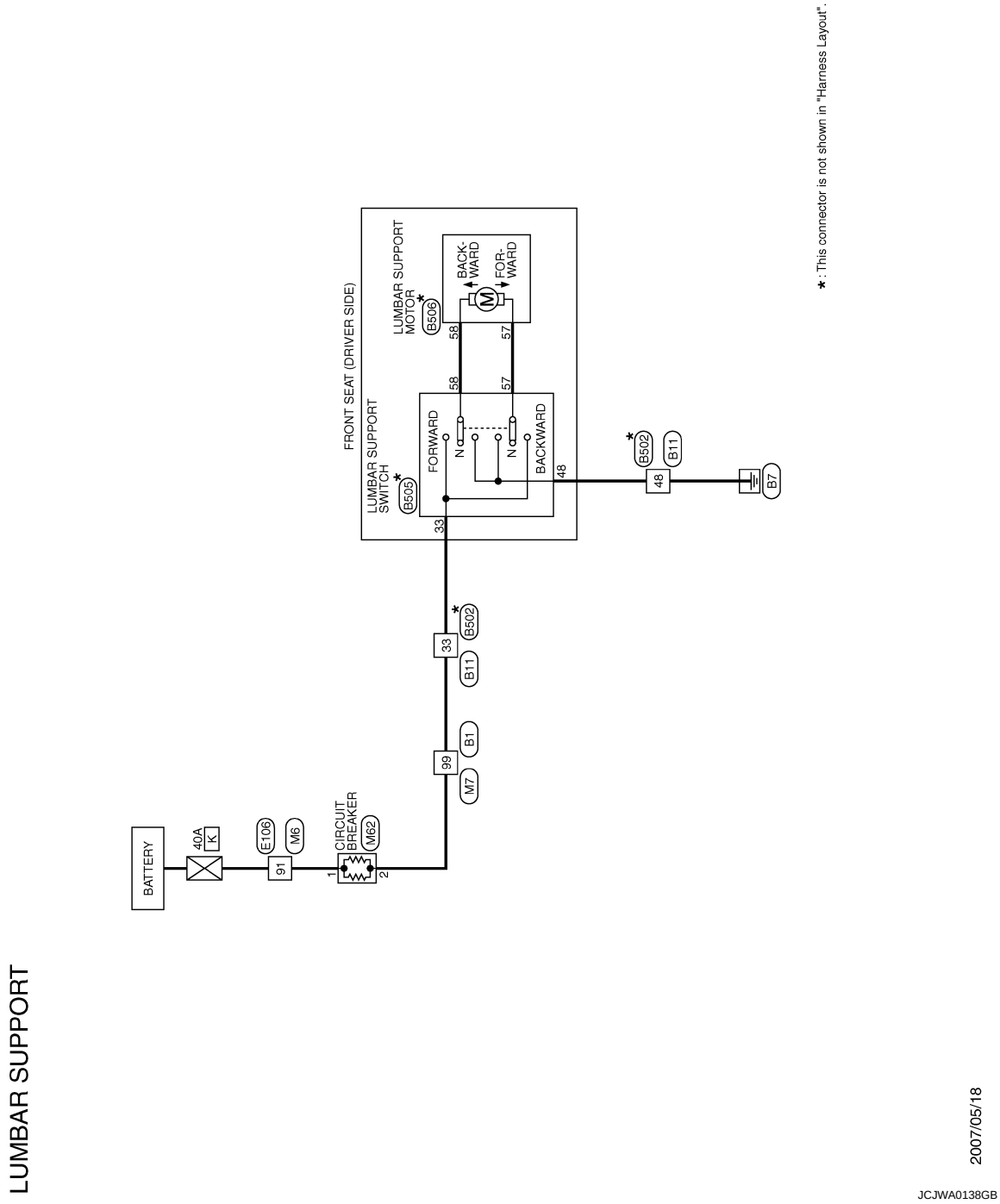
Terminal No.	Color of Wire	Signal Name [Specification]
1	G	–
2	GR	–
3	GR	–
4	B	–

JCJWA0144GB

LUMBAR SUPPORT

Wiring Diagram - LUMBAR SUPPORT SYSTEM -

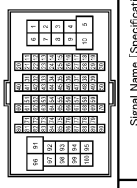
INFOID:0000000001694146



LUMBAR SUPPORT

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
99	SB	–

Connector No.	B11
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
33	SB	–
48	B	–

Connector No.	B502
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-LC

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
33	R	–
48	B	–

Connector No.	B505
Connector Name	LUMBAR SUPPORT SWITCH
Connector Type	NS04FW-CS

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
33	R	–
48	B	–
57	W	–
58	L	–

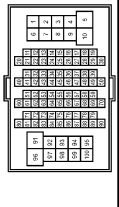
Connector No.	B506
Connector Name	LUMBAR SUPPORT MOTOR
Connector Type	C02FW

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
57	W	–
58	L	–

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

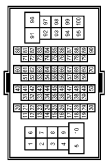
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
91	W	–

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

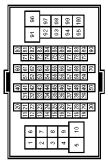
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
91	W	–

Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
99	SB	– [With automatic drive positioner]

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LUMBAR SUPPORT

Connector No.	M62
Connector Name	CIRCUIT BREAKER
Connector Type	M02FW-P-LC

Terminal No.	Color of Wire	Signal Name [Specification]
1	W	–
2	SB	–

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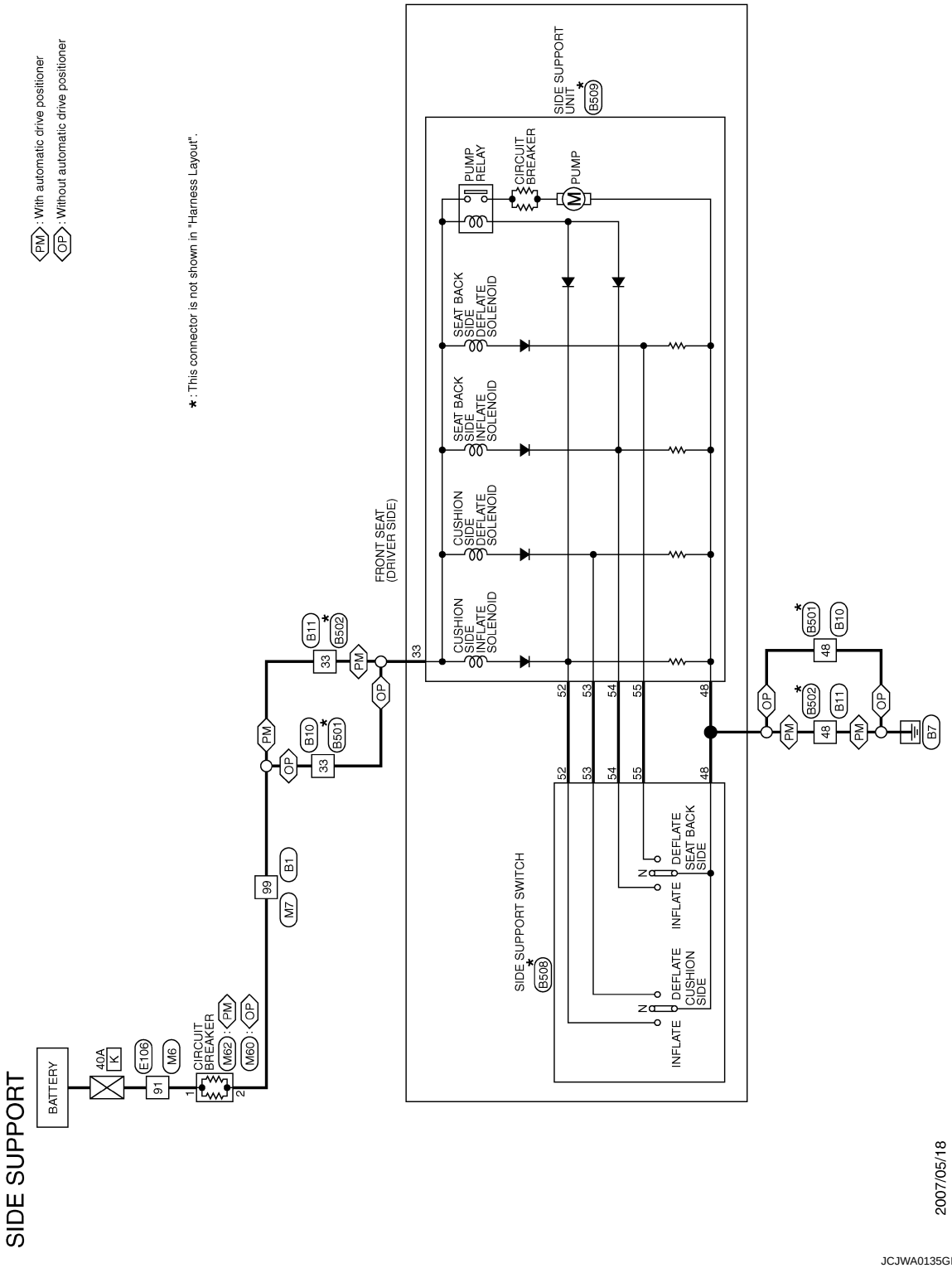
SIDE SUPPORT

Wiring Diagram - LUMBAR SUPPORT SYSTEM -

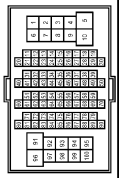
INFOID:0000000001848725



SIDE SUPPORT

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
99	SB	–

Connector No.	B10
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
33	SB	–
48	B	–

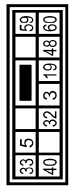
Connector No.	B11
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
33	SB	–
48	B	–

Connector No.	B501
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
33	R	–
48	B	–

Connector No.	B502
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-LC

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
33	R	–
48	B	–

Connector No.	B508
Connector Name	SIDE SUPPORT SWITCH
Connector Type	NS06FW-CS

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
48	B	–
52	G	–
53	B/R	–
54	V/W	–
55	R/L	–

Connector No.	B509
Connector Name	SIDE SUPPORT UNIT
Connector Type	NS06FW-CS

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
33	R	–
48	B	–
52	G	–
53	B/R	–
54	V/W	–
55	R/L	–

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
91	W	–

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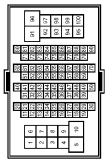
SIDE SUPPORT

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

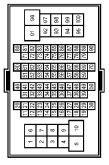
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
91	W	–

Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
99	SB	– [With automatic drive positioner]
99	P	– [Without automatic drive positioner]

Connector No.	M60
Connector Name	CIRCUIT BREAKER
Connector Type	M02FW-LC

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	W	–
2	P	–

Connector No.	M62
Connector Name	CIRCUIT BREAKER
Connector Type	M02FW-P-LC

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	W	–
2	SB	–

JCJWA0137GB

ECU DIAGNOSIS

DRIVER SEAT CONTROL UNIT

Reference Value

INFOID:0000000001879561

VALUES ON THE DIAGNOSIS TOOL

CONSULT-III MONITOR ITEM

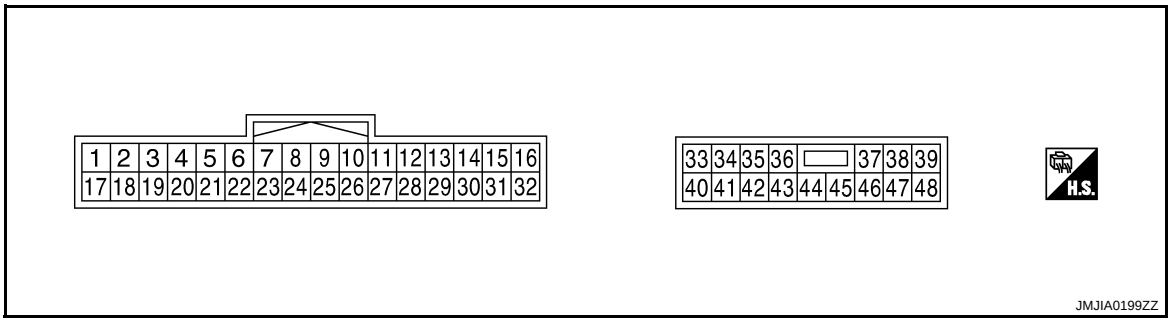
Monitor Item	Condition		Value/Status
SLIDE SW–FR	Sliding switch (front)	Operate	ON
		Release	OFF
SLIDE SW–RR	Sliding switch (rear)	Operate	ON
		Release	OFF
FORWARD SW	Seat back	Folded down	ON
		Other than above	OFF
WALK-IN SW	Power walk-in switch	Pressed	ON
		Other than above	OFF
FWD LIMIT SW	Seat sliding	Front edge	ON
		Other than above	OFF
SEAT BELT SW	Seat belt	Front edge	ON
		Other than above	OFF
DETENT SW*1	A/T selector lever	P position	OFF
		Other than above	ON
PARK BRAKE SW*2	Parking brake	Applied	ON
		Release	OFF
SLIDE PULSE	Seat sliding	Forward	The numeral value decreases *3
		Backward	The numeral value increases *3
		Other than above	No change to numeral value*3

*1: A/T model

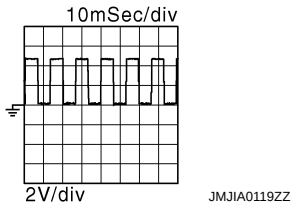
*2: M/T model

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

TERMINAL LAYOUT

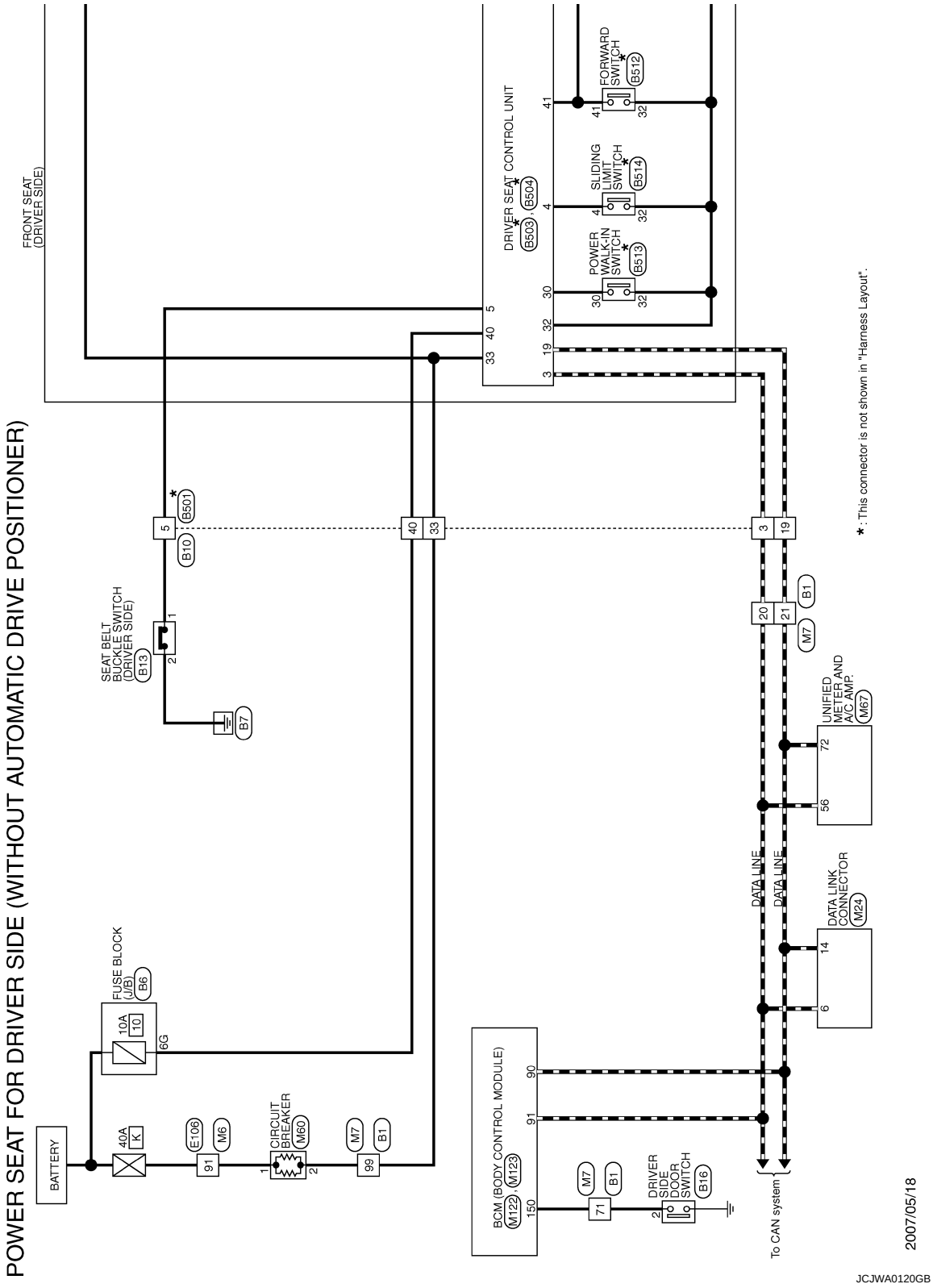


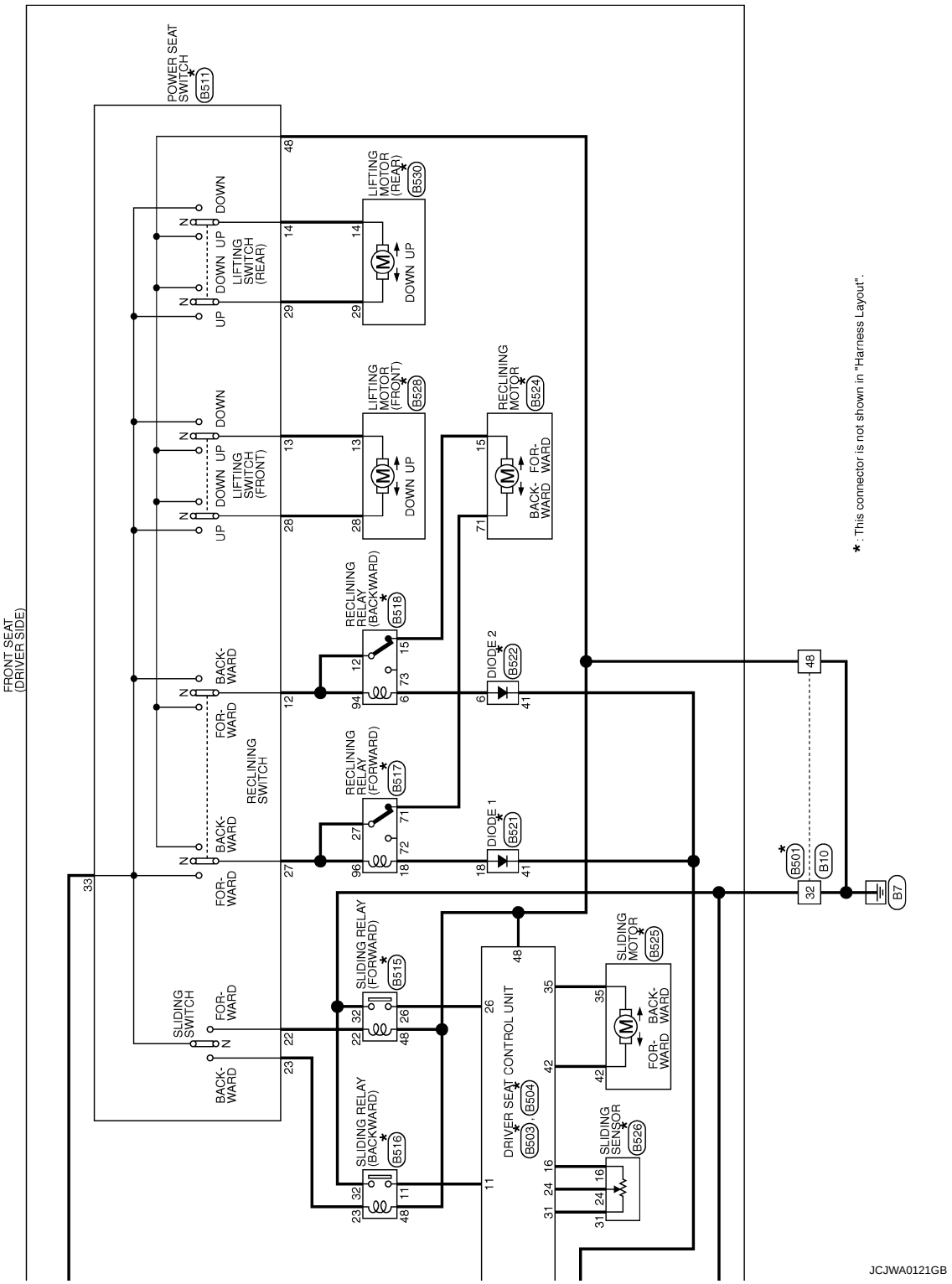
PHYSICAL VALUES

Terminal No.		Wire color	Description		Condition		Voltage (V) (Approx)
+	-		Signal name	Input/ Output			
3	—	R/Y	CAN-H	—	—		—
4	Ground	O/B	Sliding limit switch signal	Input	Seat sliding	Front edge	5
						Other than above	0
5	Ground	L	Seat belt buckle switch signal (driver side)	Input	Seat belt	Fastened	5
						Other than above	0
11	Ground	BR	Sliding switch backward signal	Input	Sliding switch	Operate (backward)	0
						Release	Battery voltage
16	Ground	O	Sensor power supply	Output	—		5
19	—	V	CAN-L	—	—		—
24	Ground	R	Sliding sensor signal	Input	Seat sliding	Operate	
						Stop	0 or 5
26	Ground	Y	Sliding switch forward signal	Input	Sliding switch	Operate (forward)	0
						Release	Battery voltage
30	Ground	P	Power walk-in switch signal	Input	Power walk-in switch	Pressed	0
						Other than above	12
31	Ground	GR	Sensor ground	—	—		0
32	Ground	B/W	Ground (signal)	—	—		0
33	Ground	R	Power source (C/B)	Input	—		Battery voltage
35	Ground	W/R	Sliding motor forward output	Output	Seat sliding	Operate (forward)	Battery voltage
						Release	0
40	Ground	R/W	Power source (Fuse)	Input	—		Battery voltage
41	Ground	Y/G	Forward switch signal	Input	Seat back	Folded down	0
						Other than above	5
42	Ground	W	Sliding motor backward output	Output	Seat sliding	Operate (backward)	Battery voltage
						Stop	0
48	Ground	B	Ground (power)	—	—		0

Wiring Diagram - POWER SEAT CONTROL SYSTEM FOR DRIVER SIDE -

INFOID:0000000001730054




FRONT SEAT (DRIVER SIDE)
POWER SEAT SWITCH B511
LIFTING SWITCH (REAR)
LIFTING SWITCH (FRONT)
RECLINING SWITCH
SLIDING SWITCH
LIFTING MOTOR (REAR) B530
LIFTING MOTOR (FRONT) B528
RECLINING MOTOR B524
RECLINING RELAY (BACKWARD) B518
RECLINING RELAY (FORWARD) B517
SLIDING RELAY (FORWARD) B515
SLIDING RELAY (BACKWARD) B516
DIODE 2 B522
DIODE 1 B521
SLIDING MOTOR B525
SLIDING SENSOR B526
DRIVER SEAT CONTROL UNIT B503 B504
B501 B10 B7
* : This connector is not shown in "Harness Layout".
JCJWA0121GB

POWER SEAT FOR DRIVER SIDE (WITHOUT AUTOMATIC DRIVE POSITIONER)

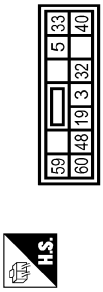
Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

Terminal No.	Color of Wire	Signal Name [Specification]
20	L	–
21	P	–
71	V	–
99	SB	–

Connector No.	B6
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FBR-CS

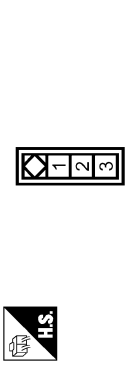
Terminal No.	Color of Wire	Signal Name [Specification]
6G	G	–

Connector No.	B10
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
3	L	–
5	BR	–
19	P	–
32	B	–
33	SB	–
40	G	–
48	B	–

Connector No.	B13
Connector Name	SEAT BELT BUCKLE SWITCH (DRIVER SIDE)
Connector Type	A03FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	–
2	B	–

Connector No.	B16
Connector Name	DRIVER SIDE DOOR SWITCH
Connector Type	A03FW

Terminal No.	Color of Wire	Signal Name [Specification]
2	V	–

Connector No.	B501
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
3	R/Y	–
5	L	–
19	V	–
32	B/W	–
33	R	–
40	R/W	–
48	B	–

Connector No.	B503
Connector Name	DRIVER SEAT CONTROL UNIT
Connector Type	TH32FW

Terminal No.	Color of Wire	Signal Name [Specification]
3	R/Y	CAN-H
4	O/B	SLIDING LIMIT SW
5	L	BUCKLE SW
11	BR	SLIDING SW (BACKWARD)
16	O	VCC
19	V	CAN-L
24	R	PULSE (SLIDING)
26	Y	SLIDING SW (FORWARD)
30	P	POWER WALK-IN SW
31	GR	SENSOR GND
32	B/W	GND (SIGNAL)

Connector No.	B504
Connector Name	DRIVER SEAT CONTROL UNIT
Connector Type	NS16FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
33	R	BAT (C/B)
35	W/R	SLIDING MOTOR (FORWARD)
40	R/W	BAT (FUSE)
41	Y/G	FORWARD SW
42	W	SLIDING MOTOR (BACKWARD)
48	B	GND (POWER)

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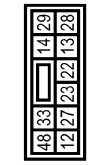
POWER SEAT FOR DRIVER SIDE (WITHOUT AUTOMATIC DRIVE POSITIONER)

Connector No.	B511
Connector Name	POWER SEAT SWITCH (DRIVER SIDE) (WITHOUT AUTOMATIC DRIVE POSITIONER)
Connector Type	NS10FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
12	SB	–
13	LG/R	–
14	G/B	–
22	W/G	–
23	O/L	–
27	R/G	–
28	W/B	–
29	P/L	–
33	R	–
48	B	–

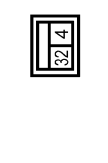
Connector No.	B512
Connector Name	FORWARD SWITCH (DRIVER SIDE)
Connector Type	S02MW

Terminal No.	Color of Wire	Signal Name [Specification]
32	B/W	–
41	Y/G	–

Connector No.	B513
Connector Name	POWER WALK-IN SWITCH (DRIVER SIDE)
Connector Type	TK02MBR-P

Terminal No.	Color of Wire	Signal Name [Specification]
30	P	–
32	B/W	–

Connector No.	B514
Connector Name	SLIDING LIMIT SWITCH (DRIVER SIDE)
Connector Type	M02FB



Terminal No.	Color of Wire	Signal Name [Specification]
4	O/B	–
32	B/W	–

Connector No.	B515
Connector Name	SLIDING RELAY (FORWARD) (DRIVER SIDE)
Connector Type	MS02FL-M2

Terminal No.	Color of Wire	Signal Name [Specification]
22	W/G	–
26	Y	–
32	B/W	–
48	B	–

Connector No.	B516
Connector Name	SLIDING RELAY (BACKWARD) (DRIVER SIDE)
Connector Type	MS02FL-M2

Terminal No.	Color of Wire	Signal Name [Specification]
11	BR	–
23	OR	–
32	B/P	–
48	B/R	–

Connector No.	B517
Connector Name	RECLINING RELAY (FORWARD) (DRIVER SIDE)
Connector Type	MS03FB-M2

Terminal No.	Color of Wire	Signal Name [Specification]
18	B	–
27	R/G	–
71	W	–
72	–	–
96	R/G	–

Connector No.	B518
Connector Name	RECLINING RELAY (BACKWARD) (DRIVER SIDE)
Connector Type	MS03FB-M2

Terminal No.	Color of Wire	Signal Name [Specification]
6	R	–
12	SB	–
15	L	–
73	–	–
94	SB	–

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POWER SEAT FOR DRIVER SIDE (WITHOUT AUTOMATIC DRIVE POSITIONER)

Connector No.	B521
Connector Name	DIODE 1 (DRIVER SIDE)
Connector Type	24335 C9900

H.S.

41 18

Terminal No.	Color of Wire	Signal Name [Specification]
18	B	–
41	Y/G	–

Connector No.	B522
Connector Name	DIODE 2 (DRIVER SIDE)
Connector Type	24335 C9900

H.S.

41 6

Terminal No.	Color of Wire	Signal Name [Specification]
6	R	–
41	Y/R	–

Connector No.	B524
Connector Name	RECLINING MOTOR (DRIVER SIDE) (WITHOUT AUTOMATIC DRIVE POSITIONER)
Connector Type	NS02FW-CS

H.S.

15 71

Terminal No.	Color of Wire	Signal Name [Specification]
15	L	–
71	W	–

Connector No.	B525
Connector Name	SLIDING MOTOR (DRIVER SIDE)
Connector Type	6098-0239

H.S.

42 35

Terminal No.	Color of Wire	Signal Name [Specification]
35	W/R	–
42	W	–

Connector No.	B526
Connector Name	SLIDING SENSOR (DRIVER SIDE)
Connector Type	6098-0241

H.S.

24 31 16

Terminal No.	Color of Wire	Signal Name [Specification]
16	O	–
24	R	–
31	GR	–

Connector No.	B528
Connector Name	LIFTING MOTOR (FRONT) (DRIVER SIDE)
Connector Type	NS02FW-CS

H.S.

28 13

Terminal No.	Color of Wire	Signal Name [Specification]
13	LG/R	–
28	W/B	–

Connector No.	B530
Connector Name	LIFTING MOTOR (REAR) (DRIVER SIDE)
Connector Type	NS02FW-CS

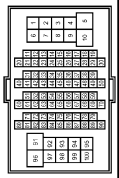
H.S.

29 14

Terminal No.	Color of Wire	Signal Name [Specification]
14	G/B	–
29	P/L	–

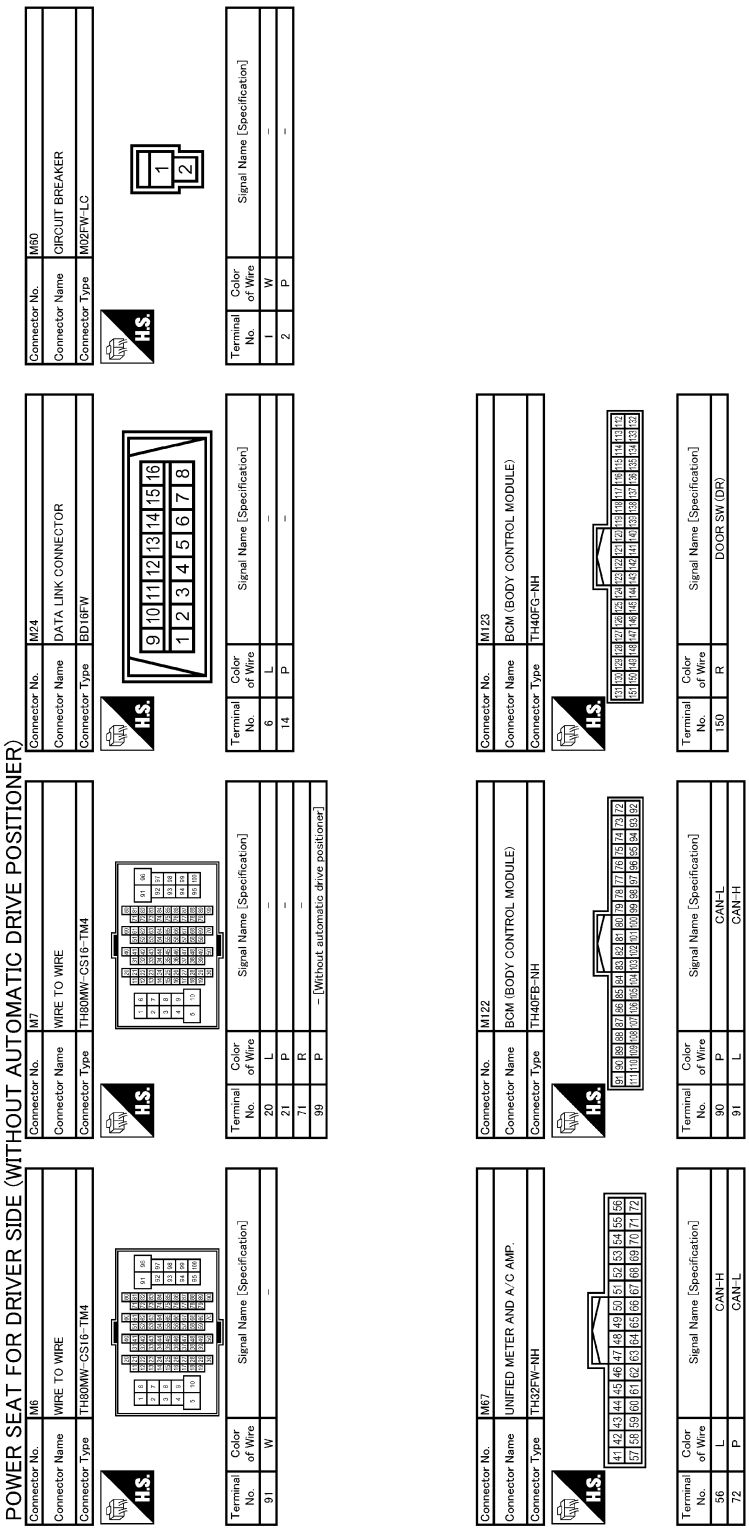
Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
91	W	–

JCJWA0124GB



JCJWA0125GB

Fail Safe

INFOID:0000000001911594

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 Without ADP: SE-29
	Tilt sensor*1	B2118	With ADP: ADP-51 Without ADP: SE-30
	Telescopic sensor	B2119	ADP-54
	Detent switch	B2126	ADP-57
	Parking brake switch	B2127	ADP-59
Only manual functions, except door mirror, operate normally.	UART communication	B2128	ADP-61
Only manual functions, except seat sliding, operate normally.	Seat sliding output	B2112	ADP-49
Only manual functions, except seat reclining, operate normally.	Seat reclining output	B2113	ADP-50

*1: Driver seat without automatic driver positioner system display only “U1000 CAN COMM CIRCUIT”and “B2112 SEAT SLIDE”.

DTC Index

INFOID:0000000001911595

CONSULT-III display	Timing*1		Item	Reference page
	Current malfunction	Previous malfunction		
CAN COMM CIRCUIT*2 [U1000]	0	1-39	CAN communication	With ADP: ADP-48 Without ADP: SE-29
SEAT SLIDE*2 [B2112]	0	1-39	Seat slide motor output	With ADP: ADP-51 Without ADP: SE-30
SEAT RECLINING [B2113]	0	1-39	Seat reclining motor output	ADP-50
TILT SENSOR [B2118]	0	1-39	Tilt sensor input	ADP-51
TELESCO SENSOR [B2119]	0	1-39	Telescopic sensor input	ADP-54
DETENT SW*2 [B2126]	0	1-39	Detention switch condition	ADP-57
PARKING BRAKE [B2127]	0	1-39	Parking brake switch condition	ADP-59
UART COMM [B2128]	0	1-39	UART communication	ADP-61

*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.

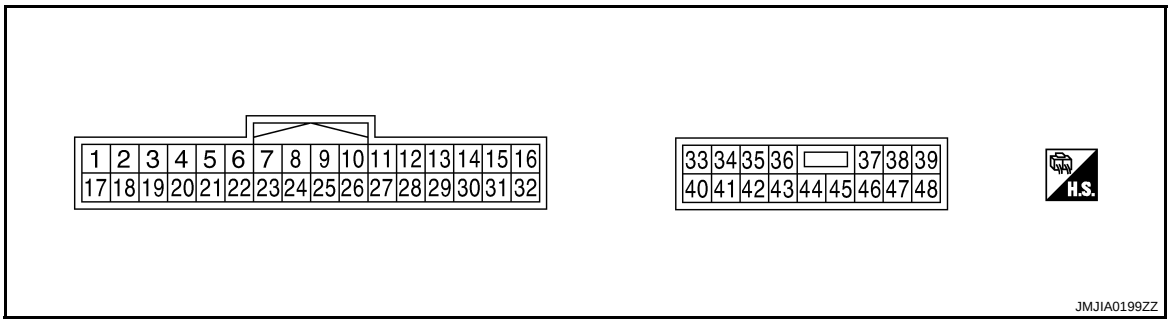
*2: Driver seat without automatic driver positioner system display only “U1000 CAN COMM CIRCUIT”and “B2112 SEAT SLIDE”.

PASSENGER SEAT CONTROL UNIT

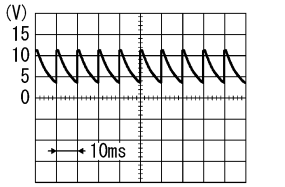
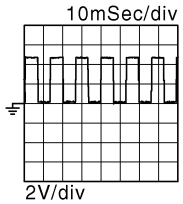
Reference Value

INFOID:0000000001730059

TERMINAL LAYOUT



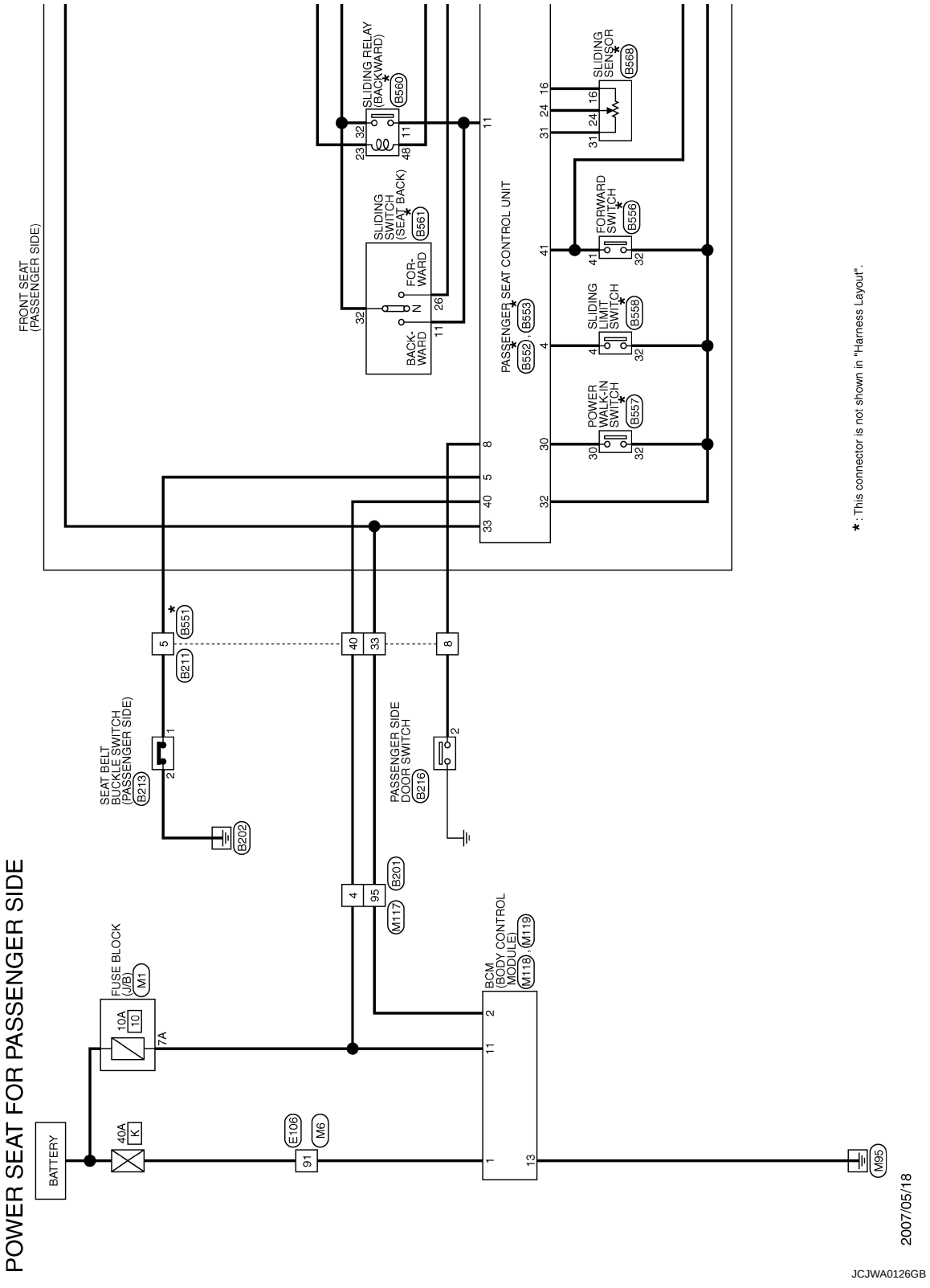
PHYSICAL VALUES

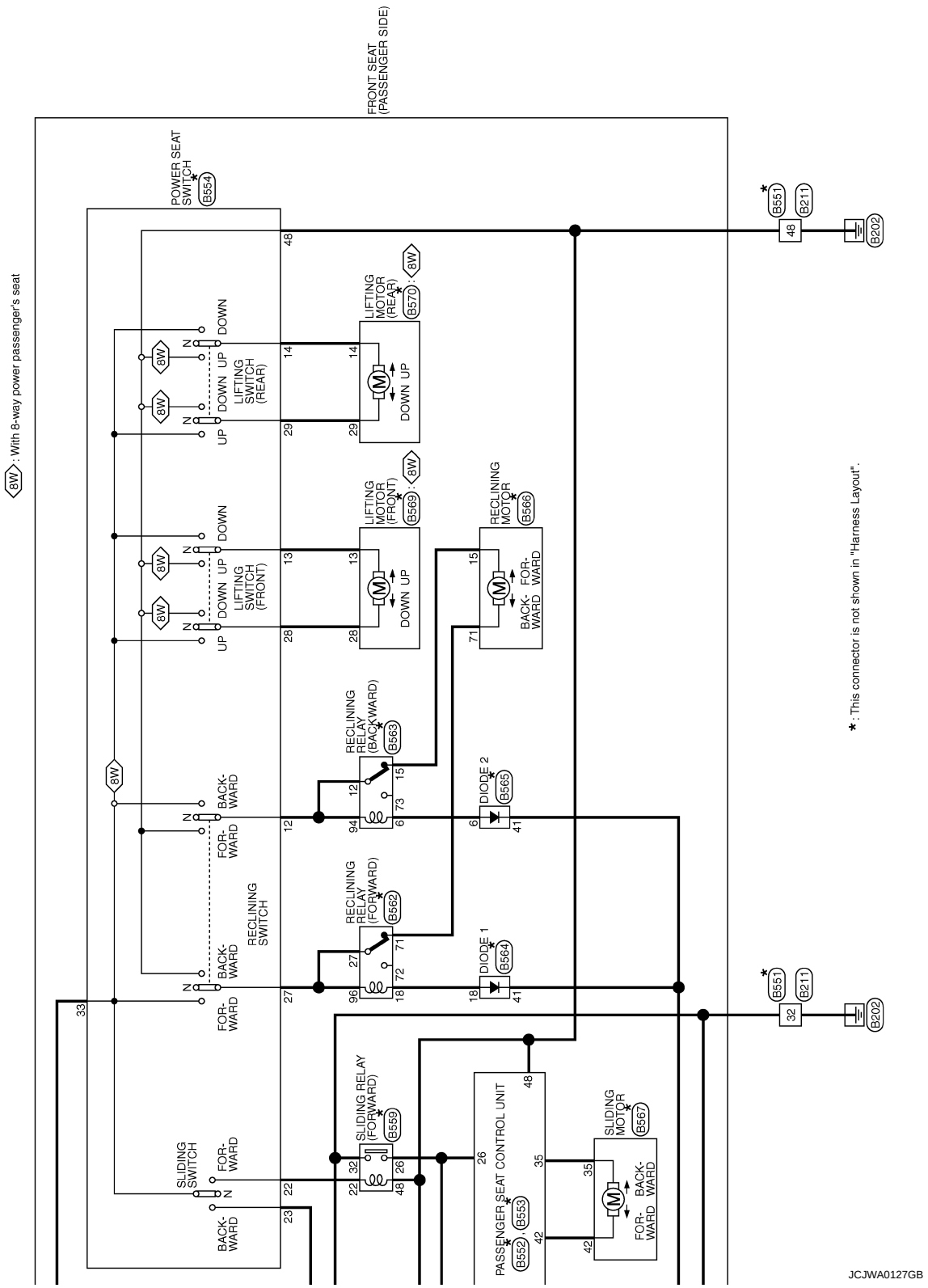
Terminal No.		Wire color	Description		Condition		Voltage (V) (Approx)
+	-		Signal name	Input/ Output			
4	Ground	O/B	Sliding limit switch signal	Input	Sliding position is front edge & power walk-in switch is pressed.		5
					Other than above		0
5	Ground	L	Seat belt buckle switch signal (passenger side)	Input	Seat belt is released & power walk-in switch is pressed.		5
					Other than above		0
8	Ground	LG	Passenger side door switch signal	Input	Passenger door	Open	0
						Closed	 PKIB4960J
11	Ground	BR	Sliding switch backward signal	Input	Sliding switch	Operate (backward)	0
						Release	Battery voltage
16	Ground	O	Sensor power supply	Output	—		5
24	Ground	R	Sliding sensor signal	Input	Seat sliding	Operate	 JMJIA0119ZZ
						Stop	0 or 5
26	Ground	Y	Sliding switch forward signal	Input	Sliding switch	Operate (forward)	0
						Release	Battery voltage

Terminal No.		Wire color	Description		Condition		Voltage (V) (Approx)
+	-		Signal name	Input/ Output			
30	Ground	P	Power walk-in switch signal	Input	Power walk-in switch	Pressed	0
						Other than above	12
31	Ground	GR	Sensor ground	—	—		0
32	Ground	B/W	Ground (signal)	—	—		0
33	Ground	R	Power source (C/B)	Input	—		Battery voltage
35	Ground	W/R	Sliding motor forward output	Output	Seat sliding	Operate (forward)	Battery voltage
						Release	0
40	Ground	R/W	Power source (Fuse)	Input	—		Battery voltage
41	Ground	Y/G	Forward switch signal	Input	Seat back is folded down and power walk-in switch is pressed.		0
					Seat back is folded up and seat reclining is operating.		Battery voltage
					Seat back is folded up and power walk-in switch is pressed.		5
42	Ground	W	Sliding motor backward output	Output	Seat sliding	Operate (backward)	Battery voltage
						Stop	0
48	Ground	B	Ground (power)	—	—		0

Wiring Diagram - POWER SEAT CONTROL SYSTEM FOR PASSENGER SIDE -

INFOID:0000000001831083



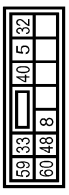

FRONT SEAT (PASSENGER SIDE)
8W : With 8-way power passenger's seat
POWER SEAT SWITCH B554
LIFTING SWITCH (REAR)
LIFTING SWITCH (FRONT)
RECLINING SWITCH
SLIDING SWITCH
LIFTING MOTOR (REAR) B570
LIFTING MOTOR (FRONT) B569
RECLINING MOTOR B566
SLIDING MOTOR B567
RECLINING RELAY (BACKWARD) B563
RECLINING RELAY (FORWARD) B562
SLIDING RELAY (FORWARD) B559
DIODE 1 B564
DIODE 2 B565
PASSENGER SEAT CONTROL UNIT B552, B553
B551 B211
B202
* : This connector is not shown in "Harness Layout".
JCJWA0127GB

POWER SEAT FOR PASSENGER SIDE

Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

Terminal No.	Color of Wire	Signal Name [Specification]
4	O	–
95	W	–

Connector No.	B211
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
5	LG	–
8	P	–
32	B	–
33	W	–
40	O	–
48	B	–

Connector No.	B213
Connector Name	SEAT BELT BUCKLE SWITCH (PASSENGER SIDE)
Connector Type	A03FW

Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	–
2	B	–

Connector No.	B216
Connector Name	PASSENGER SIDE DOOR SWITCH
Connector Type	A03FW

Terminal No.	Color of Wire	Signal Name [Specification]
2	GR	–

Connector No.	B551
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
5	L	–
8	LG	–
32	B/W	–
33	R	–
40	R/W	–
48	B	–

Connector No.	B552
Connector Name	PASSENGER SEAT CONTROL UNIT
Connector Type	TH32FW

Terminal No.	Color of Wire	Signal Name [Specification]
4	O/B	SLIDING LIMIT SW
5	L	BUCKLE SW
8	LG	DOOR SW
11	BR	SLIDING RELAY (BACKWARD)
16	O	POWER SUPPLY FOR SENSOR
24	R	SLIDE PULSE
26	Y	SLIDING RELAY (FORWARD)
30	P	POWER WALK-IN SW
31	GR	GND FOR SENSOR
32	B/W	GND (SENSOR)

Connector No.	B553
Connector Name	PASSENGER SEAT CONTROL UNIT
Connector Type	NS16FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
33	R	BAT (C/B)
35	W/R	FORWARD
40	R/W	BAT (FUSE)
41	Y/G	FORWARD SW
42	W	BACKWARD
48	B	GND (POWER)

Connector No.	B554
Connector Name	POWER SEAT SWITCH (PASSENGER SIDE)
Connector Type	NS10FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
12	SB	–
13	LG/R	–
14	G/B	–
22	W/G	–
23	O/L	–
27	R/G	–
28	W/B	–
29	P/L	–
33	R	–
48	B	–

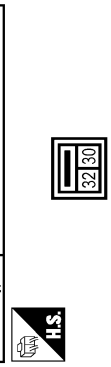
JCJWA0128GB

POWER SEAT FOR PASSENGER SIDE

Connector No.	B556
Connector Name	FORWARD SWITCH (PASSENGER SIDE)
Connector Type	S02MW

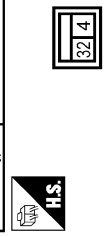
Terminal No.	Color of Wire	Signal Name [Specification]
32	B/W	–
41	Y/G	–

Connector No.	B557
Connector Name	POWER WALK-IN SWITCH (PASSENGER SIDE)
Connector Type	TK02MBR-P



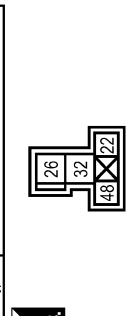
Terminal No.	Color of Wire	Signal Name [Specification]
30	P	–
32	B/W	–

Connector No.	B558
Connector Name	SLIDING LIMIT SWITCH (PASSENGER SIDE)
Connector Type	M02FB



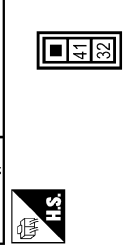
Terminal No.	Color of Wire	Signal Name [Specification]
4	O/B	–
32	B/W	–

Connector No.	B559
Connector Name	SLIDING RELAY (FORWARD) (PASSENGER SIDE)
Connector Type	MS02FL-M2



Terminal No.	Color of Wire	Signal Name [Specification]
22	W/G	–
26	Y	–
32	B/W	–
48	B	–

Connector No.	B560
Connector Name	SLIDING RELAY (BACKWARD) (PASSENGER SIDE)
Connector Type	MS02FL-M2



Terminal No.	Color of Wire	Signal Name [Specification]
11	BR	–
23	O/L	–
32	B/P	–
48	B/R	–

Connector No.	B561
Connector Name	SLIDING SWITCH (SEAT BACK) (PASSENGER SIDE)
Connector Type	NS04FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
11	BR	–
26	Y	–
32	B/W	–

Connector No.	B562
Connector Name	RECLINING RELAY (FORWARD) (PASSENGER SIDE)
Connector Type	MS03FB-M2

Terminal No.	Color of Wire	Signal Name [Specification]
18	B	–
27	R/G	–
71	W	–
72	–	–
96	R/G	–

Connector No.	B563
Connector Name	RECLINING RELAY (BACKWARD) (PASSENGER SIDE)
Connector Type	MS03FB-M2

Terminal No.	Color of Wire	Signal Name [Specification]
6	R	–
12	SB	–
15	L	–
73	–	–
94	SB	–

JCJWA0129GB

POWER SEAT FOR PASSENGER SIDE

Connector No.	B564
Connector Name	DIODE1 (PASSENGER SIDE)
Connector Type	24335 C9900

H.S.

41 18

Terminal No.	Color of Wire	Signal Name [Specification]
18	B	–
41	Y/G	–

Connector No.	B565
Connector Name	DIODE2 (PASSENGER SIDE)
Connector Type	24335 C9900

H.S.

41 6

Terminal No.	Color of Wire	Signal Name [Specification]
6	R	–
41	Y/R	–

Connector No.	B566
Connector Name	RECLINING MOTOR (PASSENGER SIDE)
Connector Type	NS02FW-CS

H.S.

15 71

Terminal No.	Color of Wire	Signal Name [Specification]
15	L	–
71	W	–

Connector No.	B567
Connector Name	SLIDING MOTOR (PASSENGER SIDE)
Connector Type	6098-0239

H.S.

35 42

Terminal No.	Color of Wire	Signal Name [Specification]
35	W/R	–
42	W	–

Connector No.	B568
Connector Name	SLIDING SENSOR (PASSENGER SIDE)
Connector Type	6098-0241

H.S.

24 31 16

Terminal No.	Color of Wire	Signal Name [Specification]
16	O	–
24	R	–
31	GR	–

Connector No.	B569
Connector Name	LIFTING MOTOR (FRONT) (PASSENGER SIDE)
Connector Type	NS02FW-CS

H.S.

28 13

Terminal No.	Color of Wire	Signal Name [Specification]
13	LG/R	–
28	W/B	–

Connector No.	B570
Connector Name	LIFTING MOTOR (REAR) (PASSENGER SIDE)
Connector Type	NS02FW-CS

H.S.

29 14

Terminal No.	Color of Wire	Signal Name [Specification]
14	G/B	–
29	P/L	–

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

H.S.

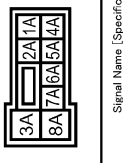
Terminal No.	Color of Wire	Signal Name [Specification]
91	W	–

JCJWA0130GB

POWER SEAT FOR PASSENGER SIDE

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS06FW-M2

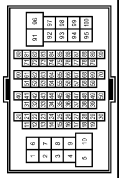
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
7A	R	–

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

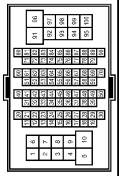
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
91	W	–

Connector No.	M117
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
4	O	–
95	Y	–

Connector No.	M118
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	M03FB-LC

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	W	BAT (F/L)
2	Y	POWER WINDOW POWER SUPPLY(BAT)

Connector No.	M119
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS16FW-CS

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
11	R	BAT (FUSE)
13	B	GND

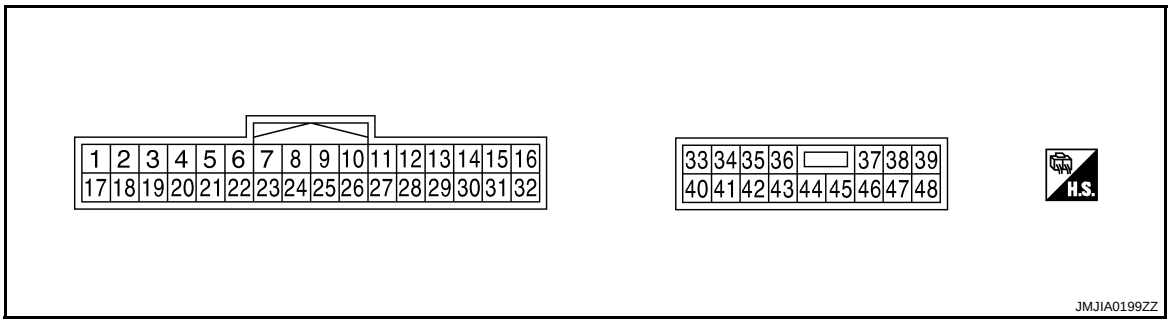
JCJWA0131GB

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

Reference Value

INFOID:0000000001879564

TERMINAL LAYOUT



PHYSICAL VALUES

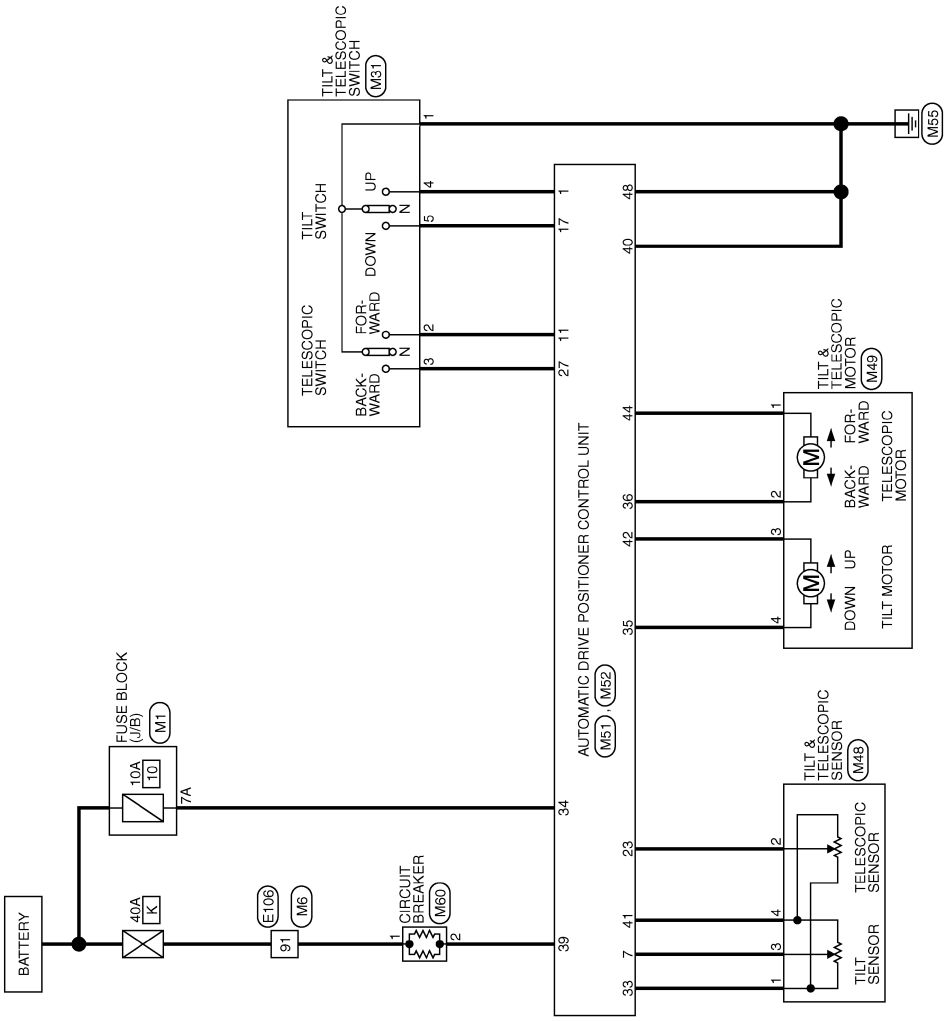
Terminal No.		Wire color	Description		Condition		Voltage (V) (Approx.)
+	-		Signal name	Input/ Output			
1	Ground	Y	Tilt switch upward signal	Input	Tilt switch	Operate (upward)	0
						Other than above	5
7	Ground	O	Tilt sensor signal	Input	Tilt position		Change between 1.2 (close to top) 3.4 (close to bottom)
11	Ground	GR	Telescopic switch forward signal	Input	Telescopic switch	Operate (forward)	0
						Other than above	5
17	Ground	BR	Tilt switch downward signal	Input	Tilt switch	Operate (downward)	0
						Other than above	5
23	Ground	P	Telescopic sensor signal	Input	Telescopic position		Change between 0.8 (close to top) 3.4 (close to bottom)
27	Ground	G	Telescopic switch backward signal	Input	Telescopic switch	Operate (backward)	0
						Other than above	5
33	Ground	W	Sensor power supply	Input	—		5
34	Ground	V	Power source (Fuse)	Input	—		Battery voltage
35	Ground	L	Tilt motor upward output	Output	Steering tilt	Operate (upward)	Battery voltage
						Other than above	0
36	Ground	GR	Telescopic motor forward output signal	Output	Steering telescopic	Operate (forward)	Battery voltage
						Other than above	0
39	Ground	W	Power source (C/B)	Input	—		Battery voltage

Terminal No.		Wire color	Description		Condition		Voltage (V) (Approx.)
+	-		Signal name	Input/ Output			
40	Ground	B	Ground	—	—		0
41	Ground	Y	Sensor ground	—	—		0
42	Ground	O	Tilt motor downward output	Output	Steering tilt	Operate (downward)	Battery voltage
						Other than above	0
44	Ground	G	Telescopic motor backward output	Output	Steering telescopic	Operate (backward)	Battery voltage
						Other than above	0
48	Ground	B	Ground	—	—		0

Wiring Diagram - TILT AND TELESCOPIC CONTROL SYSTEM -

INFOID:0000000001694147

TILT & TELESCOPIC SYSTEM (WITHOUT AUTOMATIC DRIVE POSITIONER)



2007/05/18

JCJWA0132GB

TILT & TELESCOPIC SYSTEM (WITHOUT AUTOMATIC DRIVE POSITIONER)

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

Terminal No.	Color of Wire	Signal Name [Specification]
91	W	–

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS06FW-M2

Terminal No.	Color of Wire	Signal Name [Specification]
7A	R	–

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

Terminal No.	Color of Wire	Signal Name [Specification]
91	W	–

Connector No.	M31
Connector Name	TILT & TELESCOPIC SWITCH
Connector Type	TK06FGY

Terminal No.	Color of Wire	Signal Name [Specification]
1	B	–
2	GR	–
3	G	–
4	Y	–
5	BR	–

Connector No.	M48
Connector Name	TILT & TELESCOPIC SENSOR
Connector Type	TK04FW

Terminal No.	Color of Wire	Signal Name [Specification]
1	W	–
2	P	–
3	O	–
4	Y	–

Connector No.	M49
Connector Name	TILT & TELESCOPIC MOTOR
Connector Type	NS04FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
1	G	–
2	GR	–
3	O	–
4	L	–

Connector No.	M51
Connector Name	AUTOMATIC DRIVE POSITIONER CONTROL UNIT
Connector Type	TH32FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	TILT SW (UPWARD)
7	O	TILT SENSOR
11	GR	TELESCOPIC SW (FRONTWARD)
17	BR	TILT SW (DOWNWARD)
23	P	TELESCOPIC SENSOR
27	G	TELESCOPIC SW (BACKWARD)

Connector No.	M52
Connector Name	AUTOMATIC DRIVE POSITIONER CONTROL UNIT
Connector Type	NS16FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
33	W	POWER SUPPLY (SENSOR)
34	V	BAT (FUSE)
35	L	TILT MOTOR (UPWARD)
36	GR	TELESCOPIC MOTOR (FORWARD)
39	W	BAT (C/B)
40	B	GND(SIGNAL)
41	Y	GND(SENSOR)
42	O	TILT MOTOR (DOWNWARD)
44	G	TELESCOPIC MOTOR (BACKWARD)
48	B	GND(POWER)

JCJWA0133GB

TILT & TELESCOPIC SYSTEM (WITHOUT AUTOMATIC DRIVE POSITIONER)

Connector No.	M60
Connector Name	CIRCUIT BREAKER
Connector Type	M02FW-LC

Terminal No.	Color of Wire	Signal Name [Specification]
1	W	–
2	P	–

JCJWA0134GB

SYMPTOM DIAGNOSIS

SEAT SYSTEM AND STEERING POSITION SYSTEM

DRIVER SIDE

DRIVER SIDE : Symptom Table

INFOID:0000000001871836

The diagnostics item numbers show the sequence for inspection. Inspection in order from item 1.

Order	Function	Operation procedure	Symptom	Diagnostic item	Reference page
1	Manual function	Perform manual function (Refer to SE-8).	Driver seat power seat do not operate.	—	SE-127
			Manual function does not operate. (for specific part)	Sliding	SE-128
				Reclining	SE-131
				Lifting (front)	SE-133
				Lifting (rear)	SE-133
2	Power walk-in function	Perform power walk-in function (Refer to SE-10).	Power walk-in function does not operate.	—	SE-135

PASSENGER SIDE

PASSENGER SIDE : Symptom Table

INFOID:0000000001871837

The diagnostics item numbers show the sequence for inspection. Inspection in order from item 1.

Order	Function	Operation procedure	Symptom	Diagnostic item	Reference page
1	Manual function	Perform manual function (Refer to SE-15).	Passenger side power seat do not operate.	—	SE-127
			Manual function or memory function does not operate. (for specific part)	Sliding	SE-129
				Sliding [With sliding switch (seat back)]	SE-130
				Reclining	SE-131
				Lifting (front)	SE-133
				Lifting (rear)	SE-133
2	Power walk-in function	Perform power walk-in function (Refer to SE-17).	Power walk-in function does not operate.	—	SE-136

TILT FUNCTION DOES NOT OPERATE

TILT FUNCTION DOES NOT OPERATE : Symptom Table

INFOID:0000000001871838

The diagnostics item numbers show the sequence for inspection. Inspection in order from item 1.

Order	Function	Operation procedure	Symptom	Diagnostic item	Reference page
1	Manual function	Perform manual function (Refer to SE-21).	Tilt or telescopic operation does not operate. (for specific part)	Steering tilt	SE-139
				Steering telescopic	SE-140
2			All components of steering position function do not operate.	—	SE-138

EITHER DRIVER SEAT OR PASSENGER POWER SEAT DOES NOT OPERATE

DRIVER SIDE

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000001872662

1.CHECK DRIVER SEAT CONTROL UNIT POWER SUPPLY CIRCUIT

Check driver seat control unit power supply circuit.
Refer to SE-31, "DRIVER SEAT CONTROL UNIT : Diagnosis Procedure".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> Repair or replace the malfunctioning parts.

PASSENGER SIDE

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000001872663

1.CHECK PASSENGER SEAT CONTROL UNIT POWER SUPPLY CIRCUIT

Check passenger seat control unit power supply circuit.
Refer to SE-32, "PASSENGER SEAT CONTROL UNIT : Diagnosis Procedure".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> Repair or replace the malfunctioning parts.

SLIDING FUNCTION DOES NOT OPERATE
DRIVER SIDE
DRIVER SIDE : Diagnosis Procedure

INFOID:0000000001872649

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 malfunction parts.

2.CHECK SLIDING OPERATION

Check sliding operation.
Refer to SE-8, "POWER SEAT FUNCTION : System Description".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> GO TO 3.

3.CHECK SLIDING SWITCH

Check sliding switch.
Refer to SE-34, "DRIVER SIDE : Component Function Check".

Is the inspection result normal?

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

4.CHECK SLIDING RELAY

Check sliding relay.
Refer to SE-81, "FORWARD : Diagnosis Procedure". (Forward)
Refer to SE-84, "BACKWARD : Diagnosis Procedure". (Backward)

Is the inspection result normal?

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

5.CHECK SLIDING MOTOR

Check sliding motor.
Refer to SE-70, "DRIVER SIDE : Component Function Check".

Is the inspection result normal?

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

6.CHECK SLIDING SENSOR

Check sliding sensor.
Refer to SE-64, "DRIVER SIDE : Component Function Check".

Is the inspection result normal?

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

7.CONFIRM THE OPERATION

Check the operation again.
Refer to SE-8, "POWER SEAT FUNCTION : System Description".

Is the result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> Replace driver seat control unit. Refer to SE-164, "Removal and Installation".

PASSENGER SIDE

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000001874419

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 malfunction parts.

2.CHECK SLIDING OPERATION

Check sliding operation.
Refer to SE-15, "POWER SEAT FUNCTION : System Description".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> GO TO 3.

3.CHECK SLIDING SWITCH

Check sliding switch.
Refer to SE-36, "PASSENGER SIDE : Component Function Check".

Is the inspection result normal?

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

4.CHECK SLIDING RELAY

Check sliding relay.
Refer to SE-81, "FORWARD : Diagnosis Procedure". (Forward)
Refer to SE-84, "BACKWARD : Diagnosis Procedure". (Backward)

Is the inspection result normal?

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

5.CHECK SLIDING MOTOR

Check sliding motor.
Refer to SE-71, "PASSENGER SIDE : Component Function Check".

Is the inspection result normal?

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

6.CHECK SLIDING SENSOR

Check sliding sensor.
Refer to SE-66, "PASSENGER SIDE : Diagnosis Procedure".

Is the inspection result normal?

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

7.CONFIRM THE OPERATION

Check the operation again.
Refer to SE-15, "POWER SEAT FUNCTION : System Description".

Is the result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> Replace passenger seat control unit. Refer to SE-165, "Removal and Installation".

SEATBACK

SEATBACK : Diagnosis Procedure

INFOID:0000000001877726

1.CHECK SLIDING SWITCH (SEAT BACK)

Check sliding switch.
Refer to SE-36, "PASSENGER SIDE : Component Function Check".

Is the inspection result normal?

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

2.CONFIRM THE OPERATION

Check the operation again.
Refer to SE-15, "POWER SEAT FUNCTION : System Description".

Is the result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> Replace passenger seat control unit. Refer to SE-165, "Removal and Installation".

RECLINING FUNCTION DOES NOT OPERATE

DRIVER SIDE

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000001875007

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 malfunction parts.

2. CHECK RECLINING OPERATION

Check reclining operation.
Refer to SE-8, "POWER SEAT FUNCTION : System Description".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> GO TO 3.

3. CHECK RECLINING SWITCH

Check reclining switch.
Refer to SE-34, "DRIVER SIDE : Component Function Check".

Is the inspection result normal?

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

4. CHECK RECLINING RELAY

Check reclining relay.
Refer to SE-88, "FORWARD : Diagnosis Procedure". (Forward)
Refer to SE-90, "BACKWARD : Diagnosis Procedure". (Backward)

Is the inspection result normal?

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

5. CHECK RECLINING MOTOR

Check reclining motor.
Refer to SE-73, "DRIVER SIDE : Component Function Check".

Is the inspection result normal?

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

6. CONFIRM THE OPERATION

Check the operation again.
Refer to SE-8, "POWER SEAT FUNCTION : System Description".

Is the result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> Replace driver seat control unit. Refer to SE-164, "Removal and Installation".

PASSENGER SIDE

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000001875948

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 malfunction parts.

2. CHECK RECLINING OPERATION

Check reclining operation.
Refer to SE-8, "POWER SEAT FUNCTION : System Description".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> GO TO 3.

3. CHECK RECLINING SWITCH

Check reclining switch.
Refer to SE-36, "PASSENGER SIDE : Component Function Check".

Is the inspection result normal?

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

4. CHECK RECLINING RELAY

Check reclining relay.
Refer to SE-88, "FORWARD : Diagnosis Procedure". (Forward)
Refer to SE-90, "BACKWARD : Diagnosis Procedure". (Backward)

Is the inspection result normal?

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

5. CHECK RECLINING MOTOR

Check reclining motor.
Refer to SE-74, "PASSENGER SIDE : Component Function Check".

Is the inspection result normal?

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

6. CONFIRM THE OPERATION

Check the operation again.
Refer to SE-8, "POWER SEAT FUNCTION : System Description".

Is the result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> Replace passenger seat control unit. Refer to SE-165, "Removal and Installation".

LIFTING FUNCTION DOES NOT OPERATE

FRONT

FRONT : Diagnosis Procedure

INFOID:0000000001872657

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 malfunction parts.

2. CHECK LIFTING OPERATION

Check lifting operation.
Refer to SE-81, "FORWARD : Diagnosis Procedure".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> GO TO 3.

3. CHECK LIFTING SWITCH

Check lifting switch.
Refer to SE-76, "FRONT : Component Function Check".

Is the inspection result normal?

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

4. CHECK LIFTING MOTOR

Check lifting motor.
Refer to SE-76, "FRONT : Component Function Check".

Is the inspection result normal?

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

5. CONFIRM THE OPERATION

Check the operation again.
Refer to SE-8, "POWER SEAT FUNCTION : System Description".

Is the result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> Replace driver seat control unit. Refer to SE-164, "Removal and Installation".

REAR

REAR : Diagnosis Procedure

INFOID:0000000001876365

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 malfunction parts.

2. CHECK LIFTING OPERATION

Check lifting operation.
Refer to SE-81, "FORWARD : Diagnosis Procedure".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> GO TO 3.

3. CHECK LIFTING SWITCH

Check lifting switch.
Refer to SE-76, "FRONT : Component Function Check".

Is the inspection result normal?

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

4. CHECK LIFTING MOTOR

Check lifting motor.
Refer to SE-76, "FRONT : Component Function Check".

Is the inspection result normal?

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

5. CONFIRM THE OPERATION

Check the operation again.
Refer to SE-8, "POWER SEAT FUNCTION : System Description".

Is the result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> Replace driver seat control unit. Refer to SE-164, "Removal and Installation".

POWER WALK-IN FUNCTION DOES NOT OPERATE
DRIVER SIDE

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000001877595

1.CHECK POWER WALK-IN FUNCTION

Check power walk-in function.
Refer to SE-10, "POWER WALK-IN FUNCTION : System Description".

Is the inspection result normal?

YES >> GO TO 6.
NO >> GO TO 2.

2.PERFORM INITIALIZATION PROCEDURE

1. Perform initialization procedure.
   Refer to SE-7, "SYSTEM INITIALIZATION : Special Repair Requirement".
2. Check power walk-in function.
   Refer to SE-10, "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-54, "DRIVER SIDE : Component Function Check".

Is the inspection result normal?

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

4.CHECK SEAT BELT BUCKLE SWITCH

Check seat belt buckle switch.
Refer to SE-46, "DRIVER SIDE : Component Function Check".

Is the inspection result normal?

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

5.CHECK FORWARD SWITCH

Check forward switch.
Refer to SE-42, "DRIVER SIDE : Component Function Check".

Is the inspection result normal?

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

6.CHECK SLIDING LIMIT SWITCH

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

Is the inspection result normal?

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

7.CHECK DRIVER SIDE DOOR SWITCH

Check driver side door switch.
Refer to ADP-89, "DRIVER SIDE : Component Function Check"

Is the inspection result normal?

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

8.CONFIRM THE OPERATION

Check the operation again.
Refer to SE-10, "POWER WALK-IN FUNCTION : System Description".

Is the result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> Replace driver seat control unit. Refer to SE-164, "Removal and Installation".

PASSENGER SIDE

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000001879547

1.CHECK POWER WALK-IN FUNCTION

Check power walk-in function.
Refer to SE-17, "POWER WALK-IN FUNCTION : System Description".

Is the inspection result normal?

YES >> GO TO 6.
NO >> GO TO 2.

2.PERFORM INITIALIZATION PROCEDURE

1. Perform initialization procedure.
   Refer to SE-7, "SYSTEM INITIALIZATION : Special Repair Requirement".
2. Check power walk-in function.
   Refer to SE-17, "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-55, "PASSENGER SIDE : Diagnosis Procedure".

Is the inspection result normal?

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

4.CHECK SEAT BELT BUCKLE SWITCH

Check seat belt buckle switch.
Refer to SE-47, "PASSENGER SIDE : Diagnosis Procedure".

Is the inspection result normal?

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

5.CHECK FORWARD SWITCH

Check forward switch.
Refer to SE-43, "PASSENGER SIDE : Diagnosis Procedure".

Is the inspection result normal?

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

6.CHECK SLIDING LIMIT SWITCH

Check sliding limit switch.
Refer to SE-51, "PASSENGER SIDE : Diagnosis Procedure".

Is the inspection result normal?

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

7.CHECK PASSENGER SIDE DOOR SWITCH

Check passenger side door switch.

Refer to SE-59, "PASSENGER SIDE : Diagnosis Procedure"

Is the inspection result normal?

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

8. CONFIRM THE OPERATION

Check the operation again.
Refer to SE-10, "POWER WALK-IN FUNCTION : System Description".

Is the result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> Replace passenger seat control unit. Refer to SE-165, "Removal and Installation".

STEERING POSITION FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000001694167

1.CHECK AUTOMATIC DRIVE POSITIONER CONTROL UNIT POWER SUPPLY AND GROUND CIRCUIT

Check automatic drive positioner control unit power supply and ground circuit.
Refer to SE-31, "AUTOMATIC DRIVE POSITIONER CONTROL UNIT : Diagnosis Procedure".

Is the inspection result normal?

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

2.CHECK TILT AND TELESCOPIC SWITCH

Check tilt and telescopic switch.
Refer to SE-61, "Component Function Check".

Is the inspection result normal?

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

3.CHECK TILT AND TELESCOPIC SENSOR

Check tilt and telescopic sensor.
Refer to SE-68, "Component Function Check".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> Repair or replace the malfunctioning parts.

TILT FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000001694168

1.CHECK TILT AND TELESCOPIC SWITCH

Check tilt switch.
Refer to SE-61, "Component Function Check".

Is the inspection result normal?

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

2.CHECK TILT AND TELESCOPIC MOTOR

Check tilt motor.
Refer to SE-79, "Component Function Check".

Is the inspection result normal?

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

3.CHECK TILT AND TELESCOPIC SENSOR

Check tilt sensor.
Refer to SE-68, "Component Function Check".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> Repair or replace the malfunctioning parts.

TELESCOPIC FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000001694169

1.CHECK TILT AND TELESCOPIC SWITCH

Check telescopic switch.
Refer to SE-61, "Component Function Check".

Is the inspection result normal?

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

2.CHECK TILT AND TELESCOPIC MOTOR

Check telescopic motor.
Refer to SE-79, "Component Function Check".

Is the inspection result normal?

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

3.CHECK TILT AND TELESCOPIC SENSOR

Check telescopic sensor.
Refer to SE-68, "Component Function Check".

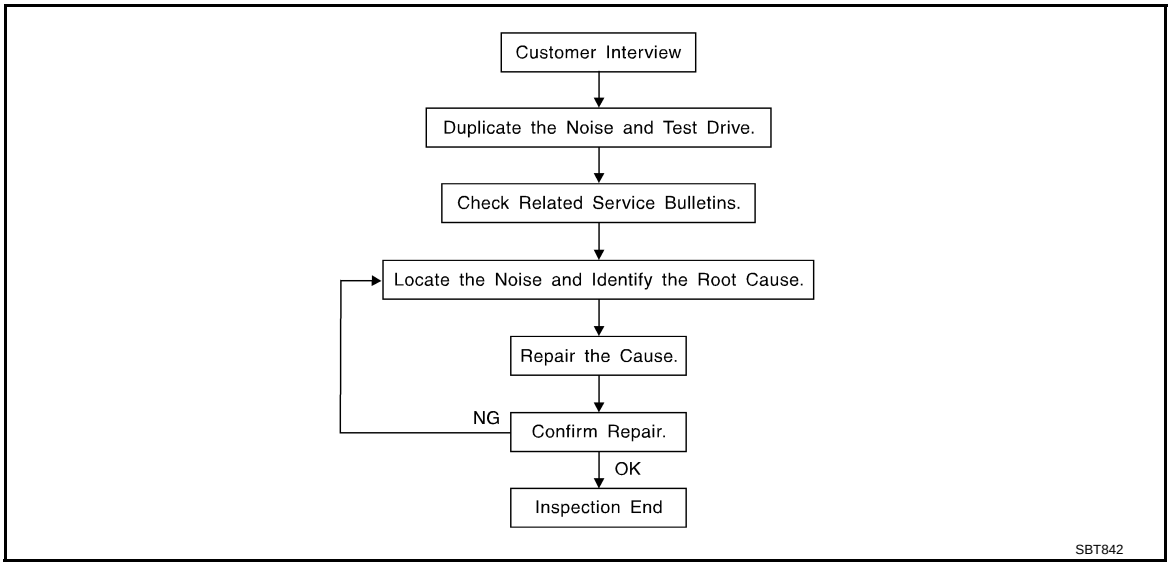
Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> Repair or replace the malfunctioning parts.

SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow

INFOID:0000000001694172



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-145, "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 you 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 you confirm the repair.

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 you suspect the noise is coming from.
  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 you suspect is causing 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 with your hand by touching the component(s) that you suspect is (are) causing the noise.
- placing a piece of paper between components that you suspect are causing the noise.
- looking for loose components and contact marks.
  Refer to SE-143, "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 your authorized Nissan Parts Department.

CAUTION:
Do not 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 will be visible or not fit. Will only last a few months.
SILICONE SPRAY
Use when grease cannot be applied.
DUCT TAPE
Use 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:0000000001694173

Refer to Table of Contents for specific component removal and installationinformation.

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:
   Do not use silicone spray to isolate a squeak or rattle. If you saturatethe area with silicone, you will not be able to recheck the repair.

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 thecenter console.

DOORS

Pay attention to the:

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 startsand stops

Tapping or moving the components or pressing on them while driving to duplicate the conditions can isolate many of these incidents. You can usually insulate the areas 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 intothe trunk by the owner.
In addition look for:

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 insulatingthe 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 knockingnoise
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 duplicatingthe conditions can isolate most of these incidents. Repairs usually consistof insulating with felt cloth tape.

SEATS

When isolating seat noise it's important to note the position the seatis in and the load placed on the seat when the noise is present. These conditionsshould 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 suspectedcomponents while duplicating the conditions under which the noise occurs.Most of these incidents can be repaired by repositioning the component orapplying urethane tape to the contact area.

UNDERHOOD

Some interior noise may be caused by components under the hood or onthe 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

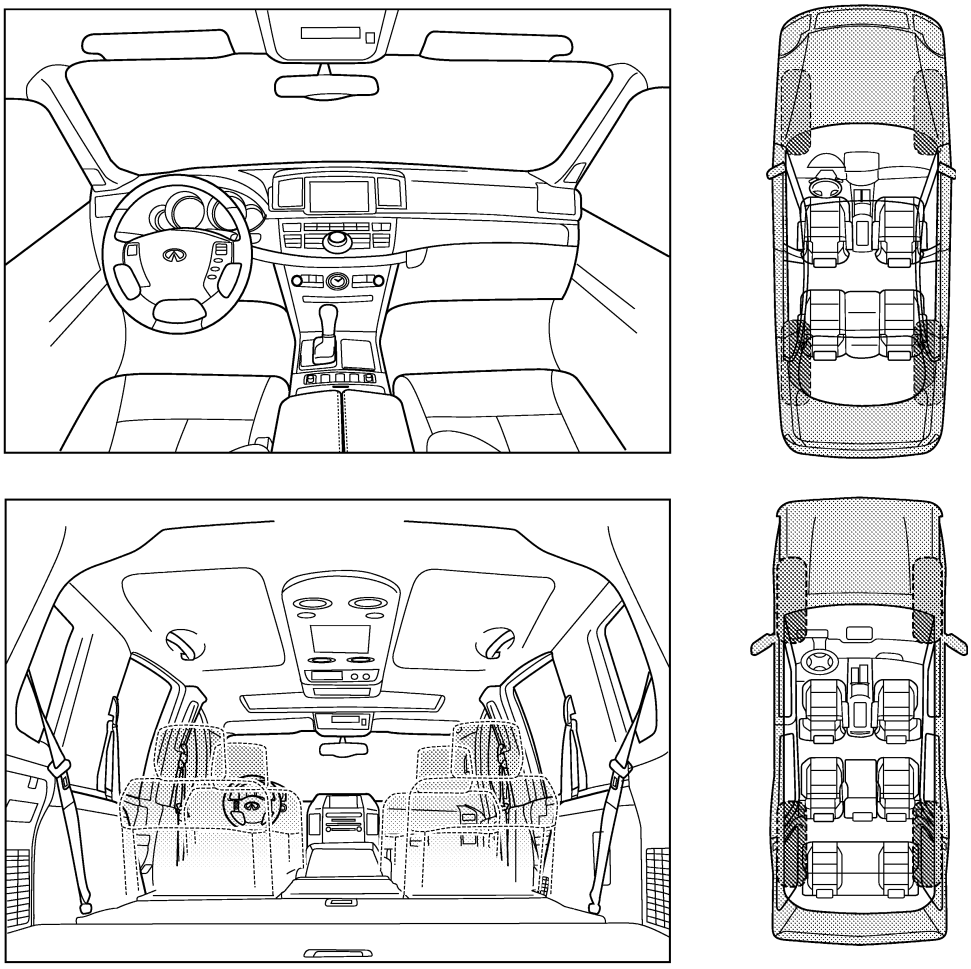
INFOID:0000000001694174

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:0000000001911669

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 AIRBAG” and “SEAT BELT” of this Service Manual.

WARNING:

- **To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.**
- **Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the “SRS AIRBAG”.**
- **Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.**

Service Notice

INFOID:0000000001694176

- 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:0000000001694177

- 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.

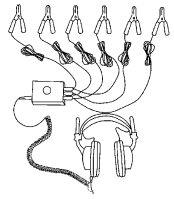
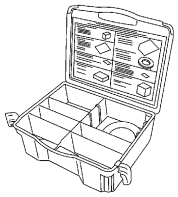
PREPARATION

PREPARATION

Special Service Tool

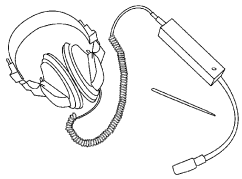
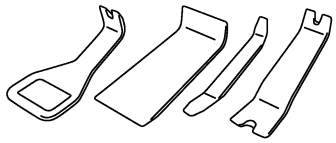
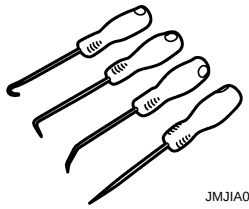
INFOID:0000000001694178

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	Locating the noise
(J43980) NISSAN Squeak and Rattle Kit  SIIA0994E	Repairing the cause of noise

Commercial Service Tool

INFOID:0000000001694179

Tool name	Description
Engine ear  SIIA0995E	Locating the noise
Remover tool  PIIB7923J	Remove the clips, pawls and metal clips
Hook and pick tool  JMJIA0490ZZ	Remove the snap pins

ON-VEHICLE REPAIR

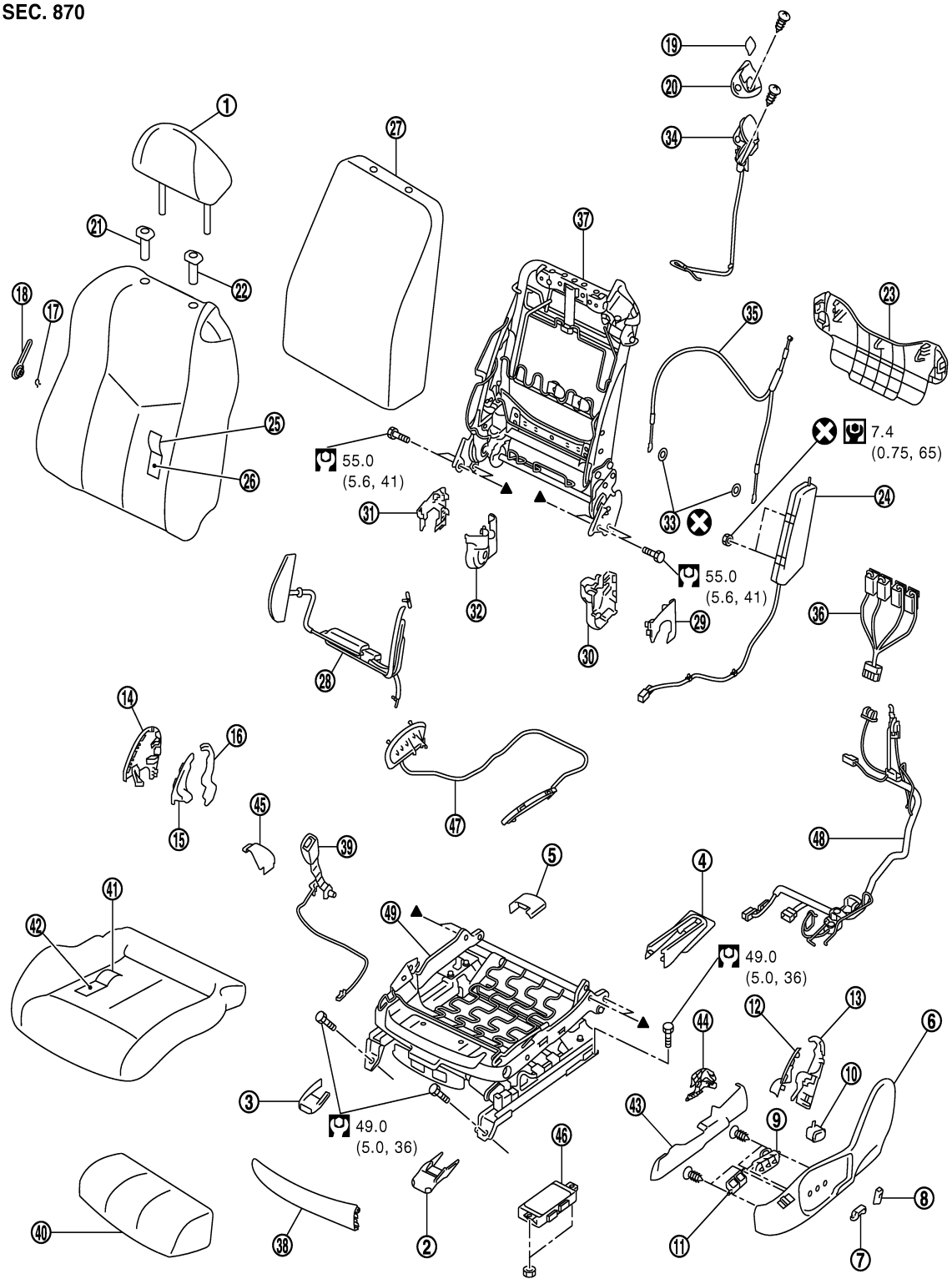
FRONT SEAT

Exploded View

INFOID:0000000001694181

DRIVER'S SEAT

SEC. 870



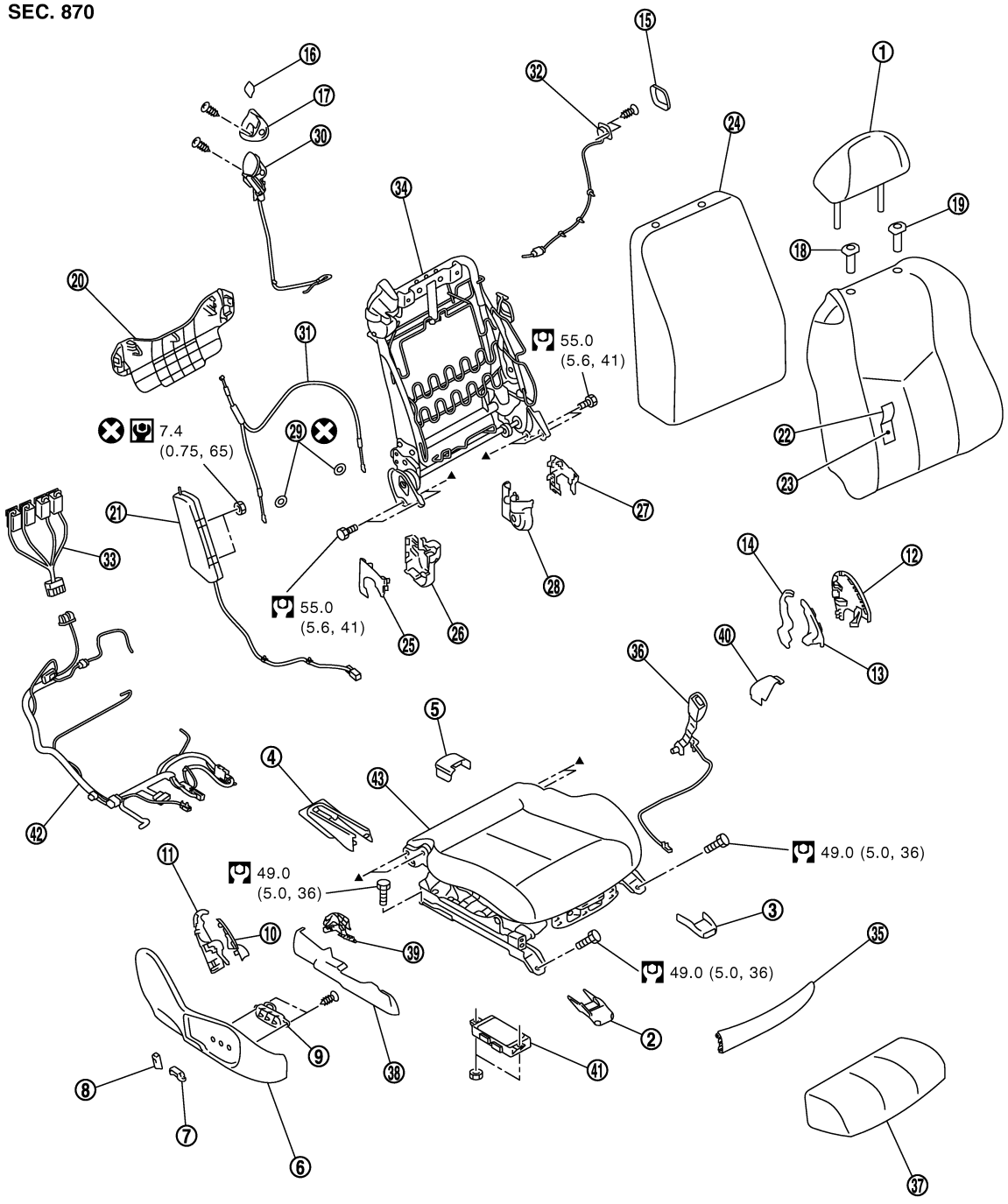
JMJIA1021GB

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:0000000001694182

REMOVAL

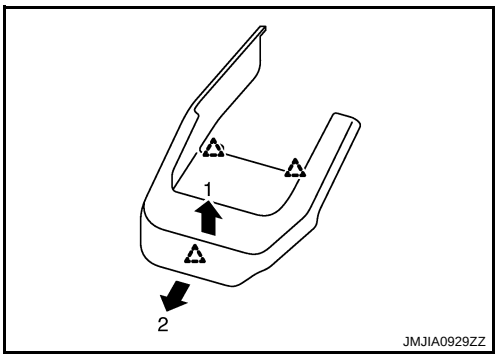
CAUTION:

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

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

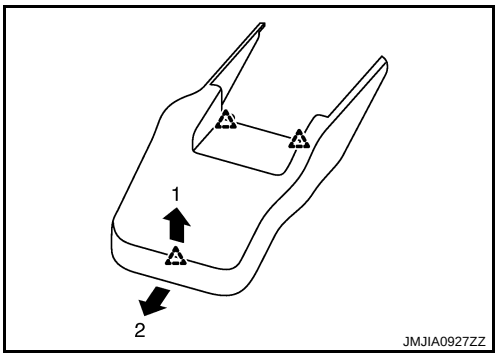
a. Front outer slide cover
- Slide the seat to the rearmost position.
- Pull up the front edge of the front slide cover to release the pawls.
- Slide the front slide cover forward to release the pawls.

: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.

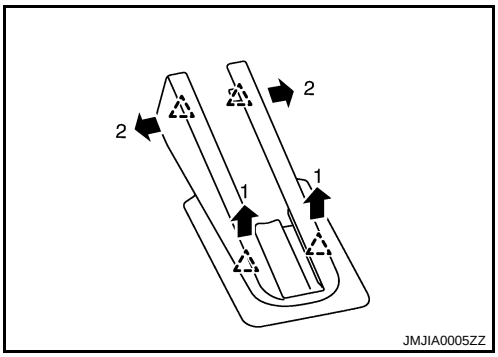
:Pawl



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

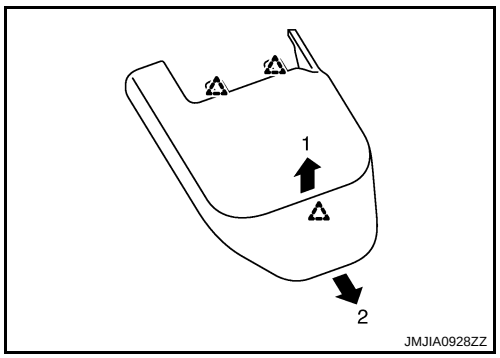
a. Rear outer slide cover
- Slide the seat to the foremost position.
- Pull up the rear edge of the rear outer slide cover to release the pawls.
- Open the front end of the rear outer slide cover to release the pawls.

: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 both battery cables, 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 both battery cables, 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 : Description". (Without automatic drive positioner model) Refer to SE-7, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Description".

Disassembly and Assembly

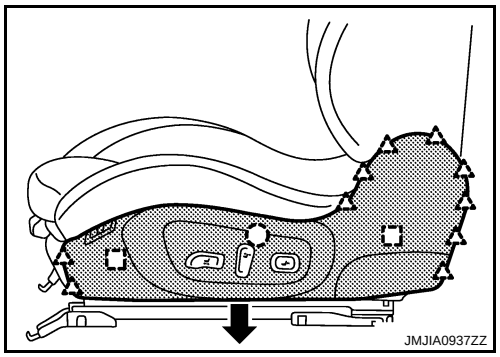
INFOID:0000000001694183

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

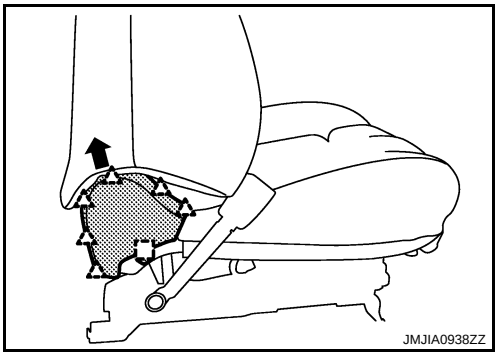


- Disconnect the seat control switch, lumbar support switch and side support switch harness connector.
- Remove the seat cushion outer finisher inside (front, rear).

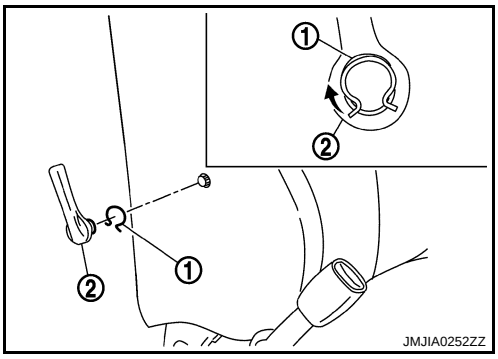
2. Remove the seat cushion inner finisher.
   - Remove the seat cushion inner finisher inside (front, rear) by releasing the metal clip and pull it up together with the cover.
   - Remove the seat cushion inner finisher inside (front, rear) from the seat cushion inner finisher by releasing the pawls.

   : Metal clip

   : Pawl

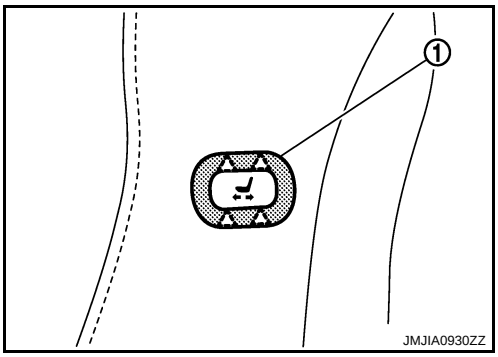


3. Remove the lumbar support lever knob.(Manual lumbar support model only.)
   Pull snap ring (1) upward, and remove lumbar support lever knob (2) from seatback frame.Using a hook and pick tool.



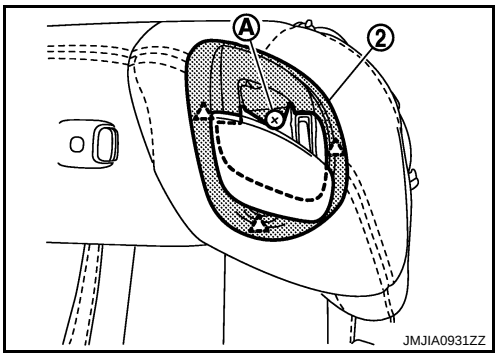
4. Remove the seatback trim and seatback pad.
   - Remove the pawls, and then pull out slide switch escutcheon (1).

   : Pawl

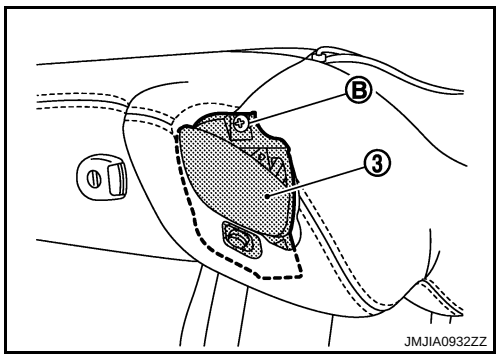


   - Remove the walk-in lever cap.
   - Remove the screw (A) and pawls, and then walk-in lever upper escutcheon (2).

   : Pawl

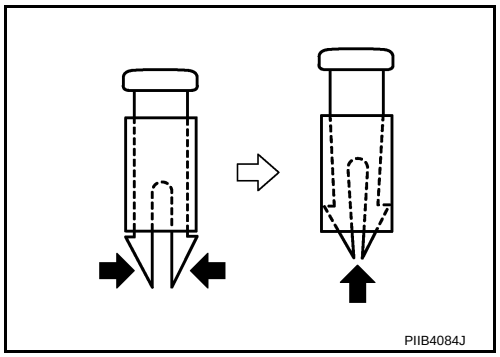


- Remove the screw (B), and then pull the seatback trim from the walk-in lever (3) and walk-in lever lower escutcheon.

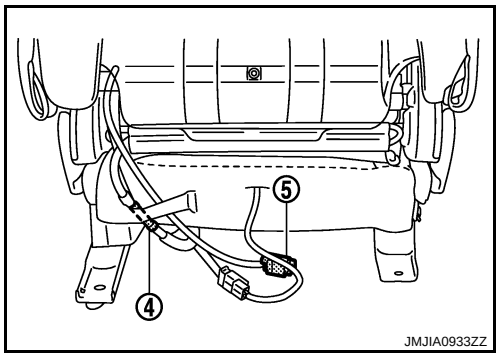


- Remove the seatback retainer, and then open the fastener.
- Remove the headrest holder.

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

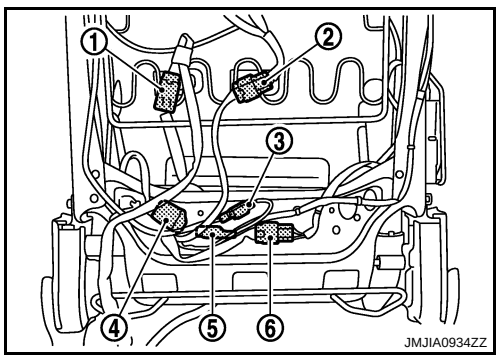


- Remove the seatback lower panel.
- Remove the side air bag module. Refer to .
- Remove the side support hose joint (4) located backside the seat cushion.(Side support model only.)
- Disconnect the seatback heater unit harness connector (5).



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

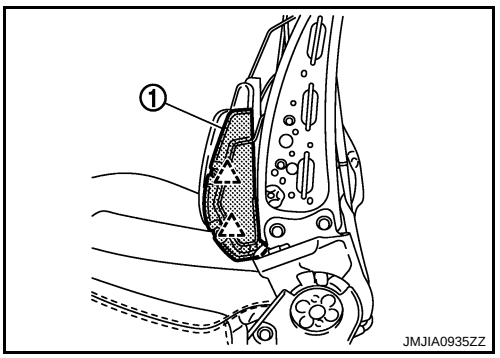
5. Remove the seatback silencer.
6. Disconnect the harness connectors.
   - Disconnect the side support unit harness connector (1) and remove the harness clamp.(Side support model only.)
   - Disconnect the reclining and slide relay harness connector (2) and remove the harness clamp.
   - Disconnect 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)



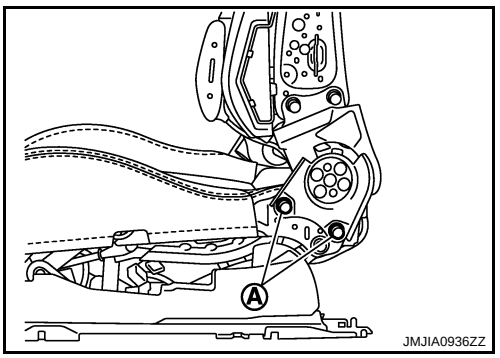
7. Remove the side support bag and unit.(Side support model only.)

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

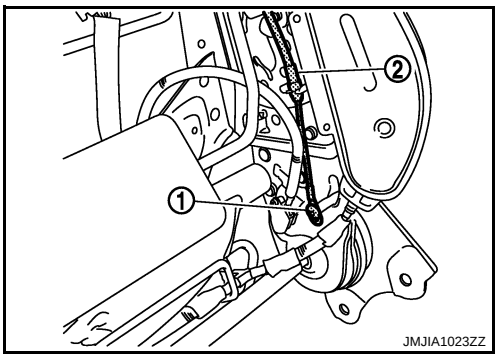
: Pawl



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

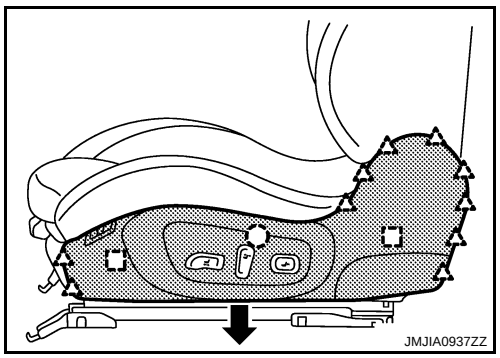
Disassembly

CAUTION:
Do not disassemble front passenger seat cushion assembly.
Always replace as an assembly.
For front passenger seat service parts, refer to the service part catalogue.

1. Remove the seat cushion outer finisher.

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

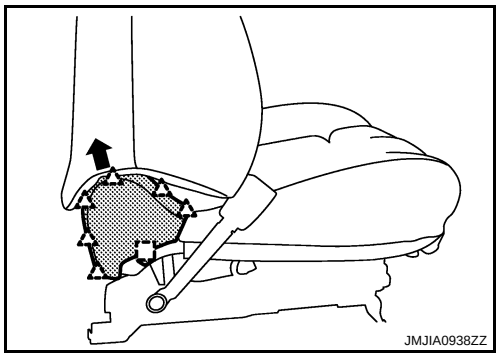
: Clip
: Metal clip
: Pawl



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

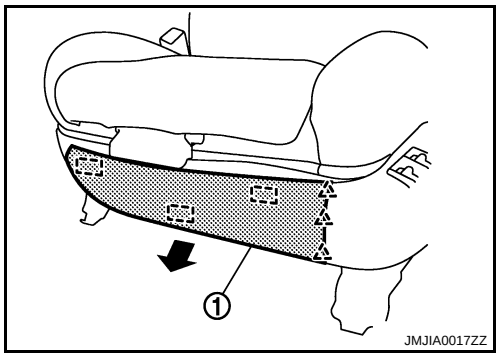
2. Remove the seat cushion inner finisher.
   - Remove the seat cushion inner finisher inside (front, rear) by releasing the metal clip and pull it up together with the cover.
   - Remove the seat cushion inner finisher inside (front, rear) from the seat cushion inner finisher by releasing the pawls.

: Metal clip
: Pawl

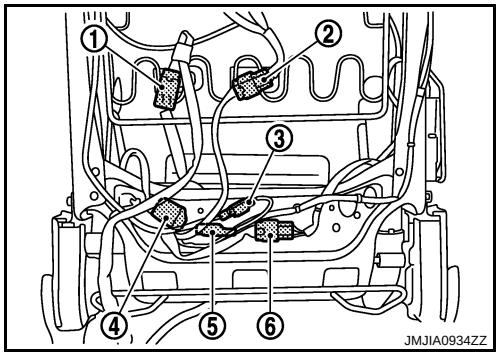


3. Remove the seat cushion front finisher.
   Remove the metal clips, and then pull out seat cushion front finisher (1).

: Metal clip
: Pawl

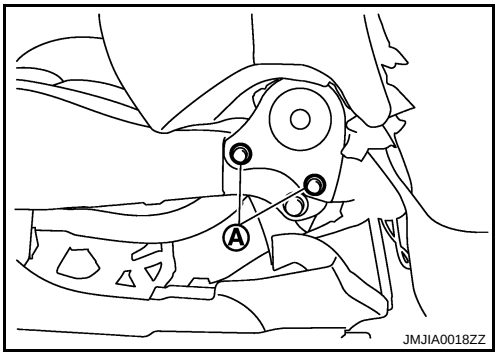


4. Remove the seatback assembly.
   - Remove the seatback lower panel.
   - Disconnect the side support unit harness connector (1) and remove the harness clamp.(Side support model only.)
   - Disconnect the reclining and slide relay harness connector (2) and remove the harness clamp.
   - Disconnect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

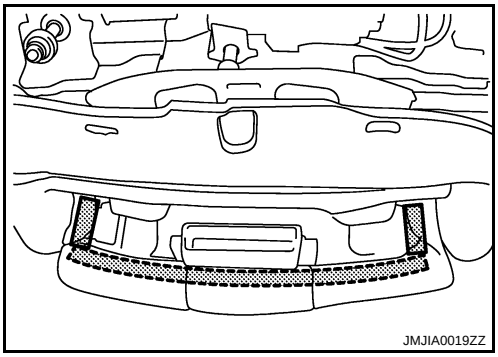


   - Remove the side support hose joint located backside the seat cushion.(Side support model only.)
   - Remove the seat cushion retainer, and then side air bag harness clamp and seatback heater unit harness connector.

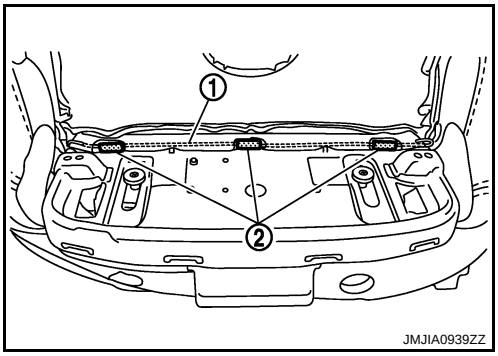
- Remove the seatback mounting bolts (A), and then remove the seatback assembly.



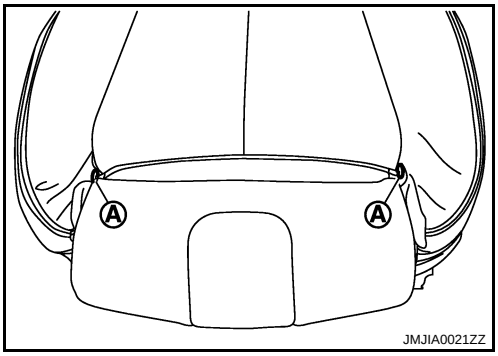
5. Remove the seat cushion pad (front). (Thigh extension model only.)
   - Remove the retainer.
   - Remove the seat cushion pad (front).



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



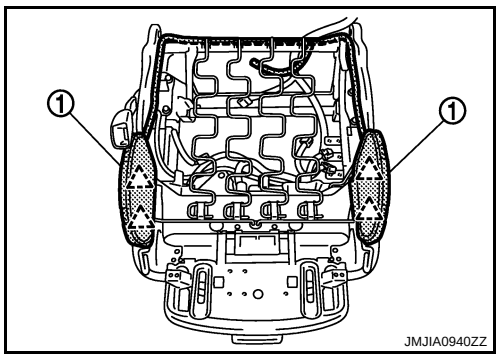
   - Remove the clip (A).(Thigh extension model only.)



   - 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.

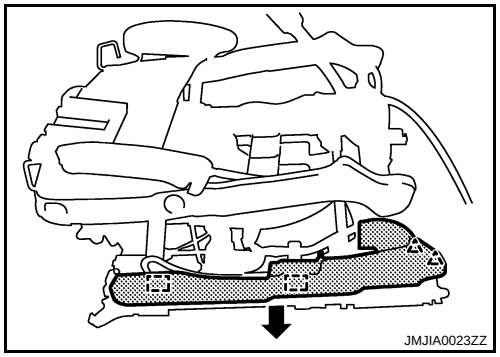
- Remove the pawls, and then remove side support bag (1).

: Pawl



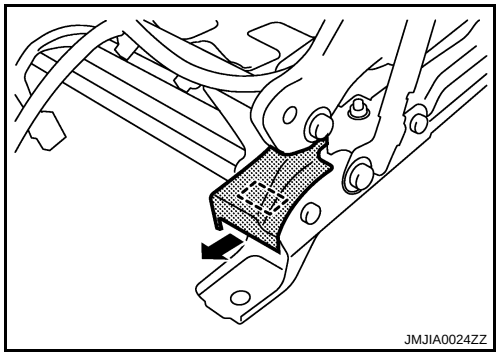
8. Remove the seat slide outer finisher.
   - Remove the metal clip and pawls, and then pull out seat slide outer finisher (outside).
   - Remove the metal clip, and then pull out seat slide outer finisher (inside).

: Metal clip



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

: Metal clip



Assembly

Assemble in the reverse order of disassembly.

CAUTION:

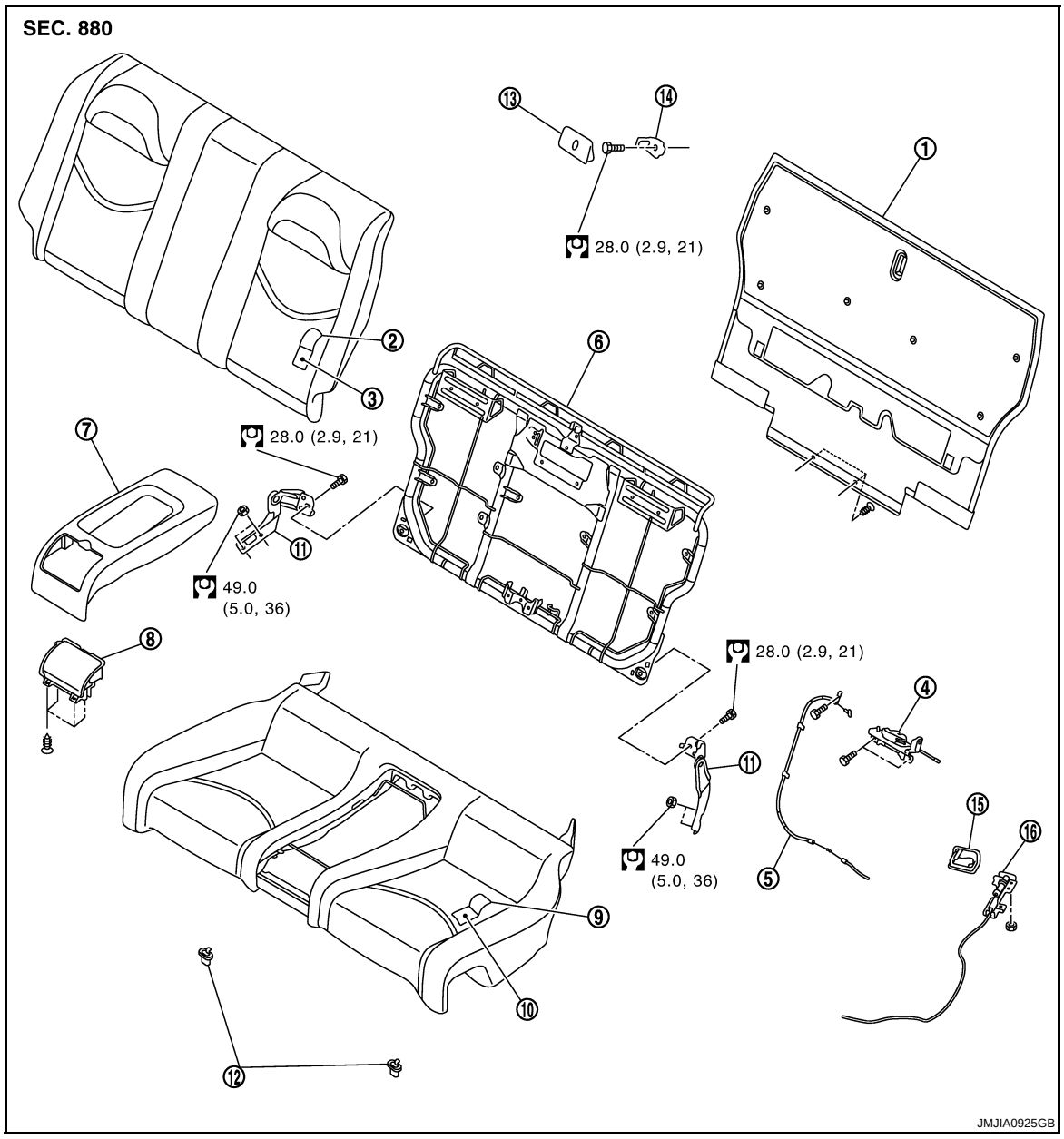
Install the hog rings of seat cushion trim in position, and then securely connect the trim or trim cord with the pad side wire.

REAR SEAT

Exploded View

INFOID:0000000001694184

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

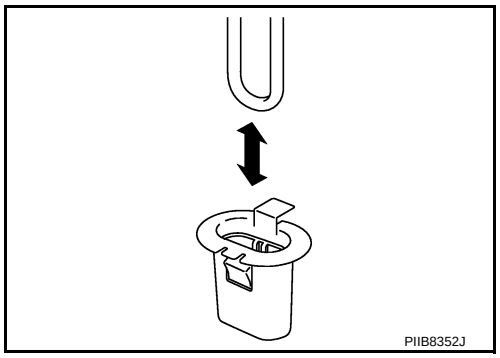
INFOID:0000000001694185

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-163, "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

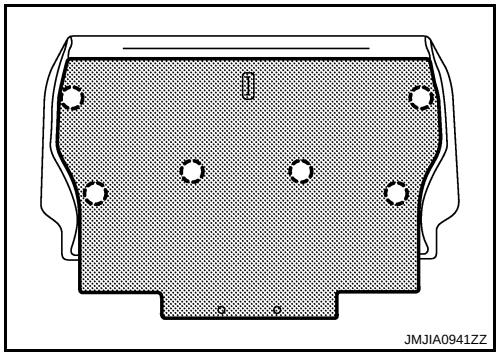
INFOID:0000000001694186

SEATBACK

Disassembly

1. Remove the seatback board.
   Remove the clip.

: 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

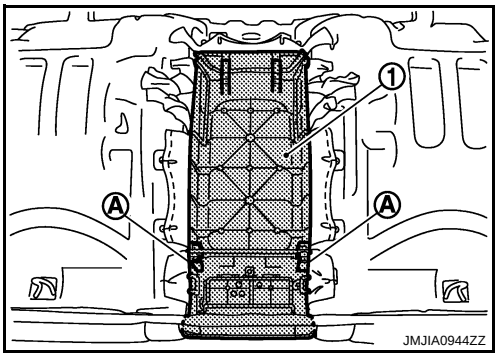
Assemble in the reverse order of disassembly.

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 clip (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:0000000001838109

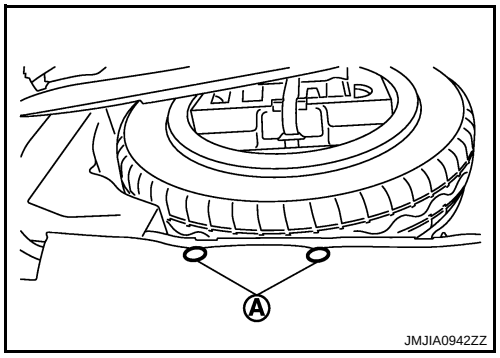
Refer to SE-160, "Exploded View".

Removal and Installation

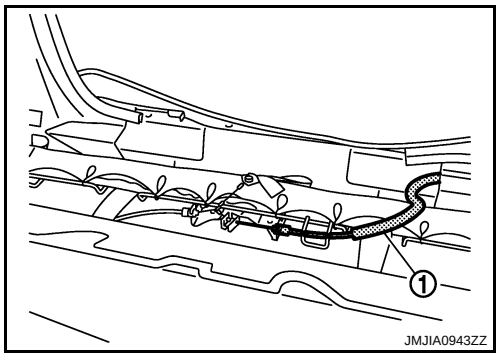
INFOID:0000000001838111

REMOVAL

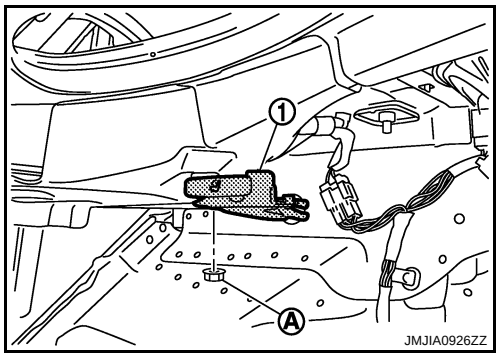
1. Remove the trunk front finisher upper. Refer to INT-27, "Removal and Installation".
2. Remove the seatback control cable.
   - Fold the seatback before.
   - Remove the clip (A), and then pull up the seatback lower part.



   - 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:0000000001694202

Refer to SE-149, "Exploded View".

Removal and Installation

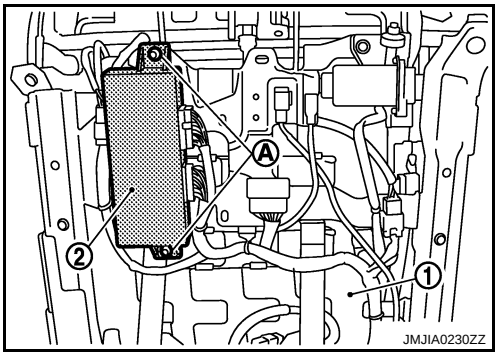
INFOID:0000000001694203

REMOVAL

CAUTION:

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

1. Remove driver seat (1). Refer to SE-152, "Removal and Installation".
2. Remove mounting bolts (A).
3. Remove driver seat control unit (2).



INSTALLATION

Install in the reverse order of removal.

CAUTION:

Be sure to clump the harness to the right place.

NOTE:

After installing the driver seat, perform additional service when replacing control unit. Refer to SE-7, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement".

PASSENGER SEAT CONTROL UNIT

Exploded View

INFOID:0000000001837332

Refer to SE-149, "Exploded View".

Removal and Installation

INFOID:0000000001837333

REMOVAL

CAUTION:

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

NOTE:

The same procedure is also performed for driver side. Refer to SE-165, "Removal and Installation"

INSTALLATION

Install in the reverse order of removal.

CAUTION:

Be sure to clamp the harness to the right place.

NOTE:

After installing the driver seat, perform additional service when replacing control unit. Refer to SE-7, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement".

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

Exploded View

INFOID:0000000001694204

Refer to IP-11, "Exploded View".

Removal and Installation

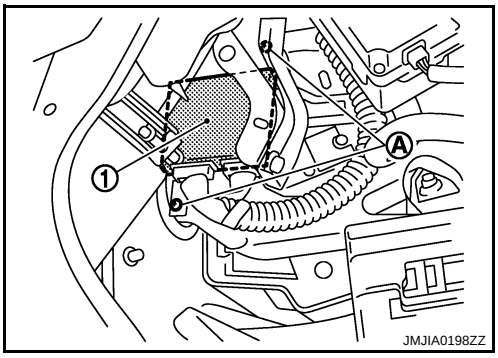
INFOID:0000000001694205

REMOVAL

CAUTION:

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

1. Remove the battery negative terminal.
2. Remove the instrument driver lower panel. Refer to IP-12, "Removal and Installation".
3. Remove the screws (A).
4. Remove automatic drive positioner control unit (1).



INSTALLATION

Install in the reverse order of removal.

CAUTION:

Be sure to clamp the harness to the right place.

POWER SEAT SWITCH

Removal and Installation

INFOID:0000000001694189

REMOVAL

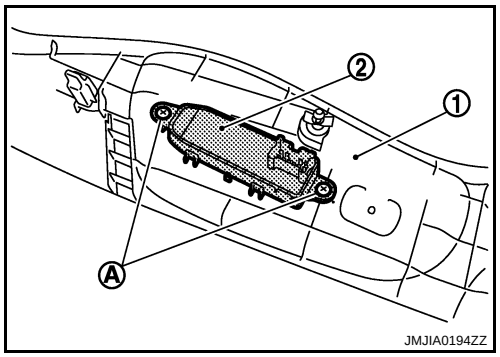
CAUTION:

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

NOTE:

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

1. Remove the seat cushion outer finisher (1). Refer to SE-152, "Removal and Installation".
2. Remove the screws (A).
3. Remove the power seat switch (2) from the seat cushion outer finisher (1).



INSTALLATION

Install in the reverse order of removal.

CAUTION:

Be sure to clamp the harness to the right place.

NOTE:

After installing the driver seat or passenger side, perform additional service when removing battery negative terminal. Refer to SE-7, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement".

SLIDING SWITCH

SEATBACK

SEATBACK : Removal and Installation

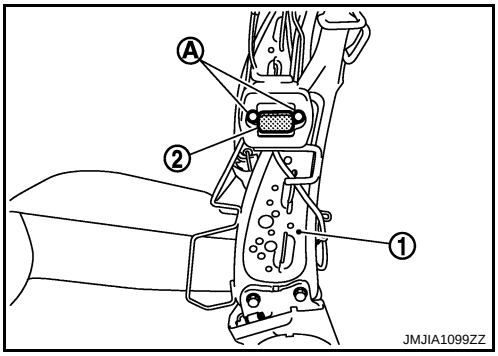
INFOID:0000000001837336

REMOVAL

CAUTION:

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

1. Remove seat back pad. Refer to SE-152, "Removal and Installation".
2. Remove screws (A).
3. Disconnect seat sliding switch (seat back) connector.
4. Remove seat sliding switch (seat back) (2) from seat back frame (1).



INSTALLATION

Install in the reverse order of removal.

CAUTION:

Be sure to clamp the harness to the right place.

NOTE:

After installing the driver seat, perform additional service when removing battery negative terminal. Refer to SE-7, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement".

SIDE SUPPORT SWITCH

Removal and Installation

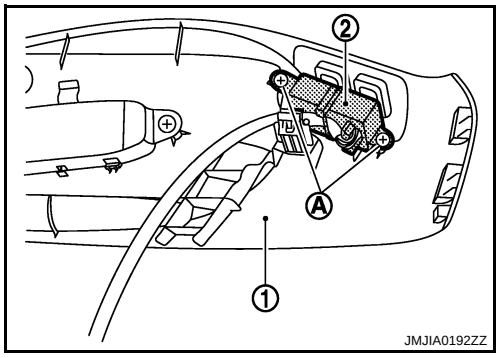
INFOID:0000000001837334

REMOVAL

CAUTION:

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

1. Remove seat cushion outer finisher (1). Refer to SE-152, "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:

Be sure to clamp the harness to the right place.

NOTE:

After installing the driver seat, perform additional service when removing battery negative terminal. Refer to SE-7, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement".

LUMBAR SUPPORT SWITCH

Removal and Installation

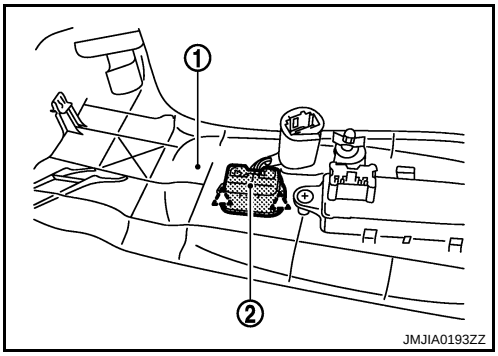
INFOID:0000000001837335

REMOVAL

CAUTION:

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

1. Remove seat cushion outer finisher (1). Refer to SE-152, "Removal and Installation"
2. Remove lumbar support switch (2).



INSTALLATION

Install in the reverse order of removal.

CAUTION:

Be sure to clamp the harness to the right place.

NOTE:

After installing the driver seat, perform additional service when removing battery negative terminal. Refer to SE-7, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement".

TILT&TELESCOPIC SWITCH

Removal and Installation

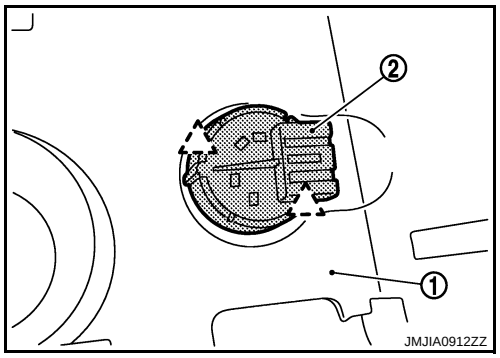
INFOID:0000000001694192

REMOVAL

CAUTION:

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

1. Disconnect battery negative terminal.
2. Remove the steering column mask (1). Refer to IP-12, "Removal and Installation".
3. Press pawls and remove tilt & telescopic switch (2) from the steering column mask (1).



: Pawl

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- **Clamp the harness in position.**

NOTE:

After installing the tilt & telescopic switch, perform additional service when removing battery negative terminal. Refer to SE-7, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement".