SECTION SE
SEAT

CONTENTS

PRECAUTION

PRECAUTIONS

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

INFOID:0000000011620406

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. Information necessary to service the system safely is included in the SR and SB section 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 SR section.**
- **Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.**

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

WARNING:

- **When working near the Airbag Diagnosis Sensor Unit or other Airbag System sensors with the Ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.**
- **When using air or electric power tools or hammers, always switch the Ignition OFF, disconnect the battery and wait at least three minutes before performing any service.**

Precaution for Work

INFOID:0000000011219058

- 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 prevent them from being dropped.
- Replace a deformed or damaged clip.
- If a part is specified as a non-reusable part, always replace it with a new one.
- Be sure to tighten bolts and nuts securely to the specified torque.
- After installation is complete, be sure to check that each part works properly.
- Follow the steps below to clean components:

- Water soluble dirt:

- Dip a soft cloth into lukewarm water, wring the water out of the cloth and wipe the dirty area.
- Then rub with a soft, dry cloth.

- Oily dirt:

- Dip a soft cloth into lukewarm water with mild detergent (concentration: within 2 to 3%) and wipe the dirty area.
- Then dip a cloth into fresh water, wring the water out of the cloth and wipe the detergent off.
- Then rub with a soft, dry cloth.

- Do not use organic solvent such as thinner, benzene, alcohol or gasoline.
- For genuine leather seats, use a genuine leather seat cleaner.

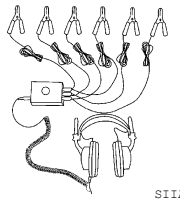
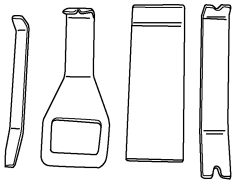
PREPARATION

PREPARATION

Special Service Tool

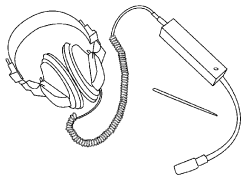
INFOID:0000000011219059

The actual shape of the tools may differ from those illustrated here.

Tool number (TechMate No.) Tool name	Description
— (J-39570) Chassis Ear  SIIA0993E	Locating the noise
— (J-50397) NISSAN Squeak and Rattle Kit  ALJIA1232ZZ	Repairing the cause of noise
— (J-46534) Trim Tool Set  AWJIA0483ZZ	Removing trim components

Commercial Service Tool

INFOID:0000000011219060

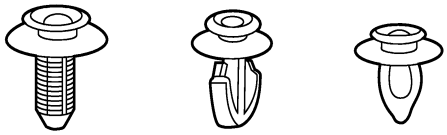
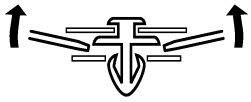
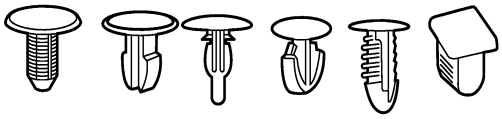
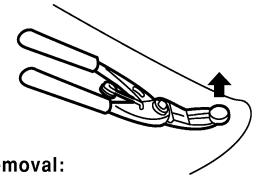
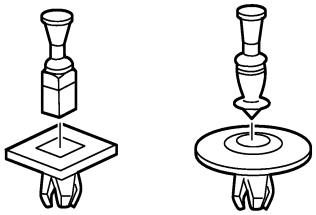
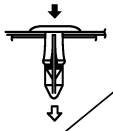
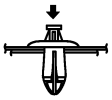
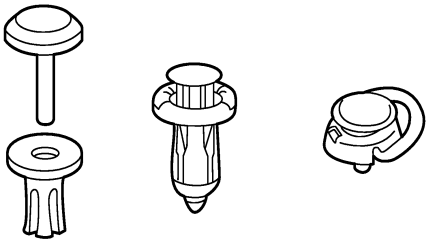
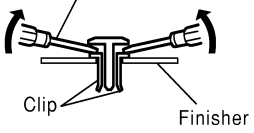
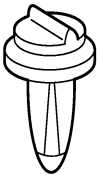
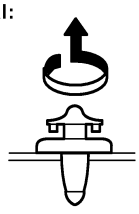
(TechMate No.) Tool name	Description
(J-39565) Engine Ear  SIIA0995E	Locating the noise

CLIP LIST

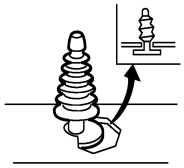
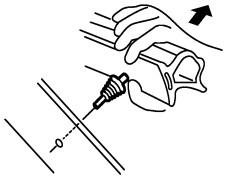
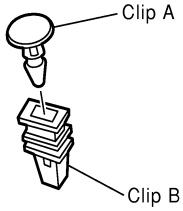
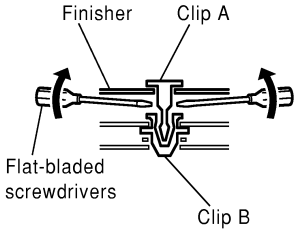
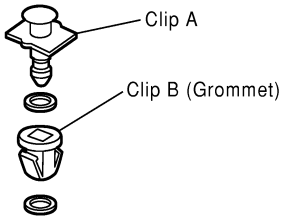
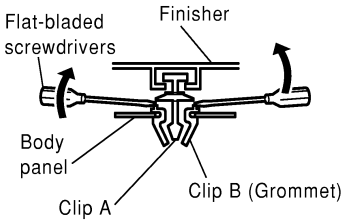
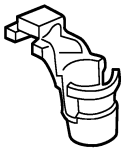
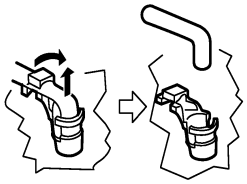
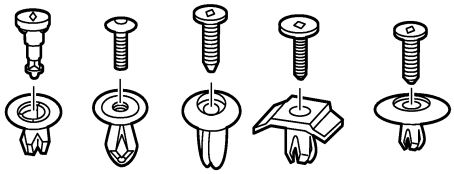
Descriptions for Clips

INFOID:0000000011219061

Replace any clips which are damaged during removal or installation.

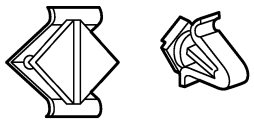
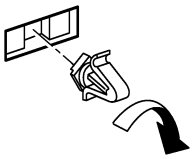
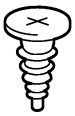
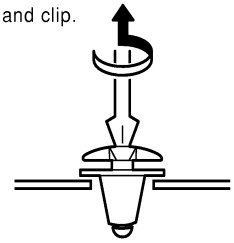
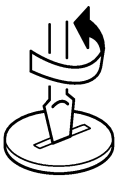
Symbol No.	Shapes	Removal & Installation
C101		**Removal:** Remove by bending up with flat-bladed screwdrivers or clip remover. 
C103		 **Removal:** Remove with a clip remover.
C203		**Removal:** Push center pin to catching position. (Do not remove center pin by hitting it.) Push  Push  **Installation:**
C205		**Removal:** Flat-bladed screwdriver  Clip Finisher
C206		**Removal:** 

SIIA0315E

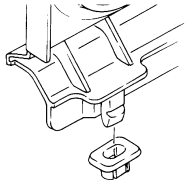
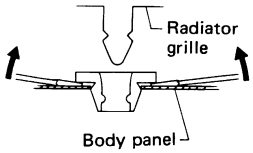
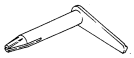
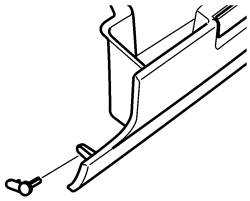
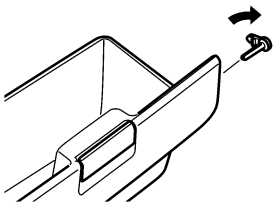
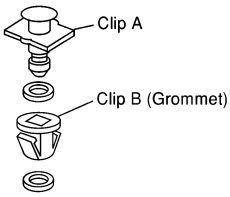
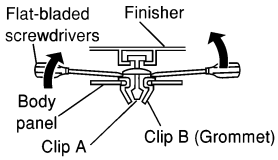
Symbol No.	Shapes	Removal & Installation
CE103 		**Removal:** 
CF110 		**Removal:** 
CF118 		**Removal:** 
CR103		**Removal:** Holder portion of clip must be spread out to remove rod. 
CS101 		**Removal:** 1. Screw out with a Phillips screwdriver. 2. Remove female portion with flat-bladed screwdriver. 

SIIA0316E

CLIP LIST

Symbol No.	Shapes	Removal & Installation
CG101 		**Removal:**  Rotate 45° to remove  **Removal:** **Installation:** 
CS102 		
CS113 		**Removal:** Disconnect upper connection of clip with a flat-bladed screwdriver, then remove clip while inserting a flat-bladed screwdriver between body panel and clip. 
C111 		

SIIA0317E

Symbol No.	Shapes	Removal & Installation
CG104 		**Removal:** **Remove by bending up with flat-bladed screwdrivers.** 
CE114 		
CF118 		**Removal:** 

ALJIA0564GB

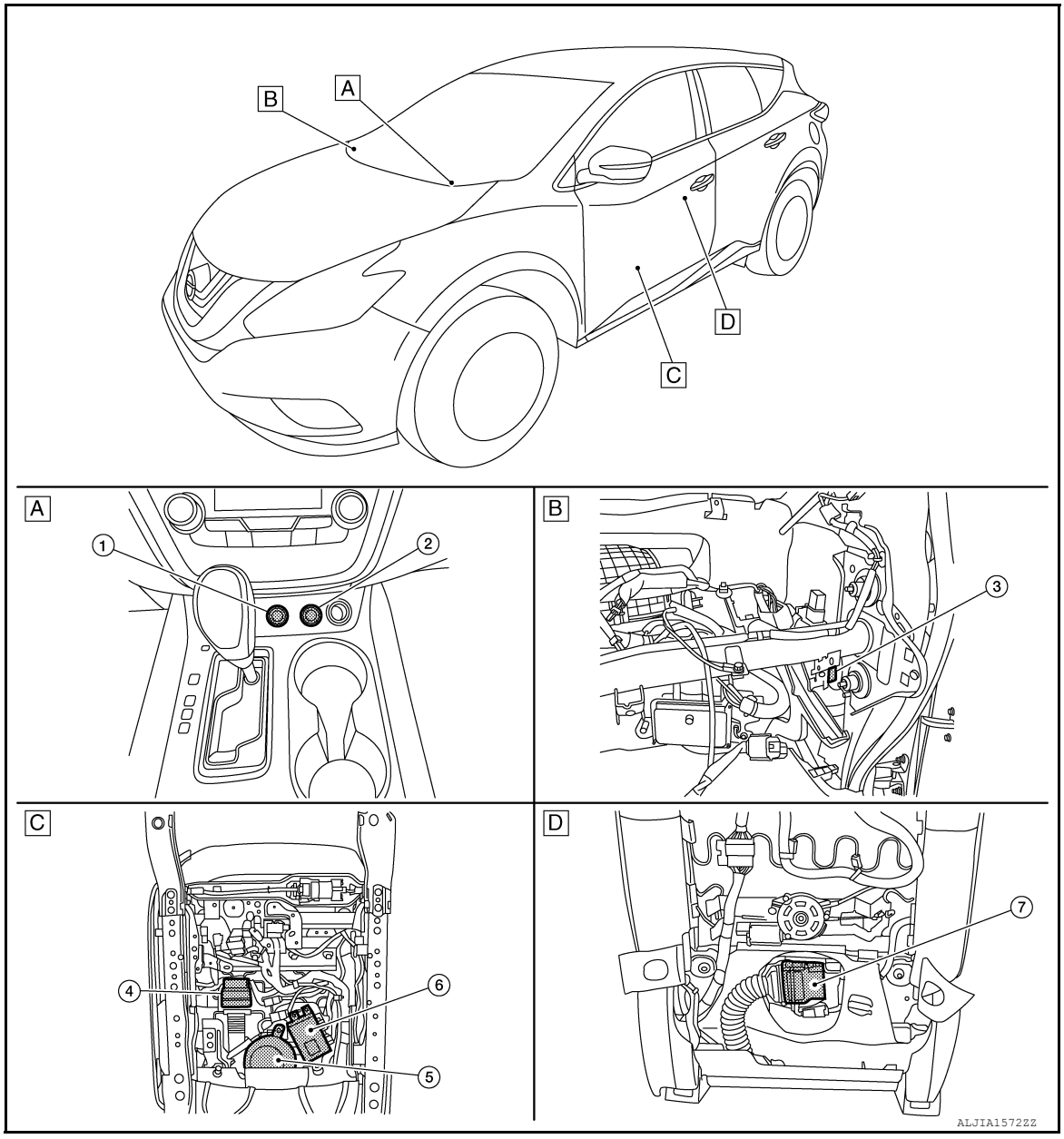
SYSTEM DESCRIPTION

COMPONENT PARTS

CLIMATE CONTROLLED SEAT SYSTEM

CLIMATE CONTROLLED SEAT SYSTEM : Component Parts Location

INFOID:0000000011219062



A. Front of center console

B. Instrument panel RH (view with instrument panel removed)

C. Drivers seat bottom (view with seat removed)

D. Drivers seat back (view with seat removed)

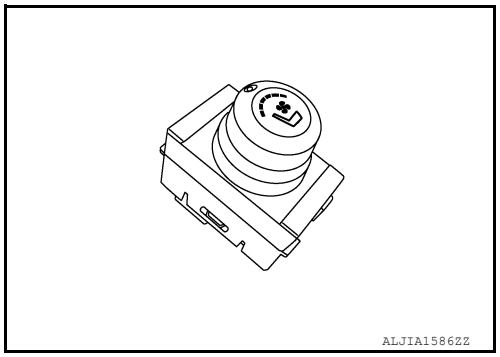
No.	Component	Function
1.	Climate controlled seat switch (driver seat)	Refer to SE-11, "CLIMATE CONTROLLED SEAT SYSTEM : Climate Controlled Seat Switch".
2.	Climate controlled seat switch (passenger seat)	Refer to SE-11, "CLIMATE CONTROLLED SEAT SYSTEM : Climate Controlled Seat Switch".

No.	Component	Function
3.	Climate controlled seat relay	Supplies power to the climate controlled seat control unit in accordance with the key switch position that is ON or OFF
4.	Seat cushion thermal electric device	Refer to SE-11, "CLIMATE CONTROLLED SEAT SYSTEM : Seat Cushion Thermal Electric Device".
5.	Climate controlled seat blower motor	Refer to SE-12, "CLIMATE CONTROLLED SEAT SYSTEM : Climate Controlled Seat Blower Motor".
6.	Climate controlled seat control unit	Refer to SE-12, "CLIMATE CONTROLLED SEAT SYSTEM : Climate Controlled Seat Control Unit".
7.	Seatback thermal electric device	Refer to SE-11, "CLIMATE CONTROLLED SEAT SYSTEM : Seat Back Thermal Electric Device".

CLIMATE CONTROLLED SEAT SYSTEM : Climate Controlled Seat Switch

INFOID:0000000011568219

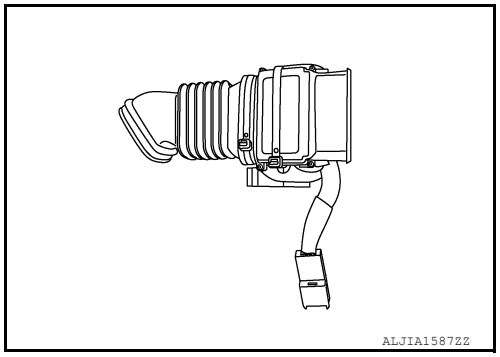
Installed in the center console and transmits signals to climate controlled seat control unit in accordance with the HEAT (heated airflow) or COOL (cooled airflow) switch operation and the temperature switch operation.



CLIMATE CONTROLLED SEAT SYSTEM : Seat Cushion Thermal Electric Device

INFOID:0000000011568220

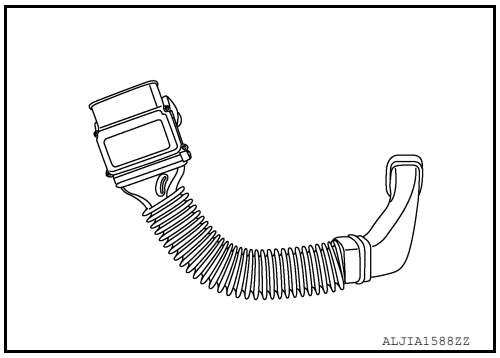
Installed in the seat cushion and heats or cools the airflow from the climate controlled seat blower motor in accordance with the control from the climate controlled seat control unit.



CLIMATE CONTROLLED SEAT SYSTEM : Seat Back Thermal Electric Device

INFOID:0000000011568221

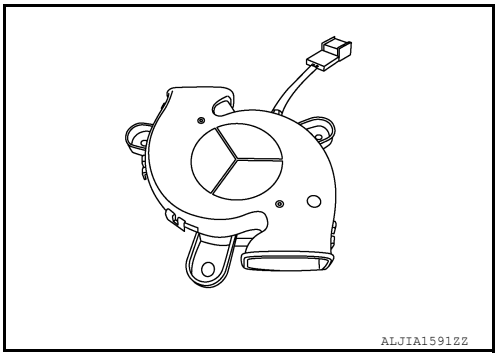
Installed in the seatback and heats or cools the airflow from the climate controlled seat blower motor in accordance with the control from the climate controlled seat control unit.



CLIMATE CONTROLLED SEAT SYSTEM : Climate Controlled Seat Blower Motor

INFOID:0000000011568225

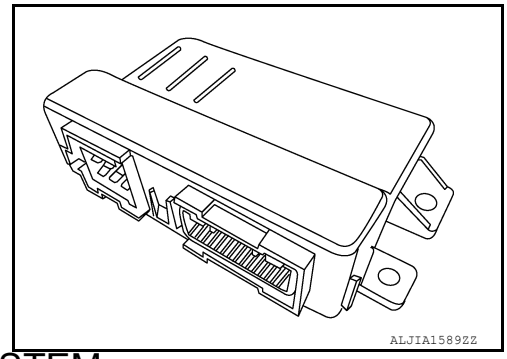
Installed in the seat cushion and sends the airflow to the seatback thermal electric device and seat cushion thermal electric device in accordance with the control from the climate controlled seat control unit.



CLIMATE CONTROLLED SEAT SYSTEM : Climate Controlled Seat Control Unit

INFOID:0000000011568222

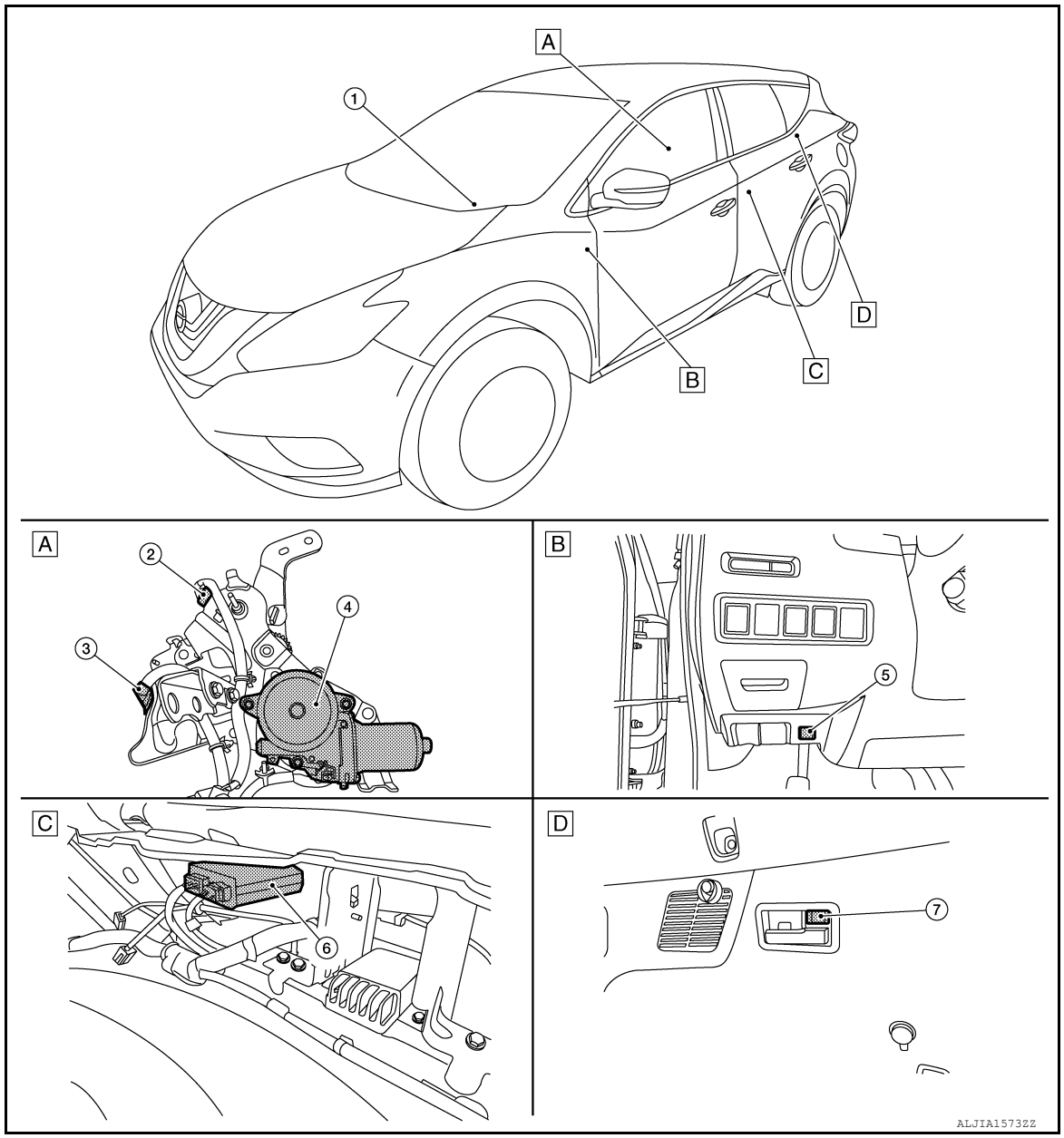
Installed in the seat cushion and controls the climate controlled seat blower motor, seatback thermal electric device, and seat cushion thermal electric device in accordance with the input signal.



SECOND ROW SEATBACK POWER RETURN SYSTEM

SECOND ROW SEATBACK POWER RETURN SYSTEM : Component Parts Location

INFOID:0000000011565243



A. Power return motor assembly (View with assembly removed)
B. Instrument panel LH
C. Luggage room rear (view with floor removed)
D. Luggage room finisher LH

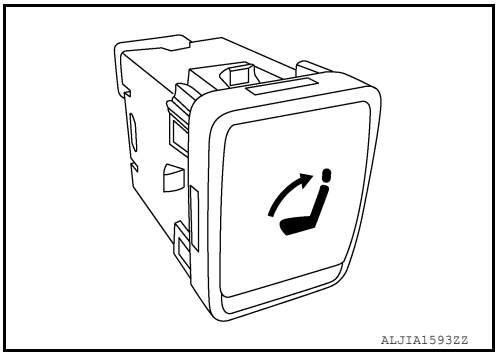
No.	Item	Function
1.	Combination meter	Transmits the vehicle speed signal.
2.	Primary position limit switch	Refer to SE-14, "SECOND ROW SEATBACK POWER RETURN SYSTEM : Primary Position Limit Switch".
3.	Return complete limit switch	Refer to SE-14, "SECOND ROW SEATBACK POWER RETURN SYSTEM : Return Position Limit Switch".
4.	Power return motor	Refer to SE-15, "SECOND ROW SEATBACK POWER RETURN SYSTEM : Power Return Motor Assembly"
5.	Front power return switch	Refer to SE-14, "SECOND ROW SEATBACK POWER RETURN SYSTEM : Front Power Return Switch"

6.	Rear seatback power return control unit	Refer to SE-15, "SECOND ROW SEATBACK POWER RETURN SYSTEM : Rear Seatback Power Return Control Unit".
7.	Rear power return switch	Refer to SE-14, "SECOND ROW SEATBACK POWER RETURN SYSTEM : Rear Power Return Switch".

SECOND ROW SEATBACK POWER RETURN SYSTEM : Front Power Return Switch

INFOID:0000000011568227

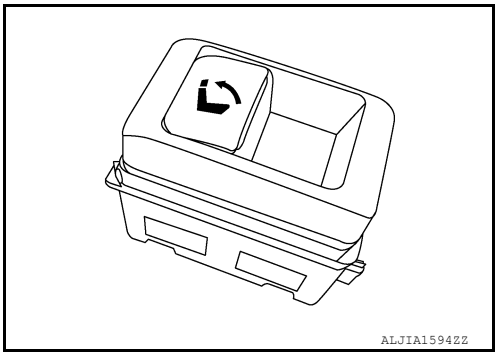
Installed in the instrument panel on the left side. When pressed the rear seatback power return control unit detects the power return ON signal and supplies the power to the power return motors.



SECOND ROW SEATBACK POWER RETURN SYSTEM : Rear Power Return Switch

INFOID:0000000011568228

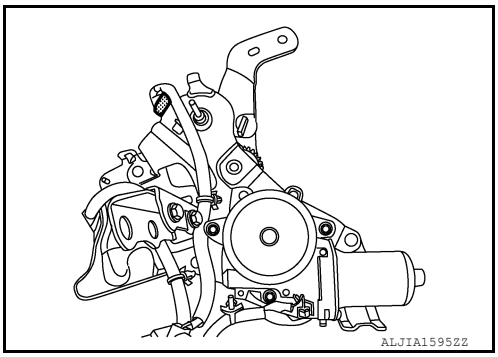
Installed in the rear luggage room. When pressed the rear seatback power return control unit detects the power return ON signal and supplies the power to the power return motor.



SECOND ROW SEATBACK POWER RETURN SYSTEM : Primary Position Limit Switch

INFOID:0000000011568229

Detects the initial position of the sector gear.

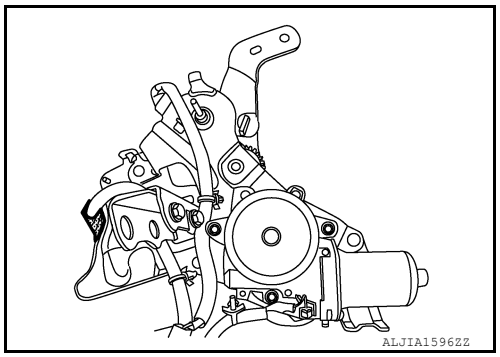


SECOND ROW SEATBACK POWER RETURN SYSTEM : Return Position Limit

Switch

INFOID:0000000011568230

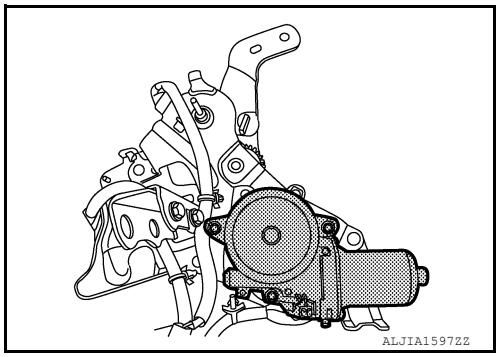
Detects the return position of the rear seatback.



SECOND ROW SEATBACK POWER RETURN SYSTEM : Power Return Motor Assembly

INFOID:0000000011568231

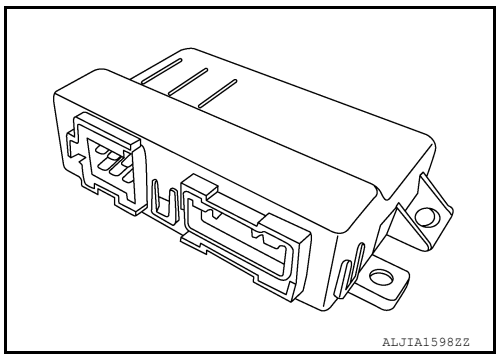
Operates the rear seatback.



SECOND ROW SEATBACK POWER RETURN SYSTEM : Rear Seatback Power Return Control Unit

INFOID:0000000011568232

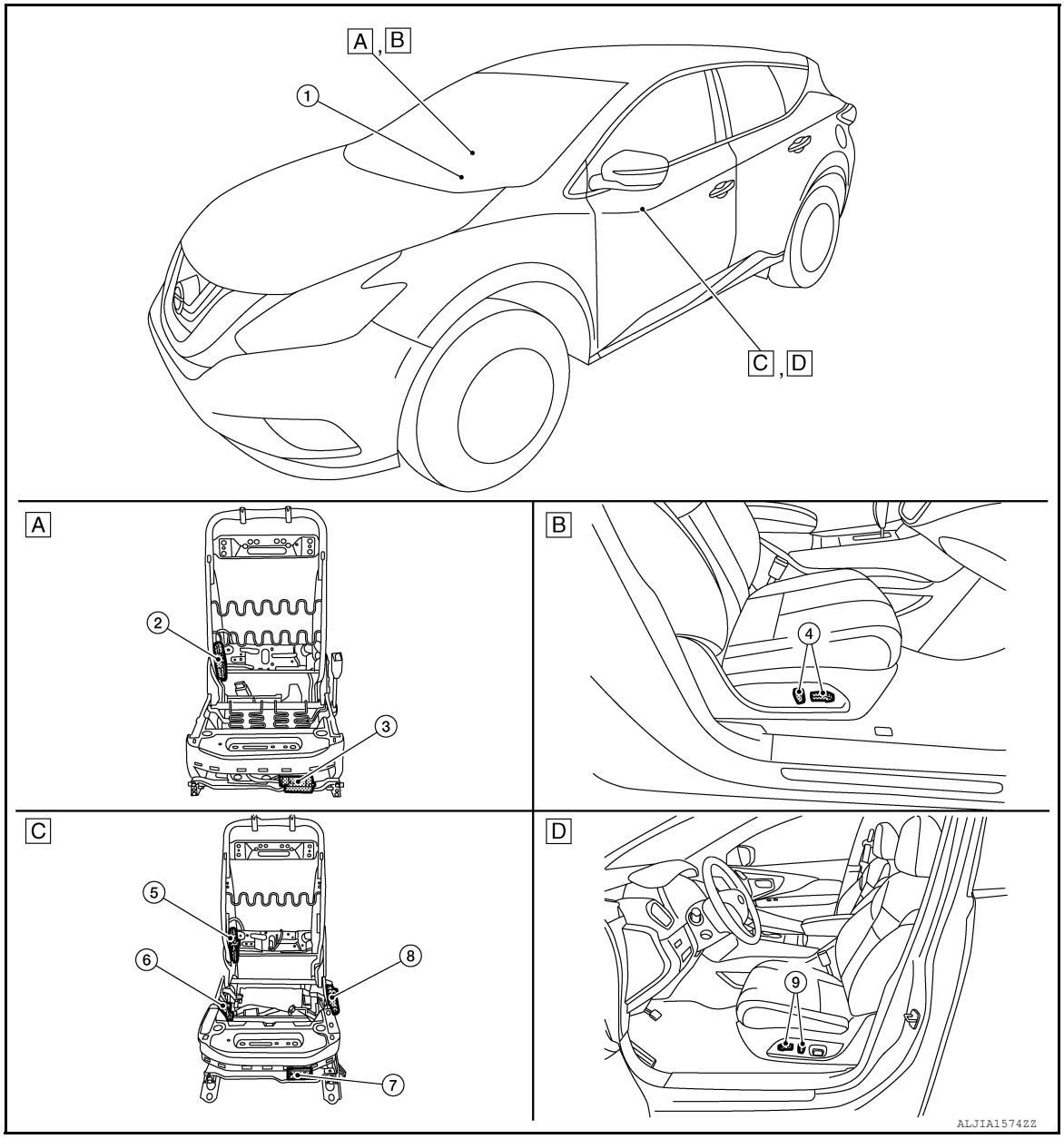
Controls the rear seatback power return system.



POWER SEAT SYSTEM

POWER SEAT SYSTEM : Component Parts Location

INFOID:0000000011565231



A. Passenger seat (view with cushion removed)
B. RH side of passengers seat
C. Drivers seat (view with cushion removed)
D. LH side of drivers seat

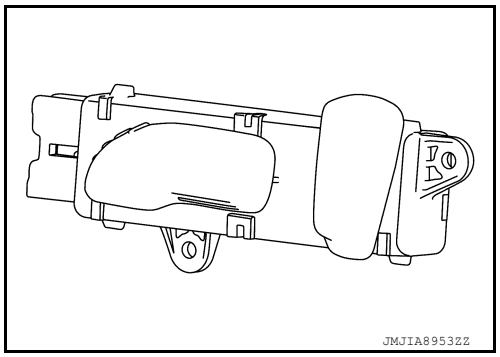
No.	Component	Function
1.	BCM	Supplies the power received from battery to power seat switch.
2.	Reclining motor (passenger side)	Refer to SE-18, "POWER SEAT SYSTEM : Reclining Motor"
3.	Sliding motor (passenger side)	Refer to SE-17, "POWER SEAT SYSTEM : Sliding Motor"
4.	Power seat switch (passenger side)	Refer to SE-17, "POWER SEAT SYSTEM : Power Seat Switch".
5.	Reclining motor (driver side)	Refer to SE-18, "POWER SEAT SYSTEM : Reclining Motor"

No.	Component	Function
6	Lifting motor (rear) (driver side)	Refer to SE-17, "POWER SEAT SYSTEM : Lifting Motor"
7.	Sliding motor (driver side)	Refer to SE-17, "POWER SEAT SYSTEM : Sliding Motor"
8.	Lifting motor (front) (driver side)	Refer to SE-17, "POWER SEAT SYSTEM : Lifting Motor"
9.	Power seat switch (driver side)	Refer to SE-17, "POWER SEAT SYSTEM : Power Seat Switch".

POWER SEAT SYSTEM : Power Seat Switch

INFOID:0000000011565234

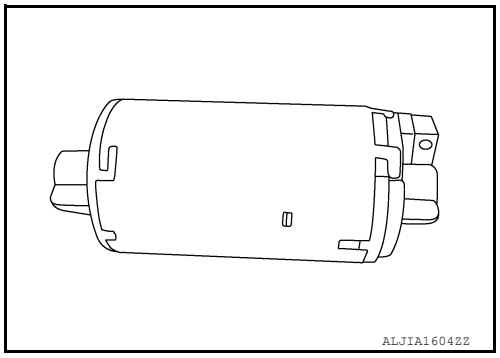
- Built-in reclining switch, sliding switch and lifting switch, controls the power supplied to each motor.
- Installed on seat cushion outer finisher.



POWER SEAT SYSTEM : Sliding Motor

INFOID:0000000011568235

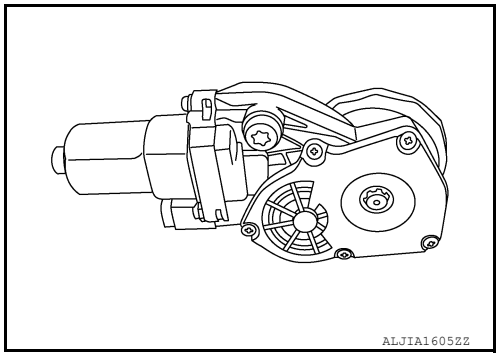
- Sliding motor is installed to the seat frame assembly.
- Slides the seat forward/backward by changing the rotation direction of sliding motor.



POWER SEAT SYSTEM : Lifting Motor

INFOID:0000000011568236

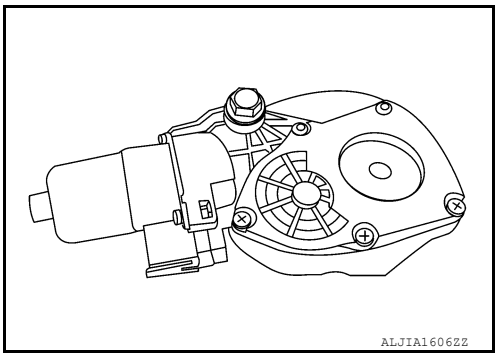
- Lifting motor is installed to seat frame assembly.
- Lifting motor is moved upward/downward by changing the rotation direction of lifting motor (front).



POWER SEAT SYSTEM : Reclining Motor

INFOID:0000000011568237

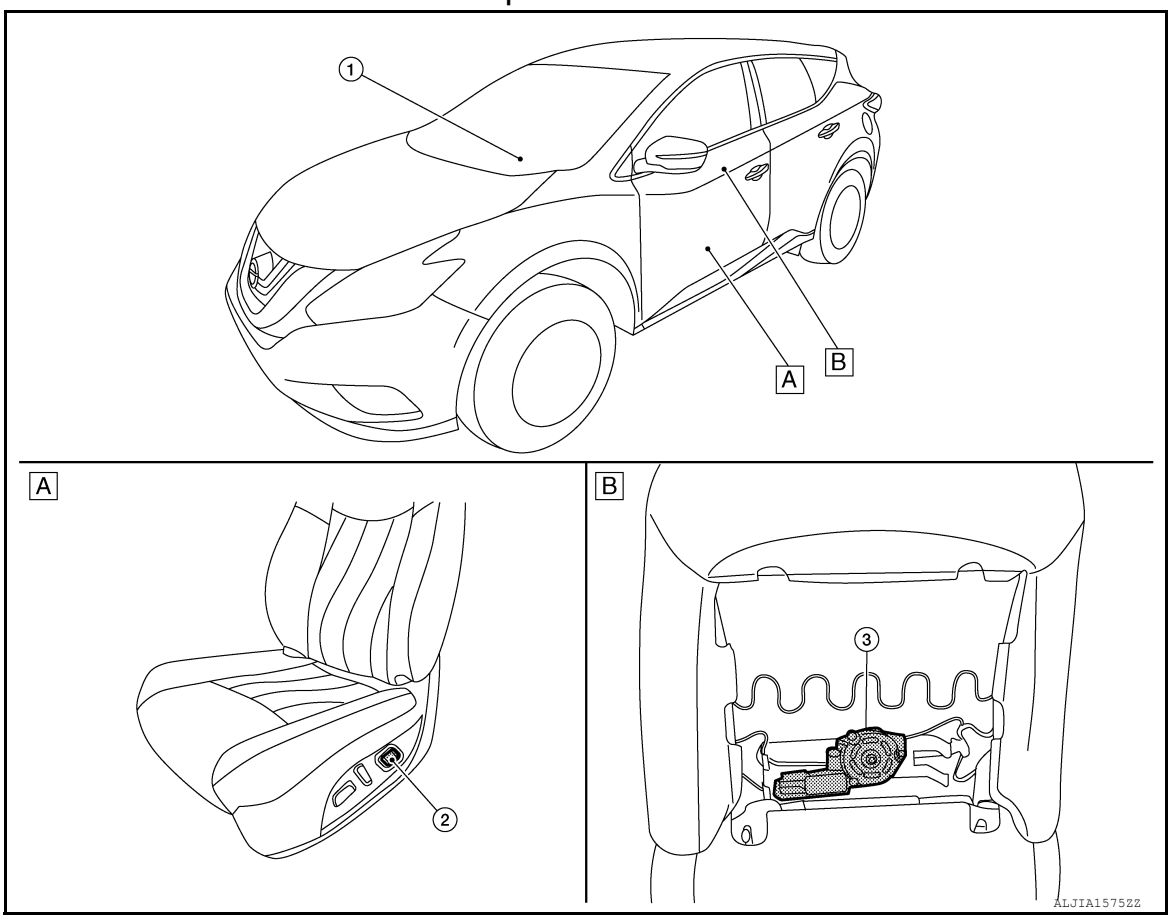
- Reclining motor is installed to seat frame assembly.
- Seatback is reclined forward/backward by changing the rotation direction of reclining motor.



LUMBAR SUPPORT SYSTEM

LUMBAR SUPPORT SYSTEM : Component Parts Location

INFOID:0000000011565232



A. LH side of drivers seat B. Back side of drivers seat

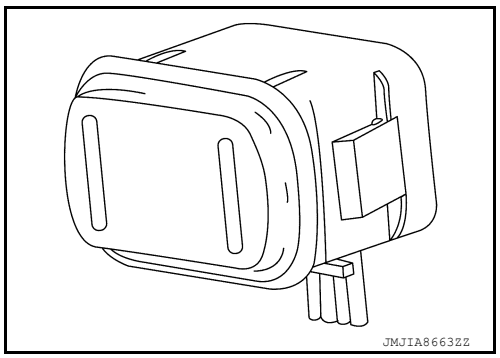
No.	Component	Function
1.	BCM	Supplies power from battery to lumbar support switch.
2.	Lumbar support switch	Refer to SE-18, "LUMBAR SUPPORT SYSTEM : Lumbar Support Switch".
3.	Lumbar support motor	Refer to SE-19, "LUMBAR SUPPORT SYSTEM : Lumbar Support Motor".

LUMBAR SUPPORT SYSTEM : Lumbar Support Switch

INFOID:0000000011565235

- Controls the power supplied to lumbar support motor.

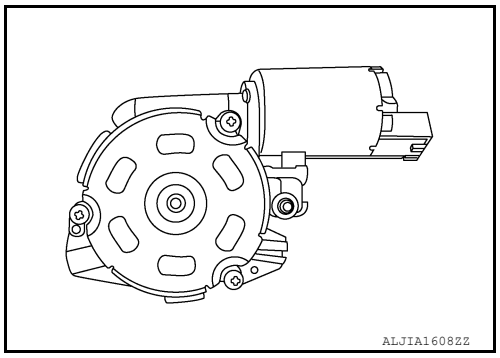
- Installed on seat cushion outer finisher (driver side).



LUMBAR SUPPORT SYSTEM : Lumbar Support Motor

INFOID:0000000011568241

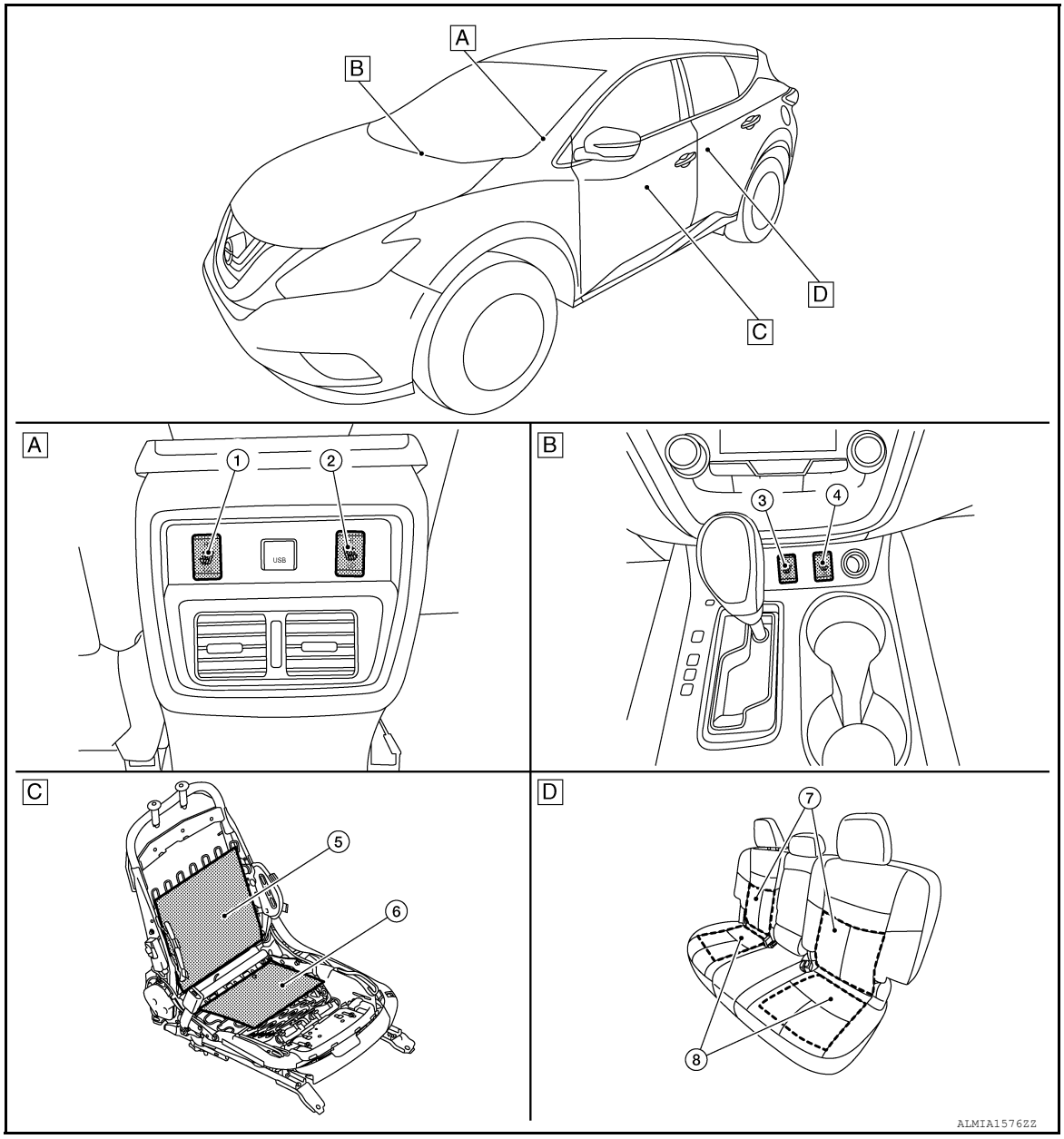
With power supplied to lumbar support switch, the lumbar support motor operates the forward and backward movement of seatback support.



HEATED SEAT SYSTEM

HEATED SEAT SYSTEM : Component Parts Location

INFOID:0000000011565233



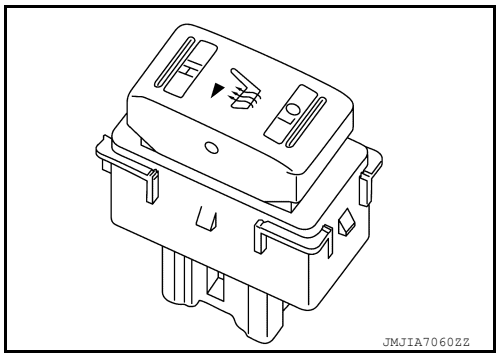
A. Rear of center console
B. Front of center console
C. Front seat (view with seat removed)
D. Rear seats

No.	Component	Function
1.	Rear heated switch LH	Refer to SE-21, "HEATED SEAT SYSTEM : Rear Heated Seat Switch".
2.	Rear heated switch RH	
3.	Front heated seat switch	Refer to SE-21, "HEATED SEAT SYSTEM : Rear Heated Seat Switch".
4.	Front seatback heater	Refer to SE-21, "HEATED SEAT SYSTEM : Front Seat Heater"
5.	Front seat cushion heater	
6.	Rear seatback heater	Refer to SE-21, "HEATED SEAT SYSTEM : Rear Seat Heater".
7.	Rear seat cushion heater	

HEATED SEAT SYSTEM : Front Heated Seat Switch

INFOID:0000000011568151

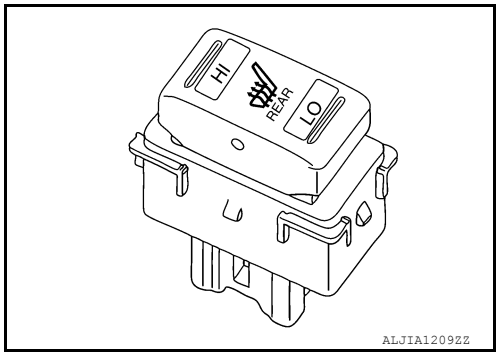
Front heated seat switch changes ON/OFF operation and HIGH/LOW operation, and supplies power source to front heated seats.



HEATED SEAT SYSTEM : Rear Heated Seat Switch

INFOID:0000000011568152

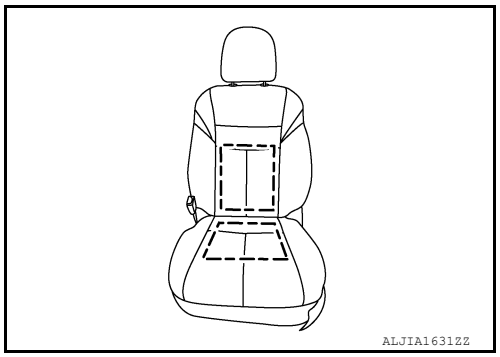
Rear heated seat switch changes ON/OFF operation and HIGH/LOW operation, and supplies power source to rear heated seats.



HEATED SEAT SYSTEM : Front Seat Heater

INFOID:0000000011568153

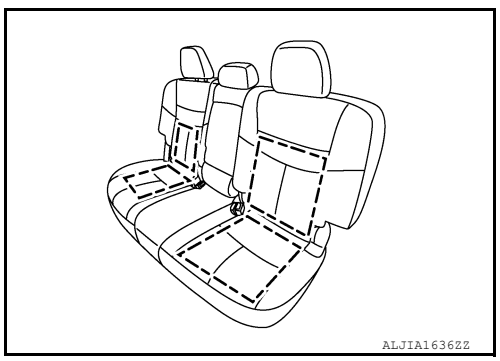
Front seat heater is located inside of front heated seat cushion and seat back, and operates with power source provided via front heated seat switch.



HEATED SEAT SYSTEM : Rear Seat Heater

INFOID:0000000011568154

Rear seat heater is located inside of rear heated seat cushion, and operates with power source provided via rear heated seat switch.



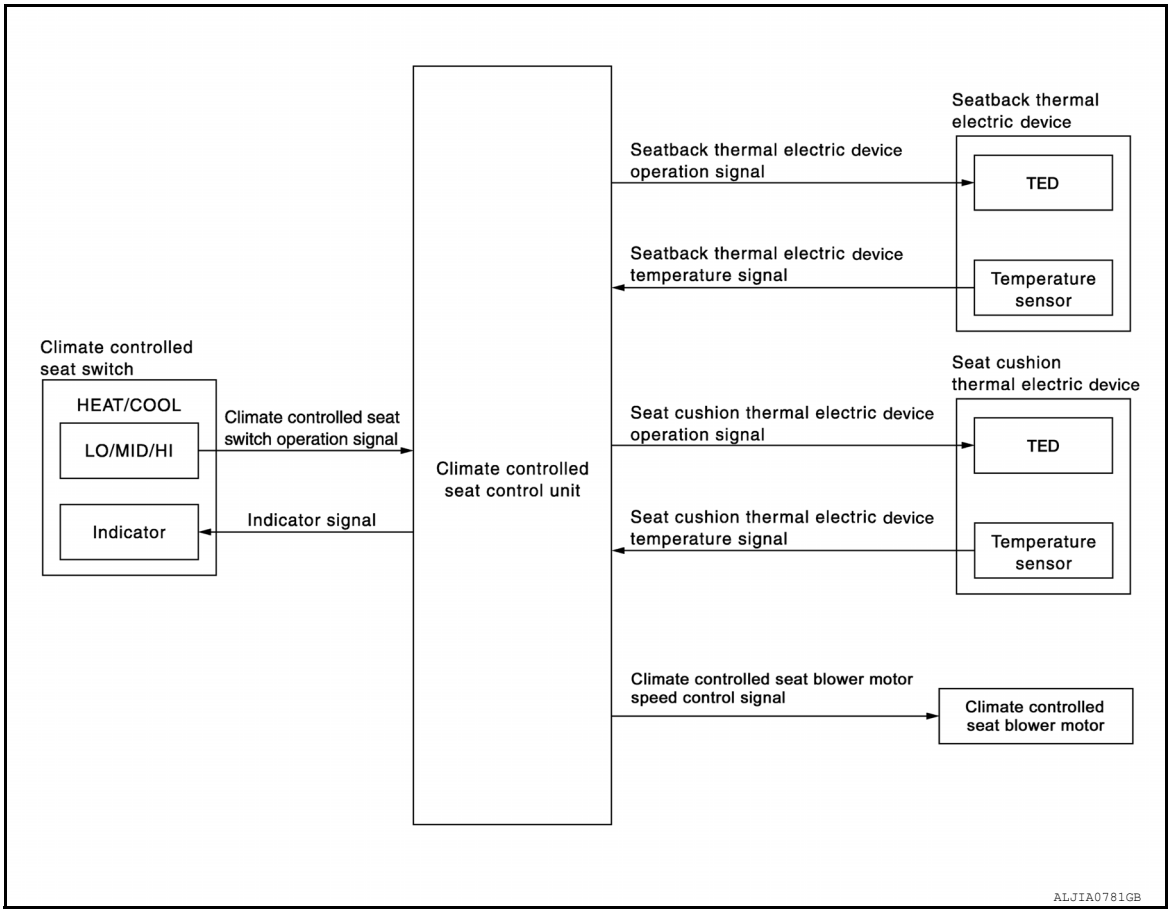
SYSTEM

CLIMATE CONTROLLED SEAT SYSTEM

CLIMATE CONTROLLED SEAT SYSTEM : System Description

INFOID:0000000011219071

SYSTEM DIAGRAM



DESCRIPTION

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

SEAT CUSHION AND SEATBACK TEMPERATURE ADJUSTMENT FUNCTION

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

NOTE:

The climate controlled seat blower motor maintains low speed for approximately 60 seconds after turning the climate controlled seat switch off.

CAUTION:

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

FAIL-SAFE

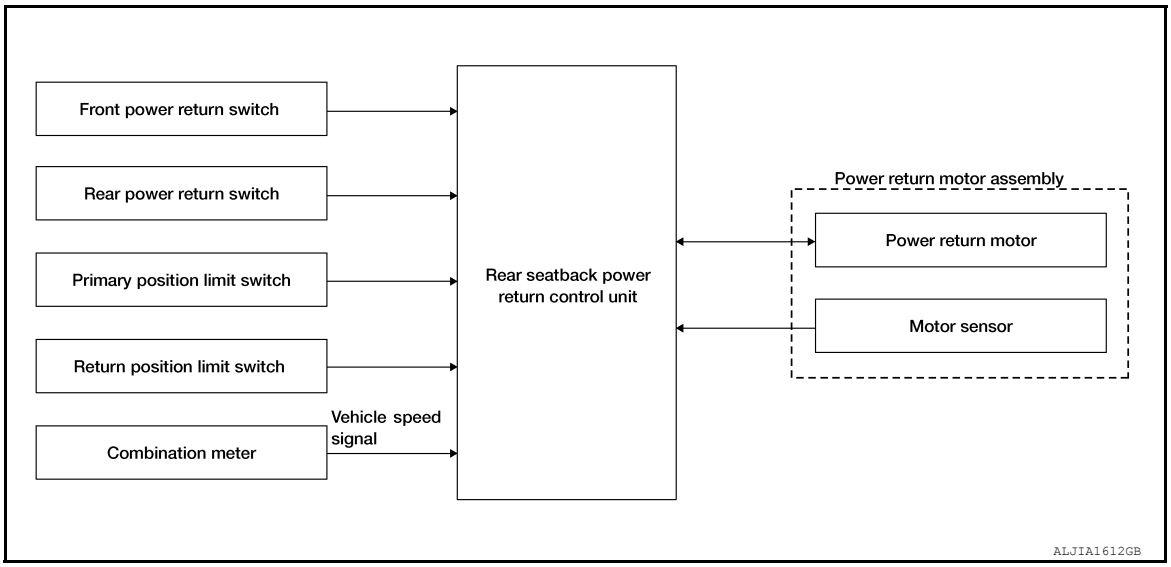
The fail-safe function is adopted for the climate controlled seat control unit. Refer to SE-28, "Fail-safe".

SECOND ROW SEATBACK POWER RETURN SYSTEM

SECOND ROW SEATBACK POWER RETURN SYSTEM : System Description

INFOID:0000000011565246

SYSTEM DIAGRAM



DESCRIPTION

- The rear seat back power return system is the system that enables the return operation of the left and right rear seatbacks independently by pressing and holding the power return switch in the luggage room or at the same time from the (single) instrument panel switch.
- As for the safety mechanism, the reverse operation is performed if the power return switch is released during the return operation. The anti-pitch function is installed so that the automatic reverse operation is performed if the pinching of foreign materials between the left and right rear seatbacks is detected.

OPERATION DESCRIPTION

The rear seatback power return system consists of the sector gear that transmits the movement information of rear seatback power return control unit, power return switch, power return motor, motor sensor, primary position limit switch, return complete limit switch and power return motor.

Return Operation Starting Condition

The rear seat back return operation starts when all of the following conditions are satisfied.

- Vehicle speed 2 km/h (1 MPH) or less
- Return complete limit switch: ON
- The battery voltage is normal

Operation sequence	Rear seatback condition	Sector gear condition	Primary position limit switch	Return complete limit switch
1	Return completion position	Initial position	OFF	OFF
2	Fold-down position	Initial position	OFF	ON
3	Active	Return non-completion position	OFF → ON	ON
4	Return completion position	Return completion position	ON	OFF
5		Initial position	OFF	OFF

- In the condition that the rear seatback is raised (return completion position), the sector gear is in the initial position and the primary position limit switch and return complete limit switch are OFF.
- When manually operating the rear seatback to the fold-down position, the return complete limit switch turns ON, and the rear seatback power return control unit judges that the rear seatback is tilted (return non-completion position).
- When pressing the power return switch on the instrument panel or in the luggage room, the rear seatback power return control unit detects the power return ON signal and supplies the power to the power return motor. Then, the rear seatback power return control unit sounds the operation start buzzer.

- With the power supplied from the rear seat back power control unit, the power return motor rotates in the return direction. The rear seatback starts the return operation via the sector gear.
- When the sector gear starts rotating in the return direction, the primary position limit switch turns ON. The rear seatback power return control unit judges that the sector gear is in any position other than the initial position.
- When the rear seatback moves to the return position, the return complete limit switch turns OFF. The rear seatback power return control unit activates the return completion buzzer and stops the power return motor. Then, the rear seatback power return control unit reverses the power return motor after 0.2 seconds so that the sector gear returns to the initial position.
- When the sector gear returns to the initial position by reverse rotation of the power return motor, the primary position limit switch turns OFF. The rear seatback power return control unit stops the reverse operation of the power return motor. The return operation is completed.
- When releasing the power return switch during the return operation (both the primary position limit switch and return complete limit switch are ON), the rear seatback power return control unit detects the power switch OFF signal and returns the rear seatback to the fold-down position by the reverse rotation of the power return motor. When pushing the switch again during the reverse operation, the return operation restarts.

NOTE:
Disconnect the battery with the sector gear in any position other than the initial position (primary position limit switch: ON). The sector gear is returned to the initial position when the battery is connected again.

ANTI-PINCH OPERATION

When the pinch between RH/LH rear seatbacks is detected during the return operation, the malfunction detecting buzzer sounds and the rear seatback returns to the fold-down position.

- If there is a pinching of foreign materials between the left and right rear seatbacks during the return operation (both the primary position limit switch and return complete switch are ON), the voltage pulse of motor sensor changes.
- When inputting the pinching signal from the motor sensor, the rear seatback power return control unit sounds the malfunction detecting buzzer and stops the power return motor. Then, the rear seatback power return control unit reverses the power return motor after 0.2 second so that the rear seatback returns to the fold-down position.

SECTOR GEAR REVERSE STARTING CONDITION

If any of the following conditions are satisfied, the sector gear may be reversed.

- Rear seatback return is completed (return complete limit switch: OFF)
- Release the power return switch before completing the return
- Pinch detection
- Lock detection of power return motor
  (Lock at normal rotation)
- The rear seatback return is not completed within 60 seconds
- Detect the battery voltage malfunction during the return operation
- Return to the normal condition after detecting the battery voltage malfunction during the return operation
- The primary position limit switch does not turn OFF $\rightarrow$ ON within the specified motor pulse number from starting the return operation.

SECTOR GEAR REVERSE STOP CONDITION

If any of the following conditions are satisfied, the reverse operation stops.

- Sector gear initial position (primary position limit switch: OFF)
- Lock detection of power return motor (Lock during reverse operation)
- The sector gear initial position is not completed within 60 seconds

NOTE:
The battery voltage indicates the voltage between battery voltage (system) terminal 17 and GND (system) terminal 32 of rear seatback power return control unit. It is normal when the voltage is 7.5 $\pm$ 10% or more. If it is less than the specified value, there is a malfunction.

POWER CONSUMPTION CONTROL SYSTEM

Rear seatback power return control unit incorporates a power consumption control function that reduces the power consumption according to the vehicle status.

Low Power Consumption Mode

If all of the following conditions are satisfied for 30 seconds period of time, the system shifts to the low power consumption mode.

- Power return switch is OFF
- Power return motor does not operate
- Vehicle speed 2 km/h (1 MPH) or less

If any of the following conditions are satisfied, the low power consumption mode is released.

- When the power return switch is pressed
- When the change occurs to the pulse of vehicle speed sensor

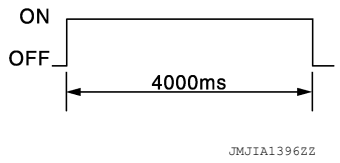
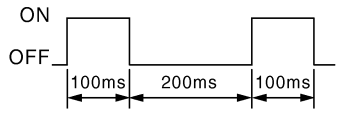
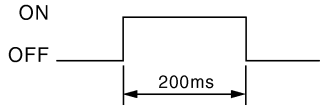
There are the following functions as the low power consumption mode.

- Turn the power supply of limit switch to OFF
- Turn the power supply of the motor sensor to OFF when the power return motor is not operated

INPUT/OUTPUT SIGNAL CHART

Item	Input signal to rear seatback power return control unit	Rear seatback power return function	Actuator
Power return switch	Power return switch signal	Rear seatback power return control	Power return motor
Primary position limit switch	Primary position limit switch signal		
Return position limit switch	Return position limit switch signal		
Motor sensor	Motor sensor signal		
Combination meter	Vehicle speed signal		

BUZZER OPERATION PATTERN AND ORDER OF PRIORITY

Operation type	Sound pattern	Priority
Malfunction	 JMJIA1396ZZ	1
Return operation completed	 JMJIA1395ZZ	2
Start return operation	 JMJIA1394ZZ	3

POWER SEAT SYSTEM

POWER SEAT SYSTEM : System Description

INFOID:0000000011565247

DESCRIPTION

Power seat can be operated regardless of the ignition switch position, because power supply is always supplied to power seat switch.

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 up and down position adjustment.

LUMBAR SUPPORT SYSTEM

LUMBAR SUPPORT SYSTEM : System Description

INFOID:0000000011565249

DESCRIPTION

- Lumbar support can operate regardless of the ignition switch position, because power supply is always supplied to lumber support switch.
- While operating the lumbar support switch, lumbar support motor operates which allows forward and backward operation of seatback support.

HEATED SEAT SYSTEM

HEATED SEAT SYSTEM : System Description

INFOID:0000000011565250

DESCRIPTION

- Heated seat system is activated by heated seat switch while ignition switch is ON, and has the function to warm seat cushion and seatback.

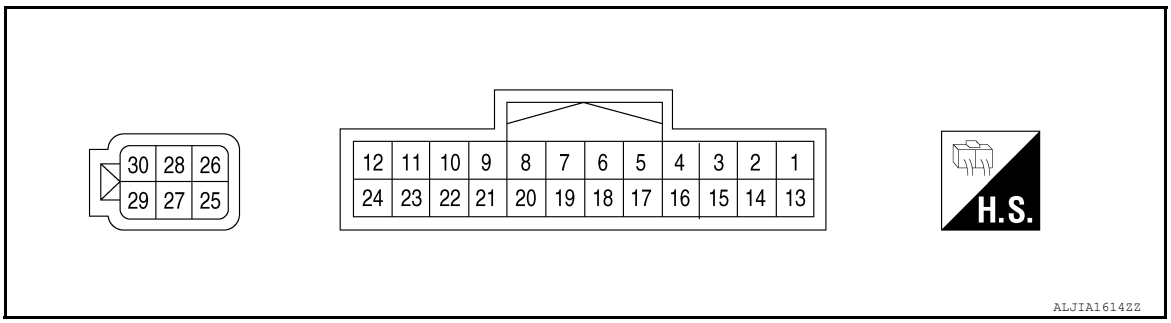
ECU DIAGNOSIS INFORMATION

CLIMATE CONTROLLED SEAT CONTROL UNIT

Reference Value

INFOID:0000000011219074

TERMINAL LAYOUT



PHYSICAL VALUES

Terminal (Wire color)	Item	Signal Input/ Output	Condition			Voltage (Approx.)
2 (BR)	Seat cushion thermal electric device sensor ground	—	Ignition switch ON			0V
3 (L)	Seatback thermal electric device sensor signal	Input	Blower motor operated			0.5V – 4.0V
			Ignition switch OFF			0V
4 (P)	Blower motor speed control signal	Input	Ignition switch ON or START	Climate controlled seat switch select	HEAT or COOL	4.5V – 8.0V
					OFF	0V
6 (G)	HEAT switch signal	Input	Ignition switch ON or START	Climate controlled seat switch select	HI HEAT	2.6V – 3.5V
					MED HEAT	1.6V – 2.5V
					LO HEAT	0.5V – 1.5V
					OFF	0V
7 (B)	COOL switch signal	Input	Ignition switch ON or START	Climate controlled seat switch select	HI COOL	2.6V – 3.5V
					MED COOL	1.6V – 2.5V
					LO COOL	0.5V – 1.5V
					OFF	0V
8 (Y)	Climate controlled seat switch power supply	Input	Ignition switch ON			Battery voltage
9 (W)	COOL switch indicator signal	Input	Ignition switch ON or START	Climate controlled seat switch select	COOL	Battery voltage
					OFF	0V
10 (LG)	HEAT switch indicator signal	Input	Ignition switch ON or START	Climate controlled seat switch select	HEAT	Battery voltage
					OFF	0V
12 (R)	Blower motor power supply	Input	Ignition switch ON or START			Battery voltage
17 (BG)	Seat cushion thermal electric device sensor signal	Input	Blower motor operated			0.5V – 4.0V
			Ignition switch OFF			0V
18 (V)	Seatback thermal electric device sensor ground	—	Ignition switch ON			0V
20 (GR)	Blower motor ground	—	—			0V

Terminal (Wire color)	Item	Signal Input/ Output	Condition			Voltage (Approx.)
25 (L)	Seat cushion thermal electric device power supply (HEAT)	Output	Ignition switch ON or START	Climate controlled seat switch select	HEAT	Battery voltage
					COOL	0V
					OFF	0V
26 (W)	Seatback thermal electric device power supply (HEAT)	Output	Ignition switch ON or START	Climate controlled seat switch select	HEAT	Battery voltage
					COOL	0V
					OFF	0V
27 (GR)	Ground	—	—			0V
28 (G)	Seatback thermal electric device power supply (COOL)	Output	Ignition switch ON or START	Climate controlled seat switch select	COOL	Battery voltage
					HEAT	0V
					OFF	0V
29 (R)	Battery power supply	Input	Ignition switch ON			Battery voltage
30 (LG)	Seat cushion thermal electric device power supply (COOL)	Output	Ignition switch ON or START	Climate controlled seat switch select	COOL	Battery voltage
					HEAT	0V
					OFF	0V

Fail-safe

INFOID:0000000011219075

- Climate controlled seat control unit equips fail-safe function.
- When a malfunction occurs in the systems shown as per the following, climate controlled seat control unit stops output.

Malfunction	Malfunctioning condition
The temperature difference between the seatback thermal electric device and seat cushion thermal electric device is 30°C (86°F) or more	• When it detects for 4 seconds that the temperature difference between the seatback thermal electric device and seat cushion thermal electric device is 30°C (86°F) or more, stops the output to the thermal electric device, activates the climate controlled seat blower motor in the maximum position, and sends the external airflow for 30 seconds. • If the temperature difference is still 30°C (86°F) or more after 30 seconds pass, it stops all output and enters the system OFF condition. • When the temperature difference between seatback thermal electric device and seat cushion thermal electric device becomes 20°C (68°F) or less, the system recovers automatically. • If it detects that the temperature difference is 30°C (86°F) or more after the automatic system recovery, it immediately stops all output and enters the system OFF condition. **NOTE:** When the switch operation is performed before entering the system OFF condition, the fail-safe mode is reset.
The temperature of thermal electric device is 110°C (230°F) or more in the HEAT mode (any thermal electric device in the seatback or seat cushion)	• When it detects for 4 seconds that the temperature of the thermal electric device is 110°C (230°F) or more, stops the output to the thermal electric device, activates the climate controlled seat blower motor in the maximum position, and sends the external airflow for 30 seconds. • If the temperature does not become 105°C (221°F) or less after 30 seconds pass, it stops all output and enters the system OFF condition. • When the temperature of the thermal electric device becomes 105°C (221°F) or less, the system recovers automatically. • If it detects that the temperature of the thermal electric device is 110°C (230°F) or more after the automatic system recovery, it immediately stops all output and enters the system OFF condition.

Malfunction	Malfunctioning condition
The temperature of the thermal electric device is 45°C (113°F) or more in the COOL mode (any thermal electric device in the seatback or seat cushion)	• When it detects for 4 seconds that the temperature of the thermal electric device is between 45°C (113°F) and 70°C (158°F), it starts the temperature monitoring of the thermal electric device at 3 second intervals. • While monitoring, if it detects that the temperature raises 2°C (36°F) or more 4 times continuously or reaches 70°C (158°F) or more, it stops all output and enters the system OFF condition. • If it detects other results of monitoring, it continues activating in the COOL mode.
Thermal electric device sensor system open circuit	• When it detects for 4 seconds that the thermal electric device sensor system is an open circuit.
Climate controlled seat blower motor system open circuit	• When it detects for 2 seconds that climate controlled seat blower motor system is an open circuit while the climate controlled seat is being activated, it stops output to the thermal electric device. • When it detects for 10 seconds that the climate controlled seat blower motor system is an open circuit while the climate controlled seat is being activated, it stops all output and enters the system OFF condition. **NOTE:** After detecting the climate seat blower motor system open circuit for 2 seconds, the system recovers automatically if the activation of the climate controlled seat blower motor is detected for 1 second or more.
Switch input out of the specified range	• When it detects for 4 seconds that the rotary switch input is 30% or less of the vehicle battery voltage, it stops all output and enters the system OFF condition. • When the switch input returns to a value within the specified range, the system recovers automatically.
HEAT or COOL switch input out of the specified range	• When it detects for 4 seconds that rotary switch input is 6% or less of the vehicle battery voltage, it stops all output and enters the system OFF condition. • When the switch input returns to a value within the specified range, the system recovers automatically.
System voltage out of range	• System voltage* of the climate controlled seat control unit is out of the operation range (8.5 V – 16.5 V).

*: System voltage is the voltage between climate controlled seat control unit power source and the ground.

NOTE:

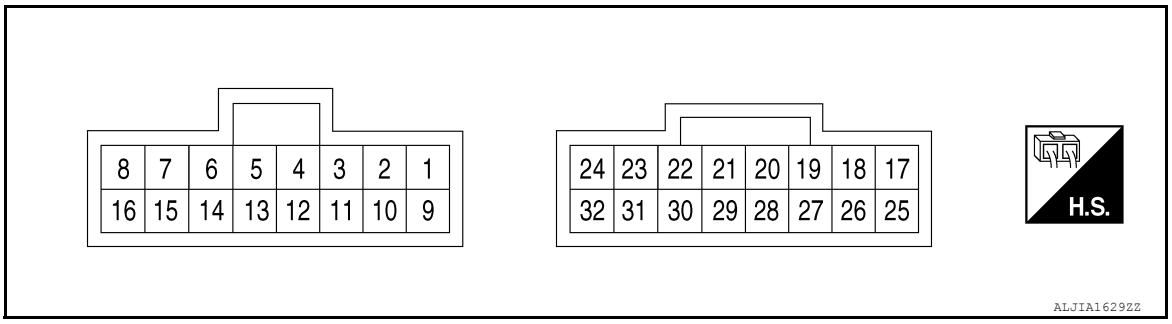
When the system enters in the fail-safe mode again after performing resetting procedure, perform diagnosis.

SEATBACK POWER RETURN CONTROL UNIT

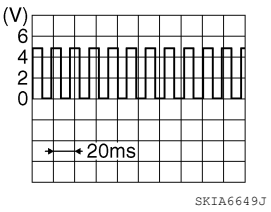
Reference Value

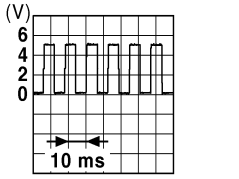
INFOID:0000000011219076

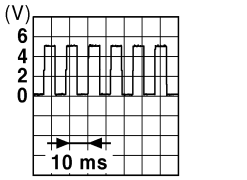
TERMINAL LAYOUT



PHYSICAL VALUES

Terminal No. (Wire color)		Description		Condition	Value
(+)	(–)	Signal name	Input/ Output		
1 (L/R)	Ground	Vehicle speed signal (8-pulse)	Input	When vehicle speed is approx.40 km/h (25MPH)	**NOTE:** Maximum voltage may be 12 V due to specifications (connected units) 
2 (R)	Ground	Ground [Limit switch (RH)]	—	—	—
3 (V)	Ground	Sector gear position limit switch (RH) input signal	Input	When the sector gear (RH) is in the initial position (other than low power consumption mode)	Battery voltage
				Other than the above	0 – 0.5 V
4 (V)	Ground	Sector gear position limit switch (LH) input signal	Input	When the sector gear (LH) is in the initial position (other than low power consumption mode)	Battery voltage
				Other than the above	0 – 0.5 V
5 (P)	Ground	Seatback switch (RH)	Input	second row seat fold switch (RH) in return position	0 – 0.5 V
				Other than the above	4.7 – 5.3 V
8 (Y/L)	Ground	System power supply	Input	—	Battery voltage
9 (B)	Ground	Ground	—	—	—
10 (R)	Ground	Ground [Limit switch (LH)]	—	—	—

Terminal No. (Wire color)		Description		Condition	Value
(+)	(–)	Signal name	Input/ Output		
11 (G/W)	Ground	Return position limit switch (RH) input signal	Input	When the second row seatback (RH) is in the return completion position (other than low power consumption mode)	Battery voltage
				Other than the above	0 – 0.5 V
12 (G/W)	Ground	Return position limit switch (LH) input signal	Input	When the second row seatback (LH) is in the return completion position (other than low power consumption mode)	Battery voltage
				Other than the above	0 – 0.5 V
13 (G)	Ground	Rear seatback switch (LH)	Input	second row seatback fold switch (LH) in return position	0 – 0.5 V
				Other than the above	4.7 – 5.3 V
17 (BR)	Ground	Power return motor (RH) backward signal	Output	When the power return motor (RH) performs reverse operation	Battery voltage
				Other than the above	0 – 0.5 V
18 (W)	Ground	Power return motor (RH) forward signal	Output	When the power return motor (RH) performs reverse operation	Battery voltage
				Other than the above	0 – 0.5 V
19 (BR)	Ground	Power return motor (LH) backward signal	Output	When the power return motor (LH) performs reverse operation	Battery voltage
				Other than the above	0 – 0.5 V
20 (W)	Ground	Power return motor (LH) forward signal	Output	When the power return motor (RH) performs return operation	Battery voltage
				Other than the above	0 – 0.5 V
22 (L)	Ground	Power supply [Motor sensor (RH)]	Output	When the power return motor is operated	Battery voltage
23 (O)	Ground	Motor sensor (RH) input signal	Input	When the power return motor (RH) is operated	 JMKIA0070GB
				When the pinch occurs	The above pulse width should be expanded
24 (Y)	Ground	Ground [Motor sensor (RH)]	—	—	—
25 (G)	Ground	Battery power supply	Input	—	Battery voltage
28 (B)	Ground	Ground	—	—	—
30 (L)	Ground	Power supply [Motor sensor (LH)]	Output	When the power return motor is operated	Battery voltage

Terminal No. (Wire color)		Description		Condition	Value
(+)	(–)	Signal name	Input/ Output		
31 (O)	Ground	Motor sensor (LH) input signal	Input	When the power return motor (LH) is operated	 JMKIA0070GB
				When the pinch occurs	The above pulse width should be expanded
32 (Y)	Ground	Ground [Motor sensor (LH)]	—	—	—

Fail-safe

INFOID:0000000011219077

Even if the automatic return control is inactivated, the fold-down and manual return operations can be performed.

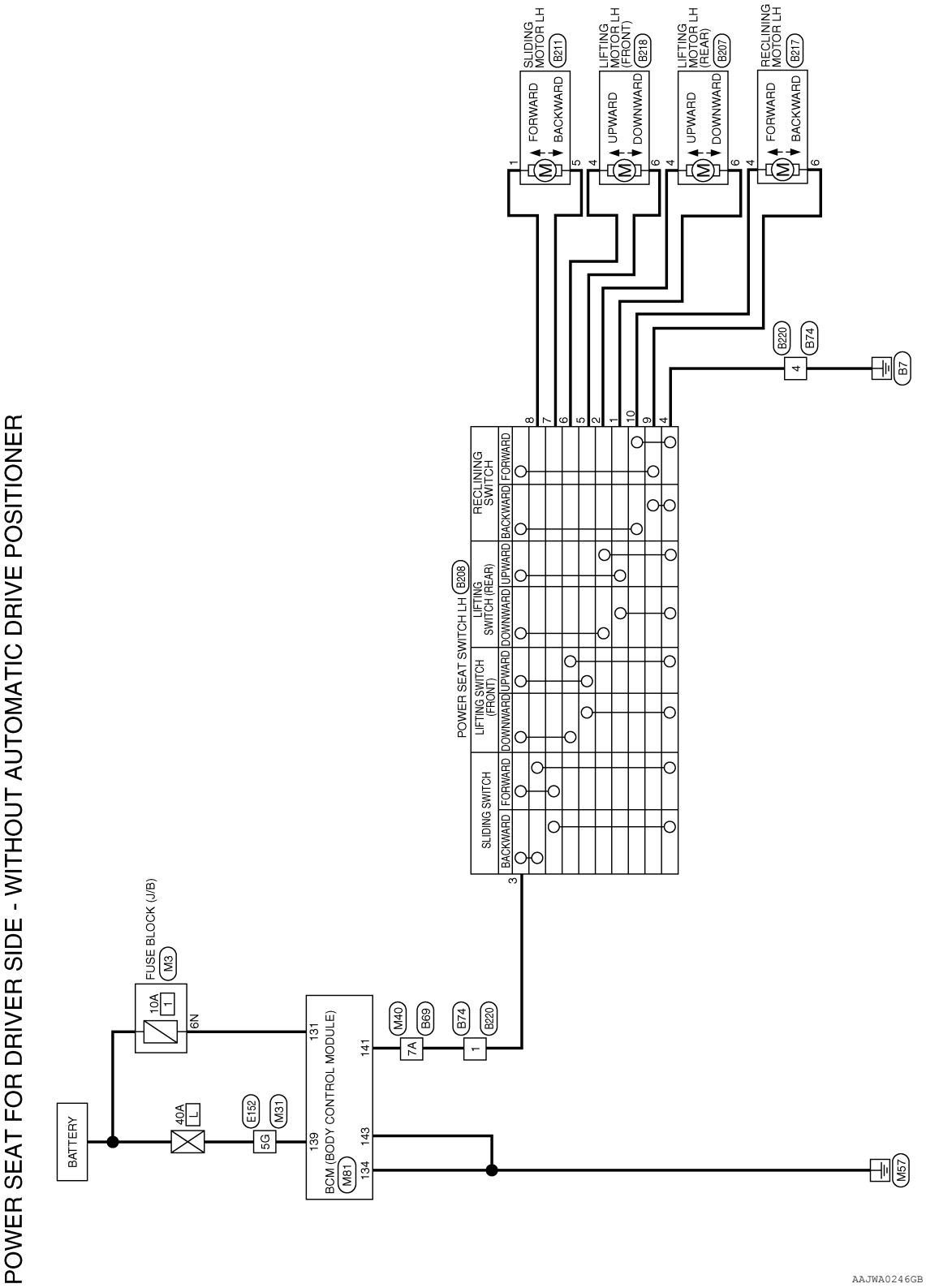
Malfunction items	Fail-safe in operation
Seatback angle limit switch stays in the “ON” position	Seatback power return control unit judges that power return motor and gear are locked during operation because the return complete position of second row seatback cannot be recognized. Seatback power return control unit operates power return motor in the reverse rotation.
Seatback angle limit switch stays in the “OFF”position	Seatback power return control unit recognizes that second row seatback is in the return complete position. Second row seatback does not operate when second row seat fold switch is operated in the following up direction.
Sector gear position limit switch stays in the “ON” position	Seatback power return control unit recognized that sector gear is locked during operation and stops power motor operation. Operation of seatback power return system is inhibited when the above status is recognized continuously 4 times.
Sector gear position limit switch stays in the “OFF” position	When sector gear position limit switch does not turn ON after seatback power return operation is started, seatback power return control unit judges that sector gear is locked and operates power return motor in the reverse operation.
Motor sensor malfunction (High, Low, or Fixed)	When pulse does not indicate any change after motor starts to operate, seatback power return control unit judges that motor sensor is malfunctioning and returns sector gear to the initial position.

WIRING DIAGRAM

POWER SEAT FOR DRIVER SIDE WITHOUT AUTOMATIC DRIVE POSITIONER

Wiring Diagram

INFOID:0000000011219078



POWER SEAT FOR DRIVE SIDE CONNECTORS - WITHOUT AUTOMATIC DRIVE POSITIONER

Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE

H.S.

3N		2N	1N
8N	7N	6N	5N	4N

Terminal No.	Color of Wire	Signal Name
6N	W	–

Connector No.	M31
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

1G	2G	3G	4G	5G
6G	7G	8G	9G	10G

11G	12G	13G	14G	15G	16G	17G	18G	19G	20G	21G
22G	23G	24G	25G	26G	27G	28G	29G	30G		

31G	32G	33G	34G	35G	36G	37G	38G	39G	40G	41G
42G	43G	44G	45G	46G	47G	48G	49G	50G		

51G	52G	53G	54G	55G	56G	57G	58G	59G	60G	61G
62G	63G	64G	65G	66G	67G	68G	69G	70G		

71G	72G	73G	74G	75G	76G	77G	78G	79G	80G	81G
82G	83G	84G	85G	86G	87G	88G	89G	90G		

91G	92G	93G	94G	95G
96G	97G	98G	99G	100G

Terminal No.	Color of Wire	Signal Name
5G	L	–

Connector No.	M40
Connector Name	WIRE TO WIRE
Connector Color	GRAY

H.S.

1A	2A	3A	4A	5A
6A	7A	8A	9A	10A

11A	12A	13A	14A	15A	16A	17A	18A	19A	20A	21A
22A	23A	24A	25A	26A	27A	28A	29A	30A		

31A	32A	33A	34A	35A	36A	37A	38A	39A	40A	41A
42A	43A	44A	45A	46A	47A	48A	49A	50A		

51A	52A	53A	54A	55A	56A	57A	58A	59A	60A	61A
62A	63A	64A	65A	66A	67A	68A	69A	70A		

71A	72A	73A	74A	75A	76A	77A	78A	79A	80A	81A
82A	83A	84A	85A	86A	87A	88A	89A	90A		

91A	92A	93A	94A	95A
96A	97A	98A	99A	100A

Terminal No.	Color of Wire	Signal Name
7A	Y	– (WITHOUT AUTOMATIC DRIVE POSITIONER)

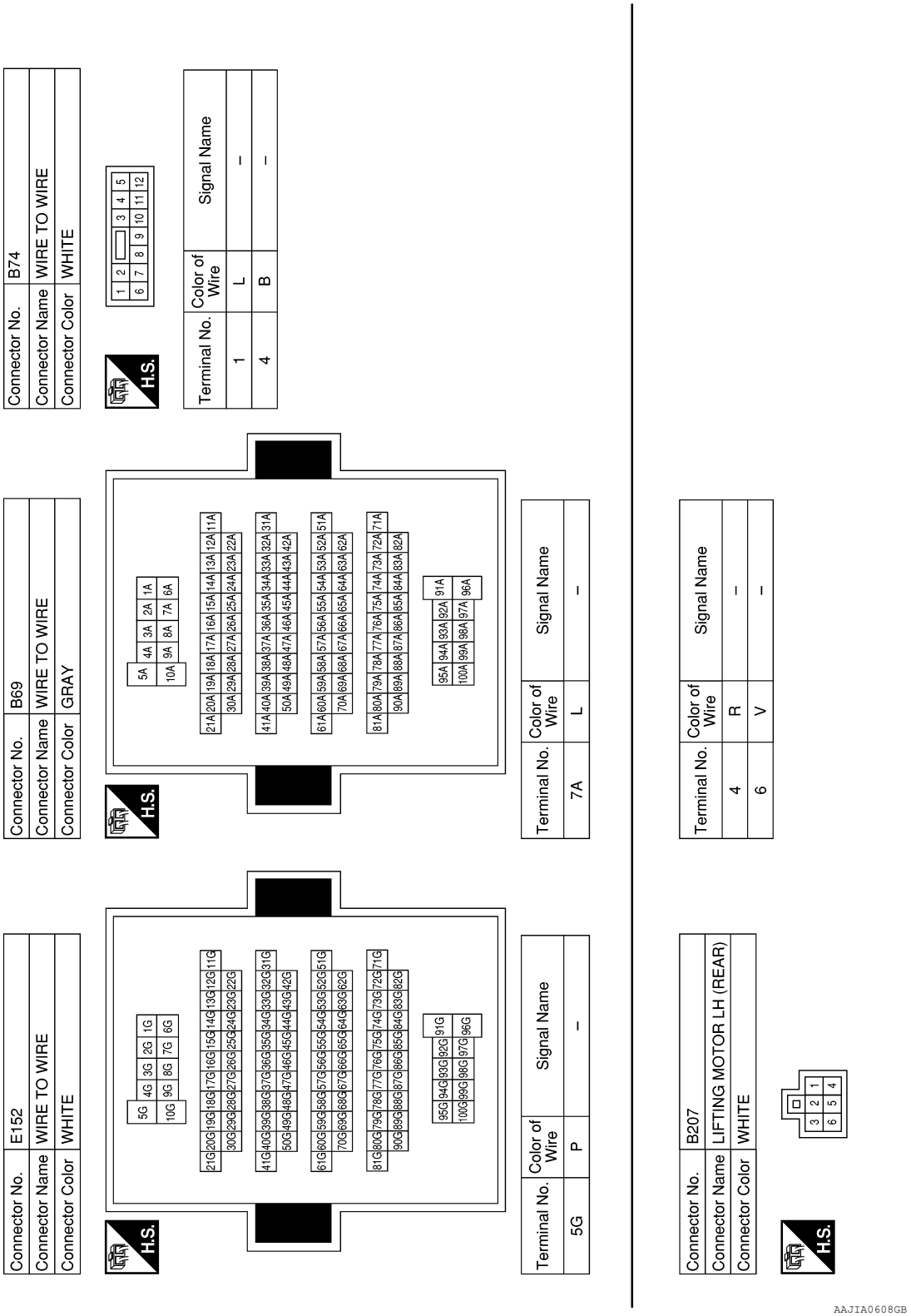
Connector No.	M81
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	WHITE

H.S.

137	136	135	134	133	132	131	130	129
143	142	141	140	139	138			

Terminal No.	Color of Wire	Signal Name
131	W	BAT BCM FUSE
134	GR	GND2
139	L	BAT POWER F/L
141	Y	P/W POWER SUPPLY BAT
143	GR	GND1

AAJIA0607GB


Connector No. E152
Connector Name WIRE TO WIRE
Connector Color WHITE
H.S.
Terminal No. Color of Wire Signal Name
5G P –
Connector No. B69
Connector Name WIRE TO WIRE
Connector Color GRAY
H.S.
Terminal No. Color of Wire Signal Name
7A L –
Connector No. B74
Connector Name WIRE TO WIRE
Connector Color WHITE
H.S.
Terminal No. Color of Wire Signal Name
1 L –
4 B –
Connector No. B207
Connector Name LIFTING MOTOR LH (REAR)
Connector Color WHITE
H.S.
Terminal No. Color of Wire Signal Name
4 R –
6 V –
AAJIA0608GB

Connector No.	B208
Connector Name	POWER SEAT SWITCH LH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	V	–
2	R	–

Connector No.	B211
Connector Name	SLIDING MOTOR LH
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1	SB	–
5	L	–

Terminal No.	Color of Wire	Signal Name
3	R	–
4	B	–
5	G	–
6	Y	–
7	L	–
8	SB	–
9	P	–
10	BR	–

Connector No.	B217
Connector Name	RECLINING MOTOR LH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
4	BR	–
6	P	–

Connector No.	B218
Connector Name	LIFTING MOTOR LH (FRONT)
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
4	G	–
6	Y	–

Connector No.	B220
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

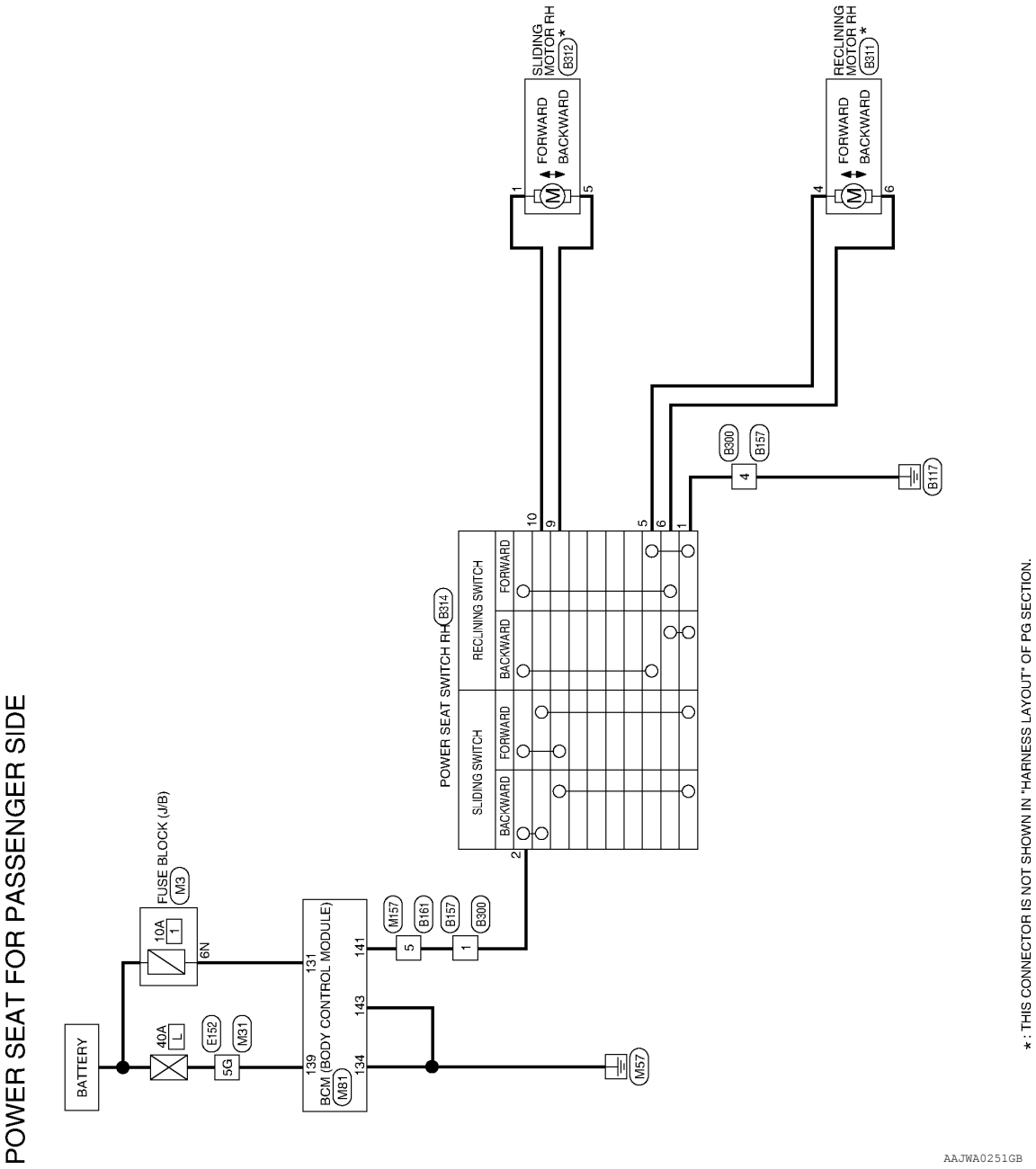
Terminal No.	Color of Wire	Signal Name
1	R	–
4	B	–

AAJIA0609GB

POWER SEAT FOR PASSENGER SIDE

Wiring Diagram

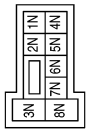
INFOID:0000000011219079



POWER SEAT FOR PASSENGER SIDE CONNECTORS

Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE

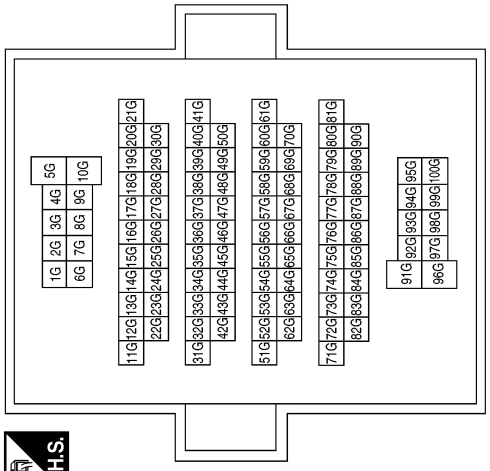
H.S.



Terminal No.	Color of Wire	Signal Name
6N	W	–

Connector No.	M31
Connector Name	WIRE TO WIRE
Connector Color	WHITE

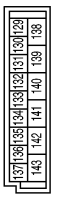
H.S.



Terminal No.	Color of Wire	Signal Name
5G	L	–

Connector No.	M81
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	WHITE

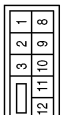
H.S.



Terminal No.	Color of Wire	Signal Name
131	W	BAT BCM FUSE
134	GR	GND2
139	L	BAT POWER F/L
141	Y	P/W POWER SUPPLY BAT
143	GR	GND1

Connector No.	M157
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
5	Y	–

AAJIA0624GB

Connector No.	B157
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

1	2		3	4	5
6	7	8	9	10	11	12

Terminal No.	Color of Wire	Signal Name
1	LG	–
4	B	–

Connector No.	B311
Connector Name	RECLINING MOTOR RH
Connector Color	WHITE

H.S.

3	2	1
6	5	4

Terminal No.	Color of Wire	Signal Name
4	BR	–
6	P	–

Terminal No.	Color of Wire	Signal Name
5G	P	–

Connector No.	E152
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

5G	4G	3G	2G	1G
	9G	8G	7G	6G
10G				

21G	20G	19G	18G	17G	16G	15G	14G	13G	12G	11G
30G	29G	28G	27G	26G	25G	24G	23G	22G		
41G	40G	39G	38G	37G	36G	35G	34G	33G	32G	31G
50G	49G	48G	47G	46G	45G	44G	43G	42G		
61G	60G	59G	58G	57G	56G	55G	54G	53G	52G	51G
70G	69G	68G	67G	66G	65G	64G	63G	62G		
81G	80G	79G	78G	77G	76G	75G	74G	73G	72G	71G
90G	89G	88G	87G	86G	85G	84G	83G	82G		
95G	94G	93G	92G	91G						
100G	99G	98G	97G	96G						

Connector No.	B300
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

5	4	3	2	1
12	11	10	9	8	7	6

Terminal No.	Color of Wire	Signal Name
1	R	–
4	B	–

Connector No.	B161
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

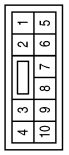
1	2	3		4	5	6	7
8	9	10	11	12	13	14	15	16

Terminal No.	Color of Wire	Signal Name
5	LG	–

AAJIA0625GB

Connector No.	B314
Connector Name	POWER SEAT SWITCH RH
Connector Color	WHITE

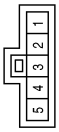
H.S.



Terminal No.	Color of Wire	Signal Name
1	B	–
2	R	–
5	BR	–
6	P	–
9	L	–
10	SB	–

Connector No.	B312
Connector Name	SLIDING MOTOR RH
Connector Color	WHITE

H.S.



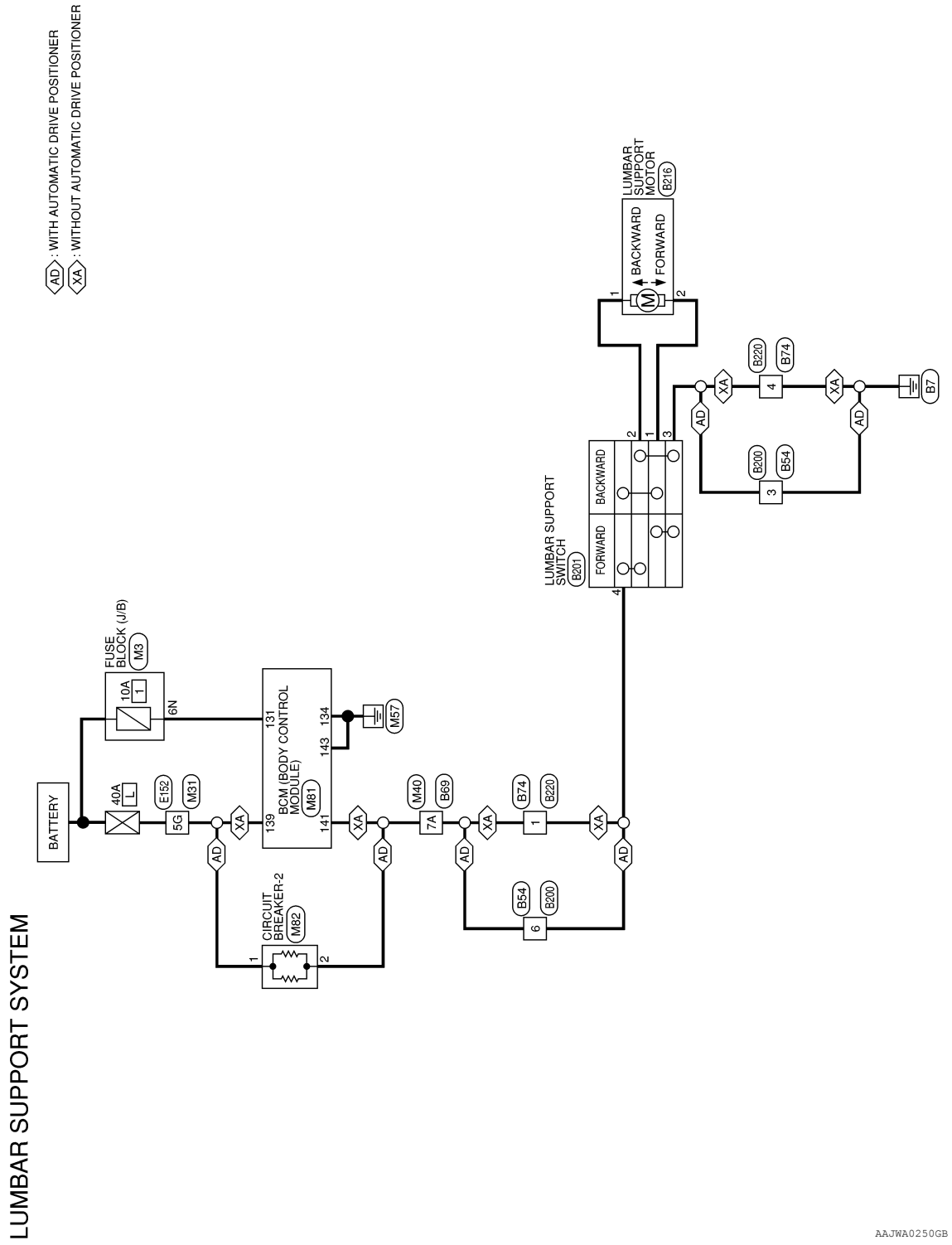
Terminal No.	Color of Wire	Signal Name
1	SB	–
5	L	–

AAJIA0626GB

LUMBAR SUPPORT SYSTEM

Wiring Diagram

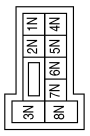
INFOID:0000000011219080



LUMBAR SUPPORT SYSTEM CONNECTORS

Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE

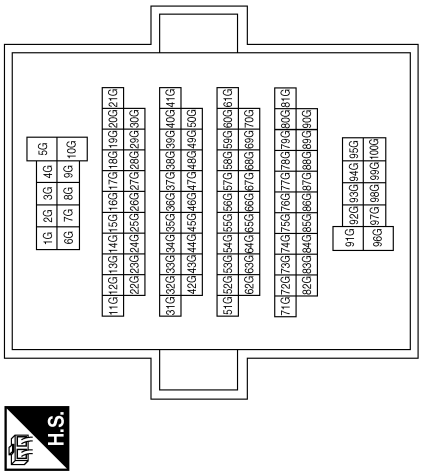
H.S.



Terminal No.	Color of Wire	Signal Name
6N	W	–

Connector No.	M31
Connector Name	WIRE TO WIRE
Connector Color	WHITE

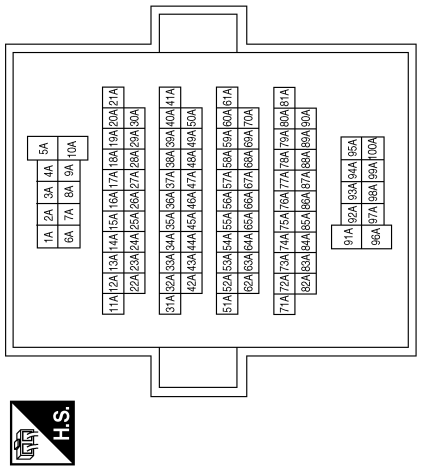
H.S.



Terminal No.	Color of Wire	Signal Name
5G	L	–

Connector No.	M40
Connector Name	WIRE TO WIRE
Connector Color	GRAY

H.S.



Terminal No.	Color of Wire	Signal Name
7A	L	– (WITH AUTOMATIC DRIVE POSITIONER)
7A	Y	– (WITHOUT AUTOMATIC DRIVE POSITIONER)

Connector No.	M81
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
131	W	BAT BCM FUSE
134	GR	GND2

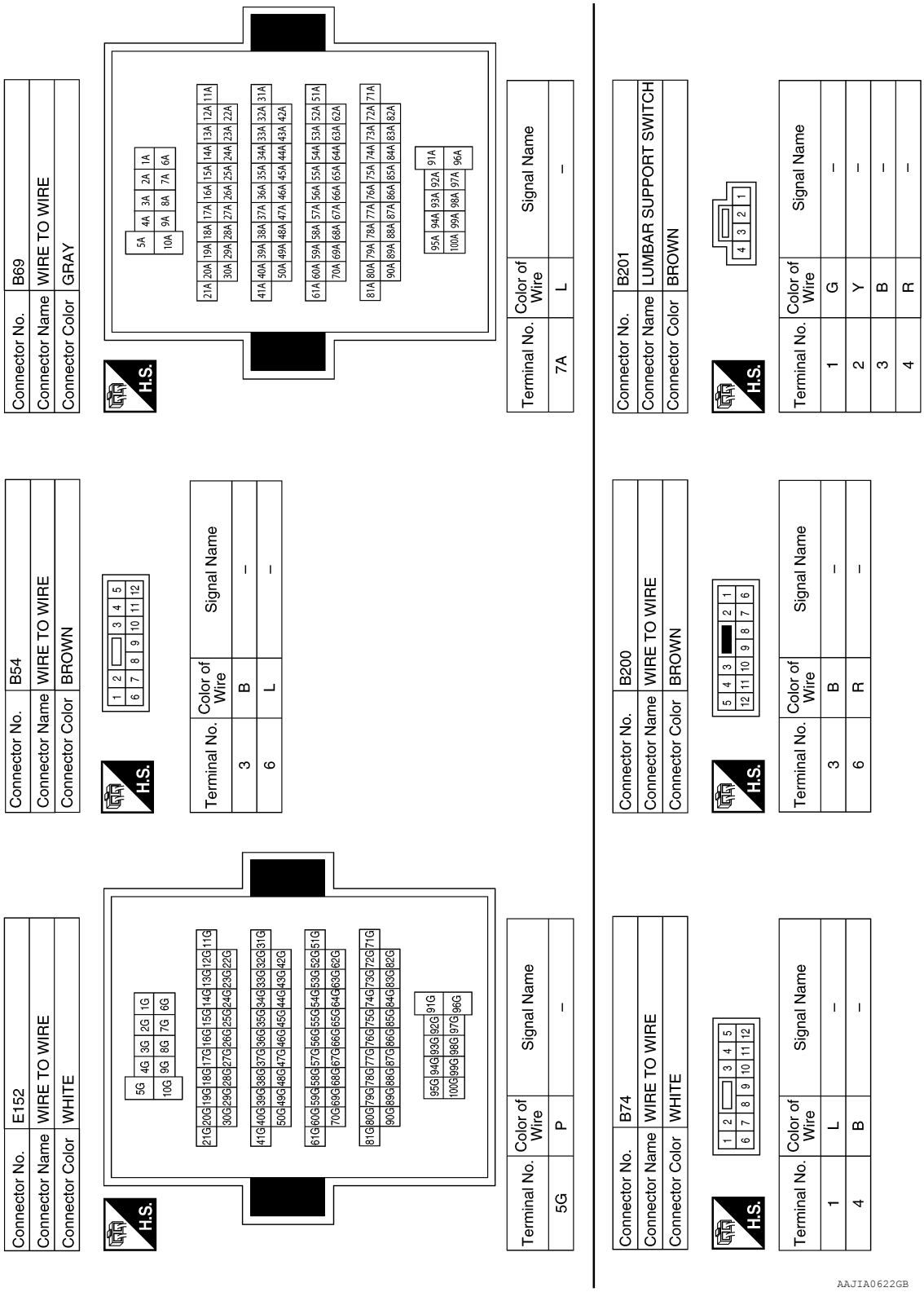
Terminal No.	Color of Wire	Signal Name
139	L	BAT POWER F/L
141	Y	P/W POWER SUPPLY BAT
143	GR	GND1

Connector No.	M82
Connector Name	CIRCUIT BREAKER-2
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	L	–
2	L	–

AAJIA0621GB


Connector No. E152
Connector Name WIRE TO WIRE
Connector Color WHITE
H.S.
Terminal No. Color of Wire Signal Name
5G P –
Connector No. B54
Connector Name WIRE TO WIRE
Connector Color BROWN
H.S.
Terminal No. Color of Wire Signal Name
3 B –
6 L –
Connector No. B69
Connector Name WIRE TO WIRE
Connector Color GRAY
H.S.
Terminal No. Color of Wire Signal Name
7A L –
Connector No. B74
Connector Name WIRE TO WIRE
Connector Color WHITE
H.S.
Terminal No. Color of Wire Signal Name
1 L –
4 B –
Connector No. B200
Connector Name WIRE TO WIRE
Connector Color BROWN
H.S.
Terminal No. Color of Wire Signal Name
3 B –
6 R –
Connector No. B201
Connector Name LUMBAR SUPPORT SWITCH
Connector Color BROWN
H.S.
Terminal No. Color of Wire Signal Name
1 G –
2 Y –
3 B –
4 R –
AAJIA0622GB

Connector No.	B216
Connector Name	LUMBAR SUPPORT MOTOR
Connector Color	BLACK

Terminal No.	Color of Wire	Signal Name
1	Y	–
2	G	–

Connector No.	B220
Connector Name	WIRE TO WIRE
Connector Color	WHITE

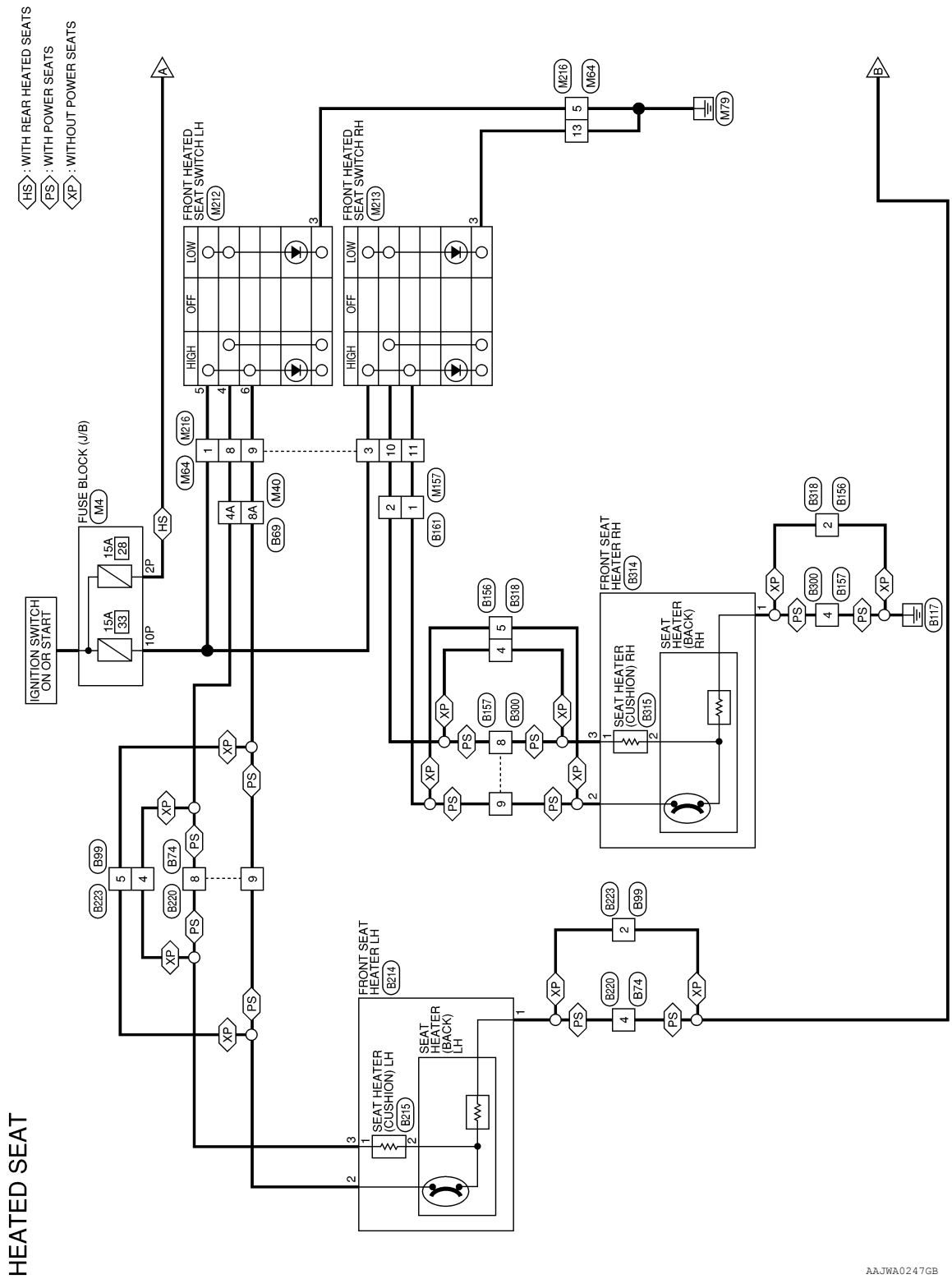
Terminal No.	Color of Wire	Signal Name
1	R	–
4	B	–

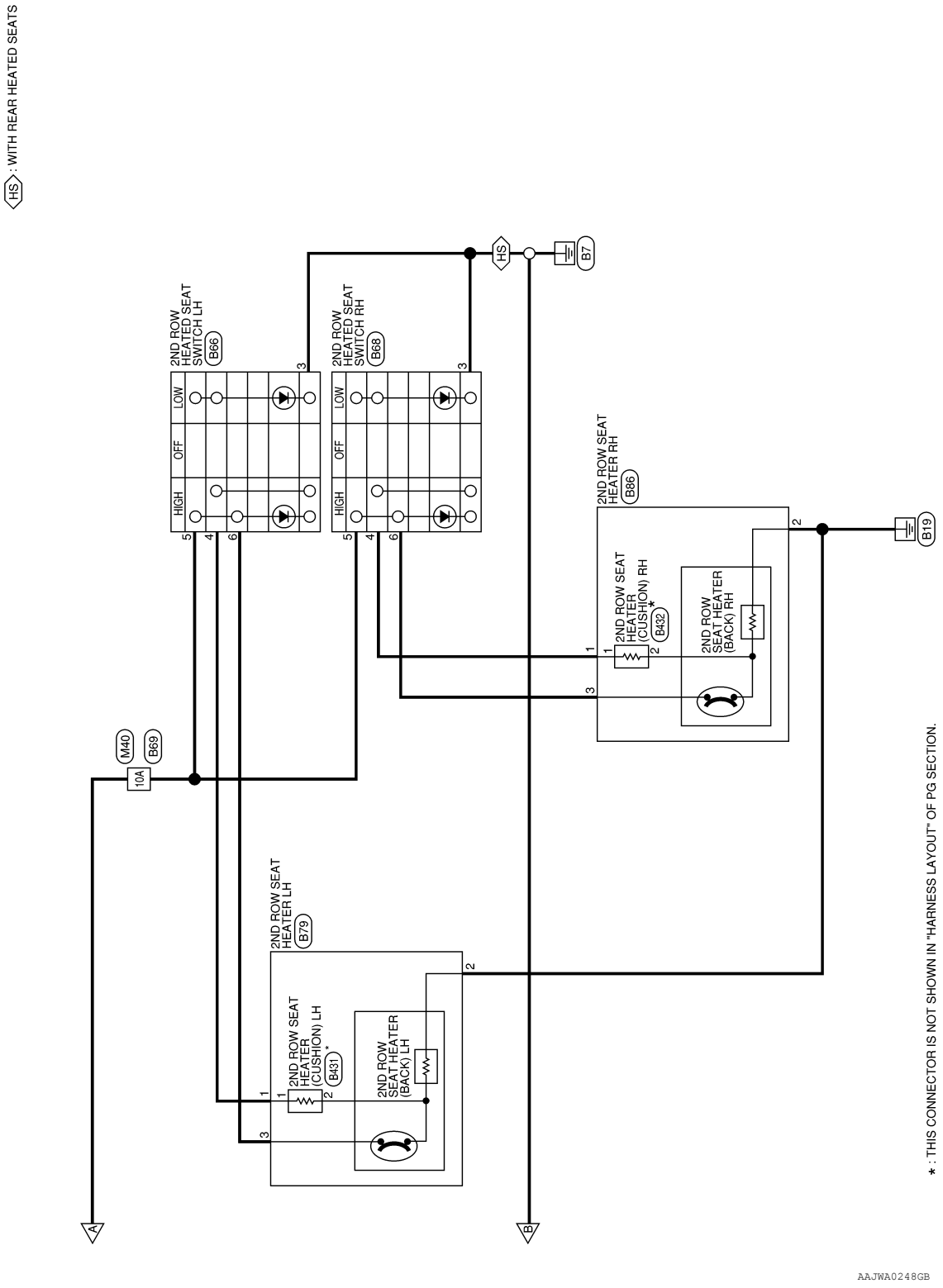
AAJIA0623GB

HEATED SEAT SYSTEM

Wiring Diagram

INFOID:0000000011219081




HS : WITH REAR HEATED SEATS
2ND ROW HEATED SEAT SWITCH LH B66
2ND ROW HEATED SEAT SWITCH RH B68
HIGH
OFF
LOW
HS
B7
2ND ROW SEAT HEATER RH B86
2ND ROW SEAT HEATER (CUSHION) RH B432
2ND ROW SEAT HEATER (BACK) RH
B19
M40
B69
10A
2ND ROW SEAT HEATER LH B79
2ND ROW SEAT HEATER (CUSHION) LH B431
2ND ROW SEAT HEATER (BACK) LH
A
B
* : THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT" OF PG SECTION.
AAJWA0248GB

HEATED SEAT CONNECTORS

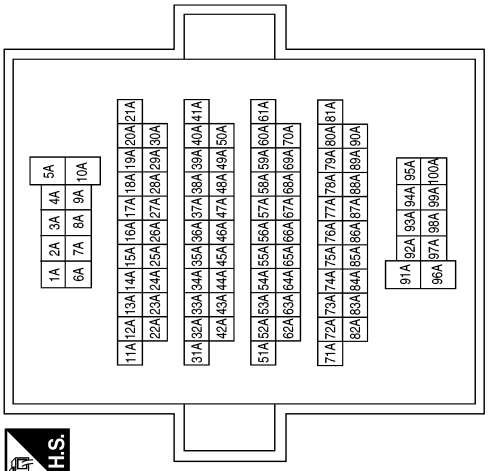
Connector No.	M4
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
2P	LG	–
10P	V	–

Connector No.	M40
Connector Name	WIRE TO WIRE
Connector Color	GRAY

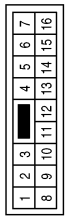
H.S.



Terminal No.	Color of Wire	Signal Name
4A	LG	–
8A	Y	–
10A	LG	–

Connector No.	M64
Connector Name	WIRE TO WIRE
Connector Color	WHITE

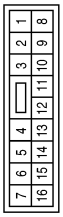
H.S.



Terminal No.	Color of Wire	Signal Name
1	V	–
3	V	–
5	GR	–
8	LG	–

Connector No.	M157
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1	L	– (WITHOUT CLIMATE CONTROLLED SEATS)
2	BR	–

Terminal No.	Color of Wire	Signal Name
9	Y	–
10	BR	–
11	L	–
13	GR	–

AAJIA0610GB

Connector No.	M126
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

7	6	5	4		3	2	1
16	15	14	13	12	11	10	9	8

Terminal No.	Color of Wire	Signal Name
1	V	–
3	V	–
5	GR	–
8	LG	–
9	Y	–
10	BR	–
11	L	–
13	GR	–

Connector No.	M212
Connector Name	FRONT HEATED SEAT SWITCH LH
Connector Color	WHITE

H.S.

1		2
3	4	5	6

Terminal No.	Color of Wire	Signal Name
3	GR	–
4	LG	–
5	V	–
6	Y	–

Connector No.	M213
Connector Name	FRONT HEATED SEAT SWITCH RH
Connector Color	BROWN

H.S.

1		2
3	4	5	6

Terminal No.	Color of Wire	Signal Name
3	GR	–
4	BR	–
5	V	–
6	L	–

Connector No.	B66
Connector Name	2ND ROW HEATED SEAT SWITCH LH
Connector Color	WHITE

H.S.

1		2
3	4	5	6

Terminal No.	Color of Wire	Signal Name
3	B	–
4	L	–
5	Y	–
6	L/W	–

Connector No.	B68
Connector Name	2ND ROW HEATED SEAT SWITCH RH
Connector Color	BROWN

H.S.

1		2
3	4	5	6

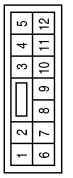
Terminal No.	Color of Wire	Signal Name
3	B	–
4	Y	–
5	Y	–
6	BR	–

AAJIA0611GB

Connector No. B69
Connector Name WIRE TO WIRE
Connector Color GRAY
H.S.
5A 4A 3A 2A 1A
10A 9A 8A 7A 6A
21A 20A 19A 18A 17A 16A 15A 14A 13A 12A 11A
30A 29A 28A 27A 26A 25A 24A 23A 22A
41A 40A 39A 38A 37A 36A 35A 34A 33A 32A 31A
50A 49A 48A 47A 46A 45A 44A 43A 42A
61A 60A 59A 58A 57A 56A 55A 54A 53A 52A 51A
70A 69A 68A 67A 66A 65A 64A 63A 62A
81A 80A 79A 78A 77A 76A 75A 74A 73A 72A 71A
90A 89A 88A 87A 86A 85A 84A 83A 82A
95A 94A 93A 92A 91A
100A 99A 98A 97A 96A
Terminal No. Color of Wire Signal Name
4A V –
8A L/W –
10A Y –
Connector No. B74
Connector Name WIRE TO WIRE (WITH POWER SEATS)
Connector Color WHITE
H.S.
1 2 3 4 5
6 7 8 9 10 11 12
Terminal No. Color of Wire Signal Name
4 B –
8 V – (WITHOUT CLIMATE CONTROLLED SEATS)
9 L/W – (WITHOUT CLIMATE CONTROLLED SEATS)
Connector No. B79
Connector Name 2ND ROW SEAT HEATER LH
Connector Color WHITE
H.S.
1 2 3
Terminal No. Color of Wire Signal Name
1 L –
2 B –
3 L/W –
Connector No. B86
Connector Name 2ND ROW SEAT HEATER RH
Connector Color WHITE
H.S.
1 2 3
Terminal No. Color of Wire Signal Name
1 B –
2 Y –
3 BR –
Connector No. B99
Connector Name WIRE TO WIRE (WITHOUT POWER SEATS)
Connector Color WHITE
H.S.
1 2
3 4 5 6
Terminal No. Color of Wire Signal Name
2 B –
4 V –
5 L/W –
Connector No. B156
Connector Name WIRE TO WIRE (WITHOUT POWER SEATS)
Connector Color WHITE
H.S.
1 2
3 4 5 6
Terminal No. Color of Wire Signal Name
2 B –
4 G/W –
5 Y –
AAJIA0612GB

Connector No.	B157
Connector Name	WIRE TO WIRE (WITH POWER SEATS)
Connector Color	WHITE

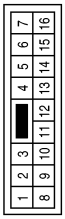
H.S.



Terminal No.	Color of Wire	Signal Name
4	B	–
8	G/W	– (WITHOUT CLIMATE CONTROLLED SEATS)
9	Y	– (WITHOUT CLIMATE CONTROLLED SEATS)

Connector No.	B161
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1	Y	– (WITHOUT CLIMATE CONTROLLED SEATS)
2	G/W	–

Connector No.	B214
Connector Name	FRONT SEAT HEATER LH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	B	–
2	R	–
3	LG	–

Connector No.	B215
Connector Name	SEAT HEATER (CUSHION) LH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	LG	–
2	LG	–

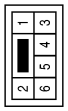
Connector No.	B220
Connector Name	WIRE TO WIRE (WITH POWER SEATS)
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
4	B	–
8	LG	– (WITHOUT CLIMATE CONTROLLED SEATS)
9	R	– (WITHOUT CLIMATE CONTROLLED SEATS)

Connector No.	B223
Connector Name	WIRE TO WIRE (WITHOUT POWER SEATS)
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
2	B	–
4	LG	–
5	R	–

AAJIA0613GB

Connector No.	B300
Connector Name	WIRE TO WIRE (WITH POWER SEATS)
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
4	B	–
8	LG	– (WITHOUT CLIMATE CONTROLLED SEATS)
9	R	– (WITHOUT CLIMATE CONTROLLED SEATS)

Connector No.	B314
Connector Name	FRONT SEAT HEATER RH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	B	–
2	R	–
3	LG	–

Connector No.	B315
Connector Name	SEAT HEATER (CUSHION) RH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	LG	–
2	LG	–

Connector No.	B318
Connector Name	WIRE TO WIRE (WITHOUT POWER SEATS)
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
2	B	–
4	LG	–
5	R	–

Connector No.	B431
Connector Name	2ND ROW SEAT HEATER (CUSHION) LH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	Y	–
2	Y	–

Connector No.	B432
Connector Name	2ND ROW SEAT HEATER (CUSHION) RH
Connector Color	WHITE

H.S.

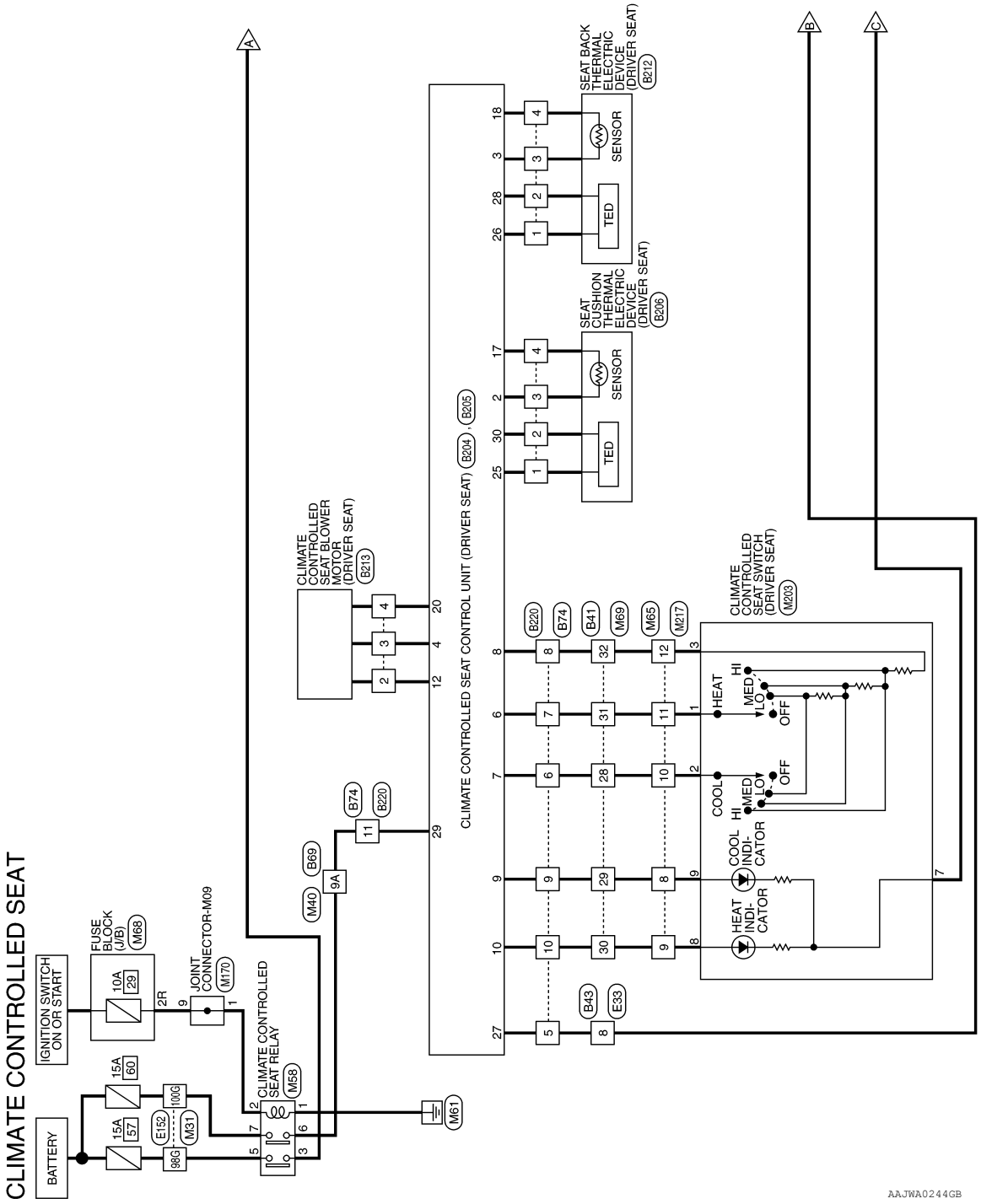
Terminal No.	Color of Wire	Signal Name
1	Y	–
2	Y	–

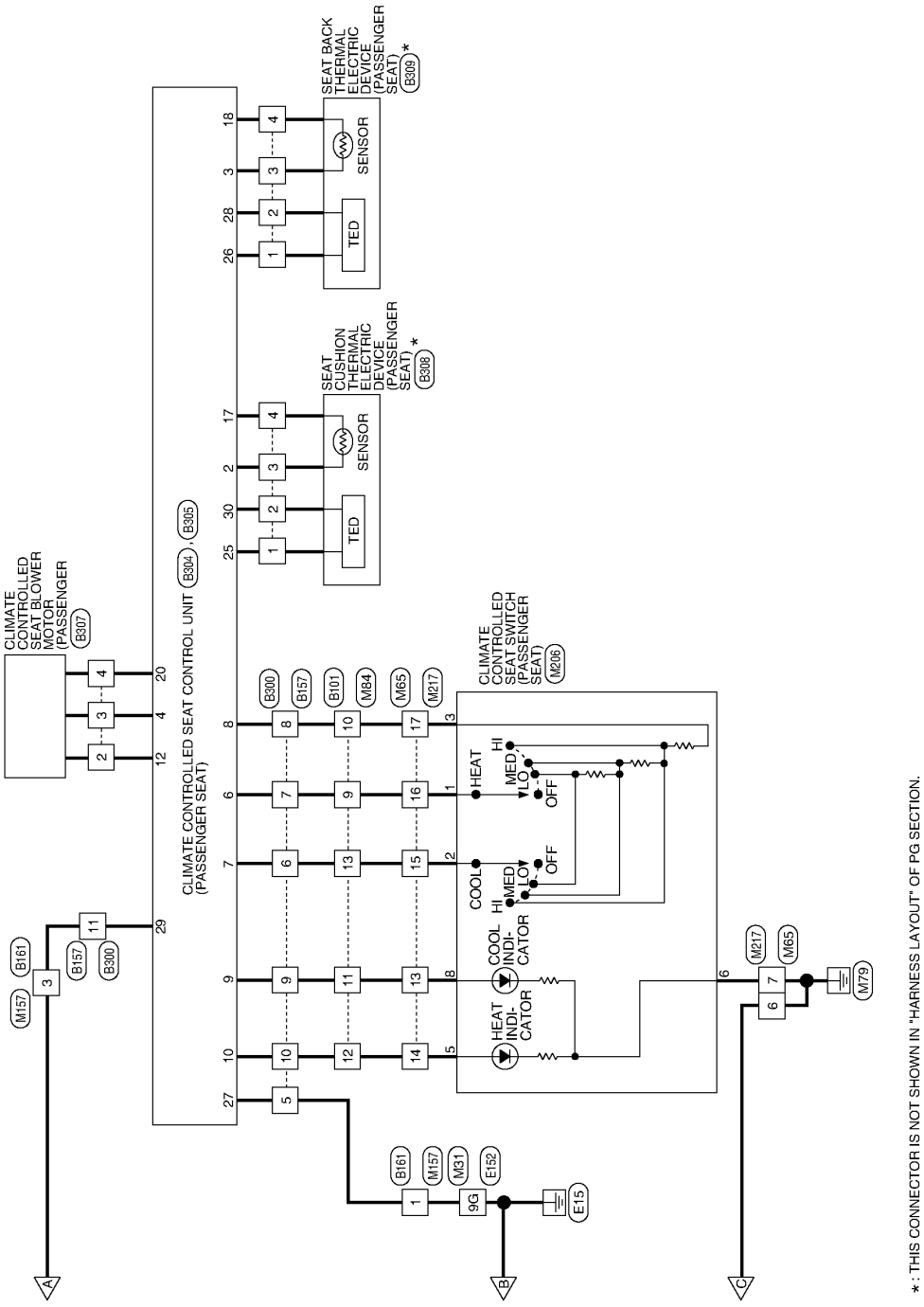
AAJIA0614GB

CLIMATE CONTROLLED SEAT SYSTEM

Wiring Diagram

INFOID:0000000011219082




CLIMATE CONTROLLED SEAT BLOWER MOTOR (PASSENGER SEAT) B307
CLIMATE CONTROLLED SEAT CONTROL UNIT (PASSENGER SEAT) B304, B305
SEAT BACK THERMAL ELECTRIC DEVICE (PASSENGER SEAT) * B309
SEAT CUSHION THERMAL ELECTRIC DEVICE (PASSENGER SEAT) * B308
TED
SENSOR
CLIMATE CONTROLLED SEAT SWITCH (PASSENGER SEAT) M206
HEAT
COOL
HI
MED
LO
OFF
COOL INDI-CATOR
HEAT INDI-CATOR
B161
M157
B157
B300
B101
M84
M65
M217
M31
E152
E15
M79
9G
A
B
C
* : THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT" OF PG SECTION.
AAJWA0245GB

CLIMATE CONTROLLED SEAT CONNECTORS

Connector No.	M31
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

1G	2G	3G	4G	5G
6G	7G	8G	9G	10G

11G	12G	13G	14G	15G	16G	17G	18G	19G	20G	21G
	22G	23G	24G	25G	26G	27G	28G	29G	30G	
31G	32G	33G	34G	35G	36G	37G	38G	39G	40G	41G
	42G	43G	44G	45G	46G	47G	48G	49G	50G	
51G	52G	53G	54G	55G	56G	57G	58G	59G	60G	61G
	62G	63G	64G	65G	66G	67G	68G	69G	70G	
71G	72G	73G	74G	75G	76G	77G	78G	79G	80G	81G
	82G	83G	84G	85G	86G	87G	88G	89G	90G	

91G	92G	93G	94G	95G
96G	97G	98G	99G	100G

Terminal No.	Color of Wire	Signal Name
9G	B	–
98G	R	–
100G	P	–

Connector No.	M40
Connector Name	WIRE TO WIRE
Connector Color	GRAY

H.S.

1A	2A	3A	4A	5A
6A	7A	8A	9A	10A

11A	12A	13A	14A	15A	16A	17A	18A	19A	20A	21A
	22A	23A	24A	25A	26A	27A	28A	29A	30A	
31A	32A	33A	34A	35A	36A	37A	38A	39A	40A	41A
	42A	43A	44A	45A	46A	47A	48A	49A	50A	
51A	52A	53A	54A	55A	56A	57A	58A	59A	60A	61A
	62A	63A	64A	65A	66A	67A	68A	69A	70A	
71A	72A	73A	74A	75A	76A	77A	78A	79A	80A	81A
	82A	83A	84A	85A	86A	87A	88A	89A	90A	

91A	92A	93A	94A	95A
96A	97A	98A	99A	100A

Terminal No.	Color of Wire	Signal Name
9A	V	–

Connector No.	M58
Connector Name	CLIMATE CONTROLLED SEAT RELAY
Connector Color	BROWN

H.S.

2	1
7	5
6	3

Terminal No.	Color of Wire	Signal Name
1	B	–
2	LG	–
3	W	–
5	R	–
6	V	–
7	P	–

AAJIA0599GB

Connector No.	M65
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40

Terminal No.	Color of Wire	Signal Name
6	GR	–
7	GR	–
8	BG	–
9	BR	–
10	W	–
11	P	–
12	G	–

Connector No.	M68
Connector Name	FUSE BLOCK (J/B)
Connector Color	BROWN

H.S.

7R	6R	5R	4R		3R	2R	1R
16R	15R	14R	13R	12R	11R	10R	9R	8R

Terminal No.	Color of Wire	Signal Name
2R	LG	–

Terminal No.	Color of Wire	Signal Name
13	W	–
14	BG	–
15	V	–
16	R	–
17	L	–

Connector No.	M69
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17

Terminal No.	Color of Wire	Signal Name
28	W	–
29	BG	–
30	BR	–
31	P	–
32	G	–

Connector No.	M84
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17

Terminal No.	Color of Wire	Signal Name
9	R	–
10	L	–
11	W	–
12	BG	–
13	V	–

Connector No.	M157
Connector Name	WIRE TO WIRE
Connector Color	WHITE

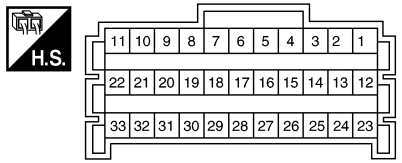
H.S.

7	6	5	4		3	2	1
16	15	14	13	12	11	10	9	8

Terminal No.	Color of Wire	Signal Name
1	B	– (WITH CLIMATE CONTROLLED SEAT)
3	W	–

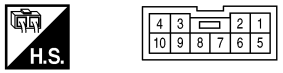
AAJIA0600GB

Connector No.	M170
Connector Name	JOINT CONNECTOR-M09
Connector Color	WHITE



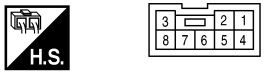
Terminal No.	Color of Wire	Signal Name
1	LG	–
2	LG	–

Connector No.	M203
Connector Name	CLIMATE CONTROLLED SEAT SWITCH (DRIVER SEAT)
Connector Color	WHITE



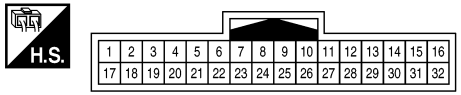
Terminal No.	Color of Wire	Signal Name
1	P	–
2	W	–
3	G	–
7	GR	–
8	BR	–
9	BG	–

Connector No.	M206
Connector Name	CLIMATE CONTROLLED SEAT SWITCH (PASSENGER SEAT)
Connector Color	BROWN



Terminal No.	Color of Wire	Signal Name
1	R	–
2	V	–
3	L	–
6	GR	–
7	BG	–
8	W	–

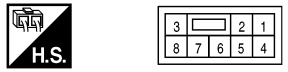
Connector No.	M217
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
6	GR	–
7	GR	–
8	BG	–
9	BR	–
10	W	–
11	P	–
12	G	–

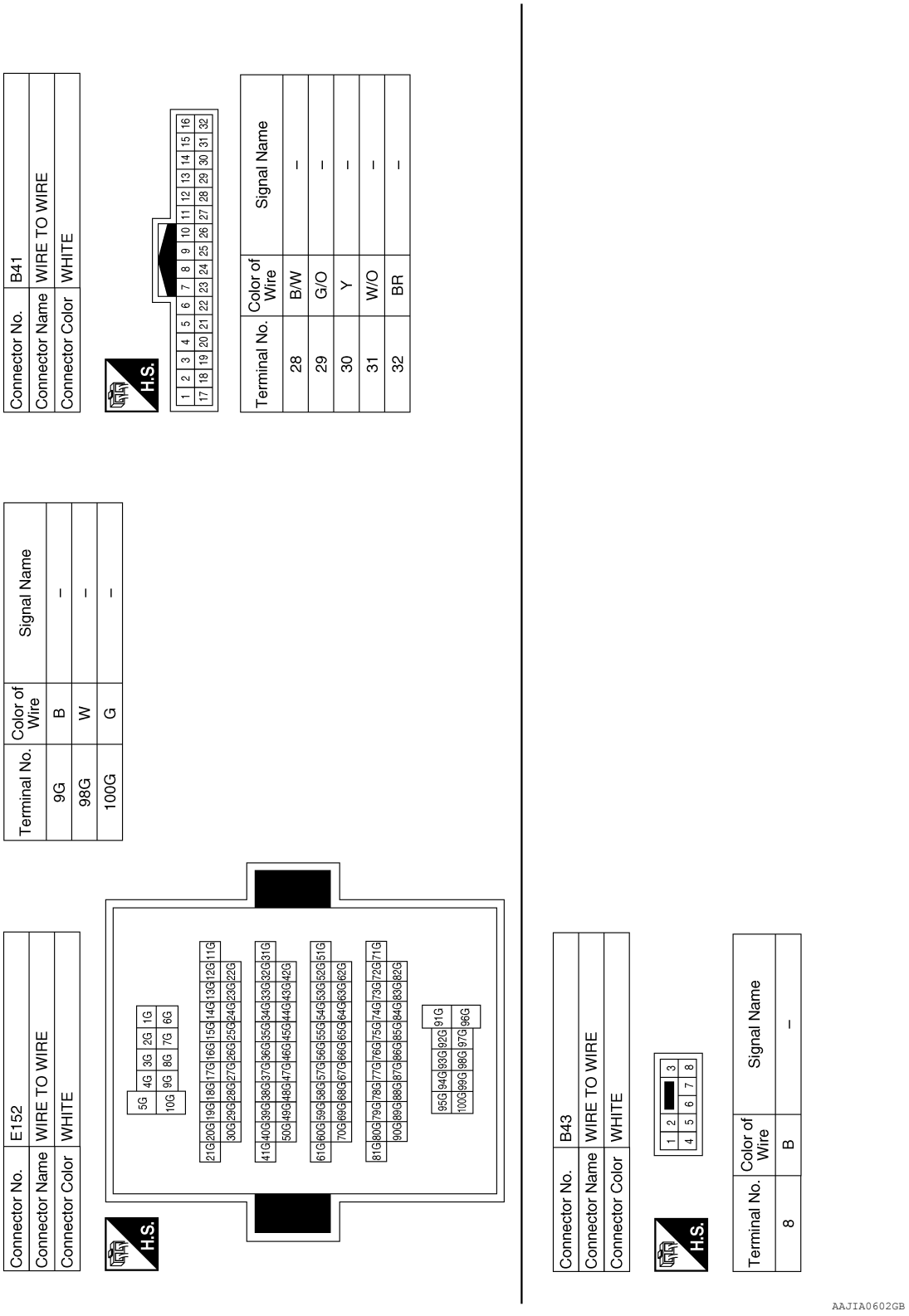
Terminal No.	Color of Wire	Signal Name
13	W	–
14	BG	–
15	V	–
16	R	–
17	L	–

Connector No.	E33
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
8	B	–

AAJIA0601GB


Connector No. B41
Connector Name WIRE TO WIRE
Connector Color WHITE
H.S.
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32
Terminal No. Color of Wire Signal Name
28 B/W –
29 G/O –
30 Y –
31 W/O –
32 BR –
Connector No. E152
Connector Name WIRE TO WIRE
Connector Color WHITE
H.S.
5G 4G 3G 2G 1G
10G 9G 8G 7G 6G
21G 20G 19G 18G 17G 16G 15G 14G 13G 12G 11G
30G 29G 28G 27G 26G 25G 24G 23G 22G
41G 40G 39G 38G 37G 36G 35G 34G 33G 32G 31G
50G 49G 48G 47G 46G 45G 44G 43G 42G
61G 60G 59G 58G 57G 56G 55G 54G 53G 52G 51G
70G 69G 68G 67G 66G 65G 64G 63G 62G
81G 80G 79G 78G 77G 76G 75G 74G 73G 72G 71G
90G 89G 88G 87G 86G 85G 84G 83G 82G
95G 94G 93G 92G 91G
100G 99G 98G 97G 96G
Terminal No. Color of Wire Signal Name
9G B –
98G W –
100G G –
Connector No. B43
Connector Name WIRE TO WIRE
Connector Color WHITE
H.S.
1 2 3
4 5 6 7 8
Terminal No. Color of Wire Signal Name
8 B –
AAJIA0602GB

Connector No.	B69
Connector Name	WIRE TO WIRE
Connector Color	GRAY

H.S.

5A	4A	3A	2A	1A
	9A	8A	7A	6A
10A				

21A	20A	19A	18A	17A	16A	15A	14A	13A	12A	11A
	30A	29A	28A	27A	26A	25A	24A	23A	22A	

41A	40A	39A	38A	37A	36A	35A	34A	33A	32A	31A
	50A	49A	48A	47A	46A	45A	44A	43A	42A	

61A	60A	59A	58A	57A	56A	55A	54A	53A	52A	51A
	70A	69A	68A	67A	66A	65A	64A	63A	62A	

81A	80A	79A	78A	77A	76A	75A	74A	73A	72A	71A
	90A	89A	88A	87A	86A	85A	84A	83A	82A	

95A	94A	93A	92A	91A
100A	99A	98A	97A	96A

Terminal No.	Color of Wire	Signal Name
9A	R	– (WITH CLIMATE CONTROLLED SEAT)

Connector No.	B74
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

1	2		3	4	5
6	7	8	9	10	11	12

Terminal No.	Color of Wire	Signal Name
5	B	–
6	B/W	–
7	W/O	–
8	BR	– (WITH CLIMATE CONTROLLED SEAT)
9	G/O	– (WITH CLIMATE CONTROLLED SEAT)
10	Y	–
11	R	–

Connector No.	B101
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32

Terminal No.	Color of Wire	Signal Name
9	BR	–
10	L/W	–
11	GR/Y	–
12	Y/L	–
13	Y	–

Connector No.	B157
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

5	4		3	2	1
12	11	10	9	8	7	6

Terminal No.	Color of Wire	Signal Name
5	B	–
6	Y	–
7	BR	–
8	L/W	– (WITH CLIMATE CONTROLLED SEAT)
9	GR/Y	– (WITH CLIMATE CONTROLLED SEAT)
10	Y/L	–
11	W	–

Connector No.	B161
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

1	2	3		4	5	6	7
8	9	10	11	12	13	14	15	16

Terminal No.	Color of Wire	Signal Name
1	B	– (WITH CLIMATE CONTROLLED SEAT)
3	W	–

AAJIA0603GB

Connector No.	B204
Connector Name	CLIMATE CONTROLLED SEAT CONTROL UNIT (DRIVER SEAT)
Connector Color	WHITE

Terminal No.	Color of Wire	Signal Name
1	–	–
2	BR	SENS CUSH
3	L	SENS BACK
4	P	VSP1 BLOW
5	–	–
6	G	A/C HEAT SW
7	B	A/C COOL SW

Connector No.	B205
Connector Name	CLIMATE CONTROLLED SEAT CONTROL UNIT (DRIVER SEAT)
Connector Color	BLACK

Terminal No.	Color of Wire	Signal Name
25	L	CUSH TED +HEAT
26	W	BACK TED +HEAT
27	GR	A/C CTRL GND
28	G	BACK TED -HEAT
29	R	A/C IGN
30	LG	CUSH TED -HEAT

Terminal No.	Color of Wire	Signal Name
8	Y	A/C SW UNIT
9	W	A/C COOL IND
10	LG	A/C HEAT IND
11	–	–
12	R	VM1 BLOW
13	–	–
14	–	–
15	–	–
16	–	–
17	BG	RET CUSH SEN
18	V	RET BACK SEN
19	–	–
20	GR	GND BLOWER
21	–	–
22	–	–
23	–	–
24	–	–

Connector No.	B206
Connector Name	SEAT CUSHION THERMAL ELECTRIC DEVICE (DRIVER SEAT)
Connector Color	WHITE

Terminal No.	Color of Wire	Signal Name
1	L	–
2	LG	–
3	BR	–
4	BG	–

Connector No.	B212
Connector Name	SEAT BACK THERMAL ELECTRIC DEVICE (DRIVER SEAT)
Connector Color	WHITE

Terminal No.	Color of Wire	Signal Name
1	W	–
2	G	–
3	L	–
4	V	–

Connector No.	B213
Connector Name	CLIMATE CONTROLLED SEAT BLOWER MOTOR (DRIVER SEAT)
Connector Color	WHITE

Terminal No.	Color of Wire	Signal Name
2	R	–
3	P	–
4	GR	–

AAJIA0604GB

Connector No.	B220
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

5	4	3		2	1
12	11	10	9	8	7	6

Terminal No.	Color of Wire	Signal Name
5	GR	A/C CTRL GND
6	B	–
7	G	A/C HEAT SW
8	Y	–
9	W	– (WITH CLIMATE CONTROLLED SEAT)
10	LG	–
11	R	–

Connector No.	B300
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

5	4	3		2	1
12	11	10	9	8	7	6

Terminal No.	Color of Wire	Signal Name
5	GR	A/C CTRL GND
6	B	–
7	G	A/C HEAT SW
8	Y	–
9	W	– (WITH CLIMATE CONTROLLED SEAT)
10	LG	–
11	R	–

Connector No.	B304
Connector Name	CLIMATE CONTROLLED SEAT CONTROL UNIT (PASSENGER SEAT)
Connector Color	BLACK

H.S.

30	28	26
29	27	25

Terminal No.	Color of Wire	Signal Name
25	L	CUSH TED +HEAT
26	W	BACK TED +HEAT
27	GR	A/C CTRL GND
28	G	BACK TED -HEAT
29	R	A/C IGN
30	LG	CUSH TED -HEAT

Terminal No.	Color of Wire	Signal Name
16	–	–
17	BG	RET CUSH SEN
18	V	RET BACK SEN
19	–	–
20	GR	GND BLOWER
21	–	–
22	–	–
23	–	–
24	–	–

Connector No.	B305
Connector Name	CLIMATE CONTROLLED SEAT CONTROL UNIT (PASSENGER SEAT)
Connector Color	WHITE

H.S.

12	11	10	9	8	7	6	5	4	3	2	1
24	23	22	21	20	19	18	17	16	15	14	13

Terminal No.	Color of Wire	Signal Name
1	–	–
2	BR	SENS CUSH
3	L	SENS BACK
4	P	VSP1 BLOW
5	–	–
6	G	A/C HEAT SW
7	B	A/C COOL SW
8	Y	A/C SW UNIT
9	W	A/C COOL IND
10	LG	A/C HEAT IND
11	–	–
12	R	VM1 BLOW
13	–	–
14	–	–
15	–	–

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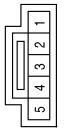
Connector No.	B307
Connector Name	CLIMATE CONTROLLED SEAT BLOWER MOTOR (PASSENGER SEAT)
Connector Color	WHITE

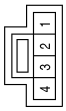
H.S.



Terminal No.	Color of Wire	Signal Name
1	–	–
2	R	–
3	P	–
4	GR	–
5	–	–

Connector No.	B308
Connector Name	SEAT CUSHION THERMAL ELECTRIC DEVICE (PASSENGER SEAT)
Connector Color	WHITE

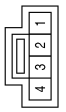
H.S.



Terminal No.	Color of Wire	Signal Name
1	L	–
2	LG	–
3	BR	–
4	BG	–

Connector No.	B309
Connector Name	SEAT BACK THERMAL ELECTRIC DEVICE (PASSENGER SEAT)
Connector Color	WHITE

H.S.



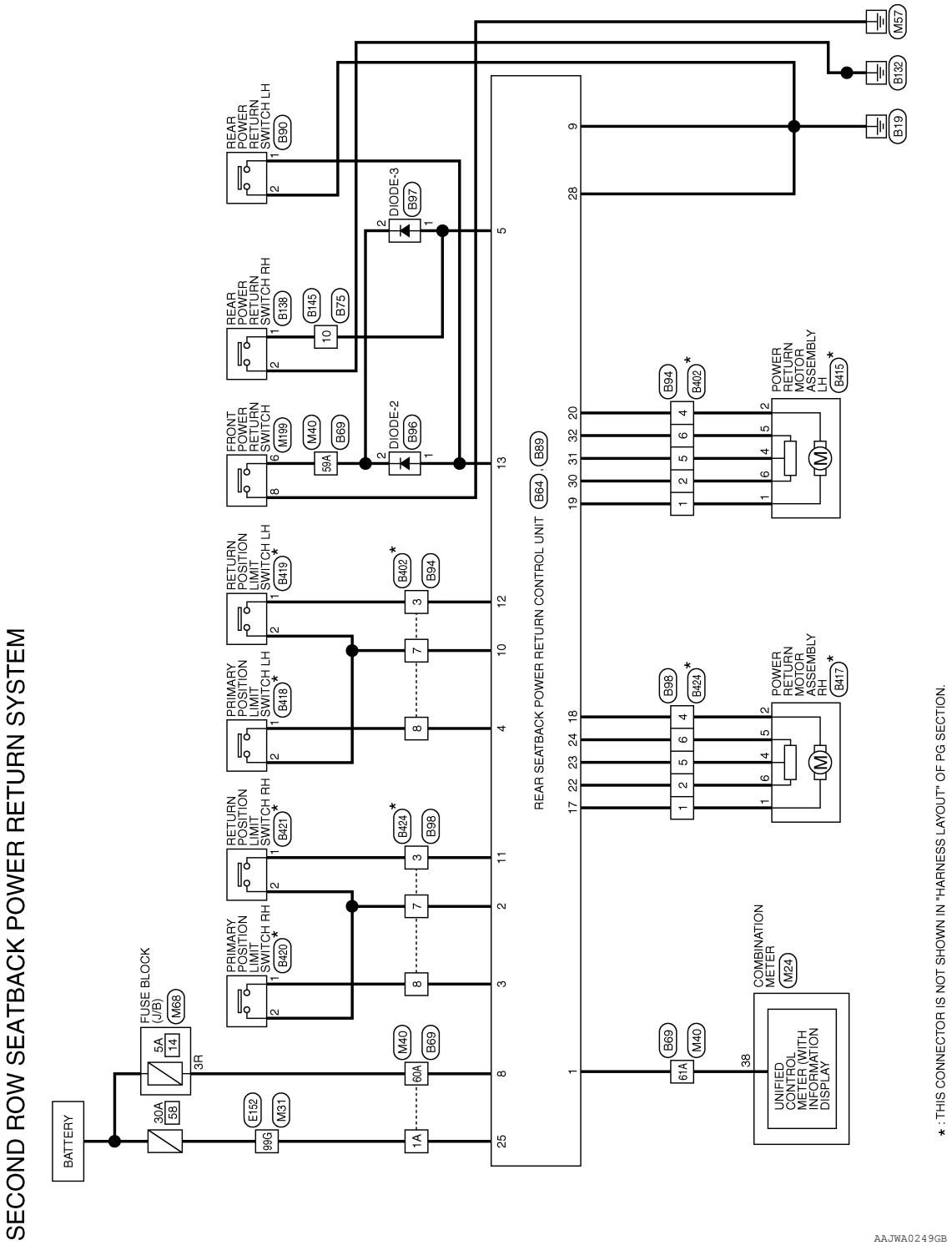
Terminal No.	Color of Wire	Signal Name
1	W	–
2	G	–
3	L	–
4	V	–

AAJIA0606GB

SECOND ROW SEATBACK POWER RETURN SYSTEM

Wiring Diagram

INFOID:0000000011219083



SECOND ROW SEATBACK POWER RETURN SYSTEM CONNECTORS

Connector No.	M24
Connector Name	COMBINATION METER
Connector Color	WHITE

H.S.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40

Terminal No.	Color of Wire	Signal Name
38	BR	SPEED 2P/R OUT

Connector No.	M31
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

1G	2G	3G	4G	5G	
6G	7G	8G	9G	10G	

11G	12G	13G	14G	15G	16G	17G	18G	19G	20G	21G	31G	32G	33G	34G	35G	36G	37G	38G	39G	40G	41G
22G	23G	24G	25G	26G	27G	28G	29G	30G			42G	43G	44G	45G	46G	47G	48G	49G	50G		
51G	52G	53G	54G	55G	56G	57G	58G	59G	60G	61G	71G	72G	73G	74G	75G	76G	77G	78G	79G	80G	81G
62G	63G	64G	65G	66G	67G	68G	69G	70G			82G	83G	84G	85G	86G	87G	88G	89G	90G		
											91G	92G	93G	94G	95G				
											96G	97G	98G	99G	100G				

Terminal No.	Color of Wire	Signal Name
99G	R	–

Connector No.	M40
Connector Name	WIRE TO WIRE
Connector Color	GRAY

H.S.

1A	2A	3A	4A	5A	
6A	7A	8A	9A	10A	

11A	12A	13A	14A	15A	16A	17A	18A	19A	20A	21A	31A	32A	33A	34A	35A	36A	37A	38A	39A	40A	41A
22A	23A	24A	25A	26A	27A	28A	29A	30A			42A	43A	44A	45A	46A	47A	48A	49A	50A		
51A	52A	53A	54A	55A	56A	57A	58A	59A	60A	61A	71A	72A	73A	74A	75A	76A	77A	78A	79A	80A	81A
62A	63A	64A	65A	66A	67A	68A	69A	70A			82A	83A	84A	85A	86A	87A	88A	89A	90A		
											91A	92A	93A	94A	95A				
											96A	97A	98A	99A	100A				

Terminal No.	Color of Wire	Signal Name
1A	R	–
59A	L	–
60A	G	–
61A	BR	–

AAJIA0615GB

Connector No.	M68
Connector Name	FUSE BLOCK (J/B)
Connector Color	BROWN

H.S.

7R	6R	5R	4R		3R	2R	1R
16R	15R	14R	13R	12R	11R	10R	9R	8R

Terminal No.	Color of Wire	Signal Name
3R	G	–

Connector No.	M199
Connector Name	FRONT POWER RETURN SWITCH
Connector Color	WHITE

H.S.

4	3	2	1
8	7	6	5

Terminal No.	Color of Wire	Signal Name
6	L	–
8	B	–

Connector No.	E152
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

5G	4G	3G	2G	1G
10G	9G	8G	7G	6G

21G	20G	19G	18G	17G	16G	15G	14G	13G	12G	11G
30G	29G	28G	27G	26G	25G	24G	23G	22G		

41G	40G	39G	38G	37G	36G	35G	34G	33G	32G	31G
50G	49G	48G	47G	46G	45G	44G	43G	42G		

61G	60G	59G	58G	57G	56G	55G	54G	53G	52G	51G
70G	69G	68G	67G	66G	65G	64G	63G	62G		

81G	80G	79G	78G	77G	76G	75G	74G	73G	72G	71G
90G	89G	88G	87G	86G	85G	84G	83G	82G		

95G	94G	93G	92G	91G
100G	99G	98G	97G	96G

Terminal No.	Color of Wire	Signal Name
99G	R	–

Connector No.	B64
Connector Name	REAR SEATBACK POWER RETURN CONTROL UNIT
Connector Color	WHITE

H.S.

8	7	6	5	4	3	2	1
16	15	14	13	12	11	10	9

Terminal No.	Color of Wire	Signal Name
1	L/R	SPEED 8PR
2	R	RH SW GND
3	V	PRIMAL SW RH
4	V	PRIMAL SW LH
5	P	RH SW
6	–	–
7	–	–
8	Y/L	BAT SIG
9	B	GND SIG
10	R	LH SW GND
11	G/W	RETURN SW RH
12	G/W	RETURN SW LH
13	G	LH SW

Terminal No.	Color of Wire	Signal Name
14	–	–
15	–	–
16	–	–

AAJIA0616GB

Connector No.	B75
Connector Name	WIRE TO WIRE
Connector Color	GRAY

H.S.

7	6	5	4		3	2	1
16	15	14	13	12	11	10	9	8

Terminal No.	Color of Wire	Signal Name
10	P	–

Connector No.	B90
Connector Name	REAR POWER RETURN SWITCH LH
Connector Color	WHITE

H.S.

4	3	2	1

Terminal No.	Color of Wire	Signal Name
1	R	–
2	B	–

Terminal No.	Color of Wire	Signal Name
1A	G	–
59A	G	–
60A	Y/L	–
61A	L/R	–

Connector No.	B69
Connector Name	WIRE TO WIRE
Connector Color	GRAY

H.S.

			5A	4A	3A	2A	1A												
				10A	9A	8A	7A	6A											
21A	20A	19A	18A	17A	16A	15A	14A	13A	12A	11A									
		30A	29A	28A	27A	26A	25A	24A	23A	22A									
41A	40A	39A	38A	37A	36A	35A	34A	33A	32A	31A									
		50A	49A	48A	47A	46A	45A	44A	43A	42A									
61A	60A	59A	58A	57A	56A	55A	54A	53A	52A	51A									
		70A	69A	68A	67A	66A	65A	64A	63A	62A									
81A	80A	79A	78A	77A	76A	75A	74A	73A	72A	71A									
		90A	89A	88A	87A	86A	85A	84A	83A	82A									
			95A	94A	93A	92A	91A												
				100A	99A	98A	97A	96A											

Terminal No.	Color of Wire	Signal Name
21	–	–
22	L	RETURN SENS PWR RH
23	O	RETURN SENS SIG RH
24	Y	RETURN SENS GND RH
25	G	BAT POWER
26	–	–
27	–	–
28	B	GND POWER
29	–	–
30	L	RETURN SENS PWR LH
31	O	RETURN SENS SIG LH
32	Y	RETURN SENS GND LH

Connector No.	B89
Connector Name	REAR SEATBACK POWER RETURN CONTROL UNIT
Connector Color	WHITE

H.S.

24	23	22	21	20	19	18	17
32	31	30	29	28	27	26	25

Terminal No.	Color of Wire	Signal Name
17	BR	MTR RH +
18	W	MTR RH -
19	BR	MTR LH +
20	W	MTR LH -

AAJIA0617GB

Connector No.	B94
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

3		2	1
8	7	6	5	4

Terminal No.	Color of Wire	Signal Name
1	BR	–
2	L	–
3	G/W	–
4	W	–
5	O	–
6	Y	–
7	R	–
8	V	–

Connector No.	B96
Connector Name	DIODE-2
Connector Color	BLACK

H.S.

2	1

Terminal No.	Color of Wire	Signal Name
1	G	–
2	G	–

Connector No.	B97
Connector Name	DIODE-3
Connector Color	BLACK

H.S.

2	1

Terminal No.	Color of Wire	Signal Name
1	P	–
2	L	–

Connector No.	B98
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

3		2	1
8	7	6	5	4

Terminal No.	Color of Wire	Signal Name
1	BR	–
2	L	–
3	G/W	–
4	W	–
5	O	–
6	Y	–
7	R	–
8	V	–

Connector No.	B138
Connector Name	REAR POWER RETURN SWITCH RH
Connector Color	WHITE

H.S.

4	3	2	1

Terminal No.	Color of Wire	Signal Name
1	L	–
2	B/W	–

Connector No.	B145
Connector Name	WIRE TO WIRE
Connector Color	GRAY

H.S.

1	2	3		4	5	6	7
8	9	10	11	12	13	14	15	16

Terminal No.	Color of Wire	Signal Name
10	L	–

AAJIA0618GB

Connector No.	B402
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	L	–
2	Y	–
3	P	–
4	R	–
5	G	–
6	B	–
7	BR	–
8	W	–

Connector No.	B415
Connector Name	POWER RETURN MOTOR LH
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1	L	–
2	R	–
3	–	–
4	G	–
5	B	–
6	Y	–

Connector No.	B417
Connector Name	POWER RETURN MOTOR RH
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1	L	–
2	R	–
3	–	–
4	G	–
5	B	–
6	Y	–

Connector No.	B418
Connector Name	PRIMARY POSITION LIMIT SWITCH LH
Connector Color	BROWN

H.S.

Terminal No.	Color of Wire	Signal Name
1	W	–
2	BR	–

Connector No.	B419
Connector Name	RETURN POSITION LIMIT SWITCH LH
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1	P	–
2	BR	–

Connector No.	B420
Connector Name	PRIMARY POSITION LIMIT SWITCH RH
Connector Color	BROWN

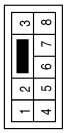
H.S.

Terminal No.	Color of Wire	Signal Name
1	W	–
2	BR	–

AAJIA0619GB

Connector No.	B424
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1	L	–
2	Y	–
3	P	–
4	R	–
5	G	–
6	B	–
7	BR	–
8	W	–

Connector No.	B421
Connector Name	RETURN POSITION LIMIT SWITCH RH
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1	P	–
2	BR	–

AAJIA0620GB

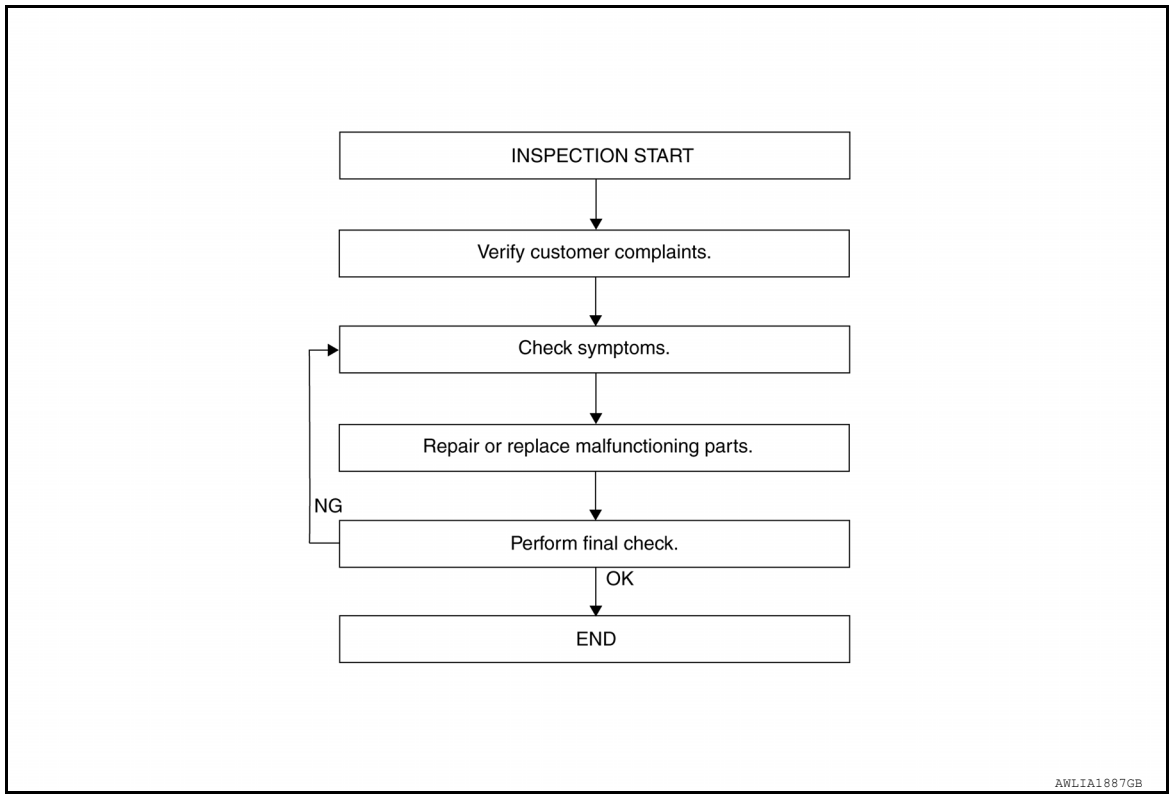
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

INFOID:0000000011219084

OVERALL SEQUENCE



DETAILED FLOW

1. INSPECTION START

Review customer complaint. Try to obtain detailed information about the conditions when the symptom occurs.

>> GO TO 2.

2. VERIFY CUSTOMER COMPLAINTS

Verify the symptom by performing an operational check. Refer to SE-22, "CLIMATE CONTROLLED SEAT SYSTEM : System Description" or SE-23, "SECOND ROW SEATBACK POWER RETURN SYSTEM : System Description".

>> GO TO 3.

3. CHECK SYMPTOMS

Diagnose the vehicle by performing the appropriate trouble diagnosis. Refer to SE-110, "Symptom Table" or SE-111, "Symptom Table".

>> GO TO 4.

4. REPAIR OR REPLACE MALFUNCTIONING PARTS

Repair or replace the specific parts.

>> GO TO 5.

5. PERFORM FINAL CHECK

Perform a final inspection of the system.

Is the inspection result normal?

YES >> Inspection End.
NO >> GO TO 2.

DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT

CLIMATE CONTROLLED SEAT CONTROL UNIT

CLIMATE CONTROLLED SEAT CONTROL UNIT : Diagnosis Procedure

INFOID:0000000011219085

Regarding Wiring Diagram information, refer to SE-52, "Wiring Diagram".

DRIVER SIDE

1. CHECK FUSE

Check if any of the following fuses are blown.

Signal name	Fuse No.
Battery power supply	60 (15A)
IGN power supply	29 (10A)

Is the fuse blown?

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

2. CHECK CLIMATE CONTROLLED SEAT CONTROL UNIT (DRIVER SIDE) POWER SUPPLY

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

(+)		(−)	Voltage (Approx.)
Climate controlled seat control unit (driver side)			
Connector	Terminal		
B205	29	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 7.
NO >> GO TO 3.

3. CHECK CLIMATE CONTROLLED SEAT CONTROL UNIT (DRIVER SIDE) POWER SUPPLY CIRCUIT

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

Climate controlled seat control unit (driver side)		Climate controlled seat relay		Continuity
Connector	Terminal	Connector	Terminal	
B205	29	M58	6	Yes

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

Climate controlled seat control unit (driver side)		Ground	Continuity
Connector	Terminal		
B205	29		No

Is the inspection result normal?

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

4.CHECK CLIMATE CONTROLLED SEAT RELAY POWER SUPPLY CIRCUIT

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

(+)		(–)	Voltage (Approx.)
Climate controlled seat relay			
Connector	Terminal		
M58	2	Ground	Battery voltage
	7		

Is the inspection result normal?

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

5.CHECK CLIMATE CONTROLLED SEAT RELAY GROUND CIRCUIT

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

Climate controlled seat relay		Ground	Continuity
Connector	Terminal		
M58	1		Yes

Is the inspection result normal?

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

6.CHECK CLIMATE CONTROLLED SEAT RELAY

Check climate controlled seat relay.
Refer to SE-74, "CLIMATE CONTROLLED SEAT CONTROL UNIT : Component Inspection".

Is the inspection result normal?

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

7.CHECK CLIMATE CONTROLLED SEAT CONTROL UNIT (DRIVER SIDE) GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Check continuity between climate control unit (driver side) harness connector and ground.

Climate controlled seat control unit (driver side)		Ground	Continuity
Connector	Terminal		
B205	27		Yes

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".
NO >> Repair or replace harness or connector.

PASSENGER SIDE

1.CHECK FUSE

Check if any of the following fuses are blown.

Signal name	Fuse No.
Battery power supply	57 (15A)
IGN power supply	29 (10A)

Is the fuse blown?

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

2.CHECK CLIMATE CONTROLLED SEAT CONTROL UNIT (PASSENGER SIDE) POWER SUPPLY

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

(+)		(–)	Voltage (Approx.)
Climate controlled seat control unit (passenger side)			
Connector	Terminal		
B305	29	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 7.
NO >> GO TO 3.

3.CHECK CLIMATE CONTROLLED SEAT CONTROL UNIT (PASSENGER SIDE) POWER SUPPLY CIRCUIT

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

Climate controlled seat control unit (passenger side)		Climate controlled seat relay		Continuity
Connector	Terminal	Connector	Terminal	
B305	29	M58	3	Yes

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

Climate controlled seat control unit (passenger side)		Ground	Continuity
Connector	Terminal		
B305	29		No

Is the inspection result normal?

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

4.CHECK CLIMATE CONTROLLED SEAT RELAY POWER SUPPLY CIRCUIT

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

(+)		(–)	Voltage (Approx.)
Climate controlled seat relay			
Connector	Terminal		
M58	2	Ground	Battery voltage
	5		

Is the inspection result normal?

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

5.CHECK CLIMATE CONTROLLED SEAT RELAY GROUND CIRCUIT

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

Climate controlled seat relay		Ground	Continuity
Connector	Terminal		
M58	1		Yes

Is the inspection result normal?

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

6.CHECK CLIMATE CONTROLLED SEAT RELAY

Check climate controlled seat relay.
Refer to SE-74, "CLIMATE CONTROLLED SEAT CONTROL UNIT : Component Inspection".

Is the inspection result normal?

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

7.CHECK CLIMATE CONTROLLED SEAT CONTROL UNIT (PASSENGER SIDE) GROUND CIRCUIT

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

Climate controlled seat control unit (passenger side)		Ground	Continuity
Connector	Terminal		
B305	27		Yes

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".
NO >> Repair harness or connector.

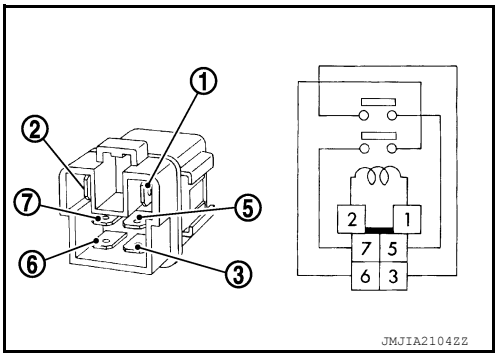
CLIMATE CONTROLLED SEAT CONTROL UNIT : Component Inspection

INFOID:0000000011219086

1.CHECK CLIMATE CONTROLLED SEAT RELAY

1. Turn ignition switch OFF.
2. Remove climate controlled seat relay.
3. Check the continuity between climate controlled seat relay terminals under the following conditions.

Terminal		Condition	Continuity
3	5	12 V direct current supply between terminals 1 and 2.	Yes
		No current supply	No
6	7	12 V direct current supply between terminals 1 and 2.	Yes
		No current supply	No



Is the inspection result normal?

YES >> Inspection End.
NO >> Replace climate controlled seat relay.

SEATBACK POWER RETURN CONTROL UNIT

SEATBACK POWER RETURN CONTROL UNIT : Diagnosis Procedure

INFOID:0000000011219087

1.CHECK FUSE

Check that the following fuses are not blown.

Signal name	Fuse No.
Battery power supply	14 (5A)
	58 (30A)

Is the inspection result normal?

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

2.CHECK POWER SUPPLY

1. Turn ignition switch OFF.
2. Disconnect seatback power return control unit connector.
3. Check voltage between seatback power return control unit harness connector and ground.

(+)		(−)	Voltage (Approx.)
Seatback power return control unit			
Connector	Terminal		
B64	8	Ground	Battery voltage
B89	25		

Is the inspection result normal?

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

3.CHECK GROUND CIRCUIT

Check continuity between seatback power return control unit harness connector and ground.

Seatback power return control unit		Ground	Continuity
Connector	Terminal		
B64	9		Yes
B89	28		

Is the inspection result normal?

YES >> Inspection End.
NO >> Repair harness or connector.

CLIMATE CONTROLLED SEAT SWITCH

Component Function Check

INFOID:0000000011219088

1.CHECK CLIMATE CONTROLLED SEAT SWITCH FUNCTION

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

Is the inspection result normal?

YES >> Climate controlled seat switch is OK.
NO >> Refer to SE-76, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000011219089

Regarding Wiring Diagram information, refer to SE-52, "Wiring Diagram".

1.CHECK CLIMATE CONTROLLED SEAT CONTROL UNIT INPUT SIGNAL

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

(+)			(–)	Condition			Voltage (Approx.)
Climate controlled seat control unit							
Connector		Terminal					
Driver seat	B204	7	Ground	Climate controlled seat switch (driver side)	COOL	HI	2.6 - 4.2
						MID	1.6 - 2.5
						LO	0.8 - 1.5
					OFF		0
		6			HEAT	HI	2.6 - 4.2
						MID	1.6 - 2.5
						LO	0.8 - 1.5
					OFF		0
Passenger seat	B304	7		Climate controlled seat switch (passenger seat)	COOL	HI	2.6 - 4.2
						MID	1.6 - 2.5
						LO	0.8- 1.5
					OFF		0
		6			HEAT	HI	2.6 - 4.2
						MID	1.6 - 2.5
						LO	0.8 - 1.5
					OFF		0

Is the inspection result normal?

YES >> Inspection End.
NO-1 >> HEAT or COOL mode is NG. GO TO 2.
NO-2 >> HEAT and COOL mode are NG. GO TO 3.

2.CHECK CLIMATE CONTROLLED SEAT SWITCH CIRCUIT

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

Climate controlled seat switch				Climate controlled seat control unit		Continuity
Connector			Terminal	Connector	Terminal	
Driver seat	COOL	M203	2	B204	7	Yes
	HEAT		1		6	
Passenger seat	COOL	M206	2	B304	7	
	HEAT		1		6	

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

Climate controlled seat switch				Ground	Continuity
Connector			Terminal		
Driver seat	COOL	M203	2	Ground	No
	HEAT		1		
Passenger seat	COOL	M206	2		
	HEAT		1		

Is the inspection result normal?

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

3.CHECK CLIMATE CONTROLLED SEAT SWITCH POWER SUPPLY

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

(+)			(–)	Voltage (Approx.)
Climate controlled seat switch				
Connector		Terminal		
Driver seat	M203	3	Ground	Battery voltage
Passenger seat	M206			

Is the inspection result normal?

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

4.CHECK CLIMATE CONTROLLED SEAT SWITCH POWER SUPPLY CIRCUIT

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

Climate controlled seat switch			Climate controlled seat control unit		Continuity
Connector		Terminal	Connector	Terminal	
Driver seat	M203	3	B204	8	Yes
Passenger seat	M206		B304		

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

Climate controlled seat switch			Ground	Continuity
Connector		Terminal		
Driver seat	M203	3	Ground	No
Passenger seat	M206			

Is the inspection result normal?

YES >> Replace climate controlled seat control unit. Refer to SE-118, "Exploded View".
NO >> Repair or replace harness.

5.CHECK CLIMATE CONTROLLED SEAT SWITCH

Check climate controlled seat switch.
Refer to SE-78, "Component Inspection".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".
NO >> Replace climate controlled seat switch. Refer to SE-132, "Climate Controlled Seat Switch".

Component Inspection

INFOID:0000000011219090

1.CHECK CLIMATE CONTROLLED SEAT SWITCH

1. Turn ignition switch OFF.
2. Disconnect climate controlled seat switch connector.
3. Check the continuity between climate controlled seat switch terminals under the following terminals.

Terminal		Condition			Continuity
2	3	Climate controlled seat switch	COOL mode	ON	Yes
				OFF	No
1			HEAT mode	ON	Yes
				OFF	No

Is the inspection result normal?

YES >> Inspection End.
NO >> Replace climate controlled seat switch. Refer to SE-132, "Climate Controlled Seat Switch".

SEATBACK THERMAL ELECTRIC DEVICE

Component Function Check

INFOID:0000000011219091

1.CHECK SEATBACK THERMAL ELECTRIC DEVICE FUNCTION

Check whether or not the temperature of the seatback thermal electric device changes in accordance with the HEAT or COOL switch operation of the climate controlled seat control switch.

Is the inspection result normal?

YES >> Inspection End.
NO >> Refer to SE-79, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000011219092

Regarding Wiring Diagram information, refer to SE-52, "Wiring Diagram".

1.CHECK SEATBACK THERMAL ELECTRIC DEVICE INPUT SIGNAL

1. Turn ignition switch ON.
2. Check voltage between seatback thermal electric device harness connector and ground.

(+)			(–)	Condition		Voltage (Approx.)
Seatback thermal electric device						
Connector		Terminal				
Driver seat	B212	1	Ground	Climate controlled seat switch	HEAT or COOL	0 - 12*
					Other than above	0
		2			HEAT or COOL	0 - 12*
					Other than above	0
Passenger seat	B309	1		Climate controlled seat switch	HEAT or COOL	0 - 12*
					Other than above	0
		2			HEAT or COOL	0 - 12*
					Other than above	0

*:It changes between 12 and 0 V

NOTE:
Wait 1 minute or more after the activation start, and then start the measurement.

Is the inspection result normal?

YES >> Replace seatback thermal electric device. Refer to SE-130, "Seatback Thermal Electric Device".
NO >> GO TO 2.

2.CHECK SEATBACK THERMAL ELECTRIC DEVICE CIRCUIT

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

Climate controlled seat control unit			Seatback thermal electric device		Continuity
Connector		Terminal	Connector	Terminal	
Driver seat	B205	26	B212	1	Yes
		28		2	
Passenger seat	B304	26	B309	1	
		28		2	

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

Climate controlled seat control unit			Ground	Continuity
Connector		Terminal		
Driver seat	B205	26		No
		28		
Passenger seat	B304	26		
		28		

Is the inspection result normal?

YES >> Replace climate controlled seat control unit. Refer to SE-118, "Exploded View".
NO >> Repair or replace harness.

SEATBACK THERMAL ELECTRIC DEVICE SENSOR

Component Function Check

INFOID:0000000011219093

1.CHECK SEATBACK THERMAL ELECTRIC DEVICE SENSOR FUNCTION

Check whether or not the temperature of the seatback thermal electric device changes in accordance with the HEAT or COOL switch operation of the climate controlled seat control switch.

Is the inspection result normal?

YES >> Inspection End.
NO >> Refer to SE-81, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000011219094

Regarding Wiring Diagram information, refer to SE-52, "Wiring Diagram".

1.CHECK SEATBACK THERMAL ELECTRIC DEVICE SENSOR SIGNAL

1. Turn ignition switch ON.
2. Check voltage between seatback thermal electric device harness connector and ground.

(+)		(-)	Condition	Voltage (Approx.)
Seatback thermal electric device				
Connector	Terminal			
Driver seat	B212	3	Ground	Climate controlled seat operated	1 - 5
Passenger seat	B309			

Is the inspection result normal?

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

2.CHECK SEATBACK THERMAL ELECTRIC DEVICE SENSOR CIRCUIT

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

Climate controlled seat control unit			Seatback thermal electric device		Continuity
Connector		Terminal	Connector	Terminal	
Driver seat	B204	3	B212	3	Yes
Passenger seat	B305		B309		

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

Climate controlled seat control unit		Ground	Continuity
Connector	Terminal		
Driver seat	B204	3	No
Passenger seat	B305		

Is the inspection result normal?

YES >> Replace climate controlled seat control unit. Refer to SE-118, "Exploded View".
NO >> Repair or replace harness.

3.CHECK SEATBACK THERMAL ELECTRIC DEVICE SENSOR GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect climate controlled seat control unit connector and seatback thermal electric device connector.

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

Climate controlled seat control unit			Seatback thermal electric device		Continuity
Connector		Terminal	Connector	Terminal	
Driver seat	B204	18	B212	4	Yes
Passenger seat	B305		B309		

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

Climate controlled seat control unit			Ground	Continuity
Connector		Terminal		
Driver seat	B204	18		No
Passenger seat	B305			

Is the inspection result normal?

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

4. CHECK SEATBACK THERMAL ELECTRIC DEVICE SENSOR

Check seatback thermal electric device sensor.
Refer to SE-82, "Component Inspection".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".
NO >> Replace seatback thermal electric device. SE-130, "Seatback Thermal Electric Device".

Component Inspection

INFOID:0000000011219095

1. CHECK SEATBACK THERMAL ELECTRIC DEVICE SENSOR

1. Turn ignition switch OFF.
2. Disconnect seatback thermal electric device connector.
3. Check resistance between seatback thermal electric device terminals.

Seatback thermal electric device		Resistance (Approx.)
Terminal		
3	4	1000Ω*

*: When sensor temperature is 25°C (77°F).

Is the inspection result normal?

YES >> Inspection End.
NO >> Replace seatback thermal electric device. Refer to SE-130, "Seatback Thermal Electric Device".

SEAT CUSHION THERMAL ELECTRIC DEVICE

Component Function Check

INFOID:0000000011219096

1.CHECK SEAT CUSHION THERMAL ELECTRIC DEVICE FUNCTION

Check whether or not the temperature of the seat cushion thermal electric device changes in accordance with the HEAT or COOL switch operation of the climate controlled seat control switch.

Is the inspection result normal?

YES >> Inspection End.
NO >> Refer to SE-83, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000011219097

Regarding Wiring Diagram information, refer to SE-52, "Wiring Diagram".

1.CHECK SEAT CUSHION THERMAL ELECTRIC DEVICE SIGNAL

1. Turn ignition switch ON.
2. Check voltage between seat cushion thermal electric device harness connector and ground.

(+)			(–)	Condition		Voltage (Approx.)
Seat cushion thermal electric device						
Connector		Terminal				
Driver seat	B206	1	Ground	Climate controlled seat switch	HEAT or COOL	0 - 12*
					Other than above	0
		2			HEAT or COOL	0 - 12*
					Other than above	0
Passenger seat	B308	1		Climate controlled seat switch	HEAT or COOL	0 - 12*
					Other than above	0
		2			HEAT or COOL	0 - 12*
					Other than above	0

*:It changes between 12 and 0 V

NOTE:
Wait 1 minute or more after the activation start, and then start the measurement.

Is the inspection result normal?

YES >> Replace seat cushion thermal electric device. Refer to SE-131, "Seat Cushion Thermal Electric Device".
NO >> GO TO 2.

2.CHECK SEAT CUSHION THERMAL ELECTRIC DEVICE CIRCUIT

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

Climate controlled seat control unit			Seat cushion thermal electric device		Continuity
Connector		Terminal	Connector	Terminal	
Driver seat	B205	25	B206	1	Yes
		30		2	
Passenger seat	B304	25	B308	1	
		30		2	

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

Climate controlled seat control unit			Ground	Continuity
Connector		Terminal		
Driver seat	B205	25	Ground	No
		30		
Passenger seat	B304	25		
		30		

Is the inspection result normal?

YES >> Replace climate controlled seat control unit. Refer to SE-118, "Exploded View".
NO >> Repair or replace harness.

SEAT CUSHION THERMAL ELECTRIC DEVICE SENSOR

Component Function Check

INFOID:0000000011219098

1.CHECK SEAT CUSHION THERMAL ELECTRIC DEVICE SENSOR FUNCTION

Check whether or not the temperature of the seat cushion thermal electric device changes in accordance with the HEAT or COOL switch operation of the climate controlled seat control switch.

Is the inspection result normal?

YES >> Inspection End.
NO >> Refer to SE-85, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000011219099

Regarding Wiring Diagram information, refer to SE-52, "Wiring Diagram".

1.CHECK SEAT CUSHION THERMAL ELECTRIC DEVICE SENSOR SIGNAL

1. Turn ignition switch ON.
2. Check voltage between seat cushion thermal electric device harness connector and ground.

(+)			(-)	Condition	Voltage (Approx.)
Seat cushion thermal electric device					
Connector		Terminal			
Driver seat	B206	3	Ground	Climate controlled seat operated	1 - 5
Passenger seat	B308				

Is the inspection result normal?

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

2.CHECK SEAT CUSHION THERMAL ELECTRIC DEVICE SENSOR CIRCUIT

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

Climate controlled seat control unit			Seat cushion thermal electric device		Continuity
Connector		Terminal	Connector	Terminal	
Driver seat	B204	2	B206	3	Yes
Passenger seat	B305		B308		

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

Climate controlled seat control unit			Ground	Continuity
Connector		Terminal		
Driver seat	B204	2		No
Passenger seat	B305			

Is the inspection result normal?

YES >> Replace climate controlled seat control unit. Refer to SE-118, "Exploded View".
NO >> Repair or replace harness.

3.CHECK SEAT CUSHION THERMAL ELECTRIC DEVICE SENSOR GROUND CIRCUIT

1. Turn ignition switch OFF.

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

Climate controlled seat control unit			Seat cushion thermal electric device		Continuity
Connector		Terminal	Connector	Terminal	
Driver seat	B204	17	B206	4	Yes
Passenger seat	B305		B308		

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

Climate controlled seat control unit			Ground	Continuity
Connector		Terminal		
Driver seat	B204	17		No
Passenger seat	B305			

Is the inspection result normal?

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

4. CHECK SEAT CUSHION THERMAL ELECTRIC DEVICE SENSOR

Check seat cushion thermal electric device sensor. Refer to SE-86, "Component Inspection".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".
NO >> Replace seat cushion thermal electric device. SE-131, "Seat Cushion Thermal Electric Device".

Component Inspection

INFOID:0000000011219100

1. CHECK SEAT CUSHION THERMAL ELECTRIC DEVICE SENSOR

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

Seat cushion thermal electric device		Resistance (Approx.)
Terminal		
3	4	1000Ω*

*: When sensor temperature is 25°C (77°F).

Is the inspection result normal?

YES >> Inspection End.
NO >> Replace seat cushion thermal electric device. Refer to SE-131, "Seat Cushion Thermal Electric Device".

CLIMATE CONTROLLED SEAT BLOWER MOTOR

Component Function Check

INFOID:0000000011219101

1.CHECK CLIMATE CONTROLLED SEATBACK BLOWER MOTOR FUNCTION

When turning the climate controlled seat switch to the HEAT or COOL mode position, check that the climate controlled seatback blower is operated in each specific mode.

Is the inspection result normal?

YES >> Inspection End.
NO >> Refer to SE-87, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000011219102

Regarding Wiring Diagram information, refer to SE-52, "Wiring Diagram".

1.CHECK CLIMATE CONTROLLED SEAT BLOWER MOTOR POWER SUPPLY

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

(+)			(–)	Condition		Voltage (Approx.)
Climate controlled seat blower motor						
Connector		Terminal				
Driver seat	B213	2	Ground	Climate controlled seat switch	HEAT mode	Battery voltage
					COOL mode	
					Other than above	0
Passenger seat	B307			Climate controlled seat switch	HEAT mode	Battery voltage
					COOL mode	
					Other than above	0

Is the inspection result normal?

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

2.CHECK CLIMATE CONTROLLED SEAT BLOWER MOTOR POWER SUPPLY CIRCUIT

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

Climate controlled seat blower motor			Climate controlled seat control unit		Continuity
Connector		Terminal	Connector	Terminal	
Driver seat	B213	2	B204	12	Yes
Passenger seat	B307		B305		

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

Climate controlled seat blower motor			Ground	Continuity
Connector		Terminal		
Driver seat	B213	2		No
Passenger seat	B307			

Is the inspection result normal?

YES >> Replace climate controlled seat control unit. Refer to SE-118, "Exploded View".
NO >> Repair or replace harness.

3. CHECK CLIMATE CONTROLLED SEAT BLOWER MOTOR SPEED CONTROL SIGNAL

Check voltage between climate controlled seat blower motor harness connector and ground.

(+)			(–)	Condition			Voltage (Approx.)
Climate controlled seat blower motor							
Connector		Terminal					
Driver seat	B213	3	Ground	Climate controlled seat switch	HEAT		5.5 - 8
					COOL	HI	11.2
						MID	8
						LO	6.5
					Other than above		0
Passenger seat	B307			Climate controlled seat switch	HEAT		5.5 - 8
					COOL	HI	11.2
						MID	8
						LO	6.5
					Other than above		0

Is the inspection result normal?

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

4. CHECK CLIMATE CONTROLLED SEAT BLOWER MOTOR SPEED CONTROL SIGNAL CIRCUIT

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

Climate controlled seat blower motor			Climate controlled seat control unit		Continuity
Connector		Terminal	Connector	Terminal	
Driver seat	B213	3	B204	4	Yes
Passenger seat	B307		B305		

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

Climate controlled seat blower motor			Ground	Continuity
Connector		Terminal		
Driver seat	B213	3		No
Passenger seat	B307			

Is the inspection result normal?

YES >> Replace climate controlled seat control unit. Refer to SE-118, "Exploded View".
NO >> Repair or replace harness.

5. CHECK CLIMATE CONTROLLED SEAT BLOWER MOTOR GROUND CIRCUIT

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

Climate controlled seat blower motor			Climate controlled seat control unit		Continuity
Connector		Terminal	Connector	Terminal	
Driver seat	B213	4	B204	20	Yes
Passenger seat	B307		B305		

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

Climate controlled seat blower motor			Ground	Continuity
Connector		Terminal		
Driver seat	B213	4		No
Passenger seat	B307			

Is the inspection result normal?

YES >> Replace climate controlled seat blower motor. Refer to SE-131, "Climate Controlled Seat Blower Motor".

NO >> Repair or replace harness.

CLIMATE CONTROLLED SEAT SWITCH INDICATOR

Component Function Check

INFOID:0000000011219103

1.CHECK CLIMATE CONTROLLED SEAT SWITCH INDICATOR FUNCTION

Check that the related indicator lamp illuminates when climate controlled seat switch is set to HEAT or COOL mode.

Is the inspection result normal?

YES >> Inspection End.
NO >> Refer to SE-90, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000011219104

Regarding Wiring Diagram information, refer to SE-52, "Wiring Diagram".

1.CHECK CLIMATE CONTROLLED SEAT SWITCH INPUT SIGNAL

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

(+)			(–)	Condition	Voltage (V) (Approx.)
Climate controlled seat switch				Climate controlled seat switch	
Connector		Terminal			
Driver seat	M203	8	Ground	HEAT mode	Battery voltage
				OFF	0
		9		COOL mode	Battery voltage
				OFF	0
Passenger seat	M206	5		HEAT mode	Battery voltage
				OFF	0
		8		COOL mode	Battery voltage
				OFF	0

Is the inspection result normal?

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

2.CHECK CLIMATE CONTROLLED SEAT SWITCH INDICATOR CIRCUIT

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

Climate controlled seat switch			Climate controlled seat control unit		Continuity
Connector		Terminal	Connector	Terminal	
Driver seat	M203	9	B203	9	Yes
		8		10	
Passenger seat	M206	8	B303	9	
		5		10	

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

Climate controlled seat switch			Ground	Continuity
Connector		Terminal		
Driver seat	M203	9	Ground	No
		8		
Passenger seat	M206	8		
		5		

Is the inspection result normal?

YES >> Replace climate controlled seat control unit. Refer to SE-118, "Exploded View".
NO >> Repair or replace harness.

3. CHECK CLIMATE CONTROLLED SEAT SWITCH GROUND CIRCUIT

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

Climate controlled seat switch			Ground	Continuity
Connector		Terminal		
Driver seat	M203	7	Ground	Yes
Passenger seat	M206	6		

Is the inspection result normal?

YES >> Replace climate controlled seat switch. Refer to SE-132, "Climate Controlled Seat Switch".
NO >> Repair or replace harness.

CLIMATE CONTROLLED SEAT BLOWER FILTER

Diagnosis Procedure

INFOID:0000000011219105

1.CHECK CLIMATE CONTROLLED SEAT BLOWER FILTER

Remove climate controlled seat blower filter and check that there is no clogging by dirt or foreign matter.

Is the inspection result normal?

YES >> Inspection End.
NO >> Replace climate controlled seat blower filter. Refer to SE-131, "Climate Controlled Seat Blower Motor".

POWER RETURN SWITCH

FRONT POWER RETURN SWITCH

FRONT POWER RETURN SWITCH : Component Function Check

INFOID:0000000011590401

1.CHECK FUNCTION

Check the front power return switch operation.

Is the inspection result normal?

YES >> Inspection End.
NO >> Refer to SE-93, "FRONT POWER RETURN SWITCH : Diagnosis Procedure".

FRONT POWER RETURN SWITCH : Diagnosis Procedure

INFOID:0000000011590402

1.CHECK FRONT POWER RETURN SWITCH GROUND CIRCUIT

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

Front power return switch		Ground	Continuity
Connector	Terminal		
M199	8		Yes

Is the inspection result normal?

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

2.CHECK FRONT POWER RETURN SWITCH RETURN SIGNAL

Check voltage between front power return switch harness connector and ground.

(+)		(–)	Voltage (V)
Front power return switch			
Connector	Terminal		
M199	6	Ground	4.7 – 5.3

Is the inspection result normal?

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

3.CHECK FRONT POWER RETURN SWITCH CIRCUIT

1. Disconnect rear seatback power return control unit connector.
2. Check continuity between rear seatback power return control unit harness connector and front power return switch harness connector.

Rear seatback power return control unit		Front power return switch		Continuity
Connector	Terminal	Connector	Terminal	
B64	13	M199	6	Yes

3. Check continuity between rear seatback power return control unit harness connector and ground.

Rear seatback power return control unit		Ground	Continuity
Connector	Terminal		
B64	13		No

Is the inspection result normal?

YES >> Replace rear seatback power return control unit. Refer to SE-118, "Exploded View".
NO >> Repair or replace harness.

4.CHECK FRONT POWER RETURN SWITCH

Check front power return switch.
Refer to SE-96, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace front power return switch.

5.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> Inspection End.

REAR POWER RETURN SWITCH LH

REAR POWER RETURN SWITCH LH : Component Function Check

INFOID:0000000011219106

1.CHECK FUNCTION

Check the rear power return switch LH operation.

Is the inspection result normal?

YES >> Inspection End.
NO >> Refer to SE-94, "REAR POWER RETURN SWITCH LH : Diagnosis Procedure".

REAR POWER RETURN SWITCH LH : Diagnosis Procedure

INFOID:0000000011219107

1.CHECK REAR POWER RETURN SWITCH LH GROUND CIRCUIT

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

Rear power return switch LH		Ground	Continuity
Connector	Terminal		
B90	2		Yes

Is the inspection result normal?

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

2.CHECK REAR POWER RETURN SWITCH LH RETURN SIGNAL

Check voltage between rear power return switch LH harness connector and ground.

(+)		(–)	Voltage (V)
Rear power return switch LH			
Connector	Terminal		
B90	1	Ground	4.7 – 5.3

Is the inspection result normal?

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

3.CHECK REAR POWER RETURN SWITCH LH CIRCUIT

1. Disconnect rear seatback power return control unit connector.
2. Check continuity between rear seatback power return control unit harness connector and rear power return switch LH harness connector.

Rear seatback power return control unit		Rear power return switch LH		Continuity
Connector	Terminal	Connector	Terminal	
B64	13	B90	1	Yes

3. Check continuity between rear seatback power return control unit harness connector and ground.

Rear seatback power return control unit		Ground	Continuity
Connector	Terminal		
B64	13		No

Is the inspection result normal?

YES >> Replace rear seatback power return control unit. Refer to SE-149, "Removal and Installation".
NO >> Repair or replace harness.

4.CHECK REAR POWER RETURN SWITCH LH

Check rear power return switch LH.
Refer to SE-147, "Front Power Return Switch".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace rear power return switch LH.

5.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> Inspection End.

REAR POWER RETURN SWITCH RH

REAR POWER RETURN SWITCH RH : Component Function Check

INFOID:0000000011219108

1.CHECK FUNCTION

Check the rear power return switch RH operation.

Is the inspection result normal?

YES >> Inspection End.
NO >> Refer to SE-95, "REAR POWER RETURN SWITCH RH : Diagnosis Procedure".

REAR POWER RETURN SWITCH RH : Diagnosis Procedure

INFOID:0000000011219109

1.CHECK REAR POWER RETURN SWITCH RH GROUND CIRCUIT

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

Rear power return switch RH		Ground	Continuity
Connector	Terminal		
B138	2		Yes

Is the inspection result normal?

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

2.CHECK REAR POWER RETURN SWITCH RH RETURN SIGNAL

Check voltage between rear power return switch RH harness connector and ground.

(+)		(–)	Voltage (V)
Rear power return switch RH			
Connector	Terminal		
B138	1	Ground	4.7 – 5.3

Is the inspection result normal?

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

3.CHECK REAR POWER RETURN SWITCH RH CIRCUIT

1. Disconnect rear seatback power return control unit connector.
2. Check continuity between rear seatback power return control unit harness connector and rear power return switch RH harness connector.

Rear seatback power return control unit		Rear power return switch RH		Continuity
Connector	Terminal	Connector	Terminal	
B64	5	B138	1	Yes

3. Check continuity between rear seatback power return control unit harness connector and ground.

Rear seatback power return control unit		Ground	Continuity
Connector	Terminal		
B64	5		No

Is the inspection result normal?

YES >> Replace rear seatback power return control unit. Refer to SE-149, "Removal and Installation".
NO >> Repair or replace harness.

4.CHECK REAR POWER RETURN SWITCH RH

Check rear power return switch RH.
Refer to SE-96, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace rear power return switch RH.

5.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> Inspection End.

Component Inspection

INFOID:0000000011219110

1.CHECK POWER RETURN SWITCH

1. Turn ignition switch OFF.
2. Remove power return switch.
3. Check power return switch terminals under the following conditions.

Front Power Return Switch

Terminal		Condition		Continuity
6	8	Front power return switch	While being pressed	Yes
			Other than the above	No

Rear Power Return Switch

Terminal		Condition		Continuity
1	2	Rear power return switch	While being pressed	Yes
			Other than the above	No

Is the inspection result normal?

YES >> Inspection End.
NO >> Replace power return switch. Refer to SE-147, "Front Power Return Switch".

SEATBACK ANGLE LIMIT SWITCH
RETURN POSITION LIMIT SWITCH LH
RETURN POSITION LIMIT SWITCH LH : Diagnosis Procedure

INFOID:0000000011219111

1.CHECK RETURN POSITION LIMIT SWITCH LH INPUT SIGNAL

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

(+)		(–)	Voltage (V) (Approx.)
Return position limit switch LH			
Connector	Terminal		
B419	1	Ground	Battery voltage

NOTE:
It is not low power consumption mode.

Is the inspection result normal?

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

2.CHECK RETURN POSITION LIMIT SWITCH LH CIRCUIT

1. Disconnect rear seatback power return control unit connector.
2. Check continuity between rear seatback power return control unit harness connector and return position limit switch LH harness connector.

Rear seatback power return control unit		Return position limit switch LH		Continuity
Connector	Terminal	Connector	Terminal	
B64	12	B419	1	Yes

3. Check continuity between rear seatback power return control unit harness connector and ground.

Rear seatback power return control unit		Ground	Continuity
Connector	Terminal		
B64	12		No

Is the inspection result normal?

YES >> Replace rear seatback power return control unit. Refer to SE-149, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK RETURN POSITION LIMIT SWITCH LH GROUND CIRCUIT

1. Disconnect rear seatback power return control unit connector and primary position limit switch LH connector.
2. Check continuity between rear seatback power return control unit harness connector and return position limit switch LH harness connector.

Rear seatback power return control unit		Return position limit switch LH		Continuity
Connector	Terminal	Connector	Terminal	
B64	10	B419	2	Yes

3. Check continuity between rear seatback power return control unit harness connector and ground.

Rear seatback power return control unit		Ground	Continuity
Connector	Terminal		
B64	10		No

Is the inspection result normal?

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

4. CHECK RETURN POSITION LIMIT SWITCH LH

Check return position limit switch LH.
Refer to SE-100, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace return position limit switch LH. Refer to SE-137, "Exploded View".

5. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> Inspection End.

RETURN POSITION LIMIT SWITCH RH

RETURN POSITION LIMIT SWITCH RH : Diagnosis Procedure

INFOID:0000000011219112

1. CHECK RETURN POSITION LIMIT SWITCH RH INPUT SIGNAL

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

(+)		(–)	Voltage (V) (Approx.)
Return position limit switch RH			
Connector	Terminal		
B421	1	Ground	Battery voltage

NOTE:
It is not low power consumption mode.

Is the inspection result normal?

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

2. CHECK RETURN POSITION LIMIT SWITCH RH CIRCUIT

1. Disconnect rear seatback power return control unit connector.
2. Check continuity between rear seatback power return control unit harness connector and return position limit switch RH harness connector.

Rear seatback power return control unit		Return position limit switch RH		Continuity
Connector	Terminal	Connector	Terminal	
B64	11	B421	1	Yes

3. Check continuity between rear seatback power return control unit harness connector and ground.

Rear seatback power return control unit		Ground	Continuity
Connector	Terminal		
B64	11		No

Is the inspection result normal?

YES >> Replace rear seatback power return control unit. Refer to SE-149, "Removal and Installation".
NO >> Repair or replace harness.

3. CHECK RETURN POSITION LIMIT SWITCH RH GROUND CIRCUIT

1. Disconnect rear seatback power return control unit connector and primary position limit switch RH connector.

2. Check continuity between rear seatback power return control unit harness connector and return position limit switch RH harness connector.

Rear seatback power return control unit		Return position limit switch RH		Continuity
Connector	Terminal	Connector	Terminal	
B64	2	B421	2	Yes

3. Check continuity between rear seatback power return control unit harness connector and ground.

Rear seatback power return control unit		Ground	Continuity
Connector	Terminal		
B64	2		No

Is the inspection result normal?

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

4.CHECK RETURN POSITION LIMIT SWITCH RH

Check return position limit switch RH.
Refer to SE-100, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace return position limit switch RH. Refer to SE-137, "Exploded View".

5.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> Inspection End.

Component Inspection

INFOID:0000000011219113

COMPONENT INSPECTION

1.CHECK RETURN POSITION LIMIT SWITCH

1. Turn ignition switch OFF.
2. Disconnect return position limit switch connector.
3. Check return position limit switch terminals under the following conditions.

Terminal		Condition		Continuity
1	2	return position limit switch	While being pressed	Yes
			Other than the above	No

Is the inspection result normal?

YES >> Inspection End.
NO >> Replace return position limit switch. Refer to SE-137, "Exploded View".

PRIMARY POSITION LIMIT SWITCH
PRIMARY POSITION LIMIT SWITCH LH
PRIMARY POSITION LIMIT SWITCH LH : Diagnosis Procedure

INFOID:0000000011219114

1.CHECK SECTOR GEAR POSITION LIMIT SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect primary position limit switch LH connector.
3. Check voltage between primary position limit switch LH connector and ground.

(+)		(–)	Voltage (V) (Approx.)
Primary position limit switch LH			
Connector	Terminal		
B418	1	Ground	Battery voltage

NOTE:
It is not low electric power consumption mode.

Is the inspection result normal?

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

2.CHECK PRIMARY POSITION LIMIT SWITCH LH SIGNAL CIRCUIT

1. Disconnect rear seatback power return control unit connector.
2. Check continuity between rear seatback power return control unit harness connector and primary position limit switch LH harness connector.

Rear seatback power return control unit		Primary position limit switch LH		Continuity
Connector	Terminal	Connector	Terminal	
B64	4	B418	1	Yes

3. Check continuity between rear seatback power return control unit harness connector and ground.

Rear seatback power return control unit		Ground	Continuity
Connector	Terminal		
B64	4		No

Is the inspection result normal?

YES >> Replace rear seatback power return control unit. Refer to SE-149, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK PRIMARY POSITION LIMIT SWITCH LH GROUND CIRCUIT

1. Disconnect rear seatback power return control unit connector and return position limit switch LH connector.
2. Check continuity between rear seatback power return control unit harness connector and primary position limit switch LH harness connector.

Rear seatback power return control unit		Primary position limit switch LH		Continuity
Connector	Terminal	Connector	Terminal	
B64	10	B418	2	Yes

3. Check continuity between rear seatback power return control unit harness connector and ground.

Rear seatback power return control unit		Ground	Continuity
Connector	Terminal		
B64	10		No

Is the inspection result normal?

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

4.CHECK PRIMARY POSITION LIMIT SWITCH LH

Check primary position limit switch LH.
Refer to SE-103, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace primary position limit switch LH. Refer to SE-137, "Exploded View".

5.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> Inspection End.

PRIMARY POSITION LIMIT SWITCH RH

PRIMARY POSITION LIMIT SWITCH RH : Diagnosis Procedure

INFOID:0000000011219115

1.CHECK PRIMARY POSITION LIMIT SWITCH RH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect primary position limit switch RH connector.
3. Check voltage between primary position limit switch RH connector and ground.

(+)		(–)	Voltage (V) (Approx.)
Primary position limit switch RH			
Connector	Terminal		
B420	1	Ground	Battery voltage

NOTE:
It is not low electric power consumption mode.

Is the inspection result normal?

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

2.CHECK PRIMARY POSITION LIMIT SWITCH RH SIGNAL CIRCUIT

1. Disconnect rear seatback power return control unit connector.
2. Check continuity between rear seatback power return control unit harness connector and primary position limit switch RH harness connector.

Rear seatback power return control unit		Primary position limit switch RH		Continuity
Connector	Terminal	Connector	Terminal	
B64	11	B420	1	Yes

3. Check continuity between rear seatback power return control unit harness connector and ground.

Rear seatback power return control unit		Ground	Continuity
Connector	Terminal		
B64	11		No

Is the inspection result normal?

YES >> Replace rear seatback power return control unit. Refer to SE-149, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK PRIMARY POSITION LIMIT SWITCH RH GROUND CIRCUIT

1. Disconnect rear seatback power return control unit connector and return position limit switch RH connector.

2. Check continuity between rear seatback power return control unit harness connector and primary position limit switch RH harness connector.

Rear seatback power return control unit		Primary position limit switch RH		Continuity
Connector	Terminal	Connector	Terminal	
B64	2	B420	2	Yes

3. Check continuity between rear seatback power return control unit harness connector and ground.

Rear seatback power return control unit		Ground	Continuity
Connector	Terminal		
B64	2		No

Is the inspection result normal?

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

4.CHECK PRIMARY POSITION LIMIT SWITCH RH

Check primary position limit switch RH.
Refer to SE-103, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace primary position limit switch RH. Refer to SE-137, "Exploded View".

5.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> Inspection End.

Component Inspection

INFOID:0000000011219116

COMPONENT INSPECTION

1.CHECK PRIMARY POSITION LIMIT SWITCH

1. Turn ignition switch OFF.
2. Disconnect primary position limit switch connector.
3. Check primary position limit switch terminals under the following conditions.

Terminal		Condition		Continuity
1	2	Primary position limit switch	While being pressed	Yes
			Other than the above	No

Is the inspection result normal?

YES >> Inspection End.
NO >> Replace primary position limit switch. Refer to SE-137, "Exploded View".

POWER RETURN MOTOR

LH

LH : Diagnosis Procedure

INFOID:0000000011219117

1.CHECK POWER RETURN MOTOR (LH) INPUT SIGNAL

1. Turn ignition switch OFF.
2. Check voltage between power return motor assembly (LH) harness connector and ground.

(+)		(–)	Condition		Voltage (V) (Approx.)
Power return motor assembly (LH)					
Connector	Terminal				
B415	1	Ground	Power return motor assembly (LH)	Reverse operation	Battery voltage
				Other than the above	0 – 0.5
	2			Return operation	Battery voltage
				Other than the above	0 – 0.5

Is the inspection result normal?

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

2.CHECK POWER RETURN MOTOR (LH) CIRCUIT

1. Disconnect rear seatback power return control unit connector and power return motor assembly (LH) connector.
2. Check continuity between rear seatback power return control unit harness connector and power return motor assembly (LH) harness connector.

Rear seatback power return control unit		Power return motor assembly (LH)		Continuity
Connector	Terminal	Connector	Terminal	
B89	19	B415	1	Yes
	20		2	

3. Check continuity between rear seatback power return control unit harness connector and ground.

Rear seatback power return control unit		Ground	Continuity
Connector	Terminal		
B89	19		No
	20		

Is the inspection result normal?

YES >> Replace rear seatback power return control unit. Refer to SE-149, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK INTERMITTENT INCIDENT

Check intermittent incident. Refer to GI-42, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace power return motor assembly (LH). Refer to SE-137, "Exploded View".
NO >> Repair or replace harness.

RH

RH : Diagnosis Procedure

INFOID:0000000011219118

1.CHECK POWER RETURN MOTOR (RH) INPUT SIGNAL

1. Turn ignition switch OFF.
2. Check voltage between power return motor assembly (RH) harness connector and ground.

(+)		(–)	Condition		Voltage (Approx.)
Power return motor assembly (RH)					
Connector	Terminal				
B417	1	Ground	Power return motor assembly (RH)	Reverse operation	Battery voltage
				Other than the above	0 – 0.5
	2			Return operation	Battery voltage
				Other than the above	0 – 0.5

Is the inspection result normal?

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

2.CHECK POWER RETURN MOTOR (RH) CIRCUIT

1. Disconnect rear seatback power return control unit connector and power return motor assembly (RH) connector.
2. Check continuity between rear seatback power return control unit harness connector and power return motor assembly (RH) harness connector.

Rear seatback power return control unit		Power return motor assembly (RH)		Continuity
Connector	Terminal	Connector	Terminal	
B89	17	B417	1	Yes
	18		2	

3. Check continuity between rear seatback power return control unit harness connector and ground.

Rear seatback power return control unit		Ground	Continuity
Connector	Terminal		
B89	17		No
	18		

Is the inspection result normal?

YES >> Replace rear seatback power return control unit. Refer to SE-149, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK INTERMITTENT INCIDENT

Check intermittent incident. Refer to GI-42, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace power return motor assembly (RH). Refer to SE-137, "Exploded View".
NO >> Repair or replace harness.

MOTOR SENSOR
LH
LH : Diagnosis Procedure

INFOID:0000000011219119

1.CHECK MOTOR SENSOR (LH) POWER SUPPLY

1. Turn ignition switch OFF.
2. Disconnect power return motor assembly (LH) connector.
3. Check voltage between power return motor assembly (LH) harness connector and ground.

(+)		(–)	Condition	Voltage (V) (Approx.)
Power return motor assembly (LH)				
Connector	Terminal			
B415	6	Ground	When power return motor (LH) is operated	Battery voltage

Is the inspection result normal?

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

2.CHECK MOTOR SENSOR (LH) POWER SUPPLY CIRCUIT

1. Disconnect rear seatback power return control unit connector.
2. Check continuity between rear seatback power return control unit harness connector and power return motor assembly (LH) harness connector.

Rear seatback power return control unit		Power return motor assembly (LH)		Continuity
Connector	Terminal	Connector	Terminal	
B89	30	B415	6	Yes

3. Check continuity between rear seatback power return control unit harness connector and ground.

Rear seatback power return control unit		Ground	Continuity
Connector	Terminal		
B89	30		No

Is the inspection result normal?

YES >> Replace rear seatback power return control unit. Refer to SE-149, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK MOTOR SENSOR (LH) GROUND CIRCUIT

1. Check continuity between rear seatback power return control unit harness connector and power return motor assembly (LH) harness connector.

Rear seatback power return control unit		Power return motor assembly (LH)		Continuity
Connector	Terminal	Connector	Terminal	
B89	32	B415	5	Yes

2. Check continuity between rear seatback power return control unit harness connector and ground.

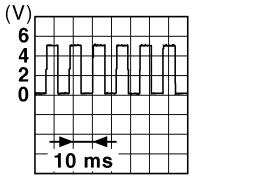
Rear seatback power return control unit		Ground	Continuity
Connector			
B89	32		No

Is the inspection result normal?

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

4.CHECK MOTOR SENSOR (LH) OUTPUT SIGNAL

1. Connect rear seatback power return control unit connector.
2. Check signal between rear seatback power return control unit harness connector and ground with an oscilloscope.

(+)		(–)	Condition	Signal (Reference value)
Rear seatback power return control unit				
Connector	Terminal			
B89	31	Ground	During the power return motor (LH) operation	 JMKIA0070GB
			When pinching of seatback occurs	The above pulse width should be expanded

Is the inspection result normal?

YES >> GO TO 6.
NO >> GO TO 5.

5. CHECK MOTOR SENSOR (LH) SIGNAL CIRCUIT

1. Disconnect power return motor assembly (LH) connector and rear seatback power return control unit connector.
2. Check continuity between power return motor assembly (LH) harness connector and rear seatback power return control unit harness connector.

Rear seatback power return control unit		Power return motor assembly (LH)		Continuity
Connector	Terminal	Connector	Terminal	
B89	31	B415	4	Yes

3. Check continuity between power return motor assembly (LH) harness connector and ground.

Rear seatback power return control unit		Ground	Continuity
Connector	Terminal		
B89	31		No

Is the inspection result normal?

YES >> Replace power return motor assembly (LH). Refer to SE-137, "Exploded View".
NO >> Repair or replace harness.

6. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> Inspection End.

RH

RH : Diagnosis Procedure

INFOID:0000000011219120

1. CHECK MOTOR SENSOR (RH) POWER SUPPLY

1. Turn ignition switch OFF.
2. Disconnect power return motor assembly (RH) connector.
3. Check voltage between power return motor assembly (RH) harness connector and ground.

(+)		(–)	Condition	Voltage (V) (Approx.)
Power return motor assembly (RH)				
Connector	Terminal			
B417	6	Ground	When power return motor (RH) is operated	Battery voltage

Is the inspection result normal?

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

2.CHECK MOTOR SENSOR (RH) POWER SUPPLY CIRCUIT

1. Disconnect rear seatback power return control unit connector.
2. Check continuity between rear seatback power return control unit harness connector and power return motor assembly (RH) harness connector.

Rear seatback power return control unit		Power return motor assembly (RH)		Continuity
Connector	Terminal	Connector	Terminal	
B89	22	B417	6	Yes

3. Check continuity between rear seatback power return control unit harness connector and ground.

Rear seatback power return control unit		Ground	Continuity
Connector	Terminal		
B89	22		No

Is the inspection result normal?

YES >> Replace rear seatback power return control unit. Refer to SE-149, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK MOTOR SENSOR (RH) GROUND CIRCUIT

1. Check continuity between rear seatback power return control unit harness connector and power return motor assembly (RH) harness connector.

Rear seatback power return control unit		Power return motor assembly (RH)		Continuity
Connector	Terminal	Connector	Terminal	
B89	24	B417	5	Yes

2. Check continuity between rear seatback power return control unit harness connector and ground.

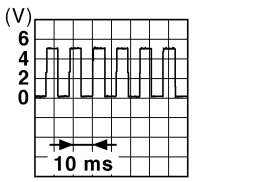
Rear seatback power return control unit		Ground	Continuity
Connector			
B89	24		No

Is the inspection result normal?

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

4.CHECK MOTOR SENSOR (RH) OUTPUT SIGNAL

1. Connect rear seatback power return control unit connector.
2. Check signal between rear seatback power return control unit harness connector and ground with an oscilloscope.

(+)		(–)	Condition	Signal (Reference value)
Rear seatback power return control unit				
Connector	Terminal			
B89	23	Ground	During the power return motor (RH) operation	 JMKIA0070GB
			When pinching seatback occurs	The above pulse width should be expanded

Is the inspection result normal?

YES >> GO TO 6.
NO >> GO TO 5.

5. CHECK MOTOR SENSOR (RH) SIGNAL CIRCUIT

1. Disconnect power return motor assembly (RH) connector and rear seatback power return control unit connector.
2. Check continuity between power return motor assembly (RH) harness connector and rear seatback power return control unit harness connector.

Rear seatback power return control unit		Power return motor assembly (RH)		Continuity
Connector	Terminal	Connector	Terminal	
B89	23	B417	4	Yes

3. Check continuity between power return motor assembly (RH) harness connector and ground.

Rear seatback power return control unit		Ground	Continuity
Connector	Terminal		
B89	23		No

Is the inspection result normal?

YES >> Replace power return motor assembly (RH). Refer to SE-137, "Exploded View".
NO >> Repair or replace harness.

6. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> Inspection End.

SYMPTOM DIAGNOSIS

CLIMATE CONTROLLED SEAT SYSTEM

Symptom Table

INFOID:0000000011219121

Symptom		Inspection item
Climate controlled seat inoperative.		Power supply and ground circuit Refer to SE-71, "CLIMATE CONTROLLED SEAT CONTROL UNIT : Diagnosis Procedure".
Climate controlled seat blower motor inoperative.		Climate controlled seat blower motor Refer to SE-87, "Diagnosis Procedure".
Seat cushion thermal electric device inoperative.		Seat cushion thermal electric device Refer to SE-83, "Diagnosis Procedure".
Seatback thermal electric device inoperative.		Seatback thermal electric device Refer to SE-79, "Diagnosis Procedure".
Climate controlled seat switch LO, MED or HI inoperative.		Climate controlled seat switch Refer to SE-76, "Diagnosis Procedure".
Climate controlled seat switch indicator inoperative.		Climate controlled seat switch indicator Refer to SE-90, "Diagnosis Procedure".
Climate controlled seat turns off too soon.	Climate controlled seat switch indicator turns off within 10 seconds of turning on.	Malfunction caused by electrical issue. Check the following: • Connectors for physical damage or loose terminals. • Seat cushion thermal electric device. Refer to SE-83, "Diagnosis Procedure". • Seatback thermal electric device. Refer to SE-79, "Diagnosis Procedure". • Climate controlled seat blower motor. Refer to SE-87, "Diagnosis Procedure".
	Climate controlled seat switch indicator turns off 30 seconds or more after turning on.	Malfunction caused by mechanical issue. Check the following: • Foam seat pads not aligned for thermal electric device outlet. • Thermal electric device ducting restricted or disconnected. • Climate controlled seat blower motor inlet restricted.

THIRD ROW SEATBACK POWER RETURN SYSTEM

Symptom Table

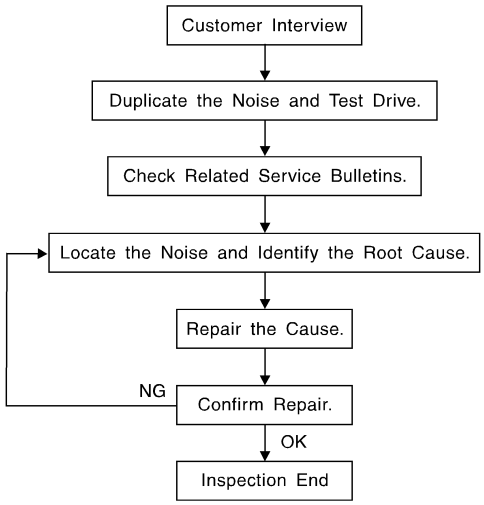
INFOID:0000000011219122

Symptom		Inspection item
Seatback power return system does not operate.	Both sides.	Power supply and ground circuit Refer to SE-74, "SEATBACK POWER RETURN CONTROL UNIT : Diagnosis Procedure".
	One side.	• Rear seatback switch. Refer to SE-94, "REAR POWER RETURN SWITCH LH : Diagnosis Procedure" (driver side) or SE-95, "REAR POWER RETURN SWITCH RH : Diagnosis Procedure" (passenger side). • Power return motor. Refer to SE-104, "LH : Diagnosis Procedure" (LH) or SE-104, "RH : Diagnosis Procedure" (RH). • Seatback angle limit switch. Refer to SE-98, "RETURN POSITION LIMIT SWITCH LH : Diagnosis Procedure" (driver side) or SE-99, "RETURN POSITION LIMIT SWITCH RH : Diagnosis Procedure" (passenger side).
Seatback does not return but malfunction detection buzzer sounds.		• Sector gear position limit switch. Refer to SE-101, "PRIMARY POSITION LIMIT SWITCH LH : Diagnosis Procedure" (driver side) or SE-102, "PRIMARY POSITION LIMIT SWITCH RH : Diagnosis Procedure" (passenger side). • Motor sensor. Refer to SE-106, "LH : Diagnosis Procedure" (LH) or SE-107, "RH : Diagnosis Procedure" (RH).
Malfunction detection buzzer sounds during power return motor inverse rotation.		• Seatback angle limit switch. Refer to SE-98, "RETURN POSITION LIMIT SWITCH LH : Diagnosis Procedure" (driver side) or SE-99, "RETURN POSITION LIMIT SWITCH RH : Diagnosis Procedure" (passenger side). • Sector gear position limit switch. Refer to SE-101, "PRIMARY POSITION LIMIT SWITCH LH : Diagnosis Procedure" (driver side) or SE-102, "PRIMARY POSITION LIMIT SWITCH RH : Diagnosis Procedure" (passenger side). • Power return motor. Refer to SE-104, "LH : Diagnosis Procedure" (LH) or SE-104, "RH : Diagnosis Procedure" (RH).

SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow

INFOID:0000000011219123



SBT842

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 customer's comments; refer to SE-116, "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, be sure to diagnose and repair the noise that the customer is concerned about. This can be accomplished by test driving 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 bumble bee)
  Buzz characteristics include high frequency rattle/firm contact.
- Often the degree of acceptable noise level will vary depending upon 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 model, drive position on CVT and 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: J-39565 and mechanic's 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 fasteners 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-113, "Generic Squeak and Rattle Troubleshooting".

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 INFINITI Squeak and Rattle Kit (J-50397) is available through your authorized INFINITI 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 materials contained in the INFINITI Squeak and Rattle Kit (J-50397) are listed on the inside cover of the kit; and can each be ordered separately as needed.
- The following materials not found in the kit can also be used to repair squeaks and rattles.
- SILICONE GREASE: Use instead of UHMW tape that will be visible or does not fit. The silicone grease 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.

Generic Squeak and Rattle Troubleshooting

INFOID:0000000011219124

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

INSTRUMENT PANEL

Most incidents are caused by contact and movement between:

1. Cluster lid A and the instrument panel
2. Acrylic lens and combination meter housing
3. Instrument panel to front pillar finisher
4. Instrument panel to windshield
5. Instrument panel 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 silicone 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 saturate the area with silicone, you will not be able to recheck the repair.

CENTER CONSOLE

Components to pay attention to include:

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

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

DOORS

Pay attention to the:

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

Tapping or moving the components or pressing on them while driving to duplicate the conditions can isolate many of these incidents. You can usually insulate the areas with felt cloth tape or insulator foam blocks from the INFINITI Squeak and Rattle Kit (J-50397) to repair the noise.

TRUNK

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

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

Most of these incidents can be repaired by adjusting, securing or insulating the item(s) or component(s) causing the noise.

SUNROOF/HEADLINING

Noises in the sunroof/headlining area can often be traced to one of the following:

1. Sunroof lid, rail, linkage or seals making a rattle or light knocking noise
2. Sun visor shaft shaking in the holder
3. Front or rear windshield touching headliner and squeaking

Again, pressing on the components to stop the noise while duplicating the conditions can isolate most of these incidents. Repairs usually consist of insulating with felt cloth tape.

OVERHEAD CONSOLE (FRONT AND REAR)

Overhead console noises are often caused by the console panel clips not being engaged correctly. Most of these incidents are repaired by pushing up on the console at the clip locations until the clips engage.
In addition look for:

1. Loose harness or harness connectors.
2. Front console map/reading lamp lens loose.

3. Loose screws at console attachment points.

SEATS

When isolating seat noise it's important to note the position the seat is in and the load placed on the seat when the noise is present. These conditions should be duplicated when verifying and isolating the cause of the noise.

Cause of seat noise include:

1. Headrest rods and holder
2. A squeak between the seat pad cushion and frame
3. The rear seatback lock and bracket

These noises can be isolated by moving or pressing on the suspected components while duplicating the conditions under which the noise occurs. Most of these incidents can be repaired by repositioning the component or applying urethane tape to the contact area.

UNDERHOOD

Some interior noise may be caused by components under the hood or on the engine wall. The noise is then transmitted into the passenger compartment.

Causes of transmitted underhood noise include:

1. Any component installed to the engine wall
2. Components that pass through the engine wall
3. Engine wall mounts and connectors
4. Loose radiator installation 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.

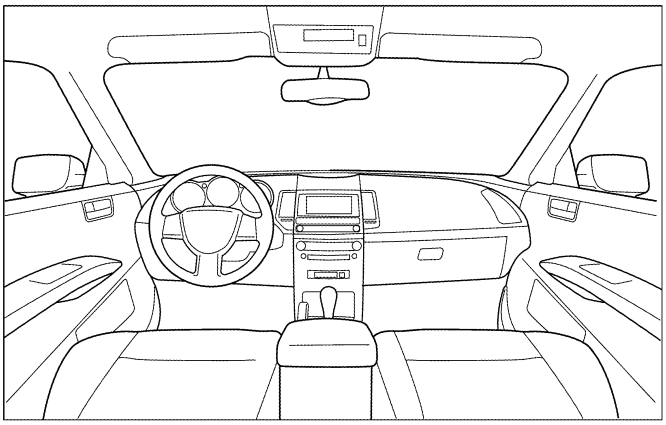
Diagnostic Worksheet

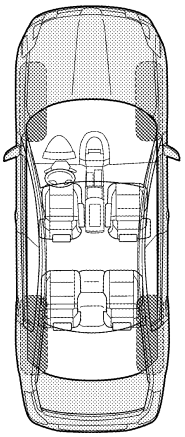
INFOID:0000000011219125

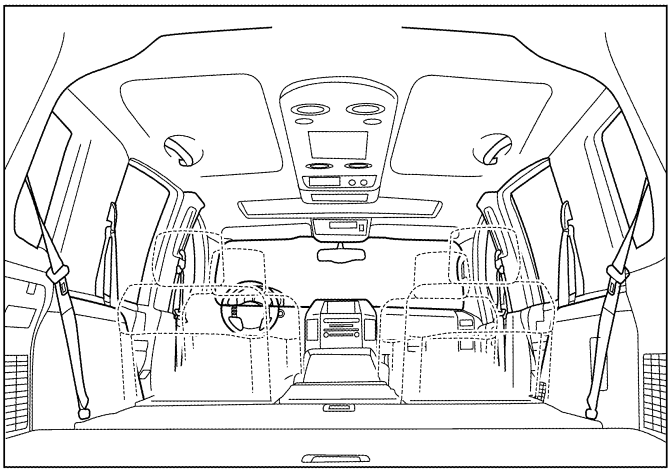
Dear Customer:
We are concerned about your satisfaction with your vehicle. Repairing a squeak or rattle sometimes can be very difficult. To help us fix your vehicle right the first time, please take a moment to note the area of the vehicle where the squeak or rattle occurs and under what conditions.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

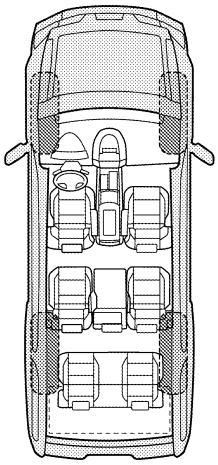
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

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.

LAIA0072E

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

LAIA0071E

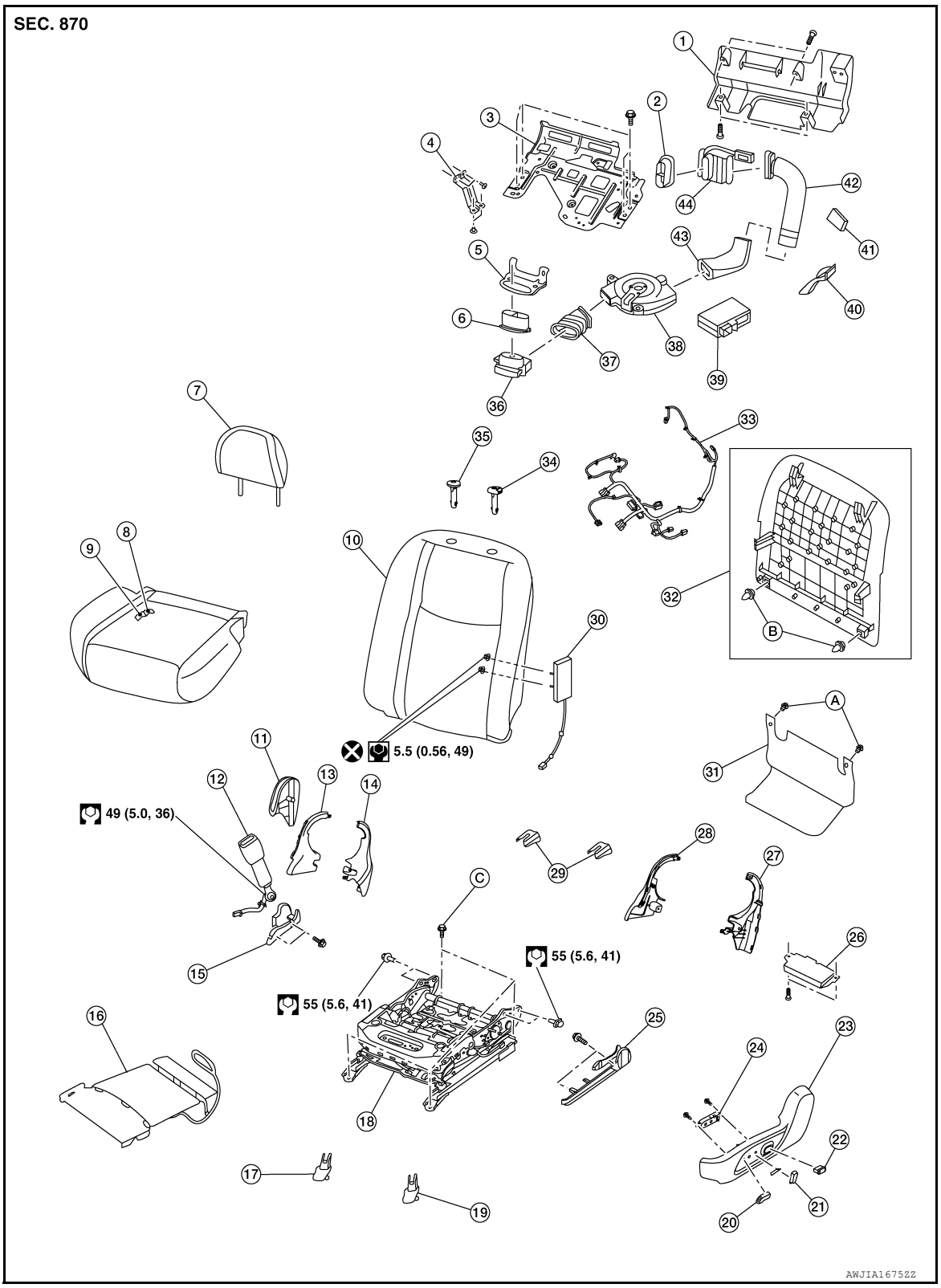
REMOVAL AND INSTALLATION

FRONT SEAT

Exploded View

INFOID:0000000011219126

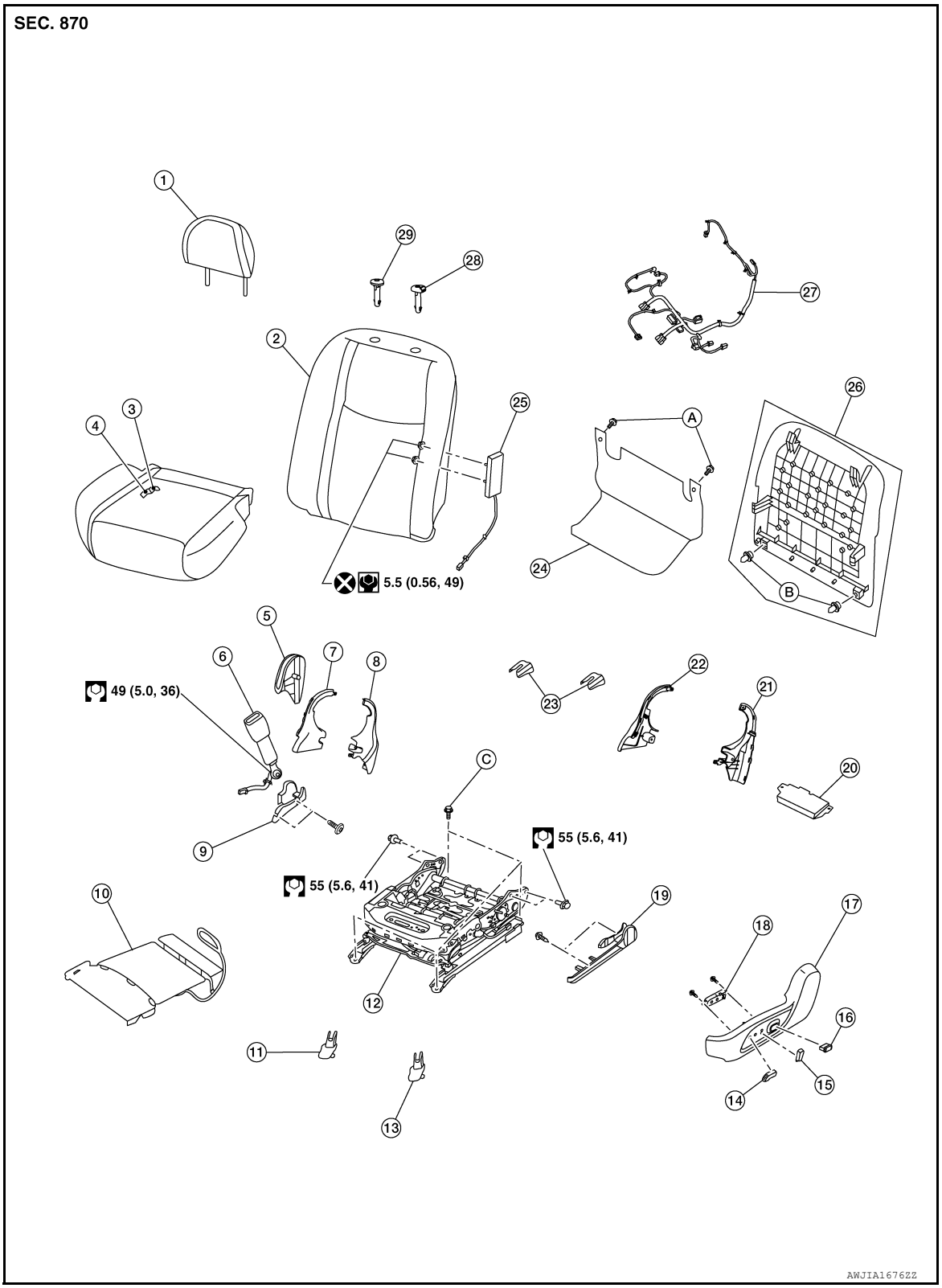
DRIVER SEAT WITH CLIMATE CONTROL



1. Lower rear cover
2. Thermal electric device nozzle
3. Blower motor bracket
4. Thermal electric device harness bracket
5. Thermal electric device bracket
6. Thermal electric device nozzle
7. Headrest without display unit
8. Seat cushion trim
9. Seat cushion pad
10. Seatback assembly
11. Seat cushion outer finisher (RH)
12. Seat belt buckle
13. Seat cushion inner finisher (RH) (front)
14. Seat cushion inner finisher (RH) (rear)
15. Slide finisher outer (RH)
16. Front seat heater
17. Front slide finisher (RH)
18. Seat frame assembly
19. Front slide finisher (LH)
20. Seat slide knob
21. Seat recline knob
22. Lumbar support switch
23. Seat cushion outer finisher (LH)
24. Power seat switch
25. Slide finisher outer (LH)
26. Driver seat control unit
27. Seat cushion inner finisher (LH) (rear)
28. Seat cushion inner finisher (LH) (front)
29. Rear slide finisher
30. Side air bag module
31. Rear hinge cover
32. Seatback board
33. Seat harness
34. Headrest holder (locked)
35. Headrest holder (free)
36. Seat cushion thermal electric device
37. Lower blower duct
38. Blower motor with filter
39. Climate controlled seat control unit
40. Thermal electric device clip
41. Upper blower duct clip
42. Upper blower duct
43. Angle duct
44. Seatback thermal electric device
A. Rear hinge cover clips
B. Seatback board clips
C. Refer to INSTALLATION

DRIVER SEAT WITHOUT CLIMATE CONTROL

SEC. 870

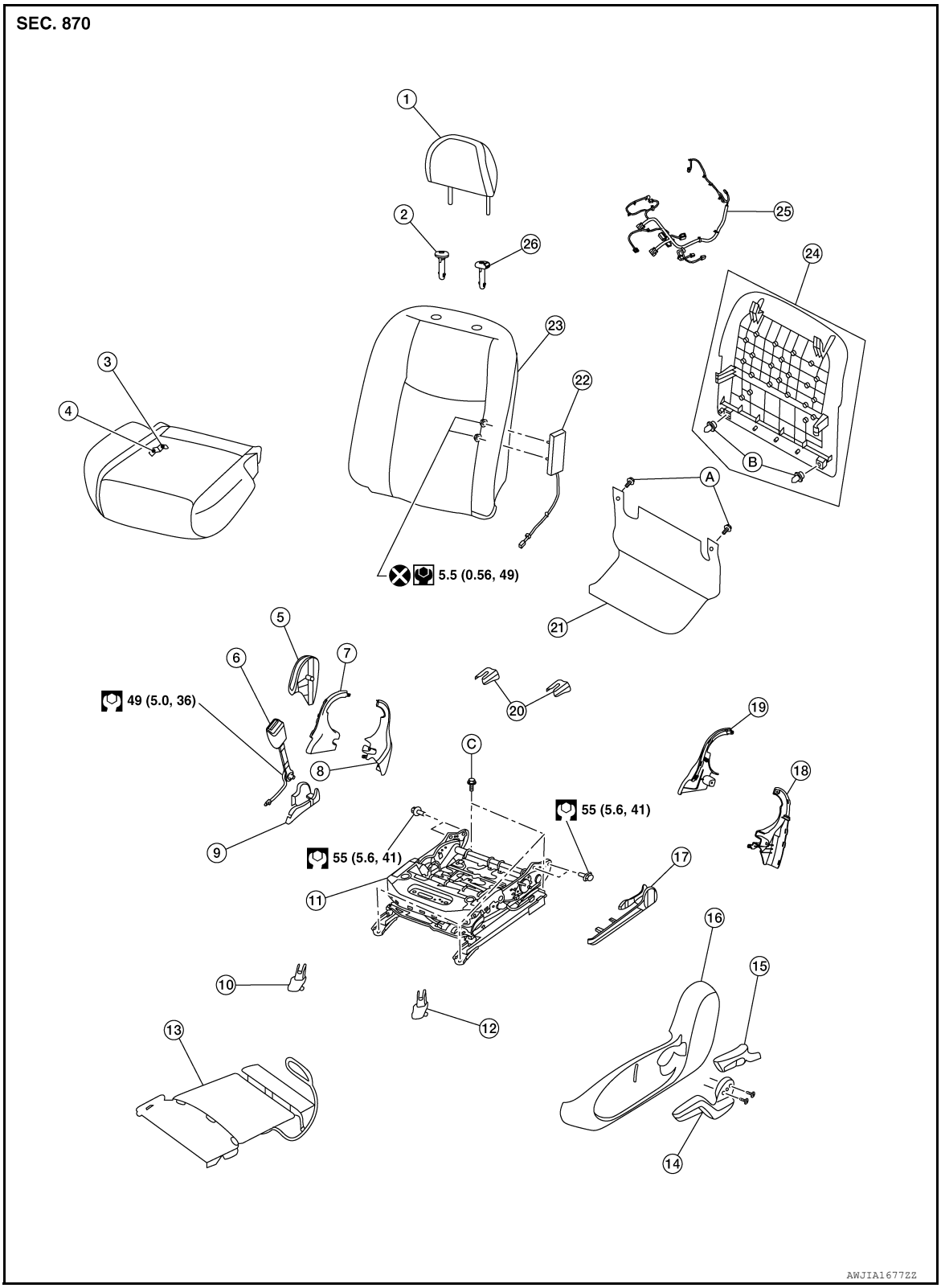


1. Headrest
2. Seatback assembly
3. Headrest display unit finisher
4. Seat cushion pad
5. Seat cushion outer finisher (RH)
6. Seat belt buckle
7. Seat cushion inner finisher (RH) (front)
8. Seat cushion inner finisher (RH) (rear)
9. Slide finisher outer (RH)
10. Front seat heater
11. Front slide finisher (RH)
12. Seat frame assembly
13. Front slide finisher (LH)
14. Seat slide knob
15. Seat recline knob

16. Lumbar support switch
17. Seat cushion outer finisher (LH)
18. Power seat switch
19. Slide finisher outer (LH)
20. Driver seat control unit
21. Seat cushion inner finisher (LH) (rear
22. Seat cushion inner finisher (LH) (front)
23. Rear slide finisher
24. Rear hinge cover
25. Side air bag module
26. Seatback board
27. Seat harness
28. Headrest holder (locked)
29. Headrest holder (free)
A. Rear hinge cover clips
B. Seatback board clips
C. Refer to INSTALLATION

DRIVER SEAT - MANUAL

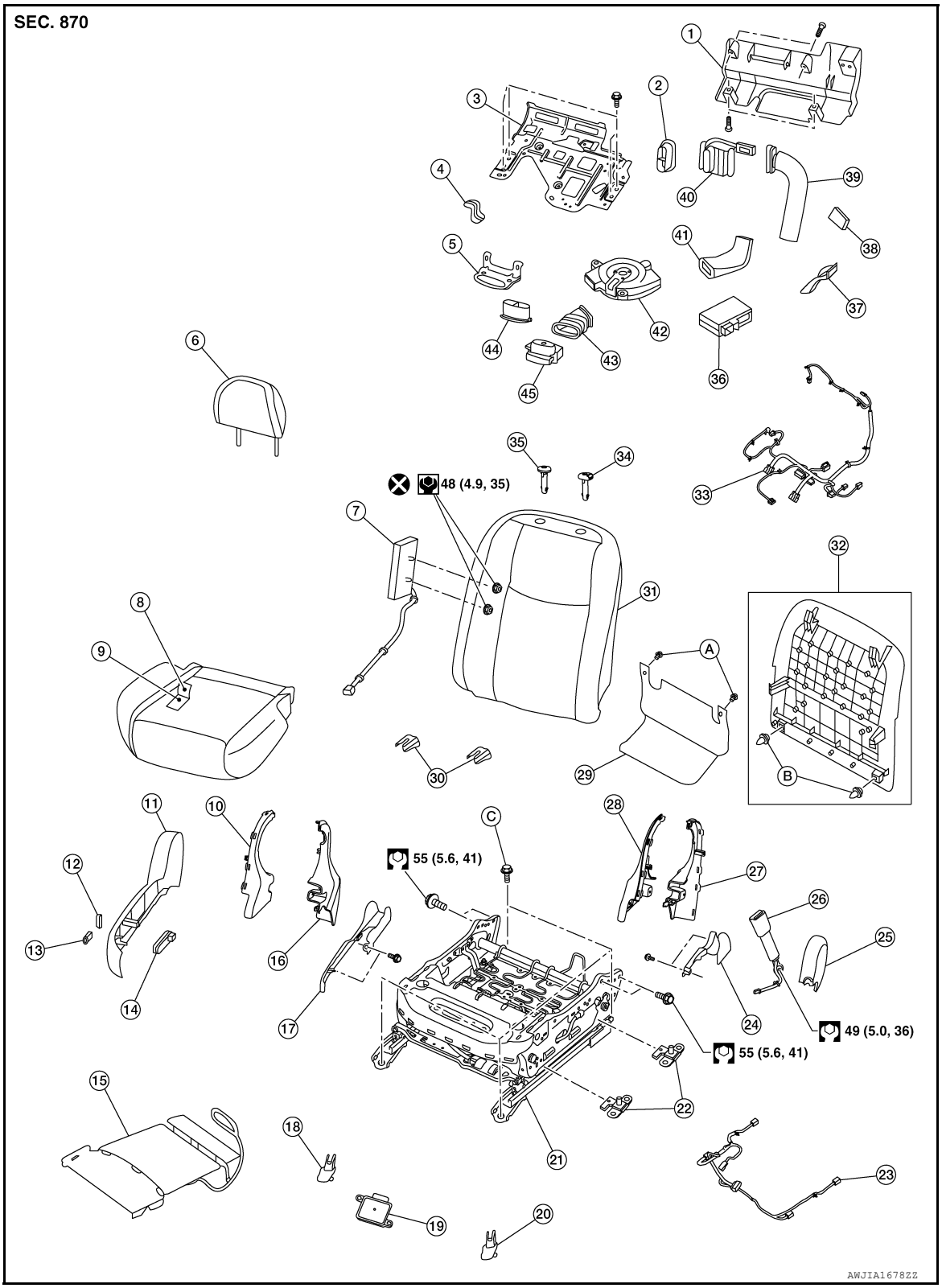
SEC. 870



1. Headrest
2. Headrest holder (free)
3. Seat cushion trim
4. Seat cushion pad
5. Seat cushion outer finisher (RH)
6. Seat belt buckle
7. Seat cushion inner finisher (RH) (front)
8. Seat cushion inner finisher (RH) (rear)
9. Slide finisher outer (RH)
10. Front slide finisher (RH)
11. Seat frame assembly
12. Front slide finisher (LH)
13. Front seat heater (if equipped)
14. Lift lever
15. Recline lever finisher

16. Seat cushion outer finisher (LH)
17. Slide finisher outer (LH)
18. Seat cushion inner finisher (LH) (rear)
19. Seat cushion inner finisher (LH) (front)
20. Rear slide finisher
21. Rear hinge cover
22. Side air bag module
23. Seatback assembly
24. Seatback board
25. Seat harness
26. Headrest holder (locked)
A. Rear hinge cover clips
B. Seatback board clips
C. Refer to INSTALLATION

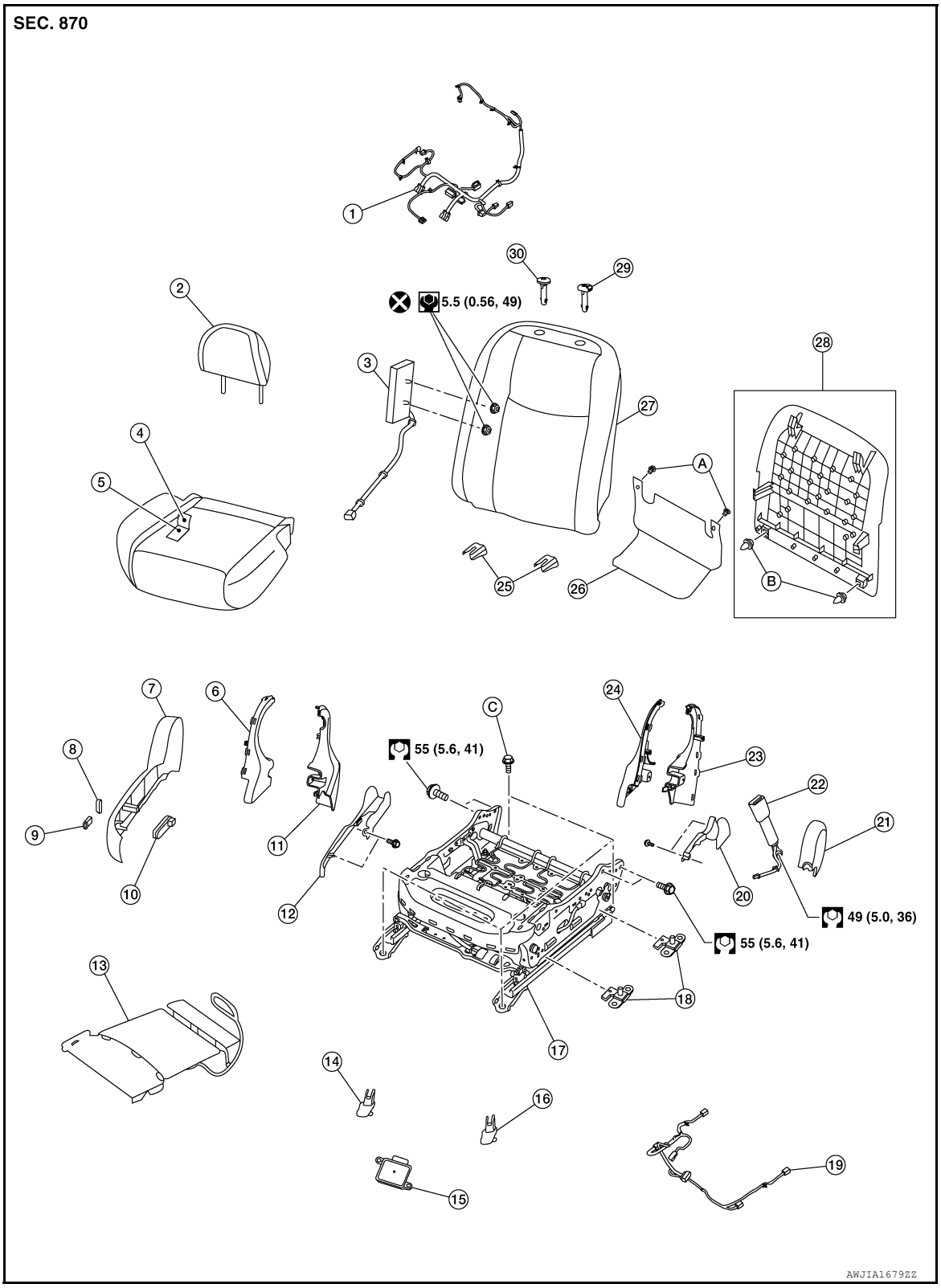
PASSENGER SEAT WITH CLIMATE CONTROL



1. Lower rear cover
2. Thermal electric device nozzle
3. Thermal electric device bracket
4. Thermal electric device harness bracket
5. Blower motor bracket
6. Headrest
7. Side air bag module
8. Seat cushion trim
9. Seat cushion pad
10. Seat cushion inner finisher (RH) (front)
11. Seat cushion outer finisher (RH)
12. Seat recline knob
13. Seat slide knob
14. Power seat switch
15. Front seat heater
16. Seat cushion inner finisher (RH) (rear)
17. Slide finisher outer (RH)
18. Front slide finisher (RH)
19. Occupant Classification System control unit
20. Front slide finisher (LH)
21. Seat frame assembly
22. Occupant Classification System sensor
23. Occupant Classification System harness
24. Slide finisher outer (LH)
25. Seat cushion outer finisher (LH)
26. Seat belt buckle
27. Seatback board
28. Seat cushion inner finisher (LH) (front)
29. Seat hinge cover
30. Rear slide finisher
31. Seatback assembly
32. Seatback board
33. Seat harness
34. Headrest holder (locked)
35. Headrest holder (free)
36. Climate controlled seat control unit
37. Thermal electric device clip
38. Upper blower duct clip
39. Upper blower duct
40. Seatback thermal electric device
41. Angle duct
42. Blower motor with filter
43. Lower blower duct
44. Thermal electric device nozzle
45. Seat cushion thermal electric device

A. Rear hinge cover clips
B. Seatback board clips
C. Refer to INSTALLATION

PASSENGER SEAT WITHOUT CLIMATE CONTROL

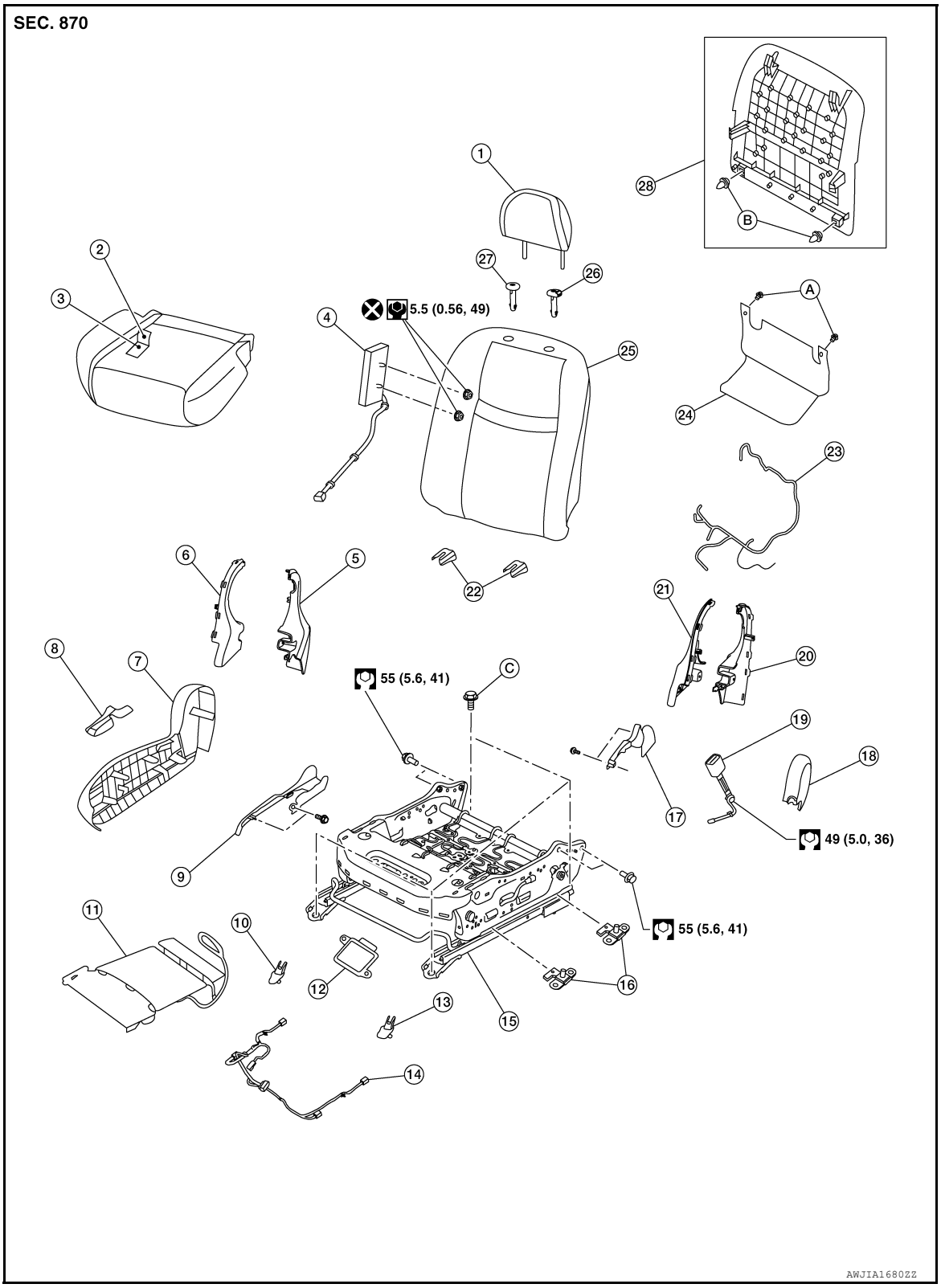


1. Seat harness
2. Headrest
3. Side air bag module
4. Seat cushion trim
5. Seat cushion pad
6. Seat cushion inner finisher (RH) (front)
7. Seat cushion outer finisher (RH)
8. Seat recline knob
9. Seat slide knob
10. Power seat switch
11. Seat cushion inner finisher (RH) (rear)
12. Slide finisher outer (RH)

13. Front seat heater (if equipped)
14. Front slide finisher (RH)
15. Occupant Classification System control unit
16. Front slide finisher (LH)
17. Seat frame assembly
18. Occupant Classification System sensor
19. Occupant Classification System harness
20. Slide finisher outer (LH)
21. Seat cushion outer finisher (LH)
22. Seat belt buckle
23. Seat cushion inner finisher (LH) (rear)
24. Seat cushion inner finisher (LH) (front)
25. Rear slide finisher
26. Seat hinge cover
27. Seatback assembly
28. Seatback board
29. Headrest holder (locked)
30. Headrest holder (free)

A. Rear hinge cover clips
B. Seatback board clips
C. Refer to INSTALLATION

PASSENGER SEAT - MANUAL



1. Headrest
2. Seat cushion trim
3. Seat cushion pad
4. Side air bag module
5. Seat cushion inner finisher (RH) (rear)
6. Seat cushion inner finisher (RH) (front)
7. Seat cushion outer finisher (RH)
8. Front slide finisher (RH)
9. Slide finisher outer (RH)
10. Front slide finisher (RH)
11. Front seat heater (if equipped)
12. Occupant Classification System control unit

13. Front slide finisher (LH)	14. Occupant Classification System harness	15. Seat frame assembly
16. Occupant Classification System sensor	17. Slide finisher outer (LH)	18. Seat cushion outer finisher (LH)
19. Seat belt buckle	20. Seat cushion inner finisher (LH) (rear)	21. Seat cushion inner finisher (LH) (front)
22. Rear slide finisher	23. Seat harness	24. Seat hinge cover
25. Seatback assembly	26. Headrest holder (locked)	27. Headrest holder (free)
28. Seatback board	A. Rear hinge cover clips	B. Seatback board clips
C. Refer to INSTALLATION		

Removal and Installation

INFOID:0000000011219127

REMOVAL

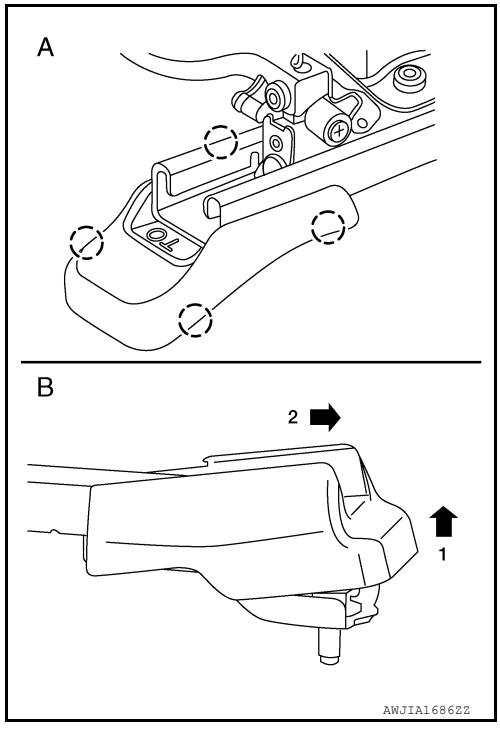
WARNING:

Do not leave any objects (screwdrivers, tools, etc.) on seat during seatback repair. It can lead to personal injury if side air bag module should accidentally deploy.

CAUTION:

- **When removing or installing seat trim, handle it carefully to keep dirt out and to avoid damage.**
- **When checking power seat circuit for continuity using a circuit tester, do not confuse its connector with side air bag module connector. Such an error may cause air bag module to deploy.**
- **Do not drop, tilt, or bump side air bag module while installing seat. Always handle it with care.**
- **After front side air bag module inflates, front seatback assembly must be replaced.**
- **When removing and installing seat, use shop cloths to protect components from damage.**
- **Before removing front seat, turn ignition switch OFF, disconnect both battery cables then wait at least three minutes.**

1. Slide seat to full rearward position.
2. Disconnect negative and positive battery terminals then wait at least three minutes. Refer to PG-86, "Removal and Installation".
3. Disconnect harness connector for side air bag module.
4. Release pawls using a suitable tool and remove front finishers (LH/RH) (A) then remove seat front bolts.
5. Connect negative and positive battery terminals then slide seat to full forward position. Refer to PG-86, "Removal and Installation" (power seat only).
6. Disconnect negative and positive battery terminals then wait at least three minutes. Refer to PG-86, "Removal and Installation" (power seat only).
7. Remove rear slide finishers (LH/RH) (B) by lifting up and then pulling rearward, then remove seat rear bolts.



8. Tilt seat rearward and disconnect harness connectors from seat.
   NOTE:
   Take note of harness routing and attachment locations for correct installation.
9. Remove seat from the vehicle.

INSTALLATION

Installation is in the reverse order of removal.

WARNING:

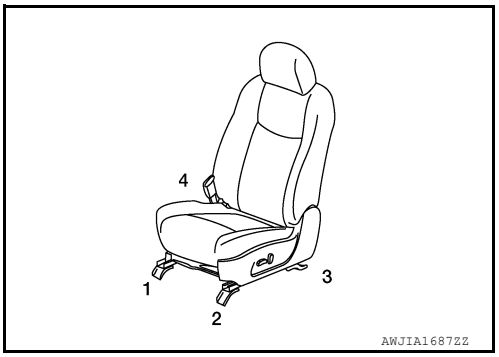
- **Perform additional services when installing front passenger seat. Refer to SRC-43, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Description".**
- **Zero point reset must be performed every time front passenger seat is removed from vehicle.**
- **Zero point reset is done after front passenger seat is installed in vehicle and all bolts are tightened to specification.**

CAUTION:

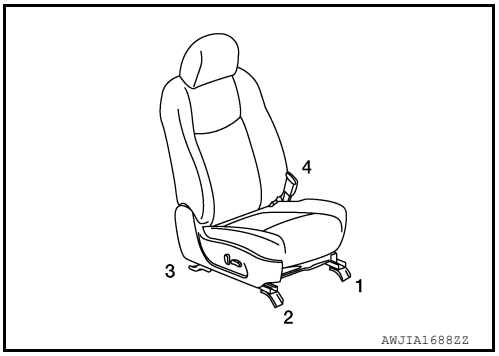
Make sure that the seat harness or the floor carpet is not damaged during installation.

NOTE:

- When installing front seat (LH), tighten bolts in the order shown.
- Tighten seat bolts to specification. Refer to SE-118, "Exploded View".



- When installing front seat (RH), tighten bolts in the order shown.
- Tighten seat bolts to specification. Refer to SE-118, "Exploded View".



Seatback Board

INFOID:0000000011219128

REMOVAL

WARNING:

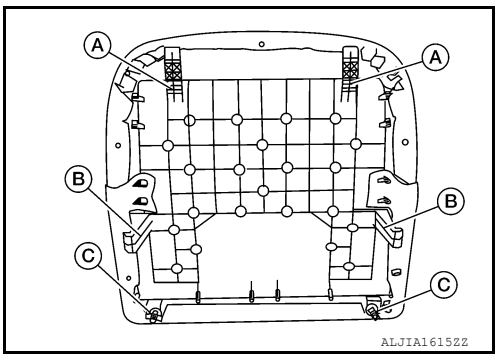
Do not leave any objects (screwdrivers, tools, etc.) on seat during seatback repair. It can lead to personal injury if side air bag module should accidentally deploy.

CAUTION:

- **When removing or installing seat trim, handle it carefully to keep dirt out and to avoid damage.**
- **Before removing front seat, turn ignition switch OFF, disconnect both battery cables then wait at least three minutes.**

1. Disconnect negative and positive battery terminals then wait at least three minutes. Refer to PG-86, "Removal and Installation".

2. Release seatback board lower clips (C).
CAUTION:
Do not reuse seatback board lower clips.
3. Reach behind seatback board and press center clips (B) inward and release from seatback frame.
4. Pull seatback board down releasing upper clips (A) and remove.



INSTALLATION
Installation is in the reverse order of removal.

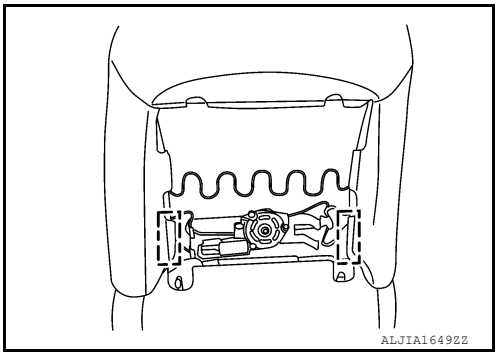
Seat Hinge Cover

INFOID:0000000011569524

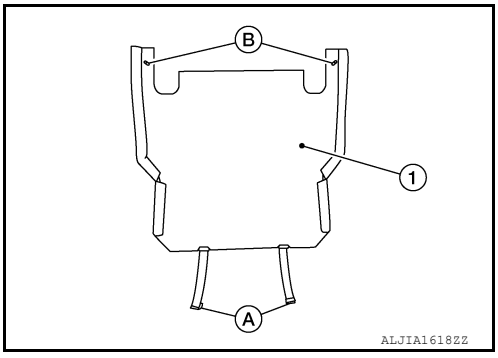
REMOVAL

WARNING:
Do not leave any objects (screwdrivers, tools, etc.) on seat during seatback repair. It can lead to personal injury if side air bag module should accidentally deploy.
CAUTION:
When removing or installing seat trim, handle it carefully to keep dirt out and to avoid damage.

1. Remove seatback board. Refer to SE-129, "Seatback Board".
2. Release seatback trim J-hooks.
: J-hook



3. Release two J-hook retainers (A) from seat frame assembly.
4. Release seat hinge cover clips (B) then remove seat hinge cover (1).



INSTALLATION
Installation is in the reverse order of removal.

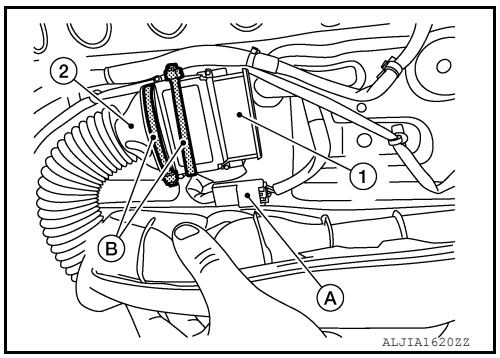
Seatback Thermal Electric Device

INFOID:0000000011219129

REMOVAL

1. Remove seat hinge cover. Refer to SE-130, "Seat Hinge Cover".

2. Reposition seatback pad then disconnect harness connector (A) from seatback thermal electric device (1).
3. Remove tie straps (B) and seatback thermal electric device (1) from upper blower duct (2) and seatback frame.



INSTALLATION

Installation is in the reverse order of removal.

NOTE:

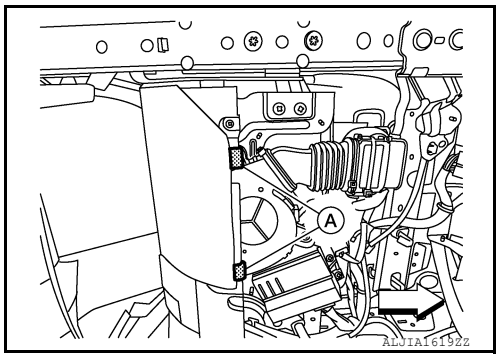
Do not reuse tie straps; new tie straps must be used for installation.

Seat Cushion Thermal Electric Device

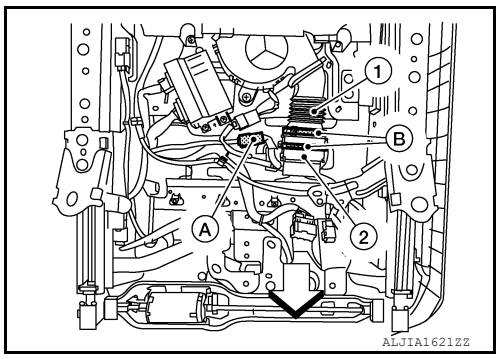
INFOID:0000000011219130

REMOVAL

1. Remove front seat. Refer to SE-128, "Removal and Installation".
2. Remove seat hinge cover. Refer to SE-130, "Seat Hinge Cover".
3. Release seat cushion J-clip retainers (A) holding seat cushion trim to seat hinge cover.
   ⇦: Front



4. Remove four screws and seat cushion lower rear finisher.
5. Disconnect harness connector (A) from seat cushion thermal electric device (2).
6. Remove tie straps (B) and seat cushion thermal electric device (2) from lower blower duct (1) and seat cushion frame.
   ⇦: Front



INSTALLATION

Installation is in the reverse order of removal.

NOTE:

Do not reuse tie straps; new tie straps must be used for installation.

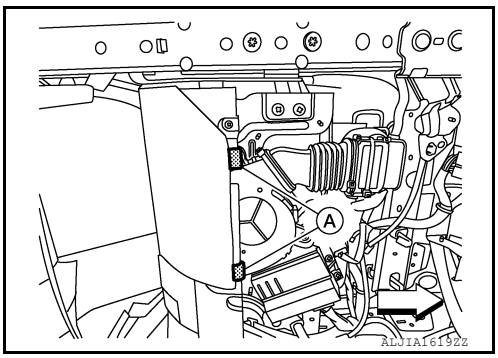
Climate Controlled Seat Blower Motor

INFOID:0000000011219132

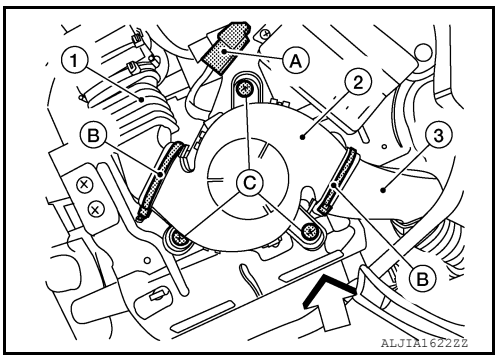
REMOVAL

1. Remove front seat. Refer to SE-128, "Removal and Installation".
2. Remove seat hinge cover. Refer to SE-130, "Seat Hinge Cover".

3. Release seat cushion J-clip retainers (A) holding seat cushion trim to seat hinge cover.
   ⇦: Front



4. Remove four screws and seat cushion lower rear finisher.
5. Disconnect harness connector (A) from climate controlled seat blower motor (2).
6. Remove tie straps (B) and discard then remove angle duct (3) and lower blower duct (1) from climate controlled seat blower motor (2).
7. Remove screws (C) and climate controlled seat blower motor.
   ⇦: Front



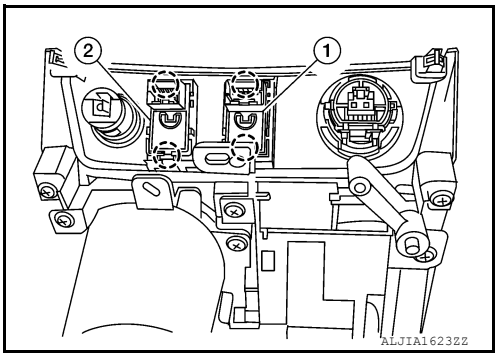
INSTALLATION
Installation is in the reverse order of removal.
NOTE:
Do not reuse tie straps; new tie straps must be used for installation.

Climate Controlled Seat Switch

INFOID:0000000011219133

REMOVAL

1. Release clips and pawls using a suitable tool and remove center console side finisher (LH/RH).
2. Release clips and remove center console upper side finisher (LH/RH).
3. Release clips and screws and remove center console lower side finisher (LH/RH).
4. Remove cluster lid C. Refer to IP-22, "Removal and Installation".
5. Remove shift selector knob. Refer to TM-193, "Exploded View".
6. Release clips using a suitable tool then disconnect harness connectors and remove shift selector finisher. Refer to IP-19, "Exploded View".
7. Release pawls using a suitable tool and remove climate controlled seat switch (1, 2).
   ◌:Pawl



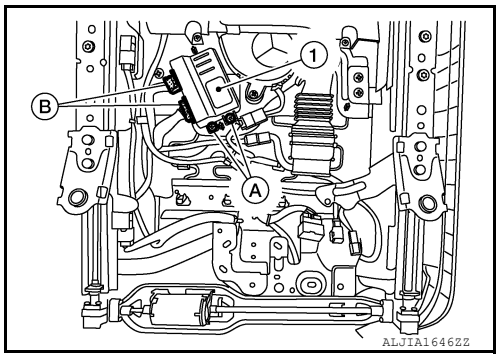
INSTALLATION
Installation is in the reverse order of removal.

Climate Controlled Seat Control Unit

INFOID:0000000011590509

REMOVAL

1. Remove front seat. Refer to SE-128, "Removal and Installation" (LH) or SE-128, "Removal and Installation" (RH).
2. Remove screws (A) and disconnect harness connectors (B) then remove climate controlled seat control unit (1).



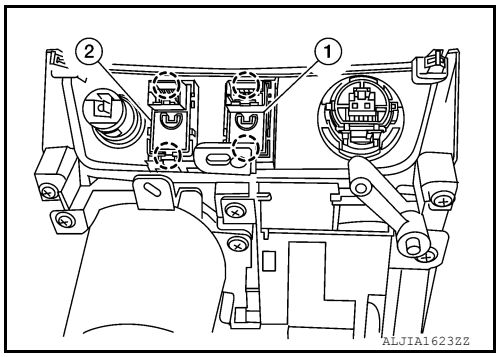
INSTALLATION
Installation is in the reverse order of removal.

Front Heated Seat Switch

INFOID:0000000011578000

REMOVAL

1. Release clips and pawls using a suitable tool and remove center console side finisher (LH/RH).
2. Release clips and remove center console upper side finisher (LH/RH).
3. Release clips and screws and remove center console lower side finisher (LH/RH).
4. Remove cluster lid C. Refer to IP-22, "Removal and Installation".
5. Remove shift selector knob. Refer to TM-193, "Exploded View".
6. Release clips using a suitable tool then disconnect harness connectors and remove shift selector finisher. Refer to IP-19, "Exploded View".
7. Release pawls using a suitable tool and remove heated seat switch (1, 2).
   ◌:Pawl



INSTALLATION
Installation is in the reverse order of removal.

Front Seat Heater

INFOID:0000000011219134

REMOVAL

1. Remove seat cushion pad. Refer to SE-164, "Seat Cushion" (LH), or SE-164, "Seat Cushion" (RH).
2. Carefully remove front seat heater from seat cushion pad.
   CAUTION:
   - **Carefully remove seat heater from seat cushion pad.**
   - **Do not damage seat cushion pad when removing seat heater, if damaged replace seat cushion pad.**

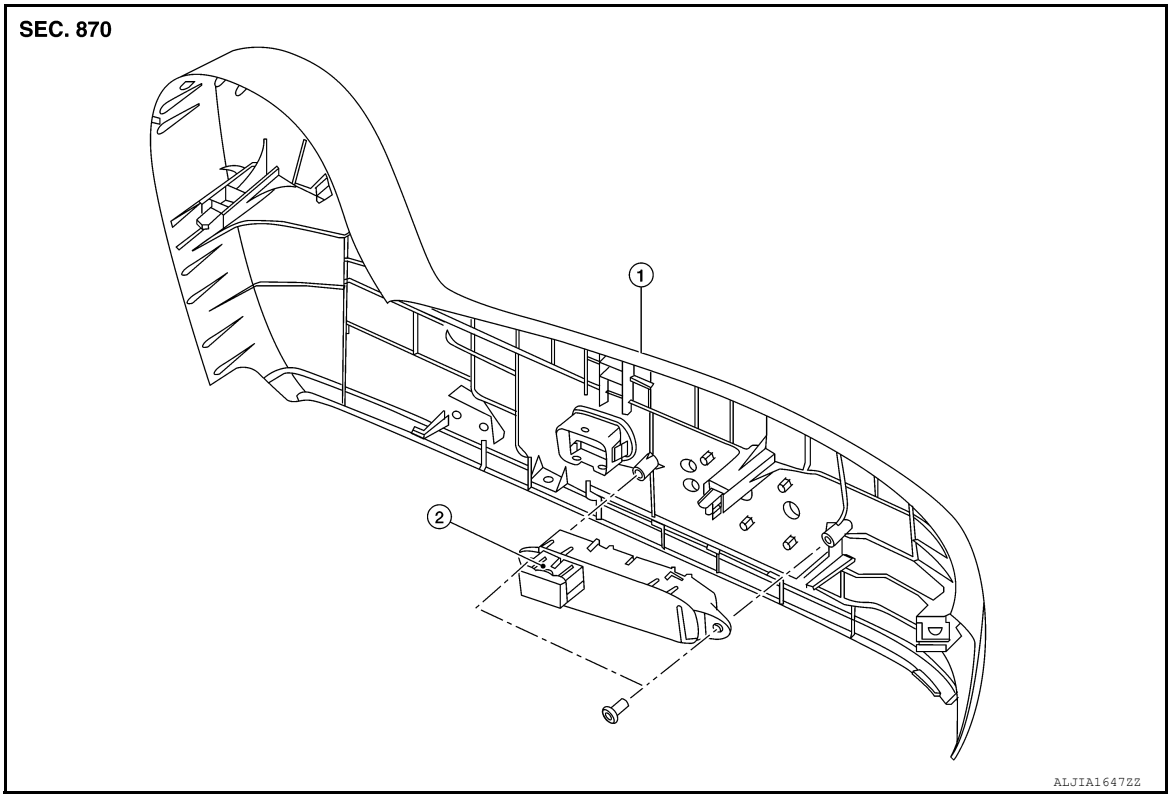
INSTALLATION

1. Peel protective backing from front seat heater and attach to seat cushion pad.
2. Secure front seat heater harness to seat cushion frame.
3. Install remaining seat cushion components. Refer to SE-164, "Seat Cushion" (LH), or SE-164, "Seat Cushion" (RH).

Power Seat Switch

INFOID:0000000011596643

EXPLODED VIEW



1. Seat cushion outer finisher
2. Power seat switch

REMOVAL

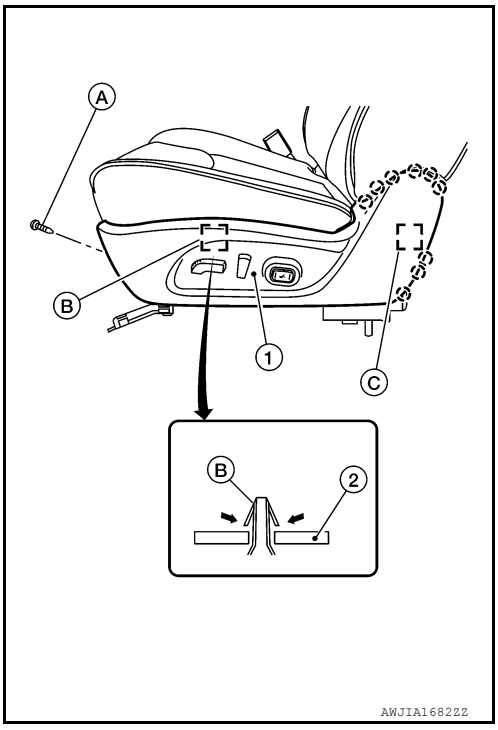
NOTE:
LH shown, RH similar.

1. Remove seat cushion outer finisher (1).

a. Remove screw (A).

b. Release metal clip (B) from seat frame assembly (2), as shown.
: Metal clip

c. Release pawls and metal clip (C), and remove.
: Pawl
: Metal clip



d. Disconnect harness connectors from power seat switch and lumbar support switch (if equipped).
2. Disconnect harness connector from power seat switch.
3. Remove screws and power seat switch.

INSTALLATION

Installation is in the reverse order of removal.

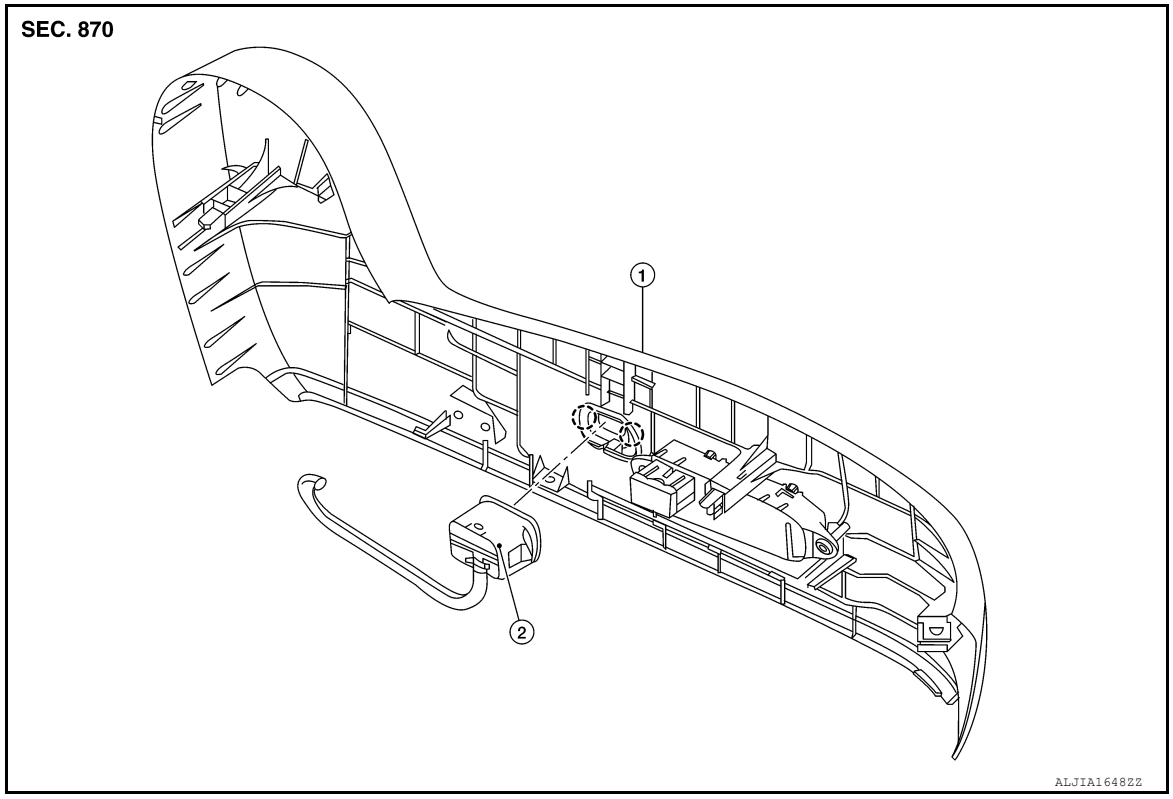
CAUTION:

- **Visually check clips for deformation and damage during installation. Replace with new ones if necessary.**
- **When installing seat cushion outer finisher, check that clips are securely placed into seat cushion frame holes.**

Lumbar Support Switch

INFOID:0000000011596644

EXPLODED VIEW



1. Seat cushion outer finisher
2. Lumbar support switch
Pawl

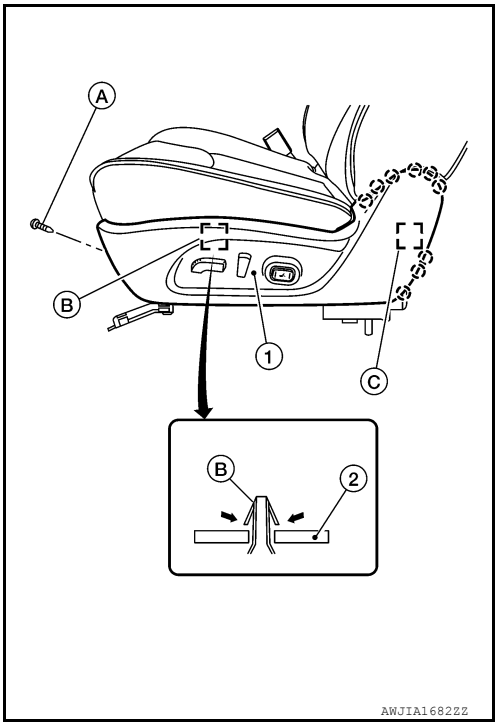
REMOVAL

1. Remove seat cushion outer finisher (1).

a. Remove screw (A).

b. Release metal clip (B) from seat frame assembly (2), as shown.
: Metal clip

c. Release pawls and metal clip (C), and remove.
: Pawl
: Metal clip



2. Disconnect harness connector from lumbar support switch.
3. Using a suitable tool release pawls and remove lumbar support switch.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

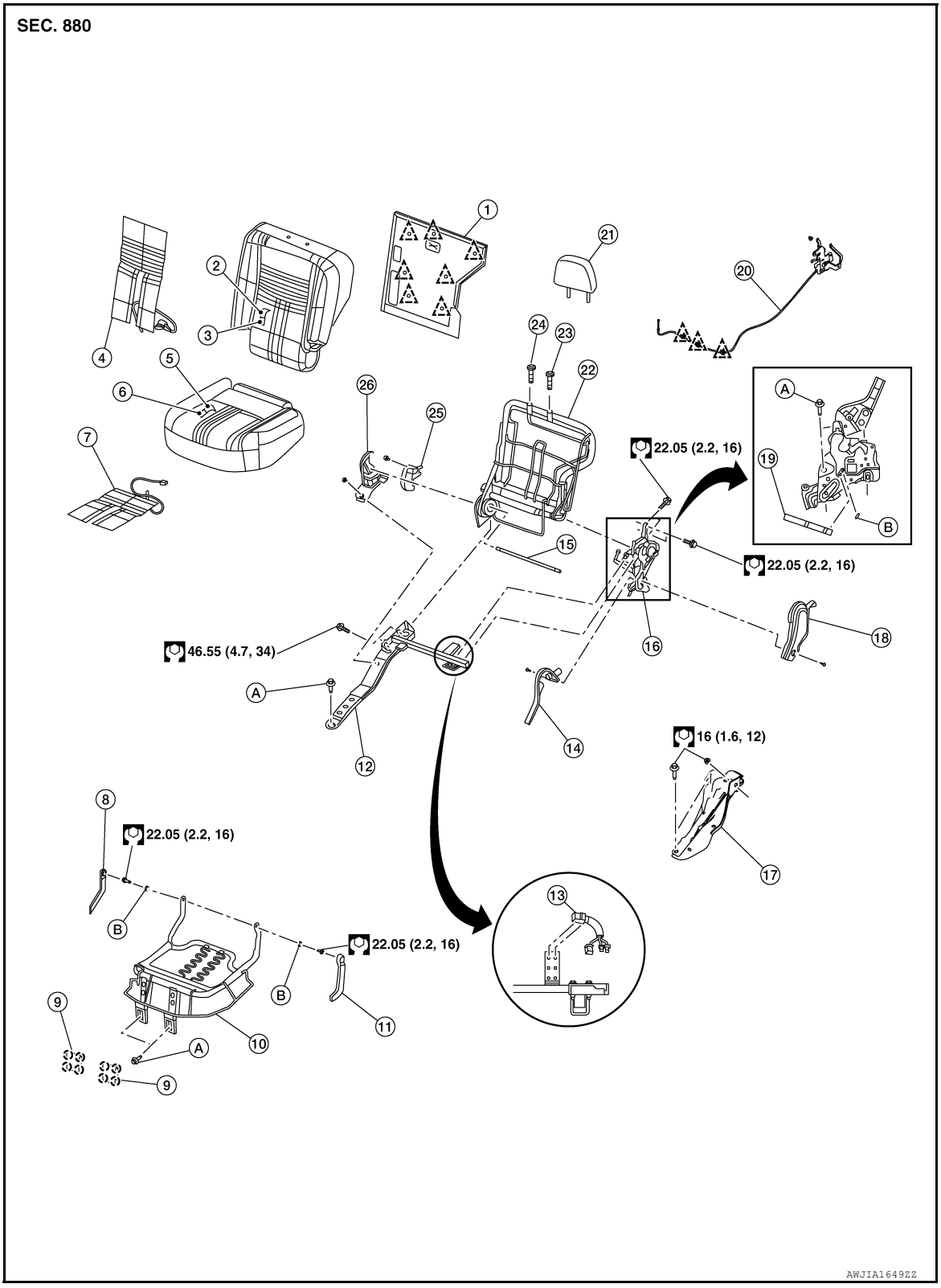
- **Visually check clips and pawls for deformation and damage during installation. Replace with new ones if necessary.**
- **When installing seat cushion outer finisher, check that clips are securely placed into seat cushion frame holes.**

SECOND ROW SEATS

Exploded View

INFOID:0000000011219135

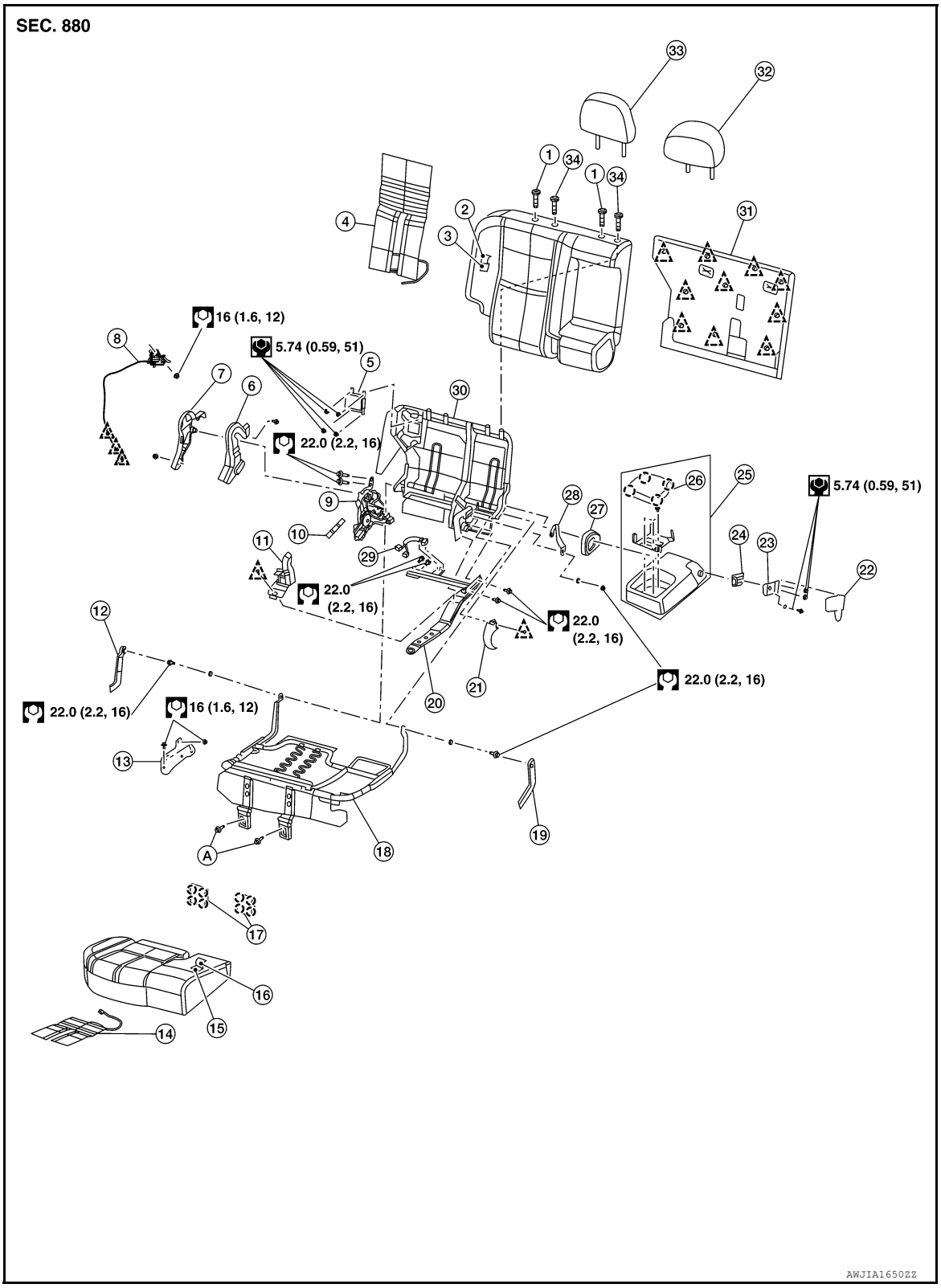
LH SEAT



1. Seatback board
2. Seatback trim
3. Seatback pad
4. Seatback heater unit (if equipped)
5. Seat cushion trim
6. Seat cushion pad

7. Seat Cushion heater unit (if equipped)	8. Seat cushion link cover (RH)	9. Seat cushion hinge cover
10 Seat cushion frame	11. Seat cushion link cover (LH)	12. LATCH bracket
13. Seat harness (LH)	14. Reclining device inner cover (LH)	15. Reclining device connecting rod
16. Reclining device assembly	17. Seat bracket	18. Reclining device outer cover (LH)
19. Pull strap	20. Recline release cable assembly	21. Headrest
22. Seatback frame	23. Headrest holder (locked)	24. Headrest holder (free)
25. Reclining device inner cover (RH)	26. Reclining device outer cover (RH)	A. Refer to installation
B. Grommet	Clip	Pawl

RH SEAT



1. Headrest holder (free)	2. Seatback trim	3. Seatback pad
4. Seatback heater unit	5. Dampener	6. Reclining device inner finisher (RH)
7. Reclining device outer finisher (RH)	8. Recline release cable assembly	9. Reclining device assembly
10. Pull strap	11. Reclining device front cover	12. Seat cushion link cover (RH)

13. Seat bracket
14. Seat cushion heater unit (if equipped)
15. Seat cushion pad
16. Seat cushion trim
17. Seat cushion hinge cover
18. Seat cushion frame
19. LATCH bracket
20. Seat cushion link cover (LH)
21. Reclining device inner finisher (RH)
22. Armrest bracket outer finisher (LH)
23. Armrest outer bracket
24. Armrest bracket inner finisher (LH)
25. Armrest assembly
26. Cup holder
27. Armrest bracket finisher (RH)
28. Armrest inner bracket
29. Seat harness
30. Seatback frame
31. Seatback board
32. Headrest (center)
33. Headrest (RH)
34. Headrest holder (locked)
A. Refer to installation
Clip
Pawl

Removal and Installation

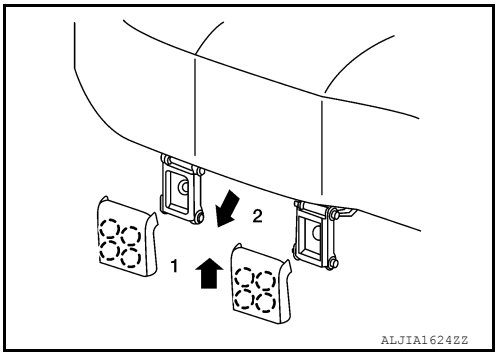
INFOID:0000000011219136

REMOVAL

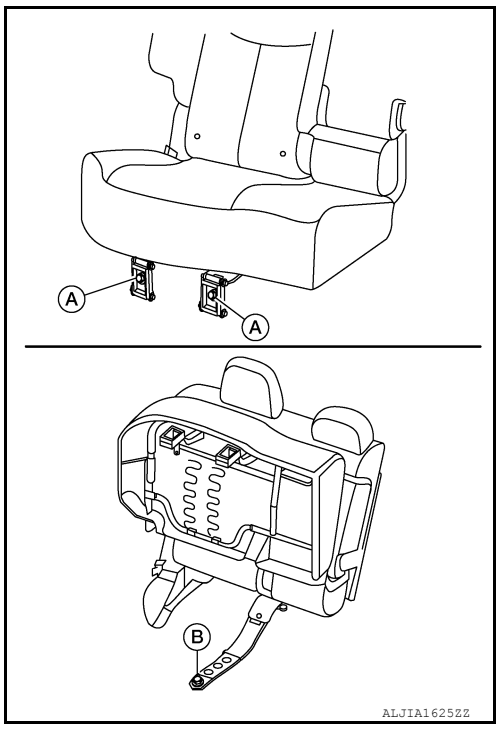
CAUTION:
• Before removal and installation, use shop cloths to protect parts from damage.
• During removal and installation, an assistant is required to protect against injury or damage.
NOTE:
RH seat shown; LH seat similar.

1. Remove headrests.
2. Remove seat cushion hinge covers (LH/RH).

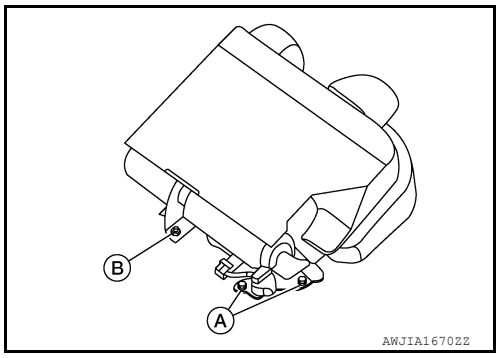
a. Slide seat cushion hinge covers upward (1) to release pawls.
b. Pull (2) seat cushion hinge covers away from bracket.
: Pawl



3. Remove two seat front bolts (A).
4. Lift and support rear seat cushion assembly using a suitable tool then remove bolt (B).



5. Disconnect harness connector (if equipped) then release from seat frame assembly.
6. Adjust rear seat to fold flat position then remove seat rear bolts (A) and nut (B).



7. Release recline release cable from reclining device and remove seat.

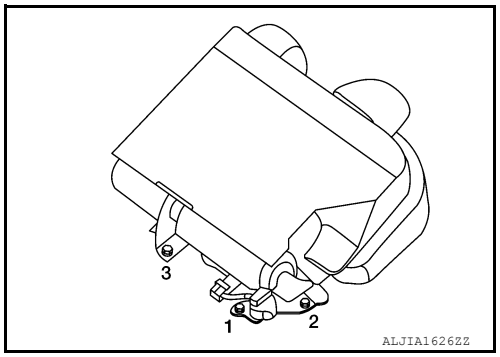
INSTALLATION

Installation is in the reverse order of removal.

NOTE:

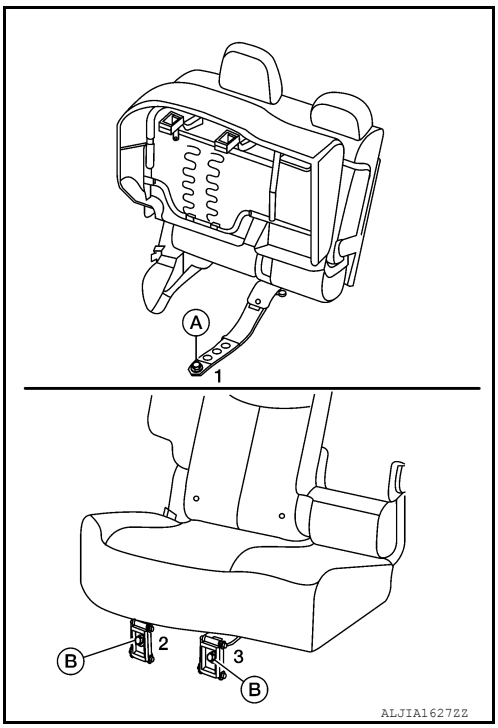
- With seat folded flat, tighten seat rear bolts and nut in the order shown.

Seat rear bolts and nut :45 N·m (4.6 Kg–m, 33 Ft–lb)



- Lift seat cushion and tighten seat front bolt (A) then lower seat cushion and tighten seat front bolts (B) in the order shown.

Seat front bolts **:45 N·m (4.6 Kg–m, 33 Ft–lb)**

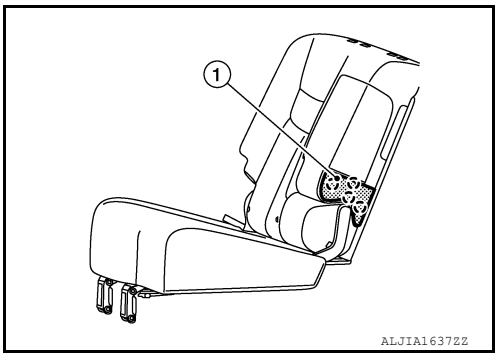


Armrest Assembly

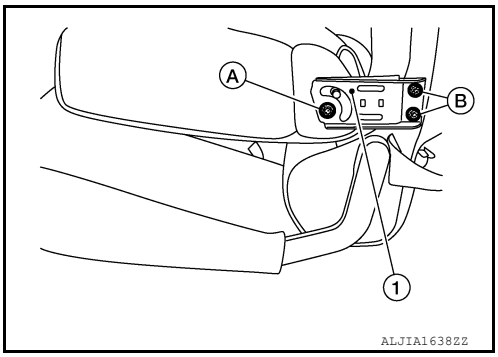
INFOID:0000000011219137

REMOVAL

1. Adjust rear seat (LH) to the fold flat position.
2. Release pawls and remove armrest bracket outer finisher.
   ◌: Pawl



3. Remove bolt (A) and nuts (B), then remove armrest outer bracket (1).



4. Remove armrest assembly.

INSTALLATION

Installation is in the reverse order of removal.

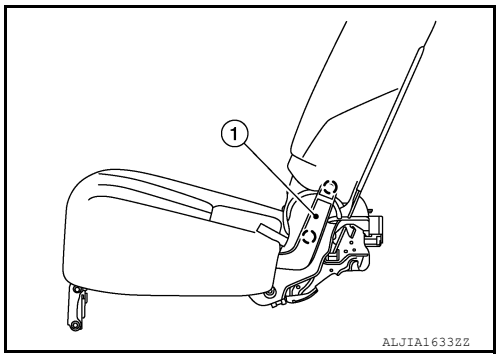
Seat Cushion

INFOID:0000000011219138

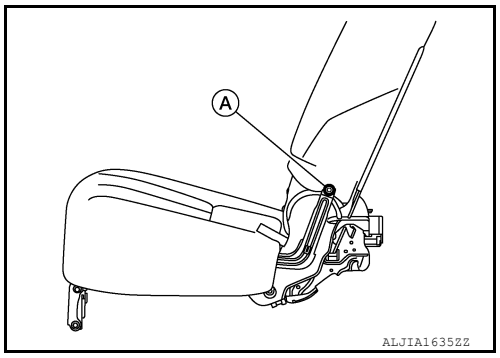
REMOVAL

NOTE:
LH seat cushion shown; RH seat cushion similar.

1. Remove rear seat. Refer to SE-140, "Removal and Installation".
2. Disconnect harness connectors from seat (LH) cushion heater (if equipped) and release harness from attachments.
   NOTE:
   Take note of harness routing and attachment location for correct installation.
3. Release pawls and remove seat cushion link cover (RH/LH).
   (1): Pawl



4. Remove seat cushion link bolt (RH/LH) (A) and remove seat cushion.



INSTALLATION

Installation is in the reverse order of removal.
NOTE:
Tighten seat cushion link bolt to specification. Refer to SE-137, "Exploded View".

Recline Release Cable Assembly

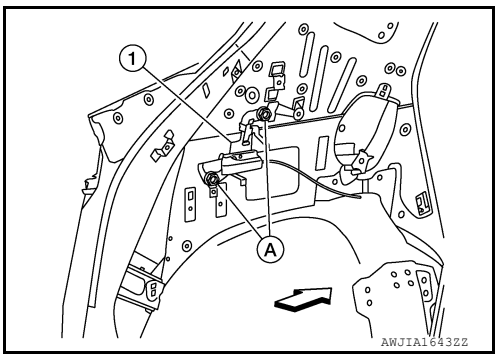
INFOID:0000000011219141

REMOVAL

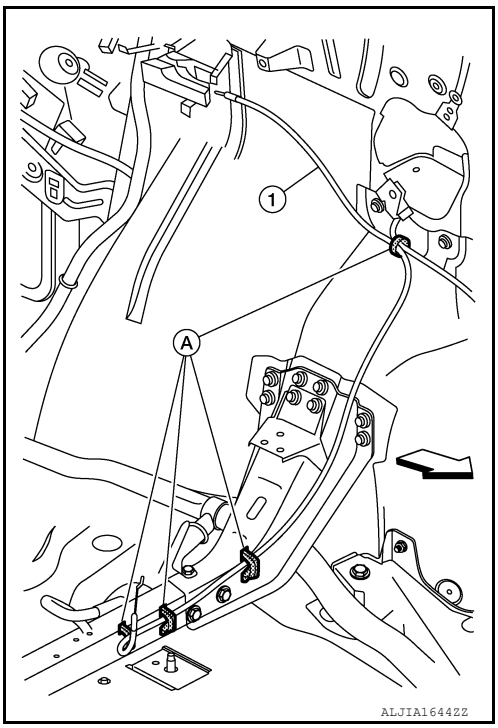
NOTE:
LH shown; RH similar.

1. Remove luggage side lower finisher. Refer to INT-30, "LUGGAGE SIDE LOWER FINISHER : Removal and Installation" (LH) or INT-30, "LUGGAGE SIDE LOWER FINISHER : Removal and Installation" (RH).

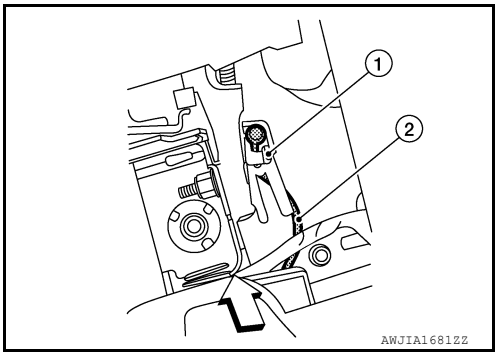
2. Remove nuts (A) and recline release cable assembly (1).
   ⇦: Front



3. Remove recline release cable (1) from clips (A).
   ⇦: Front
   CAUTION:
   Note cable routing for correct installation.



4. Remove recline release cable assembly (2) from rear seat (LH) recline device assembly (1).
   ⇦: Front



INSTALLATION
Installation is in the reverse order of removal.
CAUTION:
Route cables correctly for proper function.

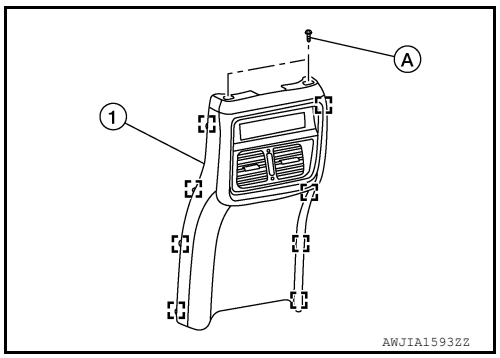
Second Row Heated Seat Switch

INFOID:0000000011219144

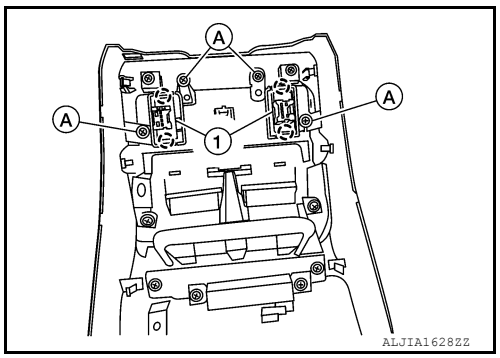
REMOVAL

1. Remove center console tray mat. Refer to IP-19, "Exploded View".
2. Remove screw and release clips then remove center console tray.

3. Remove screws (A) and release clips using a suitable tool then remove center console rear finisher (1).
   : Metal clip



4. Remove screws (A) and release pawls then remove second row heated seat switches (1).
   : Pawl



INSTALLATION

Installation is in the reverse order of removal.

Second Row Seat Heater

INFOID:0000000011219145

REMOVAL

Seat Heater - Seat cushion pad

1. Remove seat cushion pad. Refer to SE-171, "LH SEAT : Seat Cushion" (LH), or SE-173, "RH SEAT : Seat Cushion" (RH).
2. Carefully remove second row seat heater from seat cushion pad.
   CAUTION:
   - **Carefully remove seat heater from seat cushion pad.**
   - **Do not damage seat cushion pad when removing seat heater, if damaged replace seat cushion pad.**

Seat Heater - Seatback pad

1. Remove seatback pad. Refer to SE-170, "LH SEAT : Seatback" (LH), or SE-172, "RH SEAT : Seatback" (RH).
2. Carefully remove second row seat heater from seatback pad.
   CAUTION:
   - **Carefully remove seat heater from seatback pad.**
   - **Do not damage seatback pad when removing seat heater, if damaged replace seatback pad.**

INSTALLATION

Seat cushion pad

1. Peel protective backing from second row seat heater and attach to seat cushion pad.
2. Secure the seat heater harness to the seat cushion frame.
3. Install the remaining seat cushion components. Refer to SE-171, "LH SEAT : Seat Cushion" (LH), or SE-173, "RH SEAT : Seat Cushion" (RH).

Seatback pad

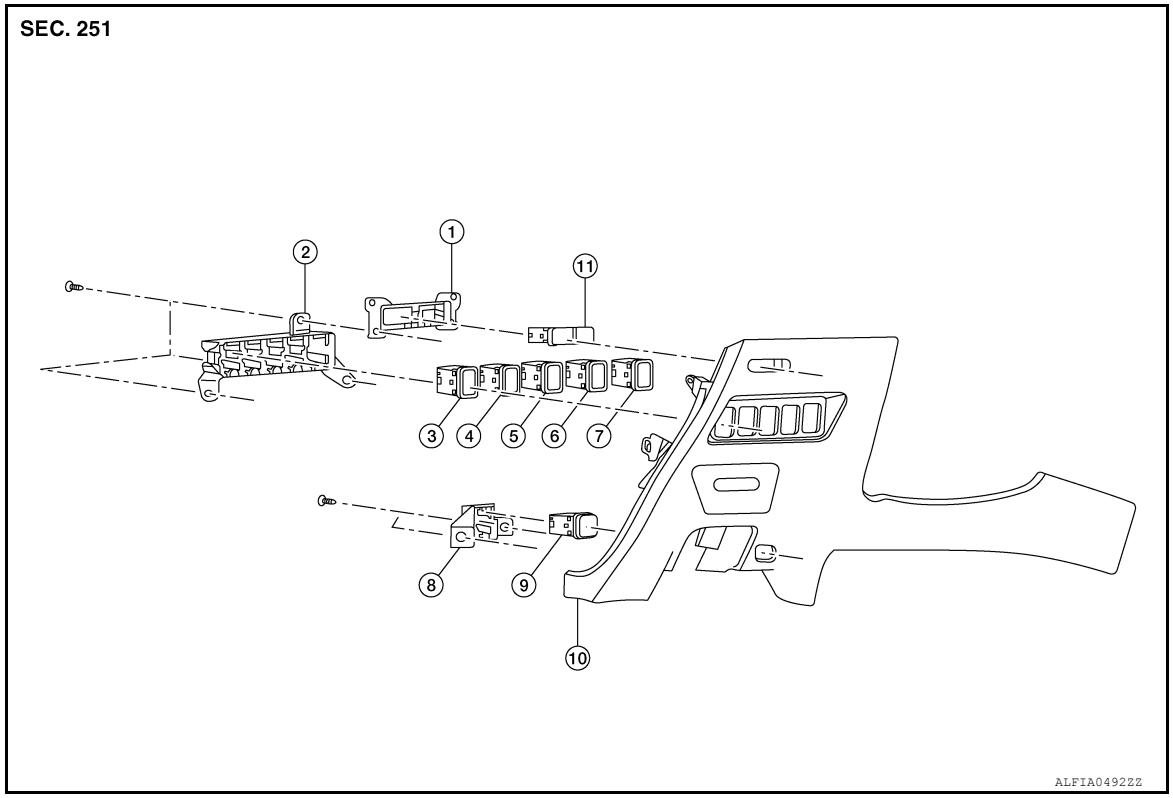
1. Peel protective backing from second row seat heater and attach to seatback pad.
2. Secure the second row seat heater harness to the seat frame assembly.

3. Install the remaining seatback components. Refer to SE-170, "LH SEAT : Seatback" (LH), or SE-172, "RH SEAT : Seatback" (RH).

POWER RETURN SWITCH

Front Power Return Switch

INFOID:0000000011590389



1. Upper switch carrier
2. Middle switch carrier
3. VDC OFF switch
4. Mask
5. Automatic back door switch
6. Heated steering wheel switch
7. Mask
8. Lower switch carrier
9. Front power return switch
10. Instrument lower panel LH
11. Illumination control switch

Removal

1. Remove instrument lower panel LH. Refer to IP-24, "Removal and Installation".
2. Remove screws and lower switch carrier from instrument lower panel LH.
3. Release pawls and remove front power return switch from lower switch carrier.

Installation

Installation is in the reverse order of removal.

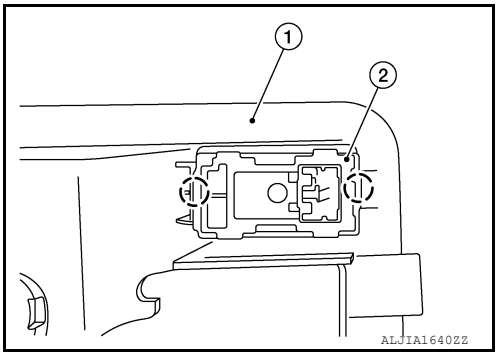
Rear Power Return Switch

INFOID:0000000011219148

REMOVAL

1. Remove the rear seat recline lever finisher escutcheon. Refer to INT-30, "Exploded View".
2. Remove screw and rear seat recline lever finisher, then disconnect the harness connector from rear power return switch.

3. Release pawls and remove rear power return switch (2) from rear seat recline lever finisher (1).
   ( ): Pawl



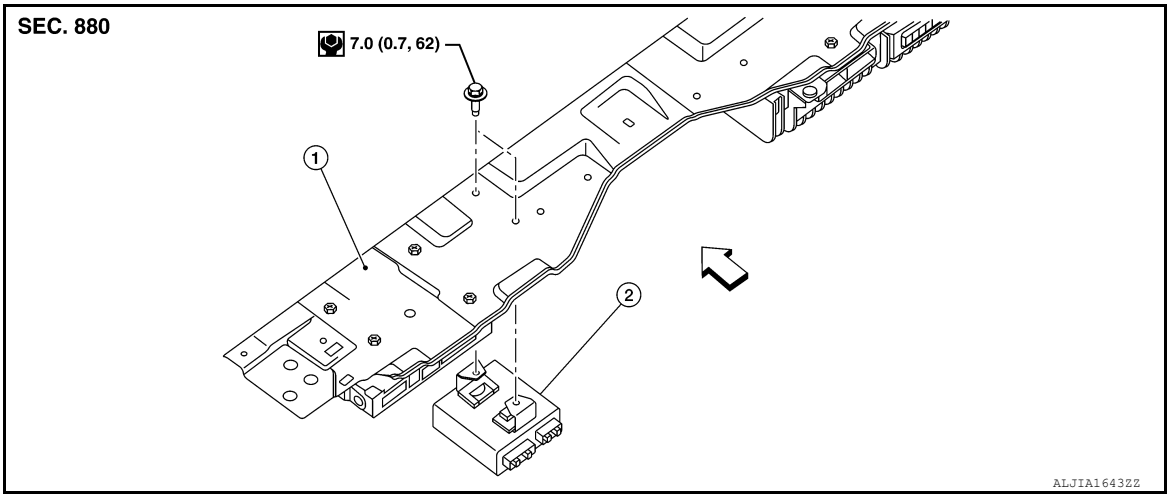
INSTALLATION

Installation is in the reverse order of removal.

SEATBACK POWER RETURN CONTROL UNIT

Explode View

INFOID:0000000011590495



1. Luggage floor support bracket
2. Seatback power return control unit
⇦ Front

Removal and Installation

INFOID:0000000011219149

REMOVAL

1. Remove luggage floor front finisher. Refer to INT-30, "Exploded View".
2. Disconnect the harness connectors from the rear seatback power return control unit.
3. Remove bolts and rear seatback power return control unit.

INSTALLATION

Installation is in the reverse order of removal.

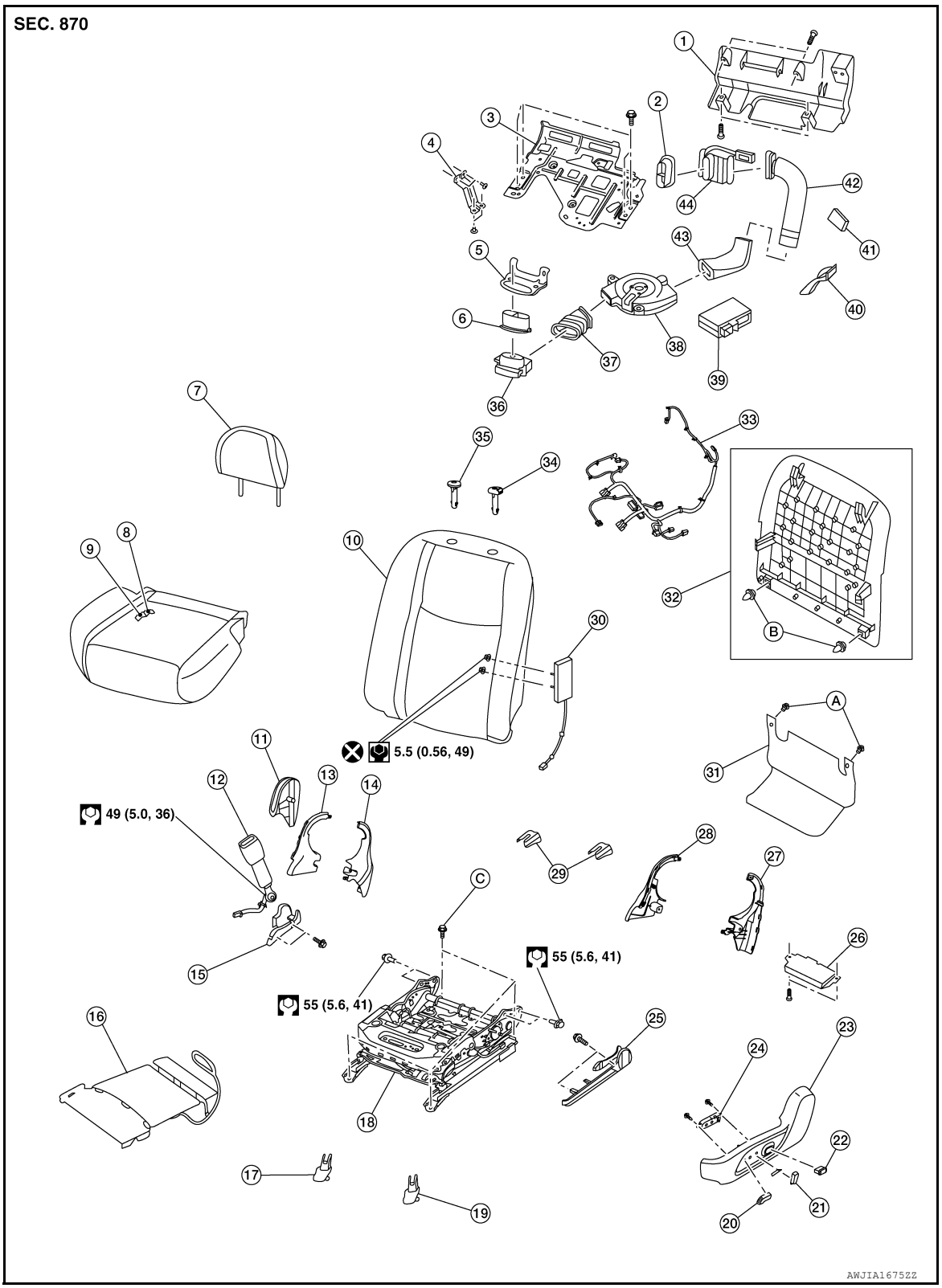
UNIT DISASSEMBLY AND ASSEMBLY

FRONT SEAT

Exploded View

INFOID:0000000011219150

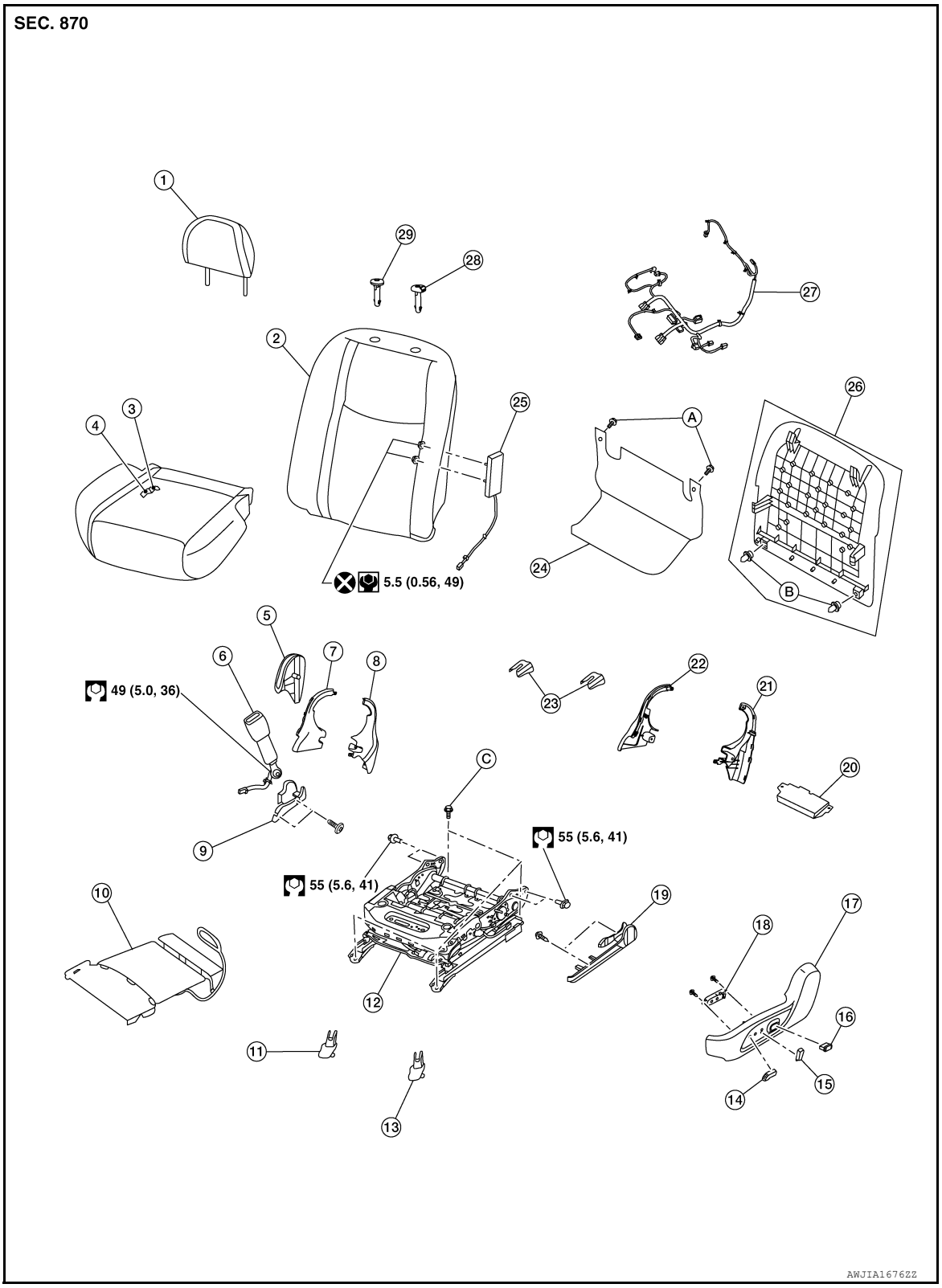
DRIVER SEAT WITH CLIMATE CONTROL



1. Lower rear cover	2. Thermal electric device nozzle	3. Blower motor bracket
4. Thermal electric device harness bracket	5. Thermal electric device bracket	6. Thermal electric device nozzle
7. Headrest without display unit	8. Seat cushion trim	9. Seat cushion pad
10. Seatback assembly	11. Seat cushion outer finisher (RH)	12. Seat belt buckle
13. Seat cushion inner finisher (RH) (front)	14. Seat cushion inner finisher (RH) (rear)	15. Slide finisher outer (RH)
16. Front seat heater	17. Front slide finisher (RH)	18. Seat frame assembly
19. Front slide finisher (LH)	20. Seat slide knob	21. Seat recline knob
22. Lumbar support switch	23. Seat cushion outer finisher (LH)	24. Power seat switch
25. Slide finisher outer (LH)	26. Driver seat control unit	27. Seat cushion inner finisher (LH) (rear)
28. Seat cushion inner finisher (LH) (front)	29. Rear slide finisher	30. Side air bag module
31. Rear hinge cover	32. Seatback board	33. Seat harness
34. Headrest holder (locked)	35. Headrest holder (free)	36. Seat cushion thermal electric device
37. Lower blower duct	38. Blower motor with filter	39. Climate controlled seat control unit
40. Thermal electric device clip	41. Upper blower duct clip	42. Upper blower duct
43. Angle duct	44. Seatback thermal electric device	A. Rear hinge cover clips
B. Seatback board clips	C. Refer to installation	

DRIVER SEAT WITHOUT CLIMATE CONTROL

SEC. 870

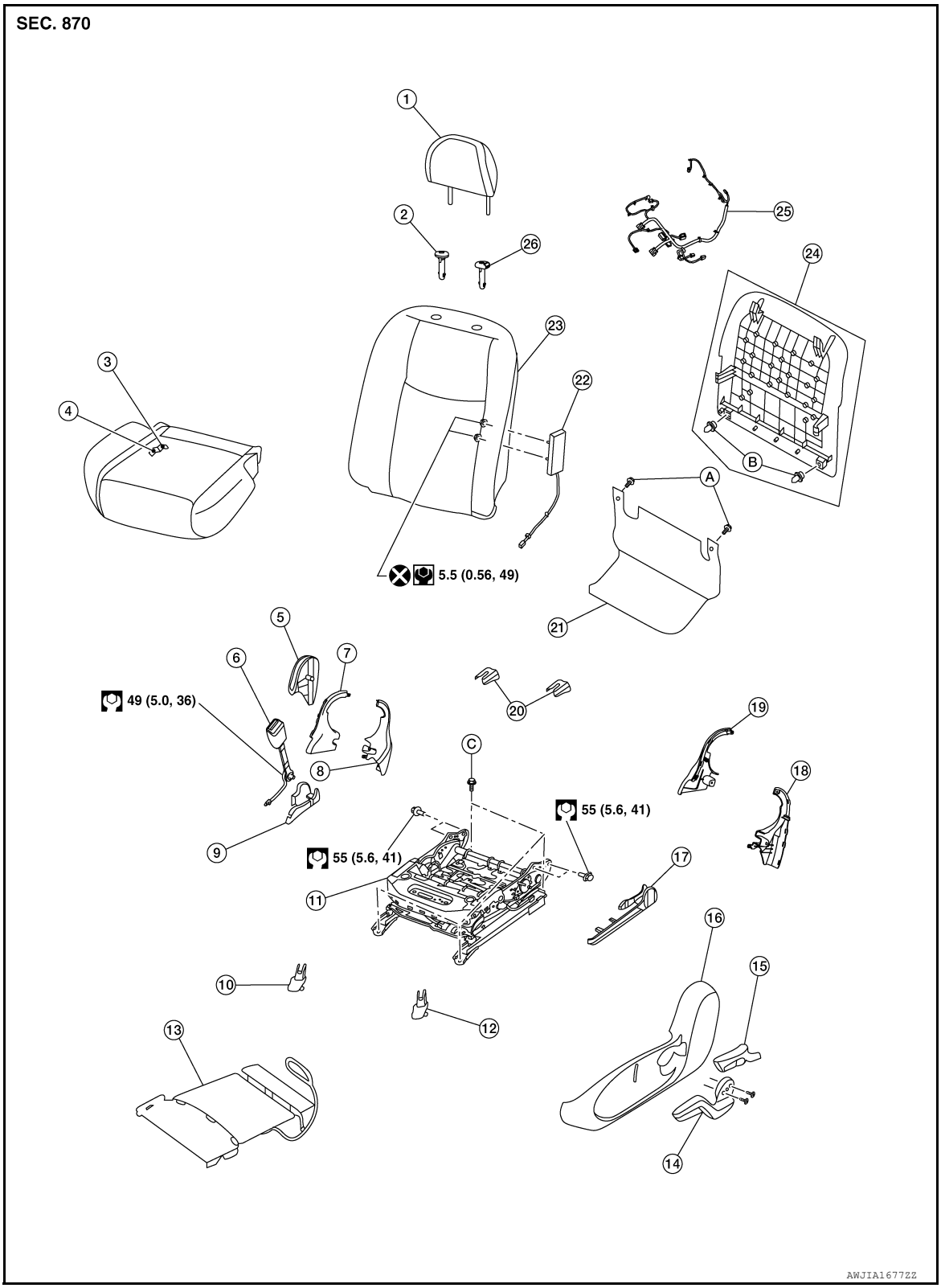


1. Headrest
2. Seatback assembly
3. Headrest display unit finisher
4. Seat cushion pad
5. Seat cushion outer finisher (RH)
6. Seat belt buckle
7. Seat cushion inner finisher (RH) (front)
8. Seat cushion inner finisher (RH) (rear)
9. Slide finisher outer (RH)
10. Front seat heater
11. Front slide finisher (RH)
12. Seat frame assembly
13. Front slide finisher (LH)
14. Seat slide knob
15. Seat recline knob

16. Lumbar support switch
17. Seat cushion outer finisher (LH)
18. Power seat switch
19. Slide finisher outer (LH)
20. Driver seat control unit
21. Seat cushion inner finisher (LH) (rear
22. Seat cushion inner finisher (LH) (front)
23. Rear slide finisher
24. Rear hinge cover
25. Side air bag module
26. Seatback board
27. Seat harness
28. Headrest holder (locked)
29. Headrest holder (free)
A. Rear hinge cover clips
B. Seatback board clips
C. Refer to installation

DRIVER SEAT - MANUAL

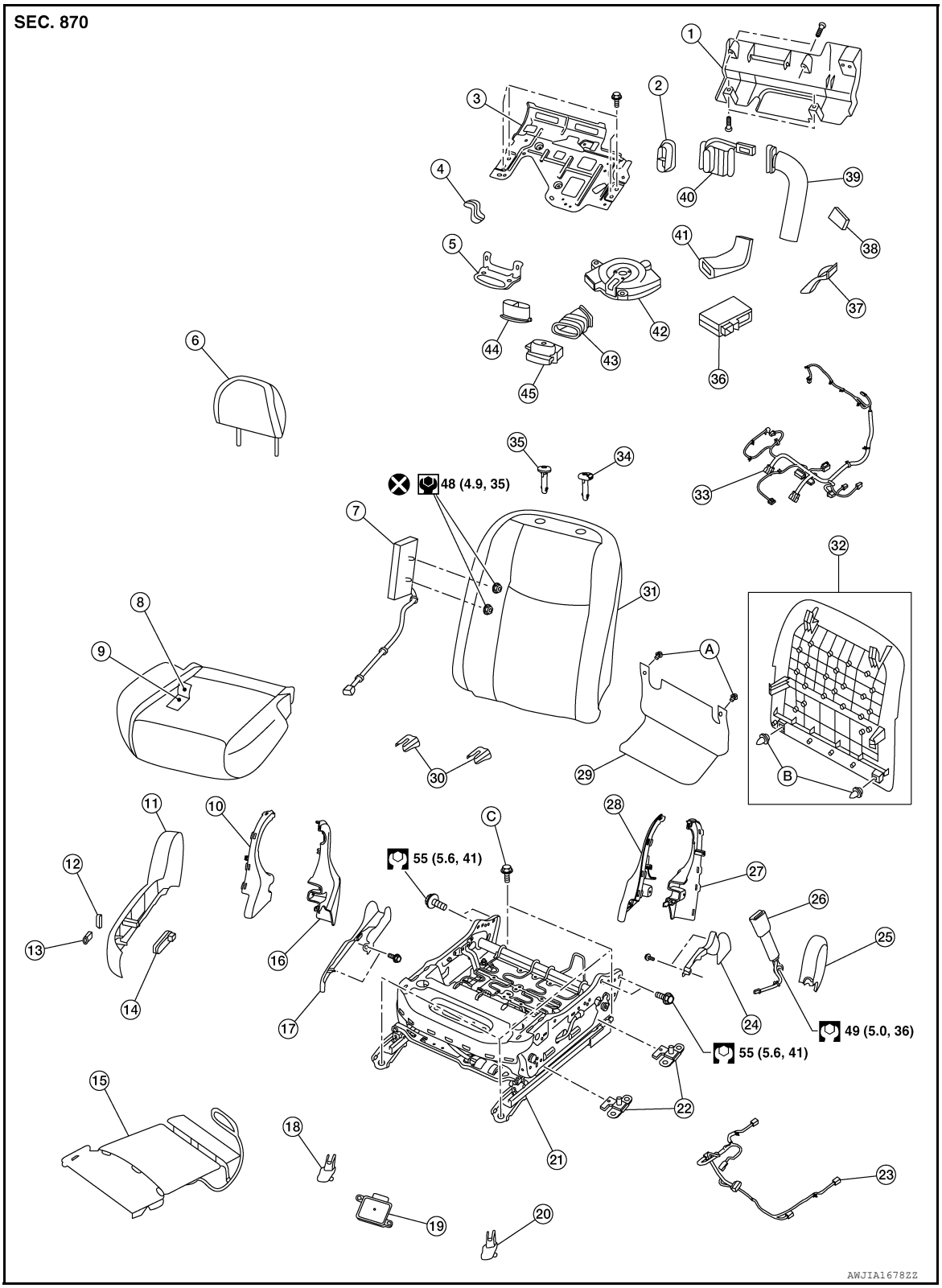
SEC. 870



1. Headrest
2. Headrest holder (free)
3. Seat cushion trim
4. Seat cushion pad
5. Seat cushion outer finisher (RH)
6. Seat belt buckle
7. Seat cushion inner finisher (RH) (front)
8. Seat cushion inner finisher (RH) (rear)
9. Slide finisher outer (RH)
10. Front slide finisher (RH)
11. Seat frame assembly
12. Front slide finisher (LH)
13. Front seat heater (if equipped)
14. Lift lever
15. Recline lever finisher

16. Seat cushion outer finisher (LH)
17. Slide finisher outer (LH)
18. Seat cushion inner finisher (LH) (rear)
19. Seat cushion inner finisher (LH) (front)
20. Rear slide finisher
21. Rear hinge cover
22. Side air bag module
23. Seatback assembly
24. Seatback board
25. Seat harness
26. Headrest holder (locked)
A. Rear hinge cover clips
B. Seatback board clips
C. Refer to installation

PASSENGER SEAT WITH CLIMATE CONTROL

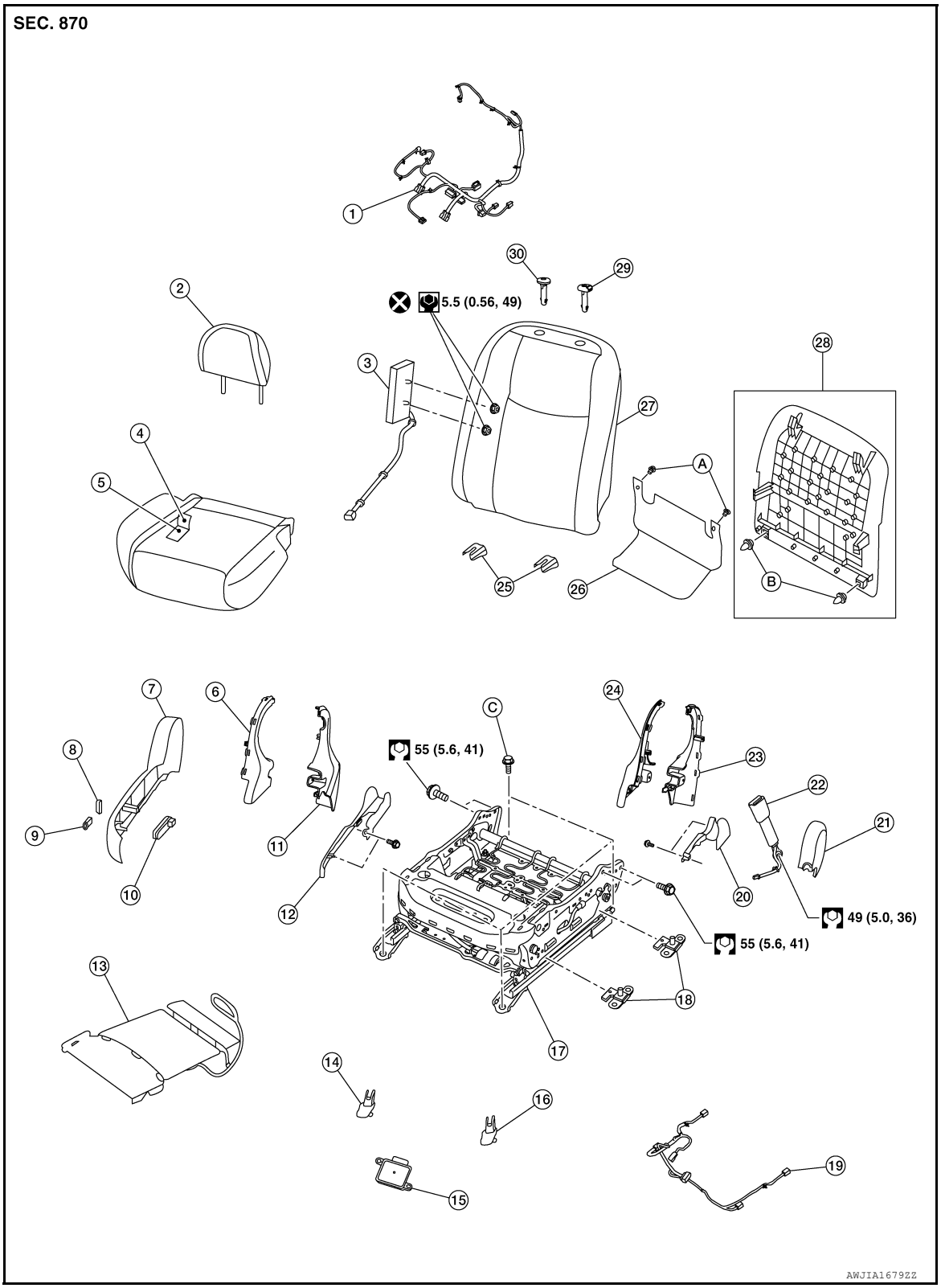


1. Lower rear cover
2. Thermal electric device nozzle
3. Thermal electric device bracket
4. Thermal electric device harness bracket
5. Blower motor bracket
6. Headrest
7. Side air bag module
8. Seat cushion trim
9. Seat cushion pad
10. Seat cushion inner finisher (RH) (front)
11. Seat cushion outer finisher (RH)
12. Seat recline knob
13. Seat slide knob
14. Power seat switch
15. Front seat heater
16. Seat cushion inner finisher (RH) (rear)
17. Slide finisher outer (RH)
18. Front slide finisher (RH)
19. Occupant Classification System control unit
20. Front slide finisher (LH)
21. Seat frame assembly
22. Occupant Classification System sensor
23. Occupant Classification System harness
24. Slide finisher outer (LH)
25. Seat cushion outer finisher (LH)
26. Seat belt buckle
27. Seatback board
28. Seat cushion inner finisher (LH) (front)
29. Seat hinge cover
30. Rear slide finisher
31. Seatback assembly
32. Seatback board
33. Seat harness
34. Headrest holder (locked)
35. Headrest holder (free)
36. Climate controlled seat control unit
37. Thermal electric device clip
38. Upper blower duct clip
39. Upper blower duct
40. Seatback thermal electric device
41. Angle duct
42. Blower motor with filter
43. Lower blower duct
44. Thermal electric device nozzle
45. Seat cushion thermal electric device

A. Rear hinge cover clips
B. Seatback board clips
C. Refer to installation

PASSENGER SEAT WITHOUT CLIMATE CONTROL

SEC. 870



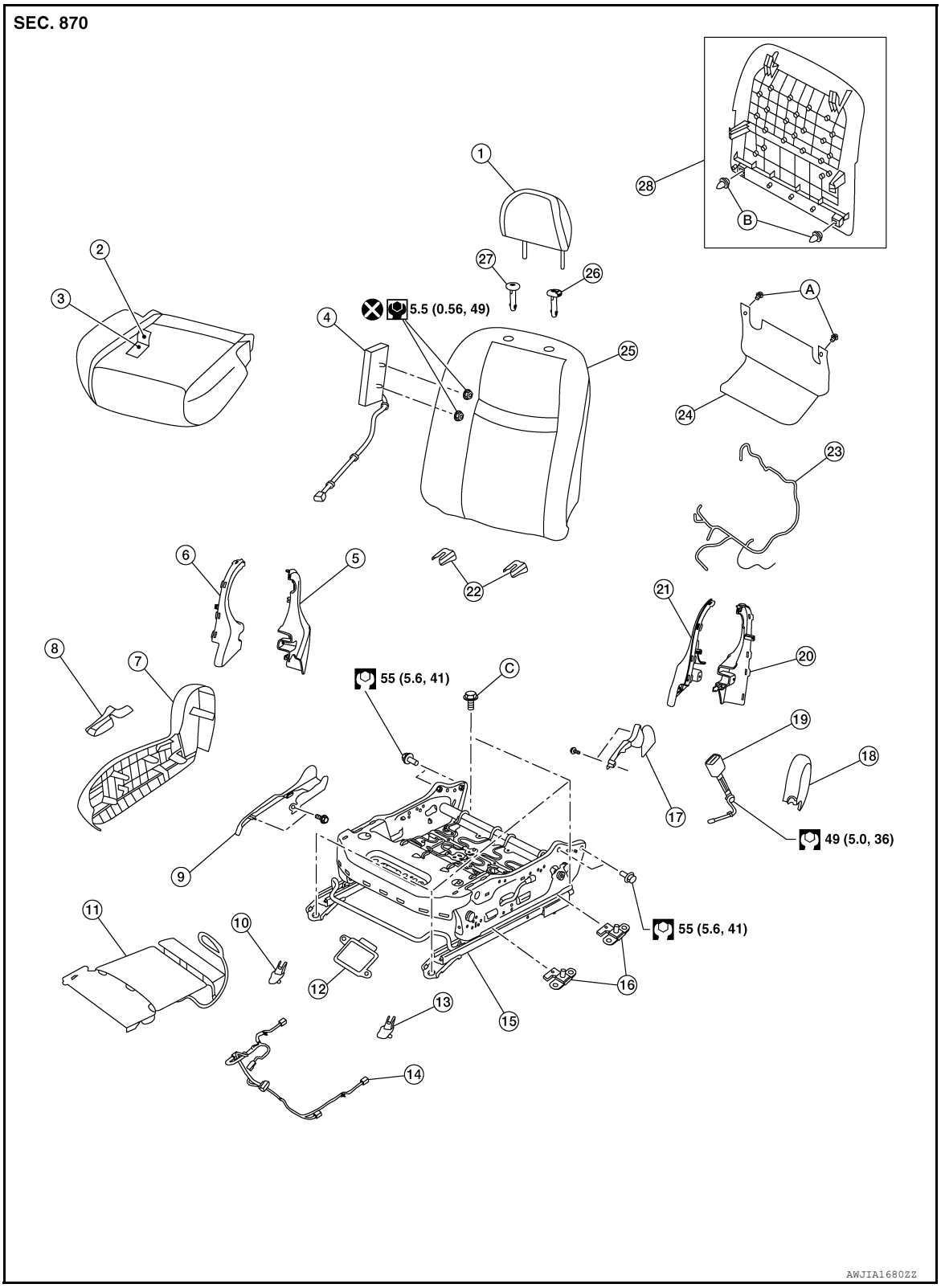
1. Seat harness
2. Headrest
3. Side air bag module
4. Seat cushion trim
5. Seat cushion pad
6. Seat cushion inner finisher (RH) (front)
7. Seat cushion outer finisher (RH)
8. Seat recline knob
9. Seat slide knob
10. Power seat switch
11. Seat cushion inner finisher (RH) (rear)
12. Slide finisher outer (RH)

13. Front seat heater (if equipped)
14. Front slide finisher (RH)
15. Occupant Classification System control unit
16. Front slide finisher (LH)
17. Seat frame assembly
18. Occupant Classification System sensor
19. Occupant Classification System harness
20. Slide finisher outer (LH)
21. Seat cushion outer finisher (LH)
22. Seat belt buckle
23. Seat cushion inner finisher (LH) (rear)
24. Seat cushion inner finisher (LH) (front)
25. Rear slide finisher
26. Seat hinge cover
27. Seatback assembly
28. Seatback board
29. Headrest holder (locked)
30. Headrest holder (free)

A. Rear hinge cover clips
B. Seatback board clips
C. Refer to installation

PASSENGER SEAT - MANUAL

SEC. 870



1. Headrest
2. Seat cushion trim
3. Seat cushion pad
4. Side air bag module
5. Seat cushion inner finisher (RH) (rear)
6. Seat cushion inner finisher (RH) (front)
7. Seat cushion outer finisher (RH)
8. Front slide finisher (RH)
9. Slide finisher outer (RH)
10. Front slide finisher (RH)
11. Front seat heater (if equipped)
12. Occupant Classification System control unit

13. Front slide finisher (LH)	14. Occupant Classification System harness	15. Seat frame assembly
16. Occupant Classification System sensor	17. Slide finisher outer (LH)	18. Seat cushion outer finisher (LH)
19. Seat belt buckle	20. Seat cushion inner finisher (LH) (rear)	21. Seat cushion inner finisher (LH) (front)
22. Rear slide finisher	23. Seat harness	24. Seat hinge cover
25. Seatback assembly	26. Headrest holder (locked)	27. Headrest holder (free)
28. Seatback board	A. Rear hinge cover clips	B. Seatback board clips
C. Refer to installation		

Seatback

INFOID:0000000011219151

DISASSEMBLY

WARNING:

Do not leave any objects (screwdrivers, tools, etc.) on the seat during seatback repair. It can lead to personal injury if the side air bag module should accidentally deploy.

CAUTION:

- **Before servicing, turn the ignition switch OFF, disconnect both battery terminals then wait at least three minutes.**
- **Always work from the side or back of the seatback, do not work in front of seat.**
- **Do not use air tools or electric tools for servicing the seat assembly.**
- **Do not insert any objects into the side air bag module.**
- **Do not attempt to disassemble the side air bag module.**
- **Do not expose the side air bag module to temperatures exceeding 90°C (194°F).**
- **Do not expose the side air bag module to any oil, grease, detergent or water.**
- **During disassembly, do not damage the seatback board, connectors, retainers, clips, module harness or the side air bag module.**

NOTE:

- If the vehicle has been involved in a collision and the side air bag module has deployed, the seatback must be replaced.
- Front seat (LH) shown; front seat (RH) similar.

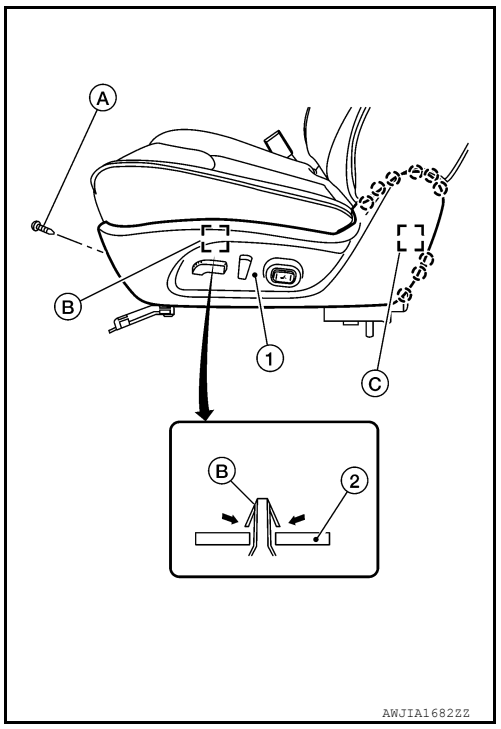
1. Remove front seat. Refer to SE-128, "Removal and Installation".
2. Remove the seat hinge cover. Refer to SE-130, "Seat Hinge Cover".
3. Press the headrest holder lock button and lift headrest up to remove from the seat back assembly.
4. Remove the seat cushion outer finisher (LH) (1).

a. For power seat:

i. Remove screw (A).

ii. Release metal clip (B) from the seat frame assembly (2), as shown.
: Metal clip

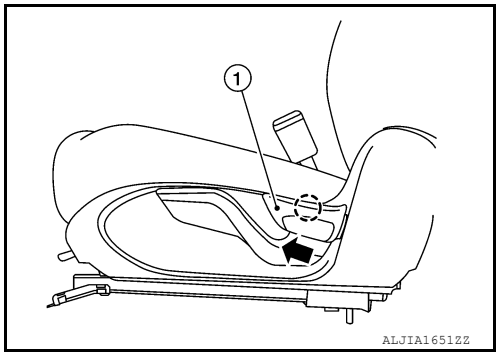
iii. Release pawls and metal clip (C), then remove.
: Pawl
: Metal clip



iv. Disconnect the harness connectors from the power seat switch and the lumbar support switch (if equipped).

b. For manual seat:

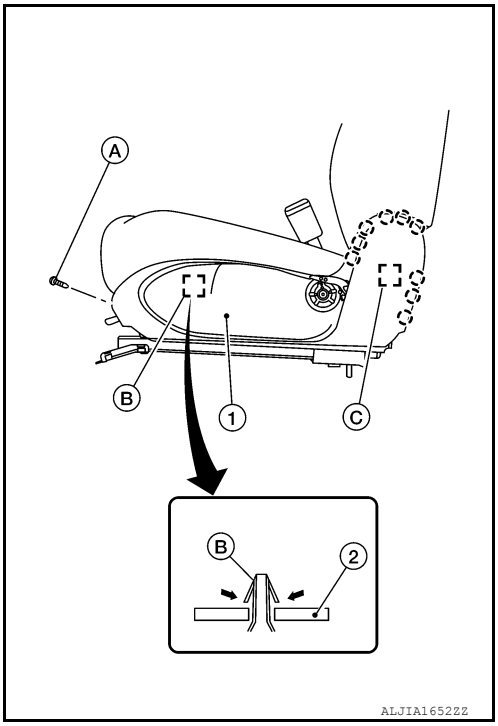
i. Release pawl and remove recline lever (1) as shown (⬅).
: Pawl



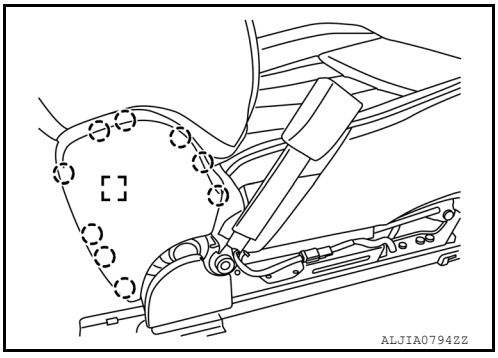
ii. Remove screws and lift lever.

iii. Release metal clip (B) from the seat frame assembly (1), as shown.
: Metal clip

iv. Release pawls and metal clip (C), then remove.
: Pawl
: Metal clip



5. Release pawls and metal clip, and remove the seat cushion outer finisher (RH).
: Pawl
: Metal clip



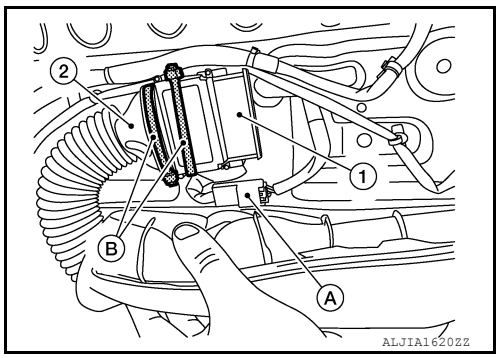
6. Unclip the side air bag module harness from the seat frame assembly.
NOTE:
Take note of harness routing and attachment location for correct installation.

7. Disconnect the harness connector from the lumbar support motor (if equipped) and unclip the harness from the seatback assembly.
NOTE:
Take note of harness routing and attachment location for correct installation.

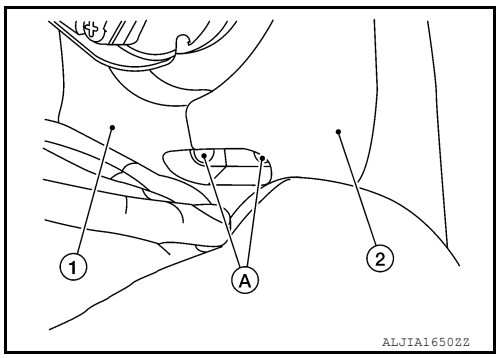
8. Disconnect the harness connector for the seatback heater (if equipped).
NOTE:
Take note of harness routing and attachment location for correct installation.

9. Disconnect the harness connector from the seatback thermal electric device (if equipped) and unclip the harness from the seatback assembly.
NOTE:
Take note of harness routing and attachment location for correct installation.

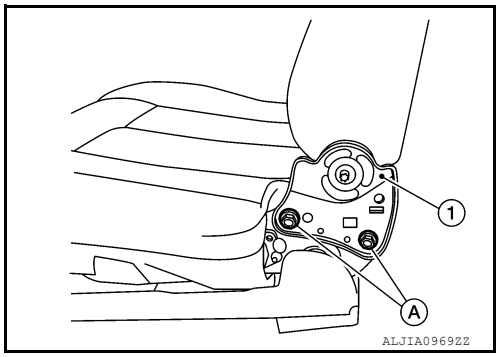
10. Reposition seatback pad, then disconnect the harness connector (A) from the seatback thermal electric device (1).
11. Remove the tie straps (B) and seatback thermal electric device (1) from the upper blower duct (2) and seatback frame.



12. Reposition seat cushion assembly and remove screws (A), then remove the seat cushion inner finisher (LH/RH) (front) (1) and seat cushion inner finisher (LH/RH) (rear) (2).

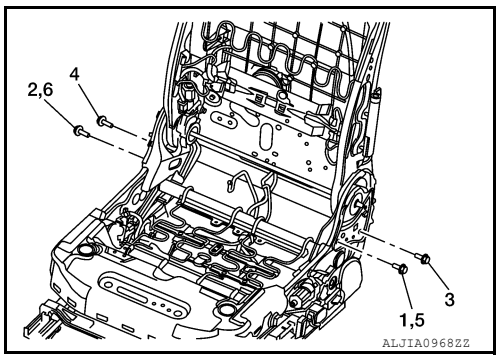


13. Remove bolts (A) on both sides of the seatback assembly (1).



ASSEMBLY

- Install all seatback assembly bolts and tighten evenly in the order shown.
- Tighten the seatback assembly bolts to specification. Refer to SE-150, "Exploded View".



CAUTION:

- **Always route side air bag module harness in original location. Replace any deformed or damaged clips with same type and color. Always install clips in the original location in the harness.**
- **After work is completed, check that no system malfunction is detected causing the air bag warning lamp to illuminate.**
- **If a malfunction is detected by the air bag warning lamp after repair or replacement of the malfunction parts, perform the SRS final check. Refer to SRC-17, "SRS Final Check".**

Seat Cushion

INFOID:0000000011219152

DISASSEMBLY

WARNING:

Do not leave any objects (screwdrivers, tools, etc.) on the seat during seat cushion repair. It can lead to personal injury if the side air bag module should accidentally deploy.

CAUTION:

- **Before servicing, turn the ignition switch OFF, disconnect both battery terminals and wait at least three minutes.**
- **Always work from the side or back of the seatback assembly, do not work in front of seat.**
- **Do not use air tools or electric tools for servicing the seat assembly.**

NOTE:

Front seat (LH) shown; front seat (RH) similar.

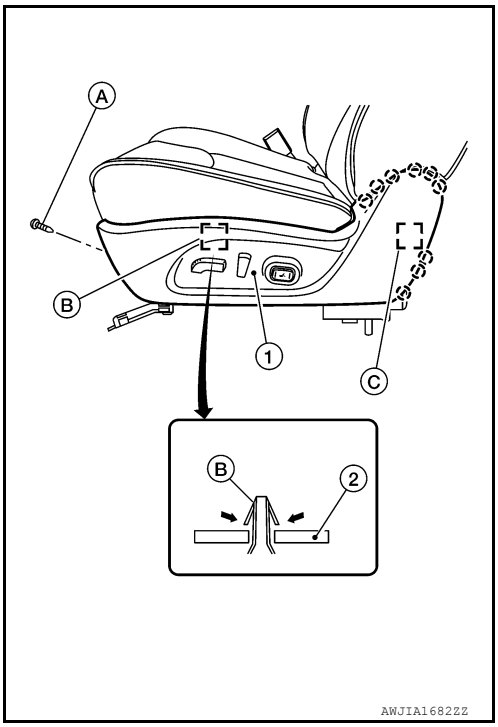
1. Remove the front seat. Refer to SE-128, "Removal and Installation".
2. Remove the seat cushion outer finisher (LH) (1).

a. For power seat:

i. Remove screw (A).

ii. Release metal clip (B) from the seat frame assembly (2), as shown.
: Metal clip

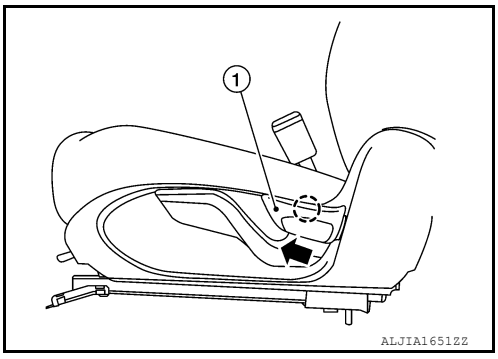
iii. Release pawls and metal clip (C), then remove.
: Pawl
: Metal clip



iv. Disconnect the harness connectors from the power seat switch and the lumbar support switch (if equipped).

b. For manual seat:

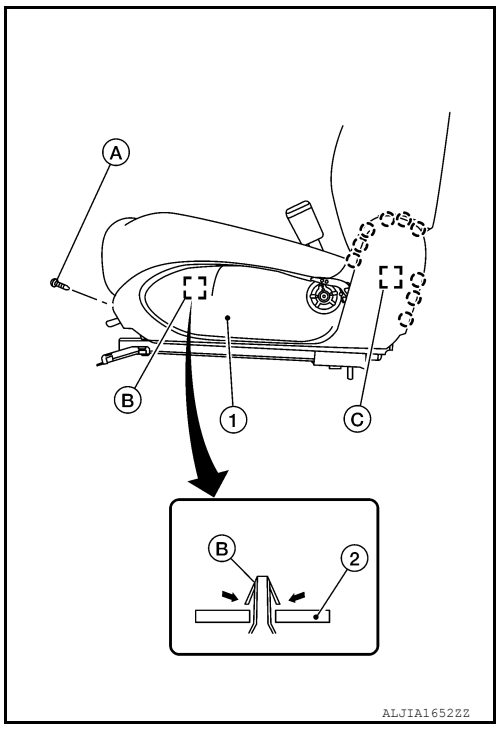
i. Release pawl and remove recline lever (1) as shown (⬅).
: Pawl



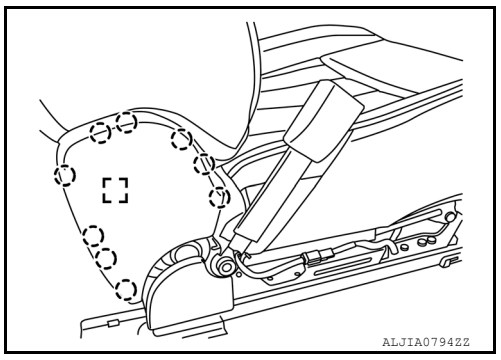
ii. Remove screws and lift lever.

iii. Release metal clip (B) from the seat frame assembly (1), as shown.
: Metal clip

iv. Release pawls and metal clip (C), then remove.
: Pawl
: Metal clip



3. Release pawls and metal clip and remove the seat cushion outer finisher (RH).
: Pawl
: Metal clip

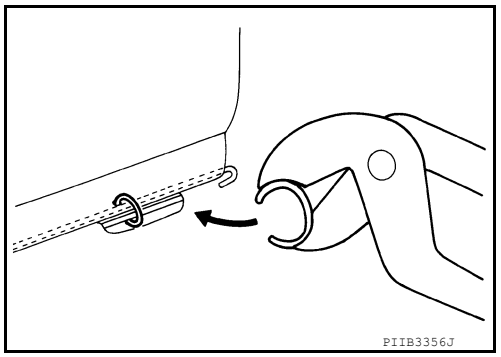


4. Release the two rear hinge cover J-clips (A) from the lower rear cover.
5. Release the five seat cushion J-clips holding the seat cushion trim to the seat frame assembly.
6. Remove the four screws and the lower rear cover.
7. Remove the seat cushion trim and seat cushion pad as an assembly from the seat frame assembly.
8. Remove the hog rings and separate the seat cushion trim and seat cushion pad.
NOTE:
Remove all pieces of hog rings and discard them.

ASSEMBLY

Assembly is in the reverse order of disassembly.

- Install new hog rings on the seat cushion trim in original positions.
- Use only one hog ring in each designated location.
- Make sure hog rings are correctly fastened around both the seat cushion trim and seat cushion pad wires.
- Use NISSAN standard hog rings and tools to assemble.
- Make sure hook fastener is pressed into place after seat cushion trim is assembled.
- Smooth out all wrinkles during assembly.



CAUTION:

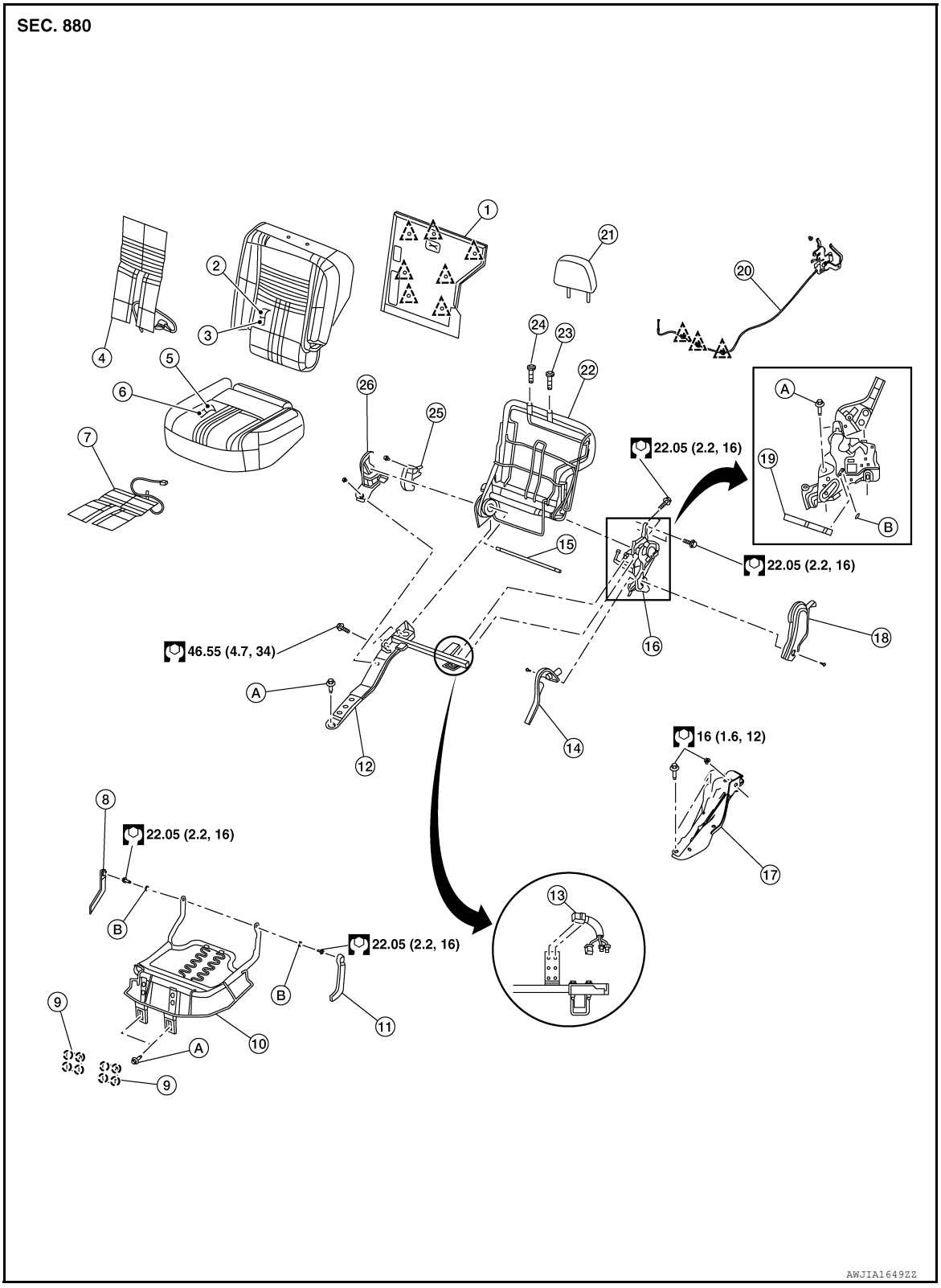
- **Always route side air bag module harness in original location. Replace any deformed or damaged clips with same type and color. Always install clips in the original location in the harness.**
- **After work is completed, check that no system malfunction is detected causing the air bag warning lamp to illuminate.**
- **If a malfunction is detected by the air bag warning lamp after repair or replacement of the malfunction parts, perform the SRS final check. Refer to SRC-17, "SRS Final Check".**

SECOND ROW SEAT

Exploded View

INFOID:0000000011219153

LH SEAT

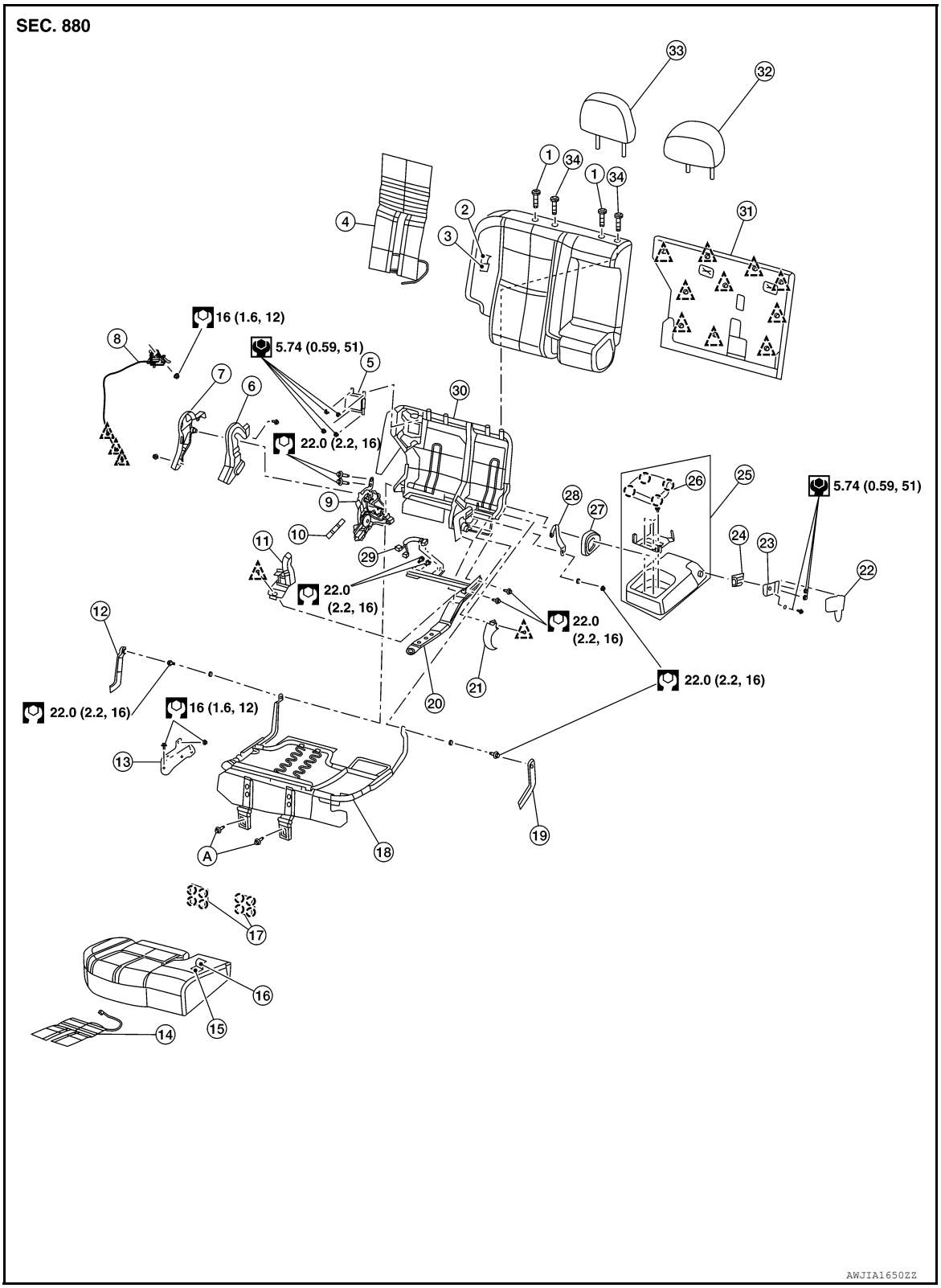


1. Seatback board
2. Seatback trim
3. Seatback pad
4. Seatback heater unit (if equipped)
5. Seat cushion trim
6. Seat cushion pad

7. Seat Cushion heater unit (if equipped)	8. Seat cushion link cover (RH)	9. Seat cushion hinge cover
10 Seat cushion frame	11. Seat cushion link cover (LH)	12. LATCH bracket
13. Seat harness (LH)	14. Reclining device inner cover (LH)	15. Reclining device connecting rod
16. Reclining device assembly	17. Seat bracket	18. Reclining device outer cover (LH)
19. Pull strap	20. Recline release cable assembly	21. Headrest
22. Seatback frame	23. Headrest holder (locked)	24. Headrest holder (free)
25. Reclining device inner cover (RH)	26. Reclining device outer cover (RH)	A. Refer to INSTALLATION
B. Grommet	Clip	Pawl

RH SEAT

SEC. 880



1. Headrest holder (free)	2. Seatback trim	3. Seatback pad
4. Seatback heater unit	5. Dampener	6. Reclining device inner finisher (RH)
7. Reclining device outer finisher (RH)	8. Recline release cable assembly	9. Reclining device assembly
10. Pull strap	11. Reclining device front cover	12. Seat cushion link cover (RH)

13. Seat bracket
14. Seat cushion heater unit (if equipped)
15. Seat cushion pad
16. Seat cushion trim
17. Seat cushion hinge cover
18. Seat cushion frame
19. LATCH bracket
20. Seat cushion link cover (LH)
21. Reclining device inner finisher (RH)
22. Armrest bracket outer finisher (LH)
23. Armrest outer bracket
24. Armrest bracket inner finisher (LH)
25. Armrest assembly
26. Cup holder
27. Armrest bracket finisher (RH)
28. Armrest inner bracket
29. Seat harness
30. Seatback frame
31. Seatback board
32. Headrest (center)
33. Headrest (RH)
34. Headrest holder (locked)
A. Refer to INSTALLATION
△ Clip
◌ Pawl

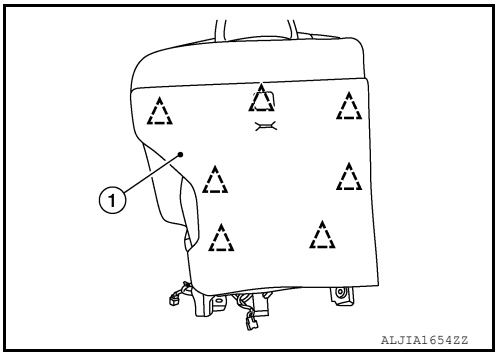
LH SEAT

LH SEAT : Seatback

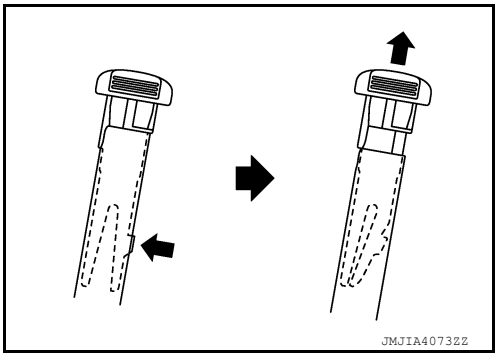
INFOID:0000000011219154

DISASSEMBLY

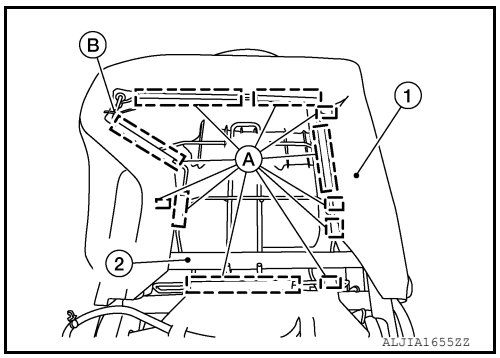
1. Remove the LH seat. Refer to SE-140, "Removal and Installation".
2. Remove the LH seat cushion. Refer to SE-143, "Seat Cushion".
3. Release clips and remove seatback board (1).
   △ : Clip



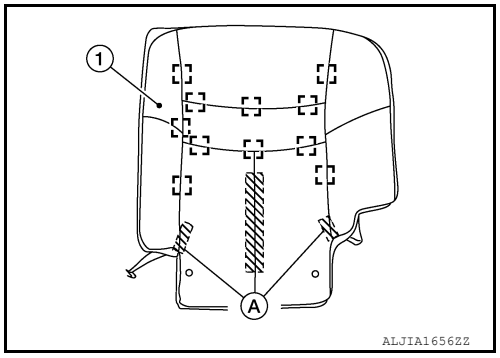
4. Release the seatback heater harness (if equipped) from all attachments and route through seatback trim.
   NOTE:
   Take note of harness routing and attachment locations for correct installation.
5. Remove the headrest (LH).
6. Reach up behind the seatback pad, release the headrest holder locks as shown and remove the headrest holders.
   CAUTION:
   Before removing/installing headrest holder, check its orientation (front/rear and right/left).



7. Remove the seatback pad and seatback trim (1).
a. Release the J-clip retainer (A) at the rear lower edge of seatback.
b. Remove the tie strap (B) from the seat frame assembly.
c. Remove the seatback pad and seatback trim as an assembly from the seat frame assembly (2).

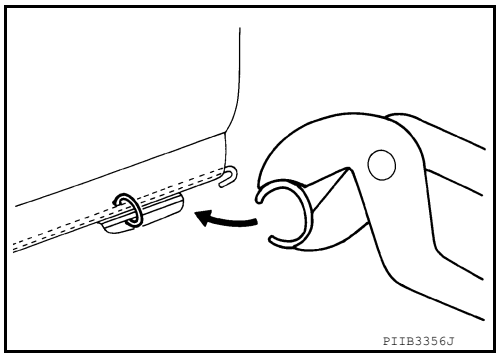


8. Remove screw and reclining device outer cover (LH) (if necessary).
9. Remove screw, then release clip and pawls and remove reclining device outer cover (RH) (if necessary).
10. Remove screw, then release clip and remove recline device inner cover (RH) from seat frame assembly (if necessary).
11. Separate the seatback trim (1) from the seatback pad.
a. Pull seatback trim upward in front to release hook and loop fasteners (A).
b. Remove hog rings and separate the seatback trim from the seatback pad.
NOTE:
Remove all pieces of hog rings and discard them.
: Hog ring



ASSEMBLY

Assembly is in the reverse order of disassembly.
- Install new hog rings on the seatback trim in original positions.
- Use only one hog ring in each designated location.
- Make sure hog rings are correctly fastened around both the seatback trim and seatback pad wires.
- Use NISSAN standard hog rings and tools to assemble.
- Make sure hook and loop fastener is pressed into place after seatback trim is assembled.
- Smooth out all wrinkles during assembly.

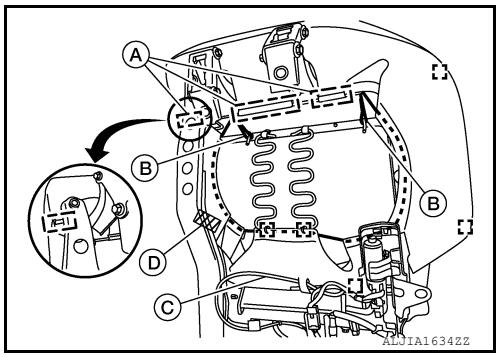


LH SEAT : Seat Cushion

INFOID:0000000011219155

DISASSEMBLY

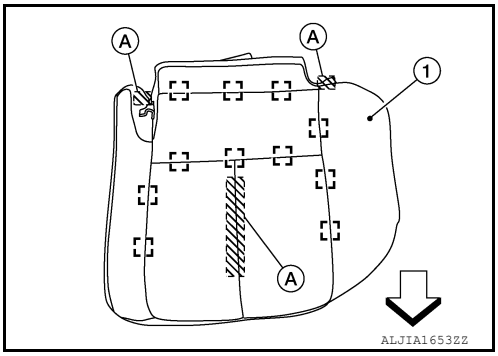
1. Remove the LH seat cushion. Refer to SE-143, "Seat Cushion".
2. Release J-hooks (A), then hook and loop fastener (D)
3. Release string (B) from seat cushion frame and route seat cushion heater harness through seat cushion trim.
4. Remove hog rings using a using a suitable tool and remove seat cushion pad and trim as an assembly.
: Hog ring
NOTE:
Remove all pieces of hog rings and discard them.



5. Separate the seat cushion trim (1) from the seat cushion pad.

a. Pull seat cushion trim up at front center to release hook and loop fasteners (A).
⇦: Front

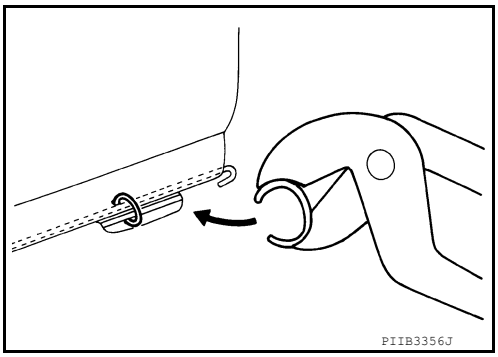
b. Remove hog rings and separate the seat cushion trim from the seat cushion pad.
⬚: Hog ring
NOTE:
Remove all pieces of hog rings and discard them.



ASSEMBLY

Assembly is in the reverse order of disassembly.

- Install new hog rings on the seat cushion trim in original positions.
- Use only one hog ring in each designated location.
- Make sure hog rings are correctly fastened around both the seat cushion trim and seat cushion pad wires.
- Use NISSAN standard hog rings and tools to assemble.
- Make sure hook and loop fastener is pressed into place after seat cushion trim is assembled.
- Smooth out all wrinkles during assembly.



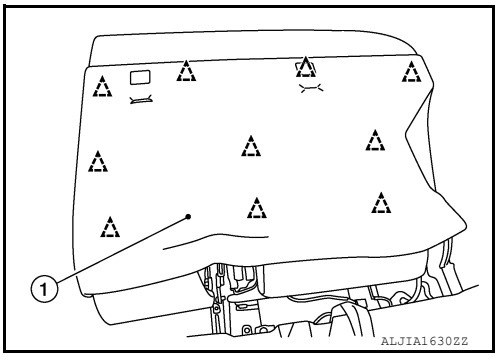
RH SEAT

RH SEAT : Seatback

INFOID:0000000011219156

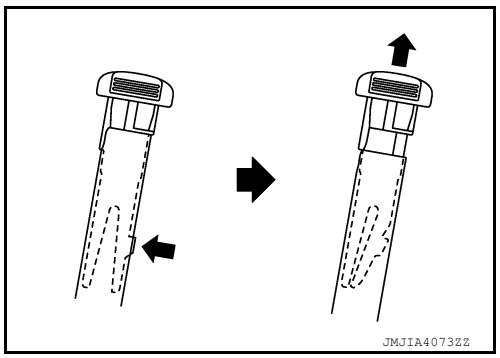
DISASSEMBLY

1. Remove RH seat. Refer to SE-140, "Removal and Installation".
2. Remove RH seat cushion. Refer to SE-143, "Seat Cushion".
3. Remove armrest assembly. Refer to SE-142, "Armrest Assembly".
4. Release clips, and remove seatback board (1).
△: Clip

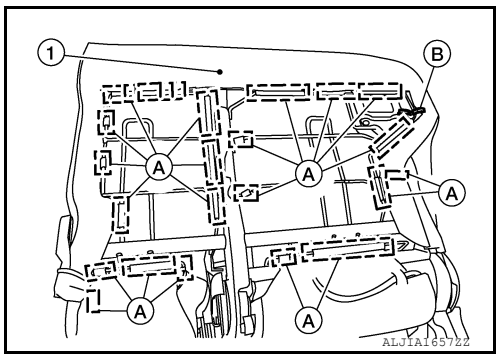


5. Release the seatback heater harness (if equipped) from all attachments and route through seatback trim.
NOTE:
Take note of harness routing and attachment locations for correct installation.
6. Remove the headrests (RH/center).

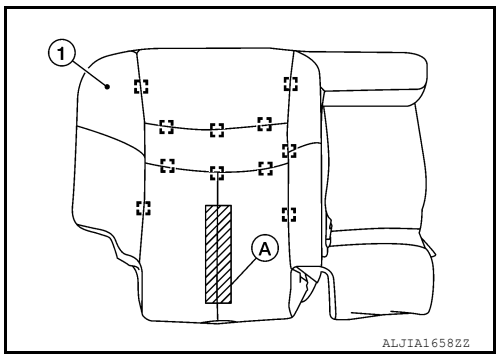
7. Reach up behind the seatback pad, release the headrest holder s as shown and remove the headrest holders.
CAUTION:
Before removing/installing headrest holder, check its orientation (front/rear and right/left).



8. Remove the seatback pad and seatback trim (1).
a. Remove the tie strap (B) from the seat frame assembly.
b. Release retainer strips (A) from the seat frame assembly.
c. Remove the seatback pad and seatback trim as an assembly from the seat frame assembly.

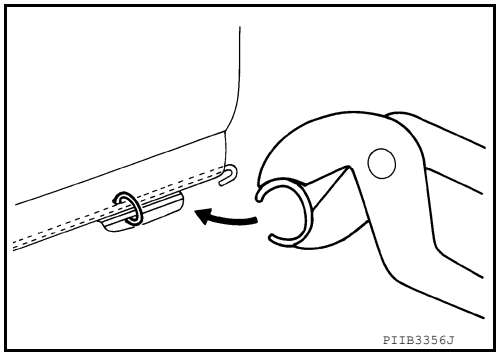


9. Remove screw and reclining device outer cover (LH) (if necessary).
10. Remove screw, then release clip and pawls and remove reclining device outer cover (RH) (if necessary).
11. Remove screw, then release clip and remove recline device inner cover (RH) from seat frame assembly (if necessary).
12. Separate the seatback trim (1) from the seatback pad.
a. Pull seatback trim upward to release hook and loop fasteners (A).
b. Remove hog rings and separate the seatback trim from the seatback pad.
: Hog ring
NOTE:
Remove all pieces of hog rings and discard them.



ASSEMBLY

Assembly is in the reverse order of disassembly.
- Install new hog rings on the seatback trim in original positions.
- Use only one hog ring in each designated location.
- Make sure hog rings are correctly fastened around both the seatback trim and seatback pad wires.
- Use NISSAN standard hog rings and tools to assemble.
- Make sure hook and loop fastener is pressed into place after seatback trim is assembled.
- Smooth out all wrinkles during assembly.



RH SEAT : Seat Cushion

INFOID:0000000011219157

DISASSEMBLY

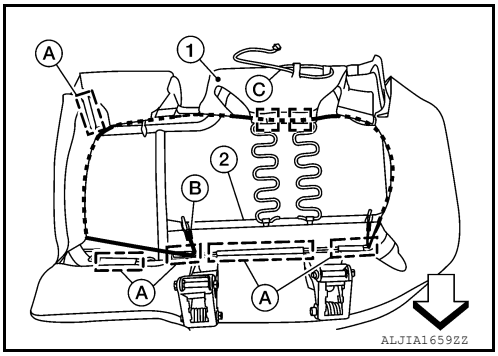
1. Remove RH seat cushion. Refer to SE-143, "Seat Cushion".

2. Remove the seat cushion pad and seat cushion trim (1).

a. Unhook string from seat cushion frame (2), then release the J-clip retainer (A).

b. Remove hog rings, then remove the seat cushion pad and seat cushion trim (1) as an assembly from the seat cushion frame (2).
⬚: Hog ring
NOTE:
Remove all pieces of hog rings and discard them.

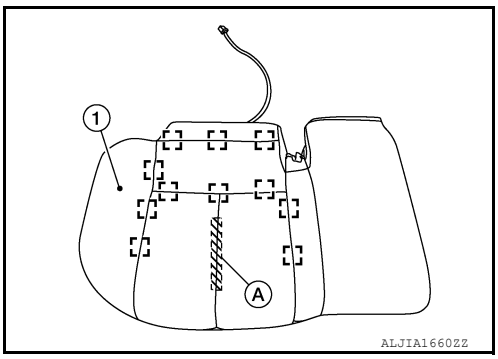
c. Route the seat cushion heater harness (C) (if equipped) through the opening in the seat cushion trim.
⇦: Front



3. Separate the seat cushion trim (1) from the seat cushion pad.

a. Pull seat cushion trim up at front center to release hook and loop fasteners (A).
⇦: Front

b. Remove hog rings and separate the seat cushion trim from the seat cushion pad.
⬚: Hog ring
⇦: Front
NOTE:
Remove all pieces of hog rings and discard them.



ASSEMBLY

Assembly is in the reverse order of disassembly.

- Install new hog rings on the seat cushion trim in original positions.
- Use only one hog ring in each designated location.
- Make sure hog rings are correctly fastened around both the seat cushion trim and seat cushion pad wires.
- Use NISSAN standard hog rings and tools to assemble.
- Make sure hook and loop fastener is pressed into place after seat cushion trim is assembled.
- Smooth out all wrinkles during assembly.