SECTION SE
SEAT

CONTENTS

PRECAUTION

PRECAUTIONS

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

INFOID:0000000009652908

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

WARNING:

Always observe the following items for preventing accidental activation.

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

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

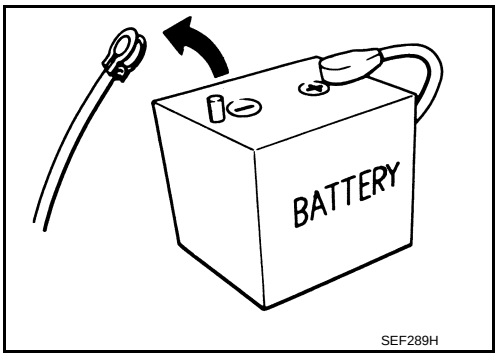
WARNING:

Always observe the following items for preventing accidental activation.

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

Precautions for Removing Battery Terminal

INFOID:0000000009979163



- When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.
  NOTE:
  ECU may be active for several tens of seconds after the ignition switch is turned OFF. If the battery terminal is removed before ECU stops, then a DTC detection error or ECU data corruption may occur.
- For vehicles with the 2-batteries, be sure to connect the main battery and the sub battery before turning ON the ignition switch.
  NOTE:
  If the ignition switch is turned ON with any one of the terminals of main battery and sub battery disconnected, then DTC may be detected.
- After installing the 12V battery, always check "Self Diagnosis Result" of all ECUs and erase DTC.
  NOTE:
  The removal of 12V battery may cause a DTC detection error.

Service Notice

INFOID:0000000009652909

- When removing or installing various parts, place a cloth or padding onto the vehicle body to prevent scratches.
- Handle trim, molding, instruments, grille, etc. carefully during removing or installing. Be careful not to oil or damage them.

- Apply sealing compound where necessary when installing parts.
- When applying sealing compound, be careful that the sealing compound never protrudes from parts.
- When replacing any metal parts (for example body outer panel, members, etc.), always take rust prevention measures.

Precaution for Work

INFOID:0000000009652910

- When removing or disassembling each component, be careful not to damage or deform it. If a component may be subject to interference, always protect it with a shop cloth.
- When removing (disengaging) components with a screwdriver or similar tool, always wrap the component with a shop cloth or vinyl tape to protect it.
- Protect the removed parts with a shop cloth and keep them.
- Replace a deformed or damaged clip.
- If a part is specified as a non-reusable part, always replace it with new one.
- Always tighten bolts and nuts securely to the specified torque.
- After reinstallation is complete, always check that each part works normally.
- Follow the steps below to clean components.

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

- Never use organic solvent such as thinner, benzene, alcohol, and gasoline.
- For genuine leather seats, and use a genuine leather seat cleaner.

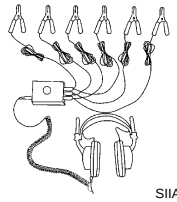
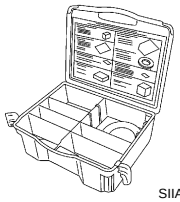
PREPARATION

PREPARATION

Special Service Tool

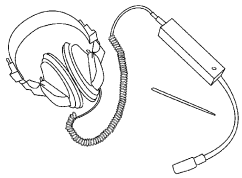
INFOID:0000000009652911

The actual shapes of Kent-Moore tools may differ from those of special service tools illustrated here.

Tool number (Kent-Moore No.) Tool name	Description
(J39570) Chassis ear  SIIA0993E	Locates the noise
(J50397) NISSAN Squeak and Rattle Kit  SIIA0994E	Repairs the cause of noise

Commercial Service Tool

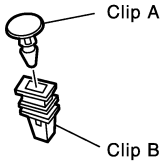
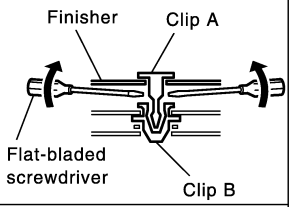
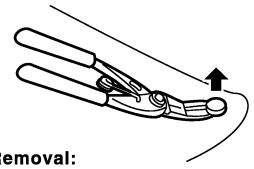
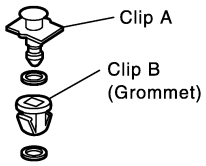
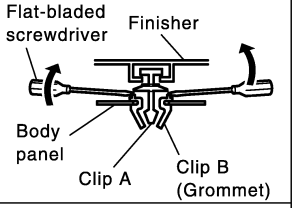
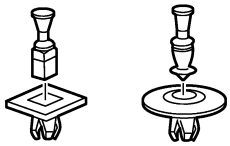
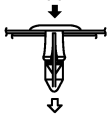
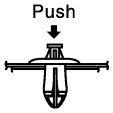
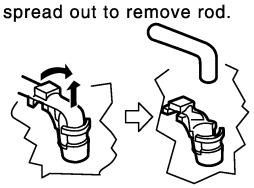
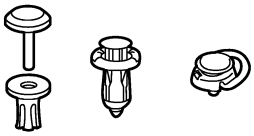
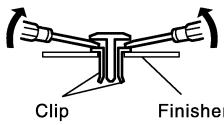
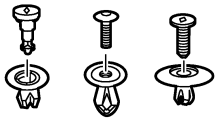
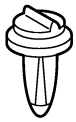
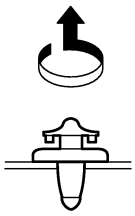
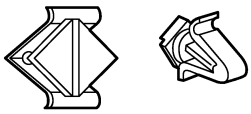
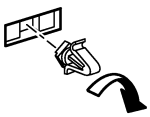
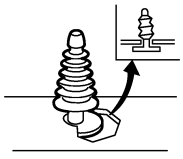
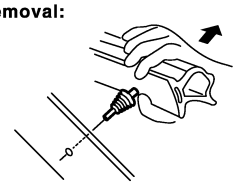
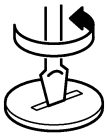
INFOID:0000000009652912

Tool name	Description
Engine ear  SIIA0995E	Locates the noise

CLIP LIST

Clip List

INFOID:0000000009652913

Shapes	Removal & Installation	Shapes	Removal & Installation
	**Removal:** Remove by bending up with flat-bladed screwdrivers or clip remover. 		**Removal:** 
	 **Removal:** Remove with a clip remover.		**Removal:** 
	**Removal:** Push center pin to catching position. (Do not remove center pin by hitting it.)  **Installation:** 		**Removal:** Holder portion of clip must be spread out to remove rod. 
	**Removal:** Remove by bending up with flat-bladed screwdrivers or clip remover. 		**Removal:** 1. Screw out with a Phillips screwdriver. 2. Remove female portion with flat-bladed screwdriver. 
	**Removal:** 		**Removal:**  **Removal:**  **Installation:** 
	**Removal:** 		**Removal:** 

JMJIA3734GB

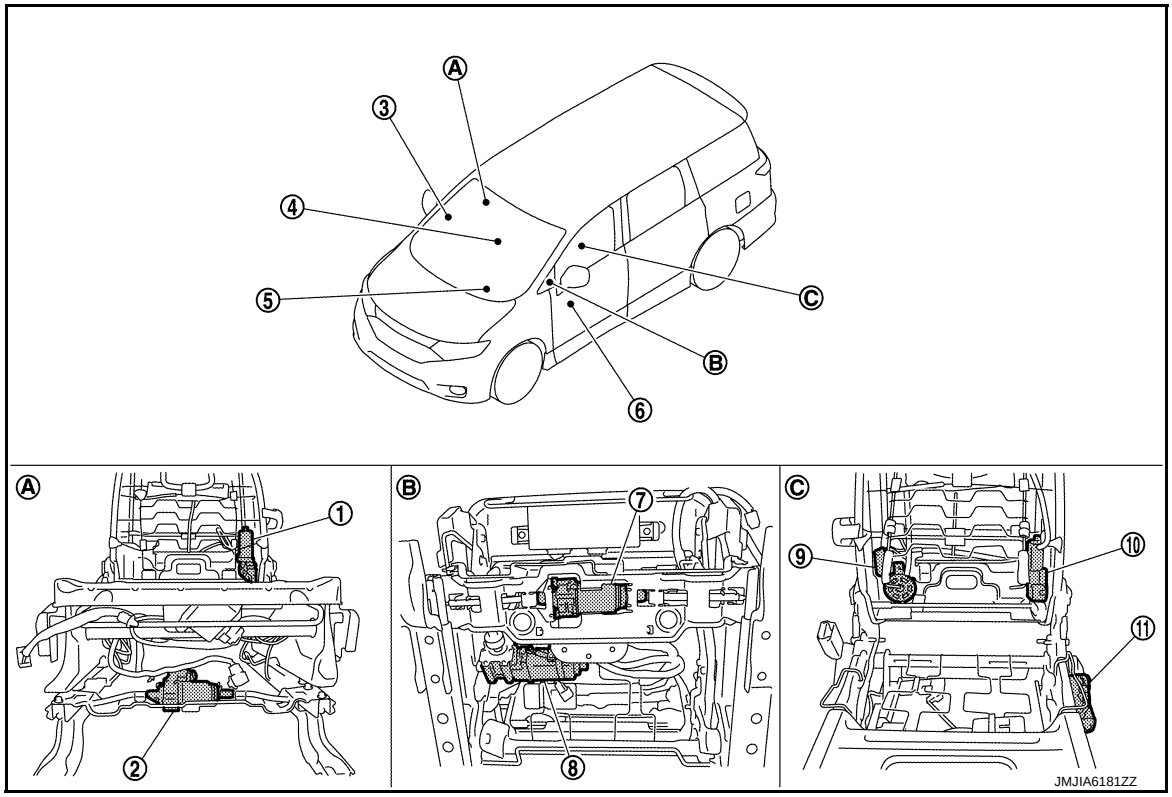
SYSTEM DESCRIPTION

COMPONENT PARTS

POWER SEAT SYSTEM

POWER SEAT SYSTEM : Component Parts Location

INFOID:0000000009652914



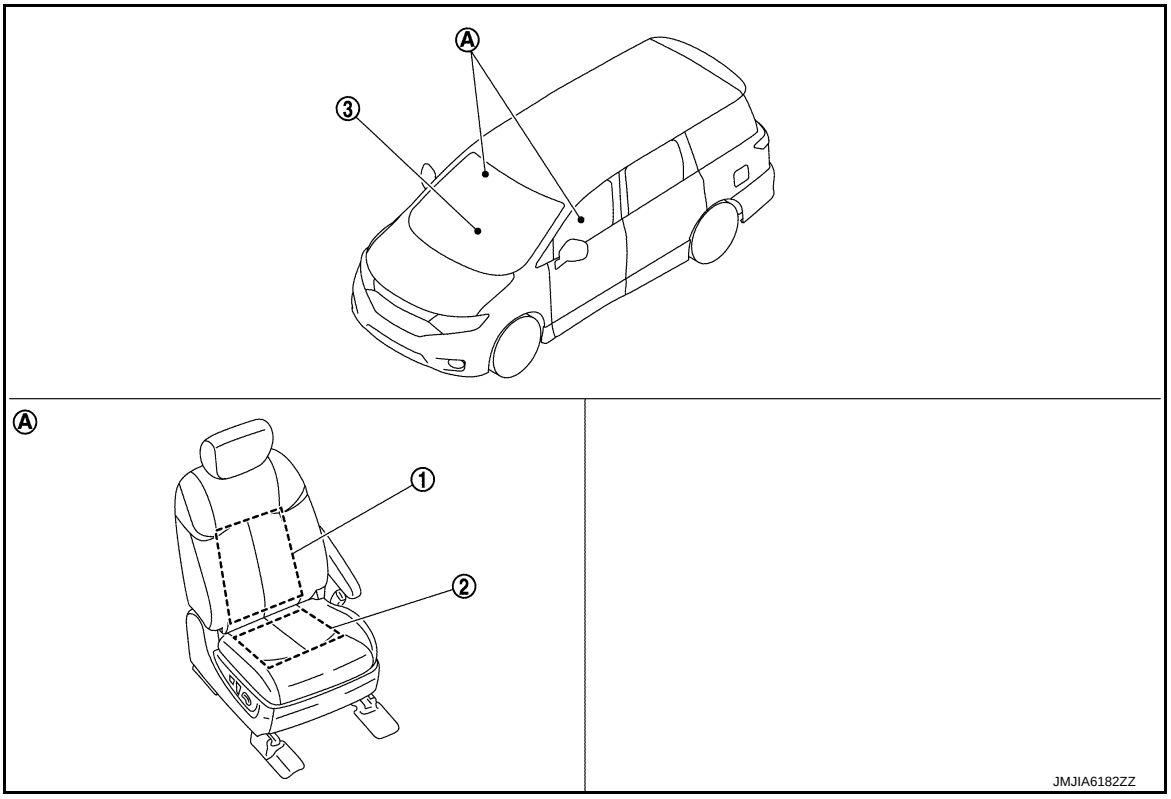
A. View with seatback pad removed (passenger side).
B. Back side of seat cushion.
C. View with seatback pad removed (driver side).

No.	Item	Function
1.	Reclining motor (passenger side)	Refer to SE-11, "Reclining Motor".
2.	Sliding motor (passenger side)	Refer to SE-11, "Sliding Motor".
3.	Power seat switch (passenger side)	Refer to SE-11, "Power Seat Switch".
4.	Lumbar support switch	Refer to SE-11, "Lumbar Support Switch".
5.	BCM	Supplies at all times the power received from battery to power seat switch. Refer to BCS-4, "BODY CONTROL SYSTEM : Component Parts Location".
6.	Power seat switch (driver side)	Refer to SE-11, "Power Seat Switch".
7.	Sliding motor (driver side)	Refer to SE-11, "Sliding Motor".
8.	Lifting motor (front)	Refer to SE-11, "Lifting Motor".
9.	Lumbar support motor	Refer to SE-11, "Lumbar Support Motor".
10.	Reclining motor	Refer to SE-11, "Reclining Motor".
11.	Lifting motor (front)	Refer to SE-11, "Lifting Motor".

HEATED SEAT SYSTEM

HEATED SEAT SYSTEM : Component Parts Location

INFOID:0000000009652915



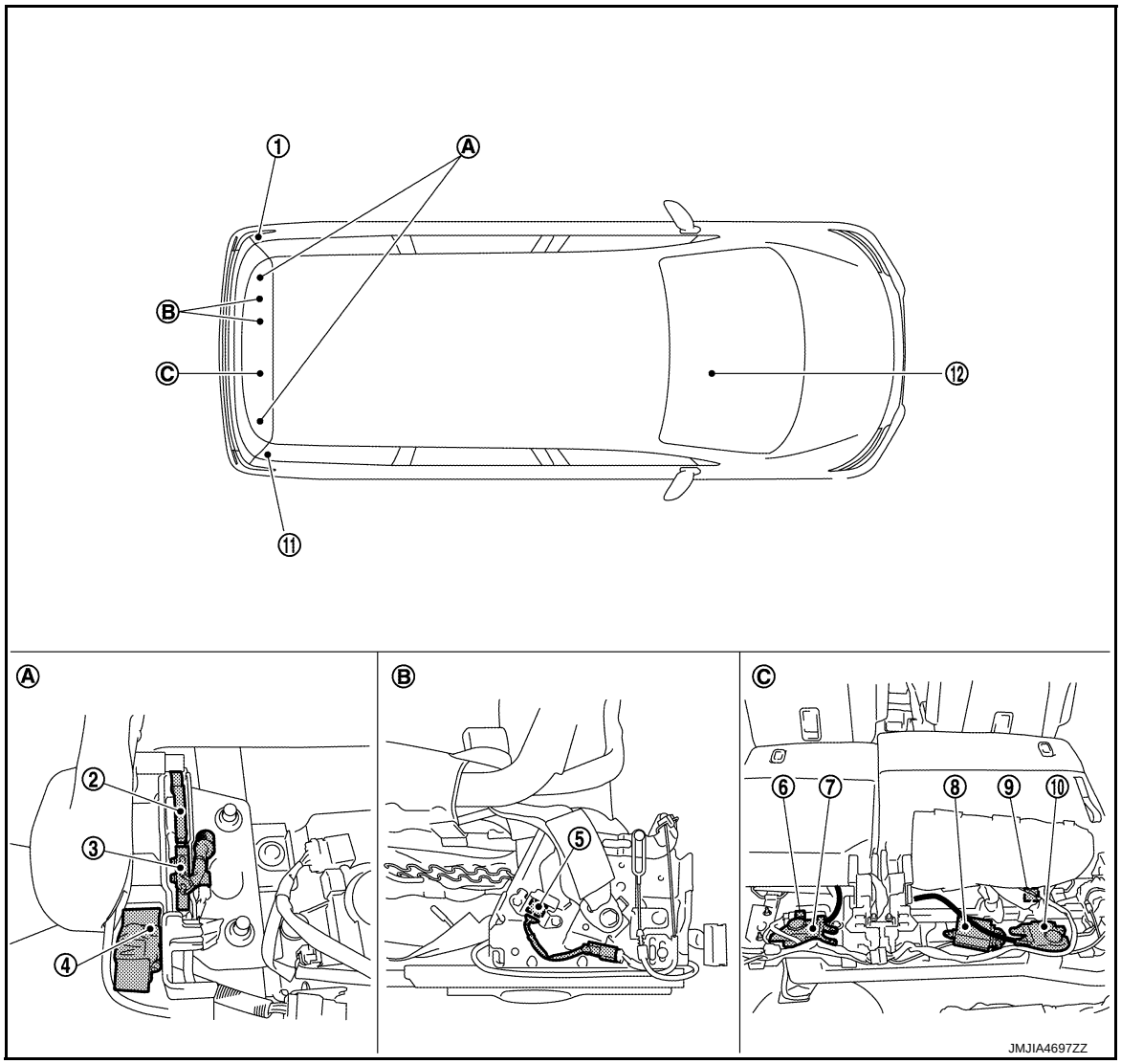
A. Front seat

No.	Item	Function
1.	Seat back heater	Refer to SE-11, "Seatback Heater".
2.	Seat cushion heater	Refer to SE-11, "Seat Cushion Heater".
3.	Heated seat switch	Refer to SE-11, "Heated Seat Switch".

SEATBACK POWER FOLDING/RETURN SYSTEM

SEATBACK POWER FOLDING/RETURN SYSTEM : Component Parts Location

INFOID:0000000009652916



A. Reclining device assembly (outside) B. Reclining device assembly (Inside) C. Under the third seat

No.	Item	Function
1.	Third seat fold switch (LH)	Refer to SE-11, "Third Seat Fold Switch".
2.	Sector gear	Refer to SE-11, "Sector Gear".
3.	Sector gear position limit switch	Refer to SE-11, "Sector Gear Position Limit Switch".
4.	Power return motor assembly	Refer to SE-11, "Power Return Motor Assembly".
5.	Seatback angle limit switch	Refer to SE-11, "Seatback Angle Limit Switch".
6.	Seatback lock release actuator relay (LH)	Refer to SE-11, "Seatback Lock Release Actuator Relay".
7.	Seatback lock release actuator (LH)	Refer to SE-11, "Seatback Lock Release Actuator".
8.	Seatback power return control unit	Refer to SE-12, "Seatback Power Return Control Unit".
9.	Seatback lock release actuator relay (RH)	Refer to SE-11, "Seatback Lock Release Actuator Relay".
10.	Seatback lock release actuator (RH)	Refer to SE-11, "Seatback Lock Release Actuator".
11.	Third seat fold switch (RH)	Refer to SE-11, "Third Seat Fold Switch".
12.	Combination meter	Transmit the vehicle speed signal. Refer to MWI-7, "METER SYSTEM : Combination Meter".

Reclining Motor

INFOID:0000000009652917

With the power supplied from power seat switch, operates the forward and backward movement of seatback.

Sliding Motor

INFOID:0000000009652918

With the power supplied from power seat switch, operates the forward and backward slide of seat.

Power Seat Switch

INFOID:0000000009652919

Built-in reclining switch and sliding switch, controls the power supplied to each motor.

Lumbar Support Switch

INFOID:0000000009652920

Controls the power supplied to lumbar support motor.

Lifting Motor

INFOID:0000000009652921

With the power supplied from power seat switch, operates the up and down movement of seat cushion.

Lumbar Support Motor

INFOID:0000000009652922

With the power supplied from lumbar support switch, operates the forward and backward movement of seat-back support device.

Seatback Heater

INFOID:0000000009652923

Built-in seatback, the heater operates with the power supplied by heater seat switch.

Seat Cushion Heater

INFOID:0000000009652924

Built-in seat cushion, the heater operates with the power supplied by heater seat switch.

Heated Seat Switch

INFOID:0000000009652925

Supplies power supply to each heated seat and operates switching of HI/LO of heated seat and ON/OFF of the system.

Third Seat Fold Switch

INFOID:0000000009652926

Supplies power supply to seatback lock release actuator relay and operates reclining and folding function of third seat.

Sector Gear

INFOID:0000000009652927

Built-in reclining switch, sliding switch and lifting switch, controls the power supplied to each motor.

Sector Gear Position Limit Switch

INFOID:0000000009652928

With the power supplied from power seat switch, operates the forward and backward movement of seatback.

Power Return Motor Assembly

INFOID:0000000009652929

With the power supplied from power seat switch, operates the forward and backward slide of seat.

Seatback Angle Limit Switch

INFOID:0000000009652930

With the power supplied from power seat switch, operates the up and down movement of seat cushion.

Seatback Lock Release Actuator Relay

INFOID:0000000009652931

Supplies battery power supply to motor when receiving power supply from third seat fold down switch.

Seatback Lock Release Actuator

INFOID:0000000009652932

Releases lock when receiving battery power supply from seatback lock release actuator relay.

Seatback Power Return Control Unit

INFOID:0000000009652933

Control the seatback power return system.

SYSTEM

POWER SEAT SYSTEM

POWER SEAT SYSTEM : System Description

INFOID:0000000009652934

Power seat switch 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

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:0000000009652935

Heated seat is a system that operates when ignition switch is in ON position.

HEATER OPERATION

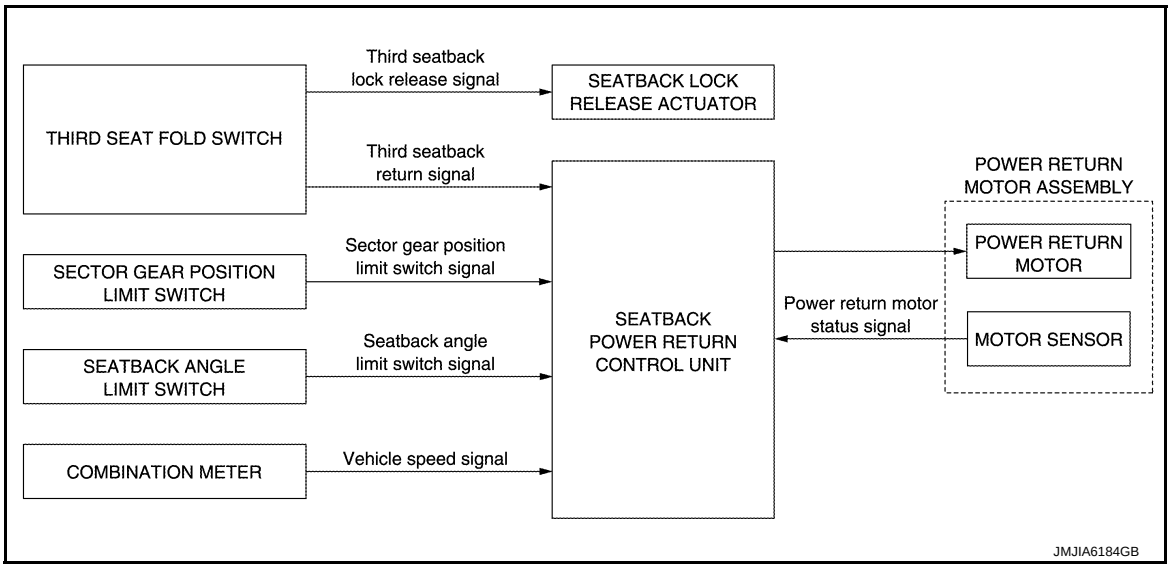
- While operating the heated seat switch, seat cushion heater and seat back heater operate.
- Temperature of seat can be adjusted by operating on heated seat switch.

SEATBACK POWER FOLDING/RETURN SYSTEM

SEATBACK POWER FOLDING/RETURN SYSTEM : System Description

INFOID:0000000009652936

SYSTEM DIAGRAM



DESCRIPTION

Seatback power folding/return system (electric return type) consists of seatback power return control unit (buzzer is integrated), third seat fold switch, power return motor (motor sensor is integrated), sector gear position limit switch, seatback angle limit switch, and sector gear that transfers the movement of power return

motor. The seatback LH and RH of third seat can be folded up or down independently according to the operation of third seat fold switch in luggage room.

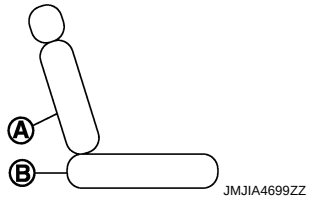
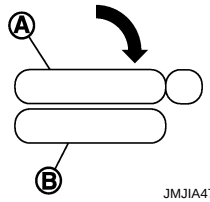
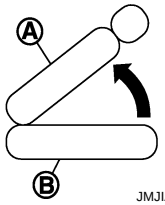
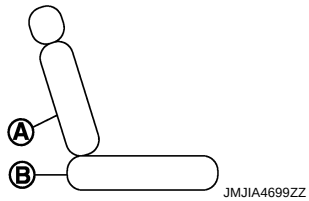
Operation Condition

Seatback power folding/return operation (electric type) starts when all of the following conditions are satisfied.

- Vehicle speed 2 km/h (1 MPH) or less
- Seatback angle limit switch is ON
- Battery voltage is normal

Seatback Power Fold/Return Operation

When third seat fold switch is operated, seatback power return control units checks whether or not the operation conditions are satisfied, and then controls the return operation of third seatback.
Status of each part is as described in the following table.

No.	Third seatback condition	Sector gear position	Sector gear position switch	Seatback angle limit switch
1	Return complete position  JMJIA4699ZZ A: Third seatback B: Seat cushion	Initial position	OFF	OFF
2	Fold down position  JMJIA4700ZZ A: Third seatback B: Seat cushion	Initial position	OFF	ON
3	Return operation  JMJIA4701ZZ A: Third seatback B: Seat cushion	Return incomplete position	OFF → ON	ON
4	Return complete position  JMJIA4699ZZ A: Third seatback B: Seat cushion	Return complete position	ON	OFF
5		Initial position	OFF	OFF

1. When third seatback is in folded up status (return complete position), sector gear is in the initialization position. Sector gear position limit switch and seatback angle limit switch are in the OFF position.
2. When third seat fold switch is pressed in the direction of folding down, seatback lock release actuator operates, winds wire of seatback lock assembly, and then releases seatback lock.
   When seatback lock is released, seatback folds down by repulsion of spring in seatback.

When third seatback folds down, seatback angle limit switch turns ON, and seatback power return control units judges that third seatback is in the folded down status (folding down position).

3. When third seat fold switch is pressed in the direction of folding up, seatback power return control unit supplies power supply to power return motor and sounds return operation start buzzer.
   Power return motor, which is supplied power from seatback power return control unit, rotates to the folding up direction, and operates third seat return operation via sector gear.
   When sector gear starts to rotate in the folding up direction, sector gear position limit switch tuns ON, and seatback power return control unit judges that sector gear is in a position other than the initial position.
4. When third seat folds up to the return complete position, seatback angle limit switch turns OFF, and seatback power return control unit sounds return completion buzzer and stops power return motor.
   When power return motor is stopped, after 0.2 seconds, seatback power return control unit rotates power return motor in the reverse direction so that sector gear returns to the initial position.
5. When sector gear returns to the initial position according to the reverse rotation of power return motor, sector gear position limit switch turns OFF and seatback power return control unit stops the reverse rotation of power return motor, and the return operation is complete.

NOTE:

- When third seat fold switch is released during return operation (sector gear position limit switch and seatback angle limit switch are in the ON position), seatback power return control unit detects third seat fold switch OFF signal, rotates power return motor in the reverse direction, and then returns third seatback to the folded down position.
  When third seat fold switch is pressed again during reverse operation, return operation restarts.
- When battery cable is disconnected from battery terminal while sector gear is in a position other than the initial position (sector gear position limit switch is in the ON position), and then when battery cable is connected again to battery terminal, sector gear returns to the initial position.

Anti-Pinch Function

When signal change from motor sensor is detected during third seatback return operation, due to foreign material trapping, seatback power return control unit sounds buzzer, stops power return motor, and rotates power return motor in the reverse direction after 0.2 seconds. Third seatback returns to the folded down position.

Sector Gear Reverse Starting Condition

Sector gear rotates in the reverse direction when any of the following conditions is satisfied.

- Third seatback return operation is complete (seatback angle limit switch: OFF)
- Third seat fold switch is released before return operation is complete
- Trapping is detected
- Lock status of power return motor is detected
- Third seatback return operation is not complete within 60 seconds
- Battery voltage malfunction is detected during return operation
- Battery voltage returns to normal after battery voltage malfunction is detected during return operation
- Sector gear position limit switch does not turn from OFF to ON within the specified number of times of motor pulse from the start of return operation

The reverse rotation operation stops when any of the following conditions is satisfied.

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

Consumption Electricity Control System

Seatback power return control unit controls electric power so that electric power consumption can be reduced according to the vehicle condition.

Low Electric Power Consumption Mode

The system shifts to low electric power consumption mode when all the following conditions are satisfied.

- Third seat fold switch is OFF
- Power return motor is not in operation
- When the condition that the vehicle speed is 2 km/h (1 MPH) or less continues for 30 seconds or more

The system releases low electric power consumption mode when any of the following conditions is satisfied.

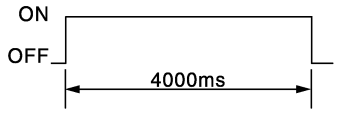
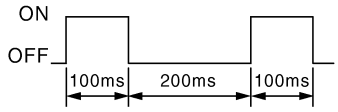
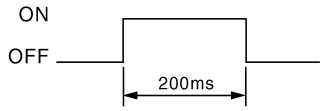
- When third seat fold switch is pressed
- When the change occurs to the pulse of vehicle speed sensor

For low electric power consumption mode, the following functions are available.

- Power supply for sector gear position limit switch and seatback angle limit switch is turned OFF
- Power supply for motor sensor is turned OFF when power return motor is not in operation

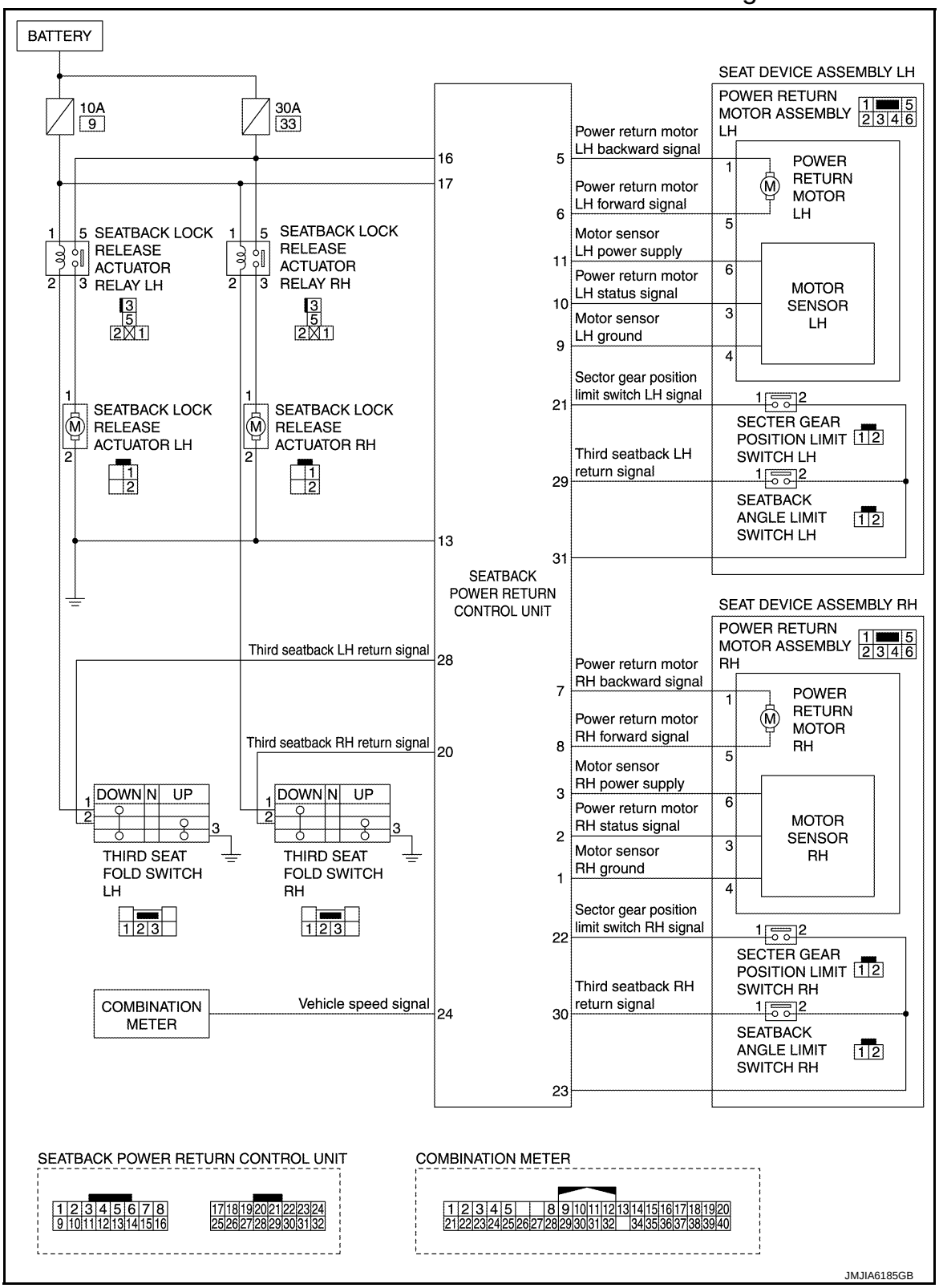
Buzzer Operation Pattern And Order Priority

Seatback power return control unit sounds a buzzer according to third seatback return operation status. When buzzer sounding conditions are satisfied at the same time, the highest buzzer pattern are as described in the following table.

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

SEATBACK POWER FOLDING/RETURN SYSTEM : Circuit Diagram

INFOID:0000000009652937



SEATBACK POWER FOLDING/RETURN SYSTEM : Fail-safe

INFOID:0000000009652938

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 third 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 third seatback is in the return complete position. Third seatback does not operate when third 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.

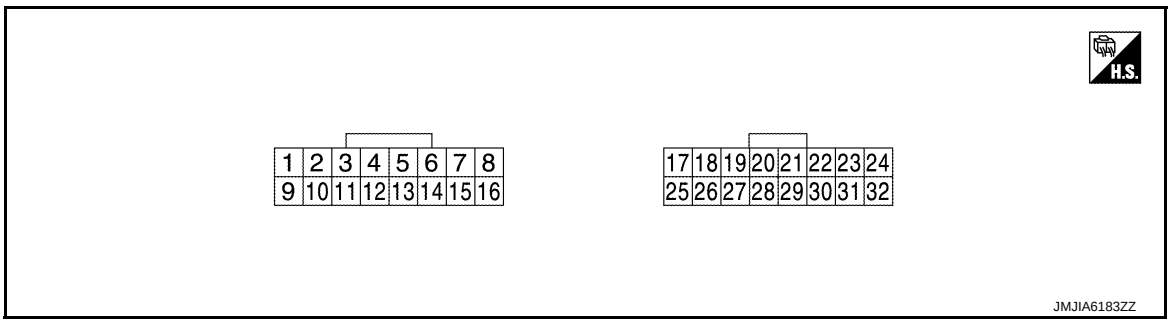
ECU DIAGNOSIS INFORMATION

SEATBACK POWER RETURN CONTROL UNIT

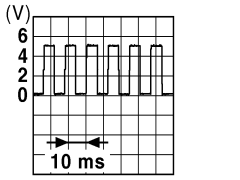
Reference Value

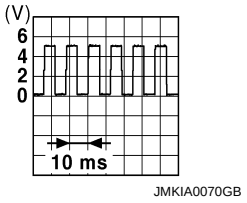
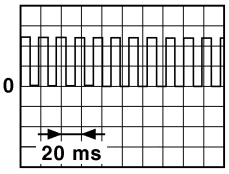
INFOID:0000000009652939

TERMINAL LAYOUT



PHYSICAL VALUES

Terminal No. (Wire color)		Description		Condition	Value
(+)	(–)	Signal name	Input/ Output		
1 (B/W)	Ground	Ground [Motor sensor (RH)]	—	—	—
2 (R)	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
3 (R/B)	Ground	Power supply [Motor sensor (RH)]	Output	When the power return motor is operated	9 – 16 V
5 (L/W)	Ground	Power return motor (LH) backward signal	Output	When the power return motor (LH) performs reverse operation	9 – 16 V
				Other than the above	0 – 0.5 V
6 (Y)	Ground	Power return motor (LH) forward signal	Output	When the power return motor (LH) performs return operation	9 – 16 V
				Other than the above	0 – 0.5 V
7 (G)	Ground	Power return motor (RH) backward signal	Output	When the power return motor (RH) performs reverse operation	9 – 16 V
				Other than the above	0 – 0.5 V
8 (B/Y)	Ground	Power return motor (RH) forward signal	Output	When the power return motor (RH) performs return operation	9 – 16 V
				Other than the above	0 – 0.5 V
9 (R/W)	Ground	Ground [Motor sensor (LH)]	—	—	—

Terminal No. (Wire color)		Description		Condition	Value
(+)	(–)	Signal name	Input/ Output		
10 (L/W)	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
11 (Y/R)	Ground	Power supply [Motor sensor (LH)]	Output	When the power return motor is operated	9 – 16 V
13 (G/W)	Ground	Ground	—	—	—
16 (B/W)	Ground	Battery power supply	Input	—	9 – 16 V
17 (LG)	Ground	System power supply	Input	—	9 – 16 V
20 (Y)	Ground	Third sear fold switch (RH)	Input	Third sear fold switch (RH) in return position	0 – 0.5 V
				Other than the above	4.7 – 5.3 V
21 (B/W)	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)	9 – 16 V
				Other than the above	0 – 0.5 V
22 (SB)	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)	9 – 16 V
				Other than the above	0 – 0.5 V
23 (B/O)	Ground	Ground [Limit switch (RH)]	—	—	—
24 (L/O)	Ground	Vehicle speed signal	Input	When vehicle speed is approx.40 km/h (25MPH)	 JSNIA0012GB
28 (G/O)	Ground	Third sear fold switch (LH)	Input	Third sear fold switch (LH) in return position	0 – 0.5 V
				Other than the above	4.7 – 5.3 V
29 (O)	Ground	Seatback angle limit switch (LH) input signal	Input	When the third seatback (LH) is in the return completion position (other than low power consumption mode)	9 – 16 V
				Other than the above	0 – 0.5 V
30 (BR/W)	Ground	Seatback angle limit switch (RH) input signal	Input	When the third seatback (RH) is in the return completion position (other than low power consumption mode)	9 – 16 V
				Other than the above	0 – 0.5 V

Terminal No. (Wire color)		Description		Condition	Value
(+)	(–)	Signal name	Input/ Output		
31 (W/R)	Ground	Ground [Limit switch (LH)]	—	—	—
32 (L/W)	Ground	Ground	—	—	—

Fail-safe

INFOID:0000000009652940

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

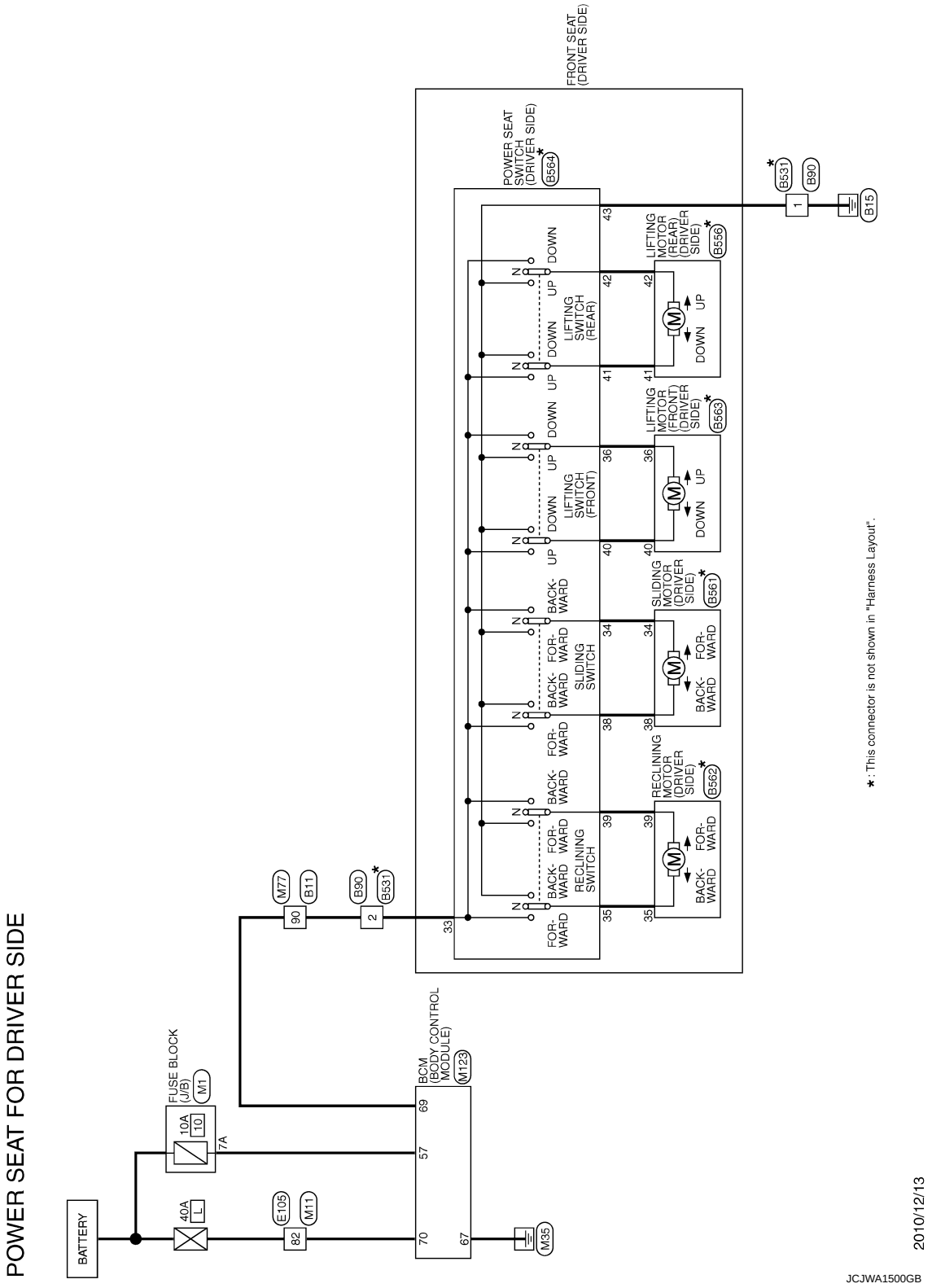
Malfunction items	Fail-safe in operation
Seatback angle limit switch stays in the “ON” position	Seatback power return control unit judges that power return motor and gear are locked during operation because the return complete position of third seatback cannot be recognized. Seatback power return control 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 third seatback is in the return complete position. Third seatback does not operate when third 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.

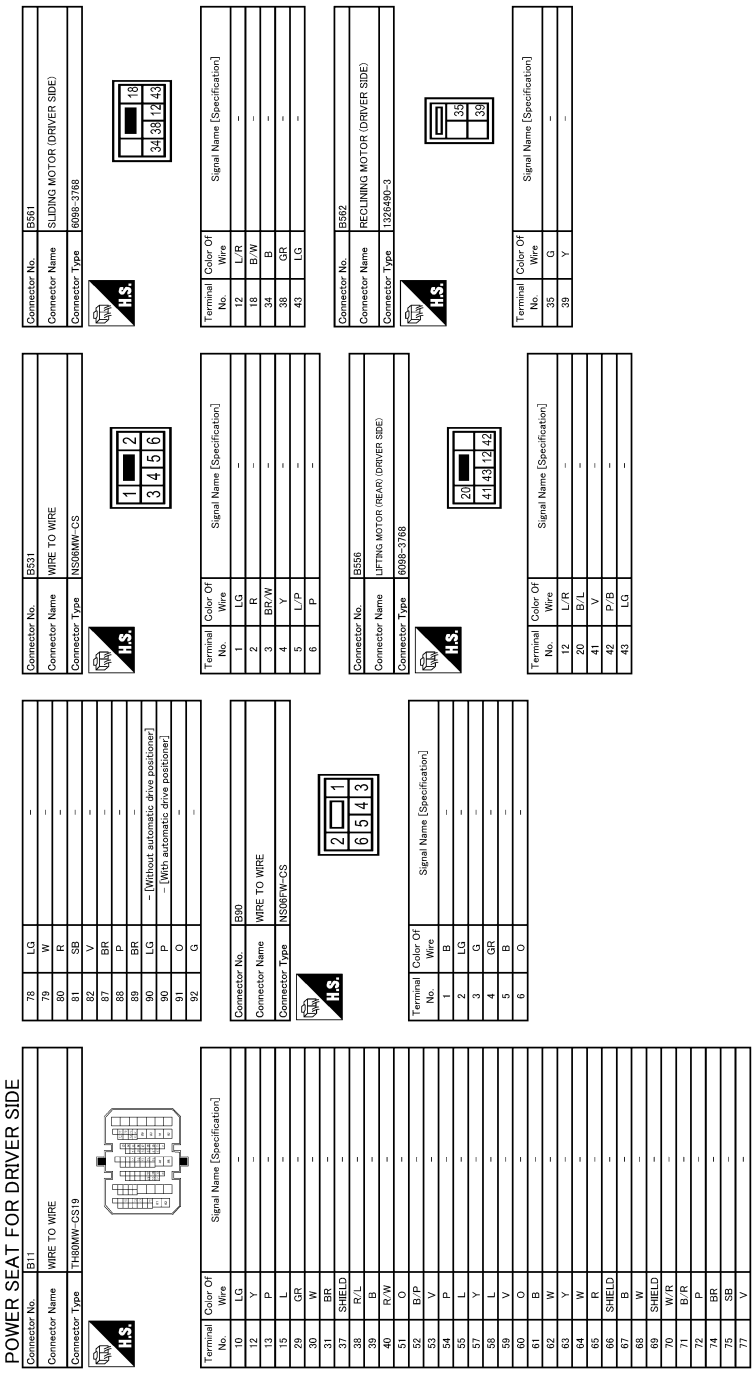
WIRING DIAGRAM

POWER SEAT CONTROL SYSTEM
DRIVER SIDE

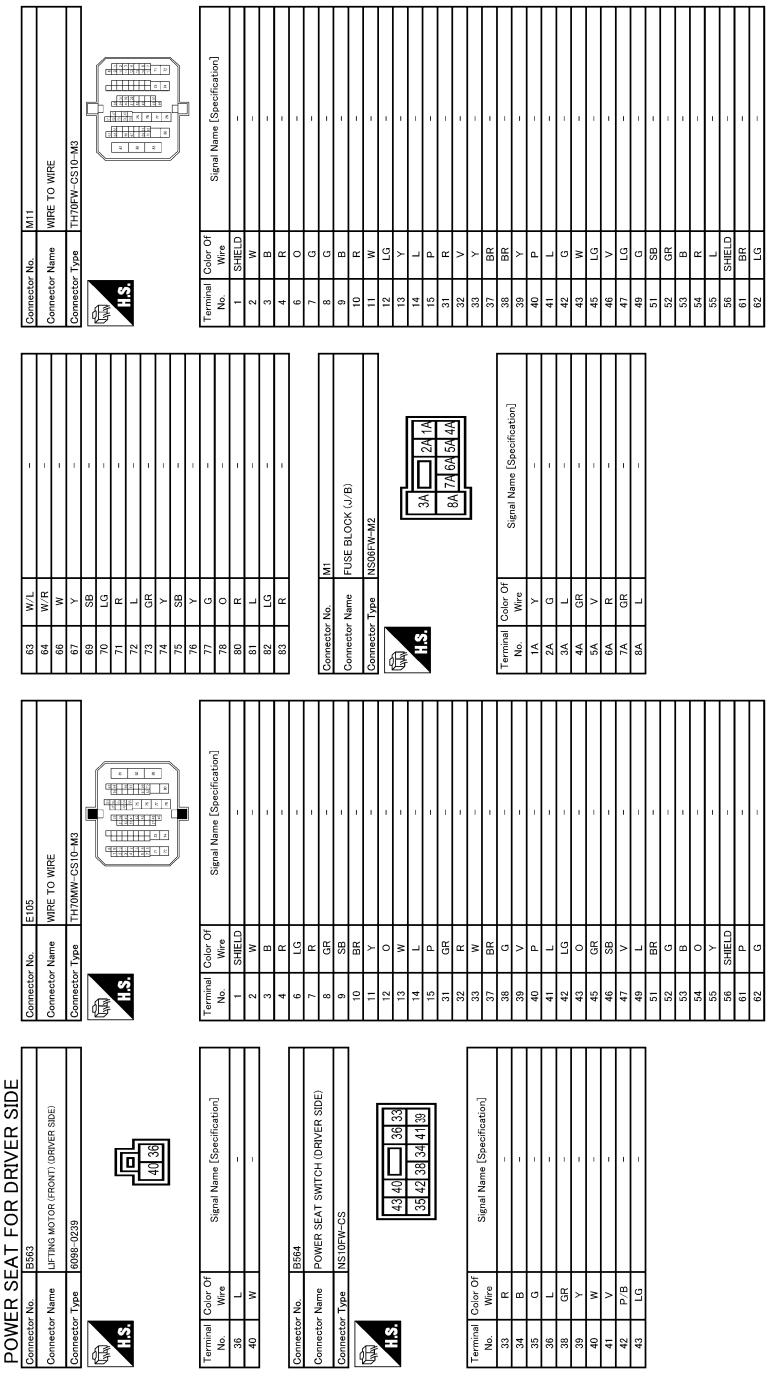
DRIVER SIDE : Wiring Diagram

INFOID:0000000009652941





JRJWC2254GB



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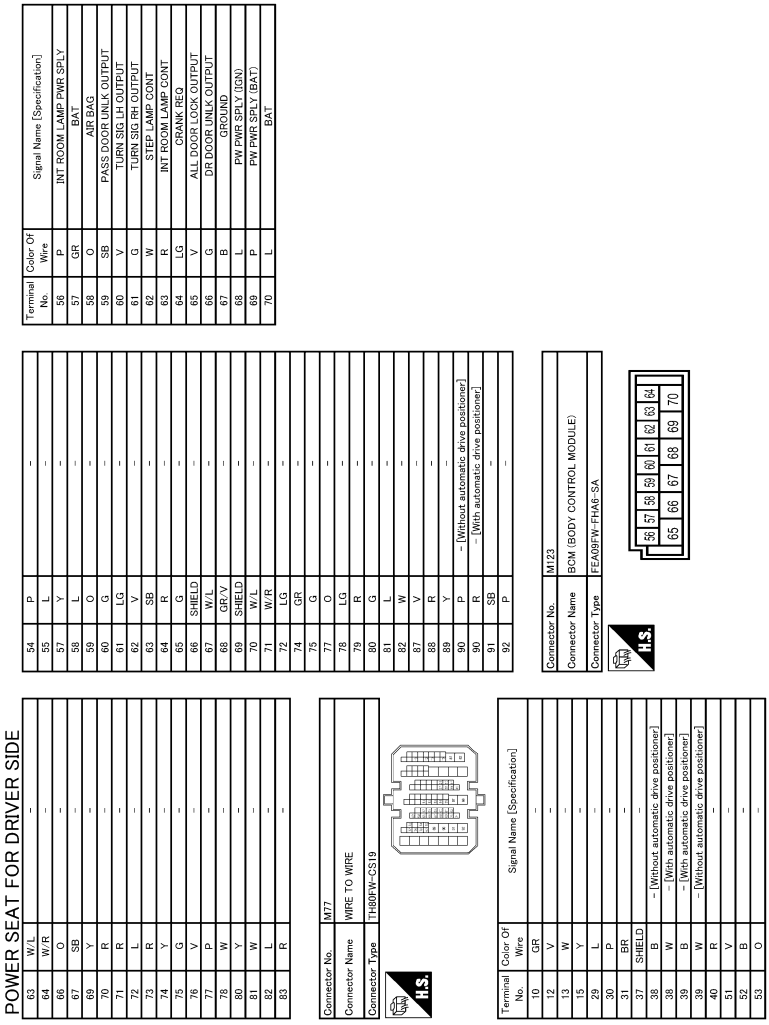
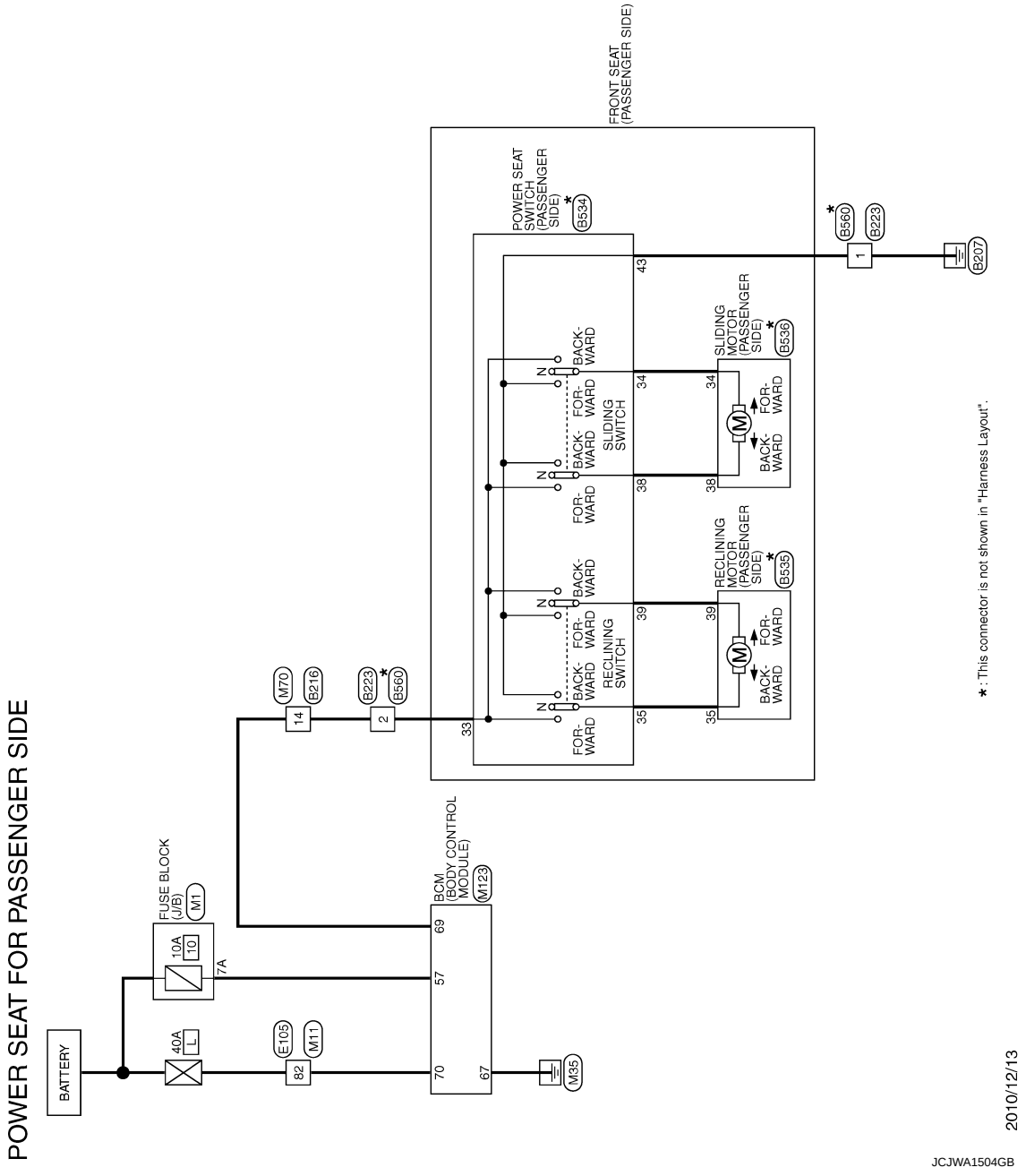


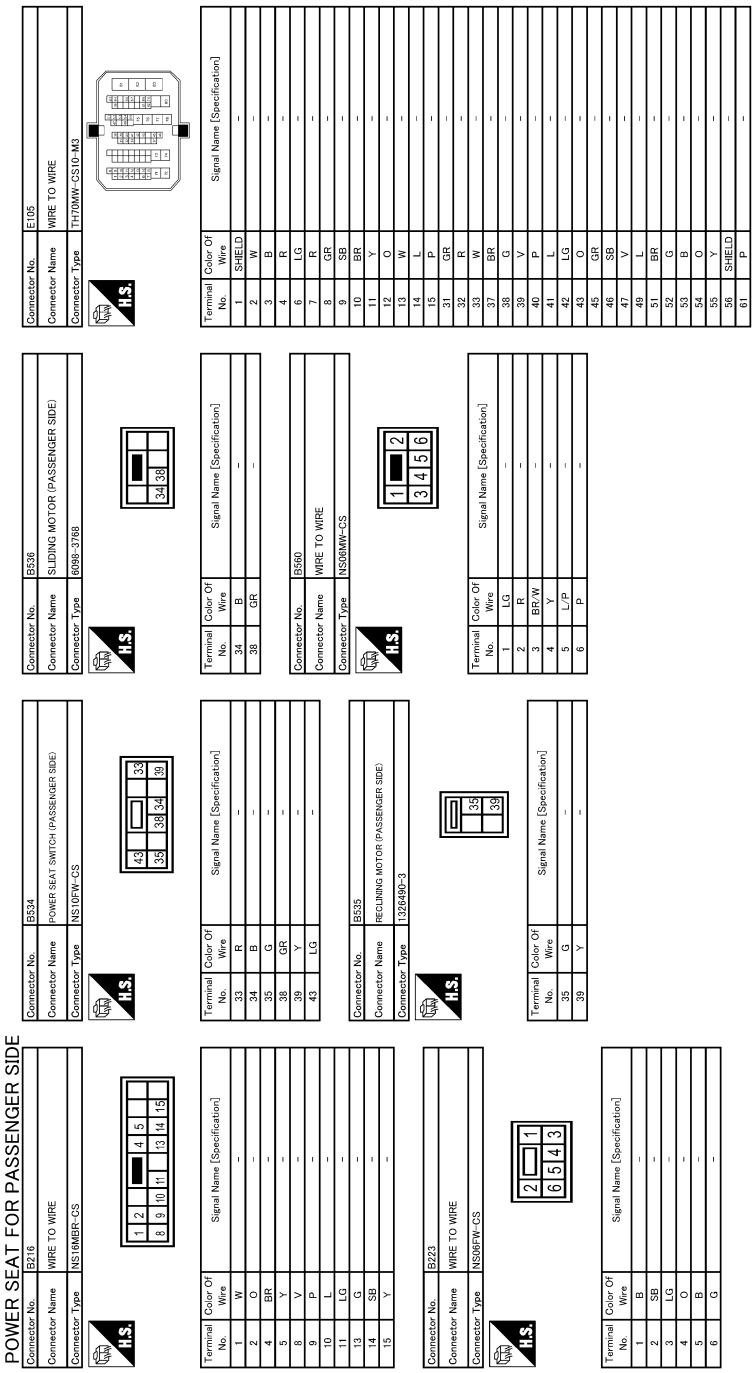
JRJWC2256GB

PASSENGER SIDE

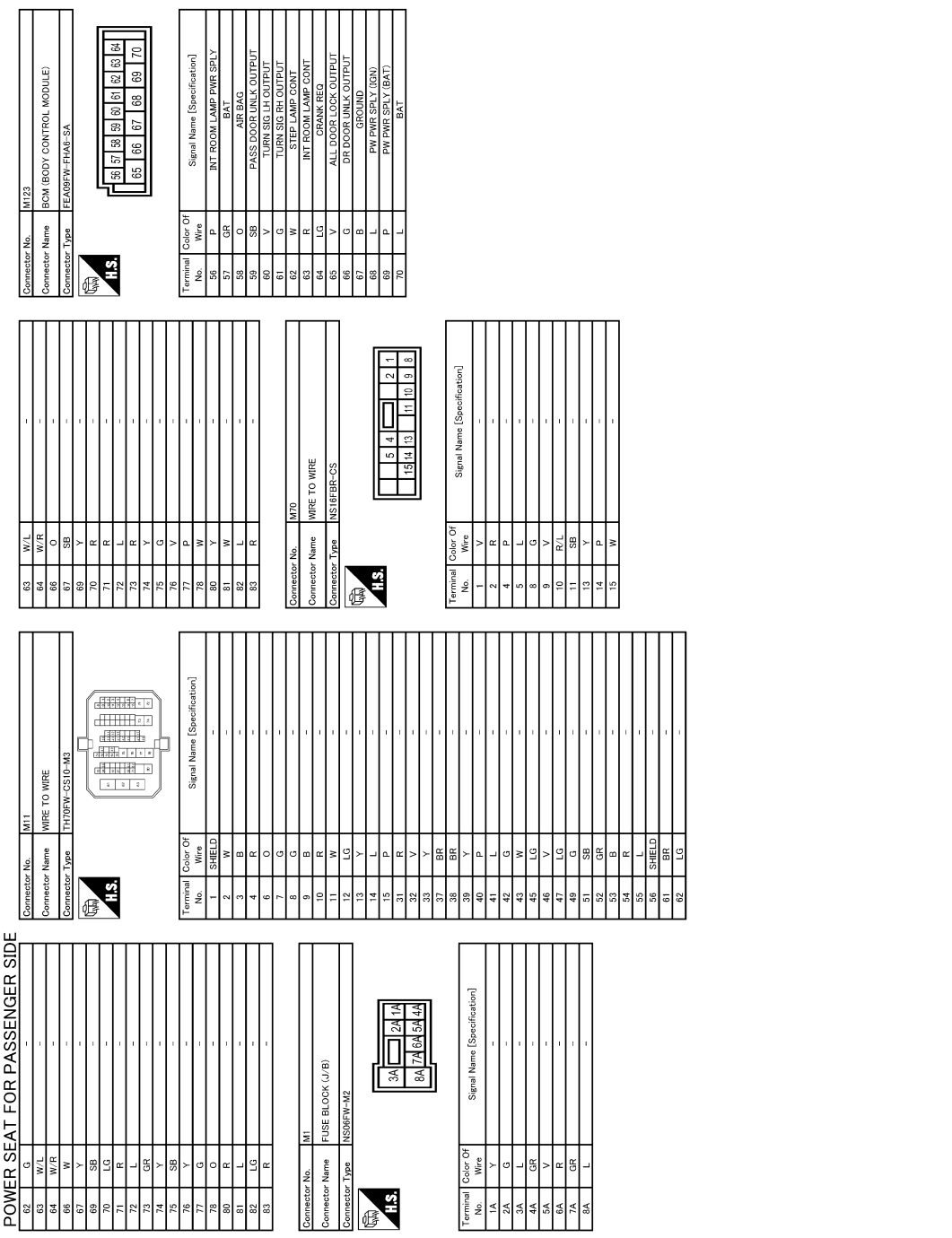
PASSENGER SIDE : Wiring Diagram

INFOID:0000000009652942





JRJWC2257GB

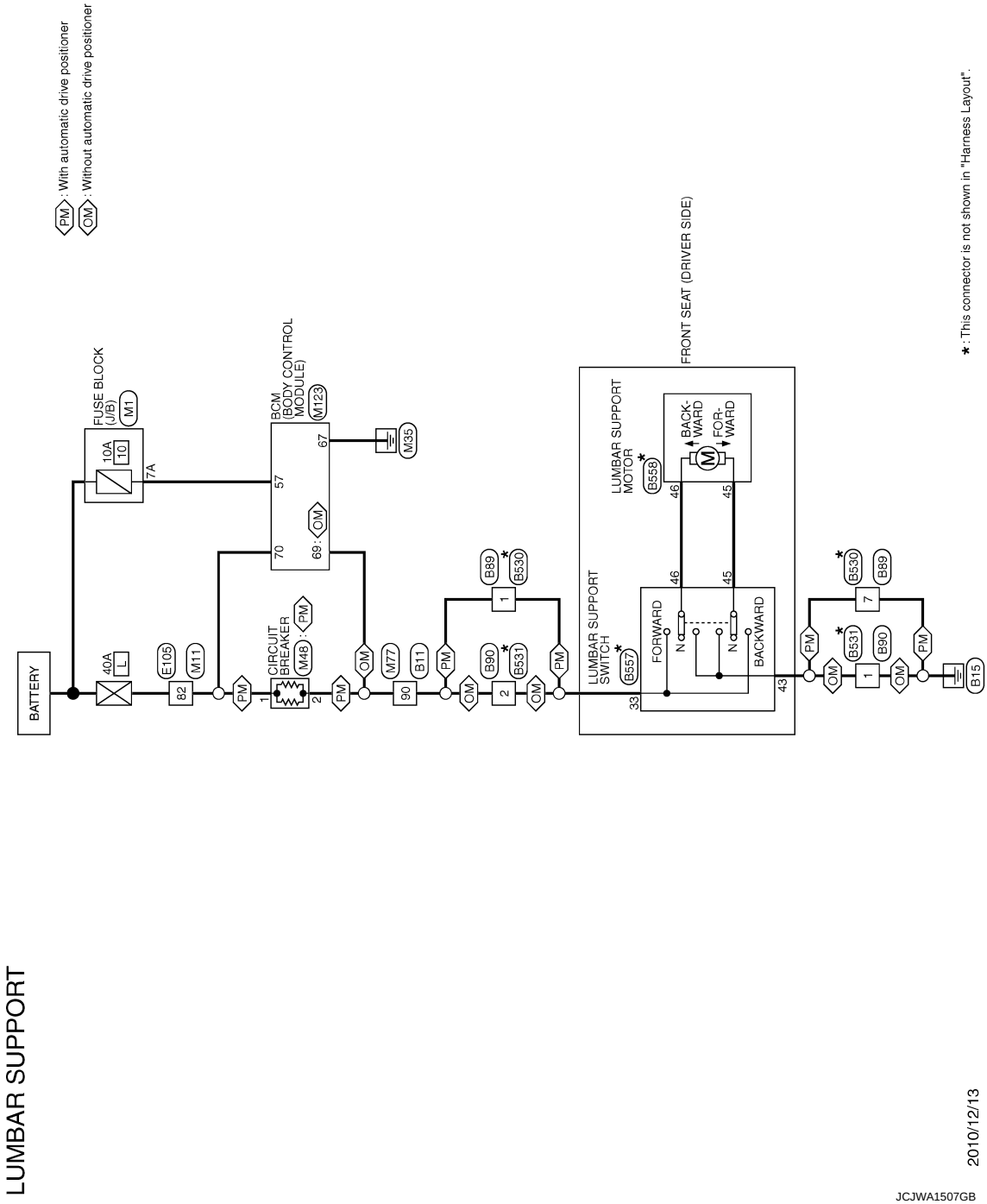


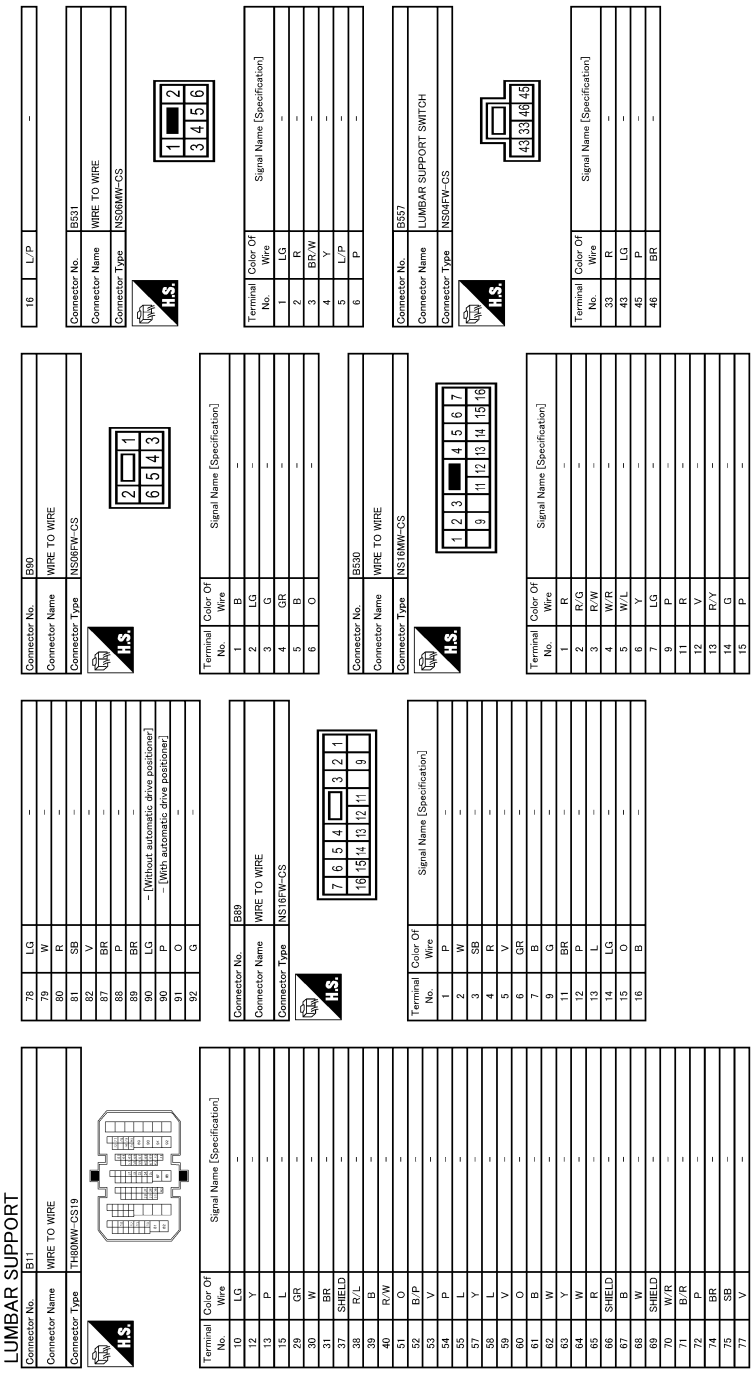
JRJWC2258GB

LUMBAR SUPPORT SYSTEM

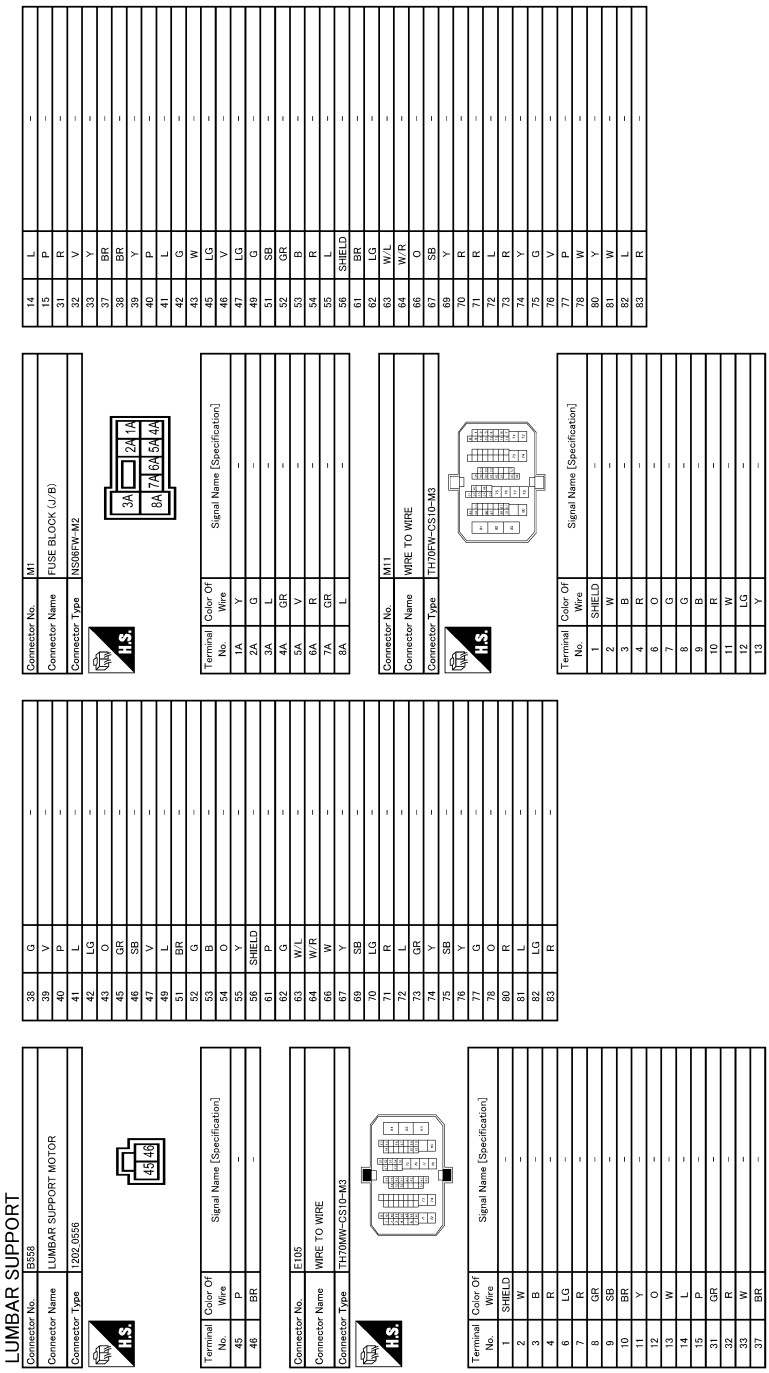
Wiring Diagram

INFOID:0000000009652943

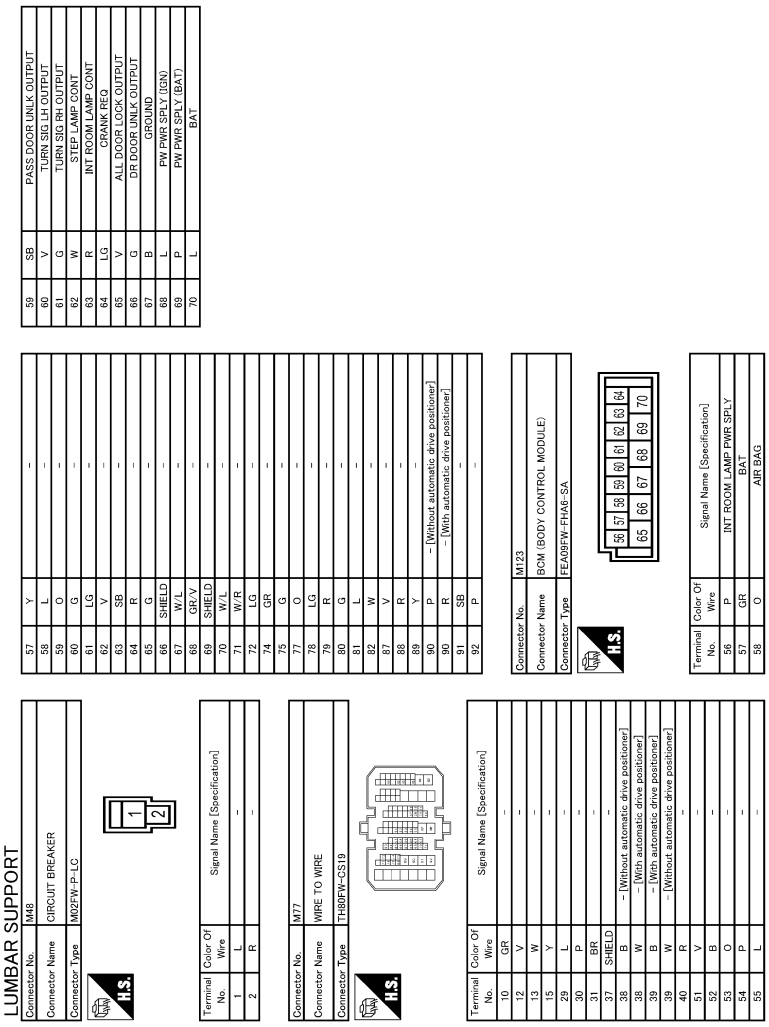




JRJWC2259GB



JRJWC2260GB

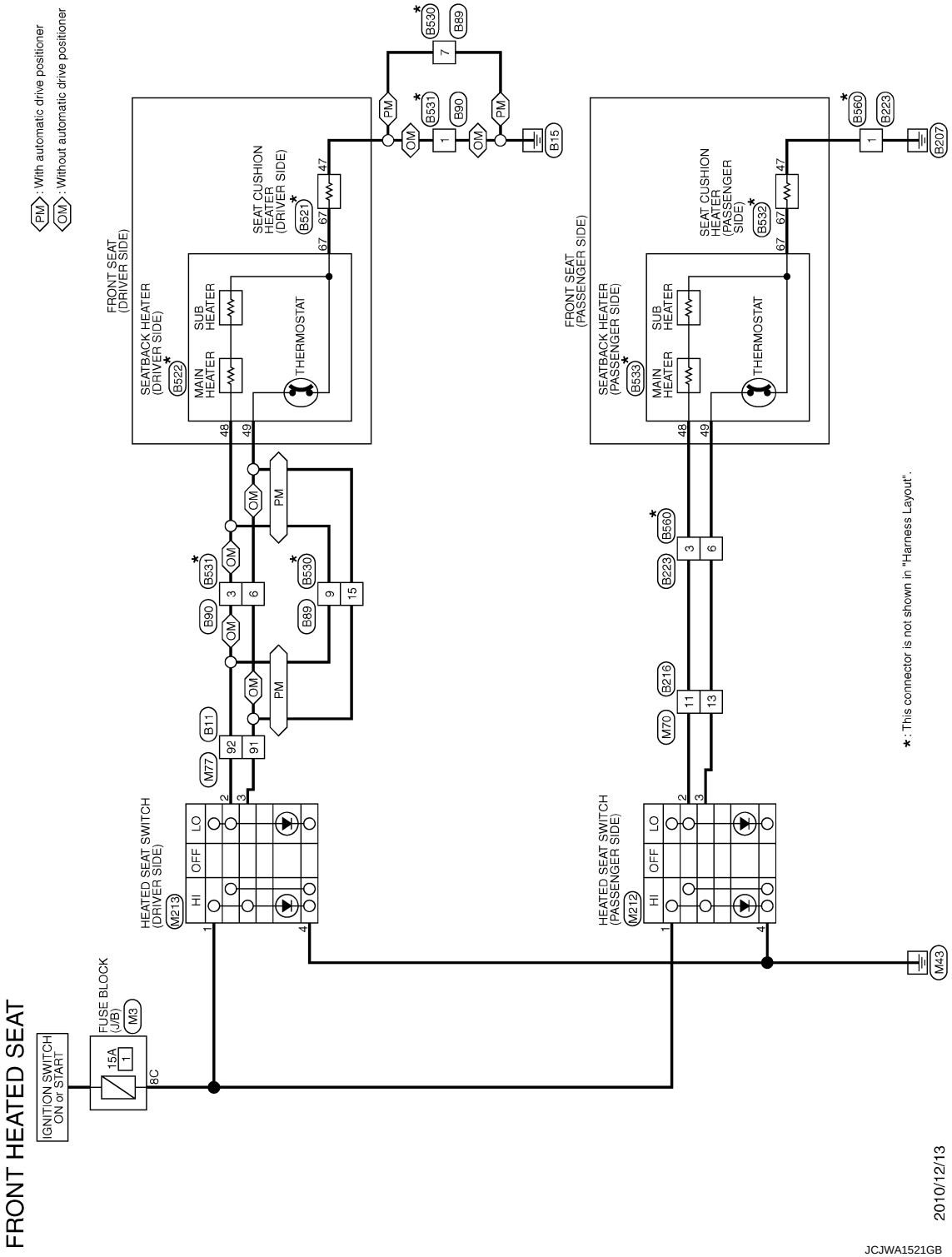


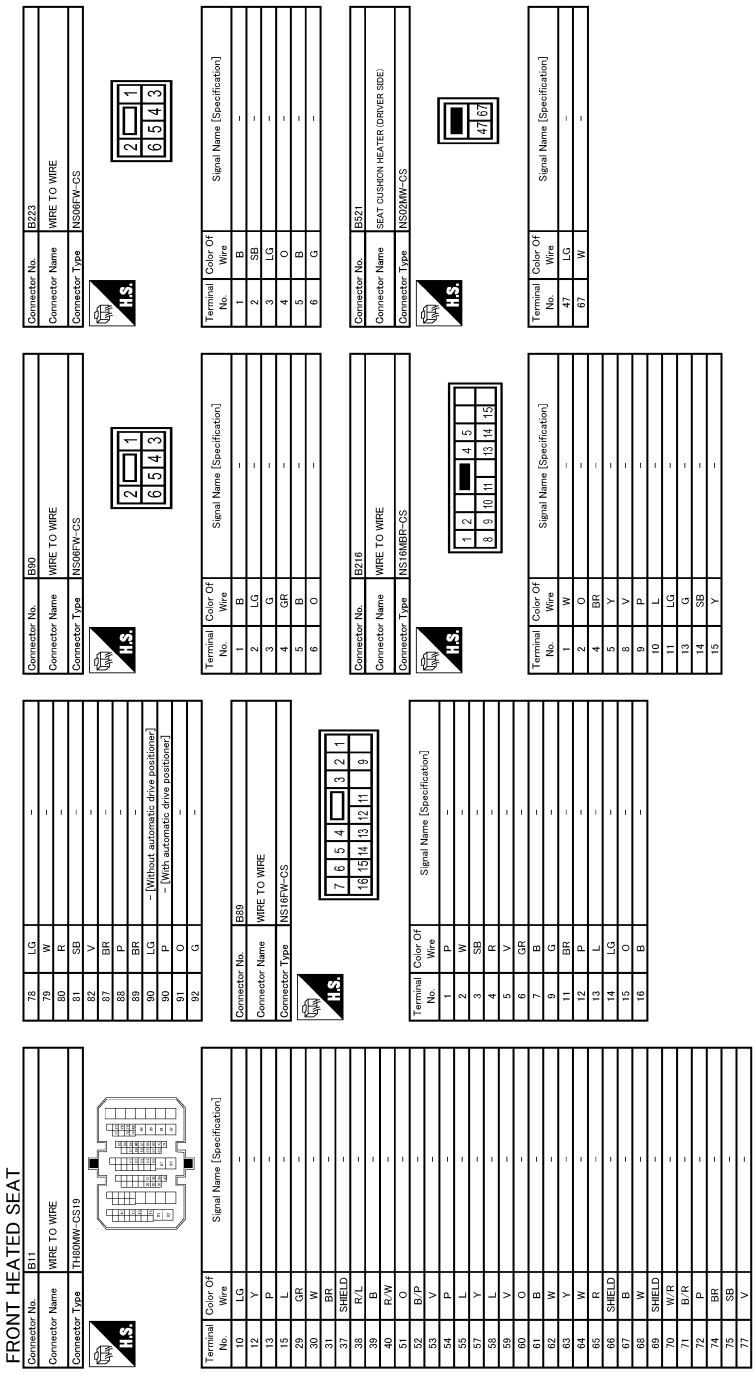
JRJWC2261GB

HEATED SEAT SYSTEM

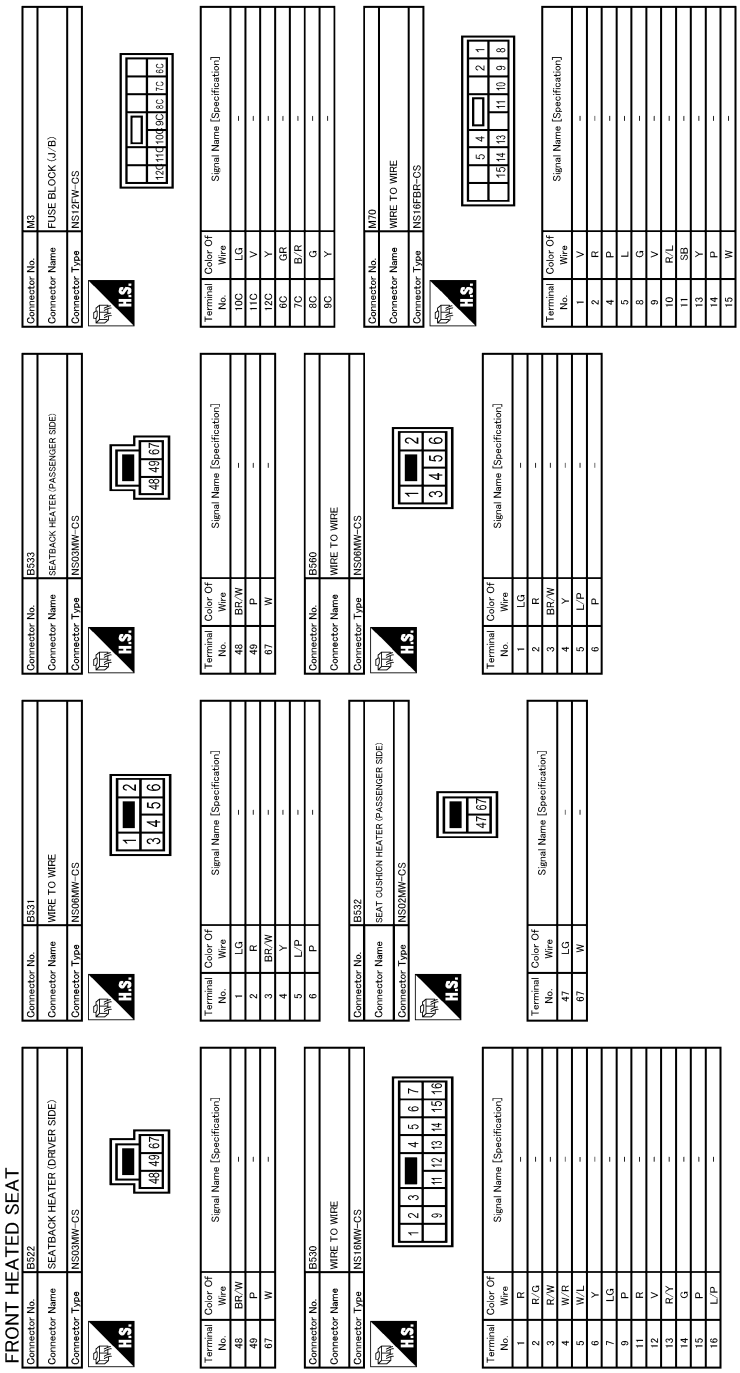
Wiring Diagram

INFOID:0000000009652944

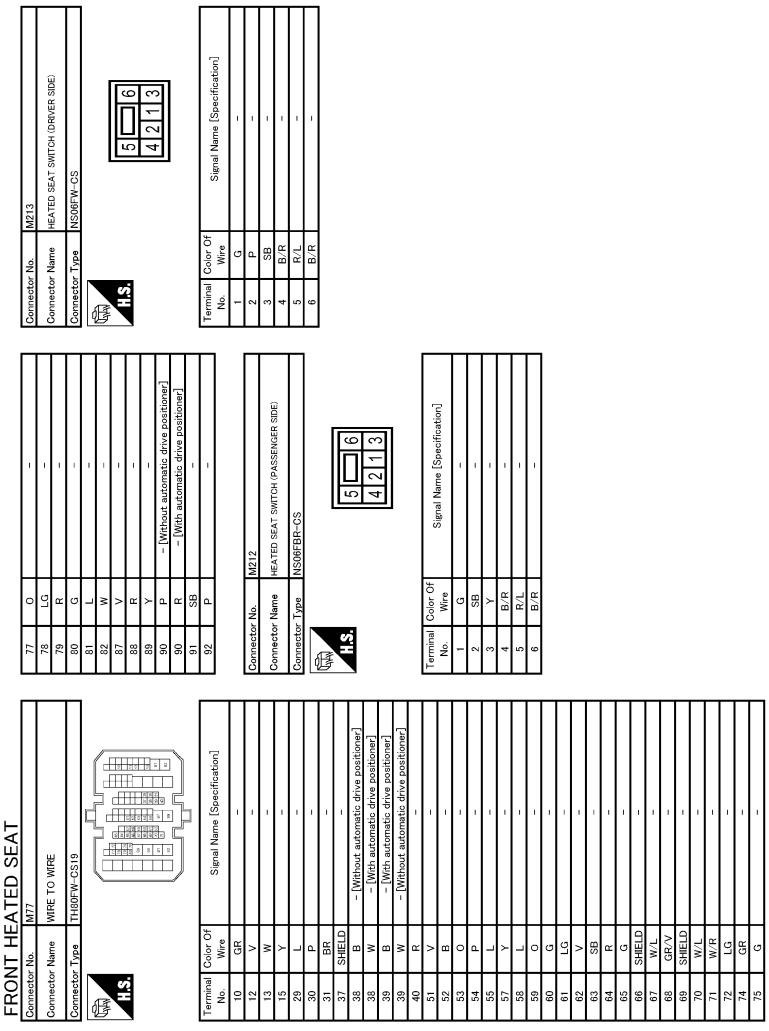




JRJWC2270GB



JRJWC2271GB

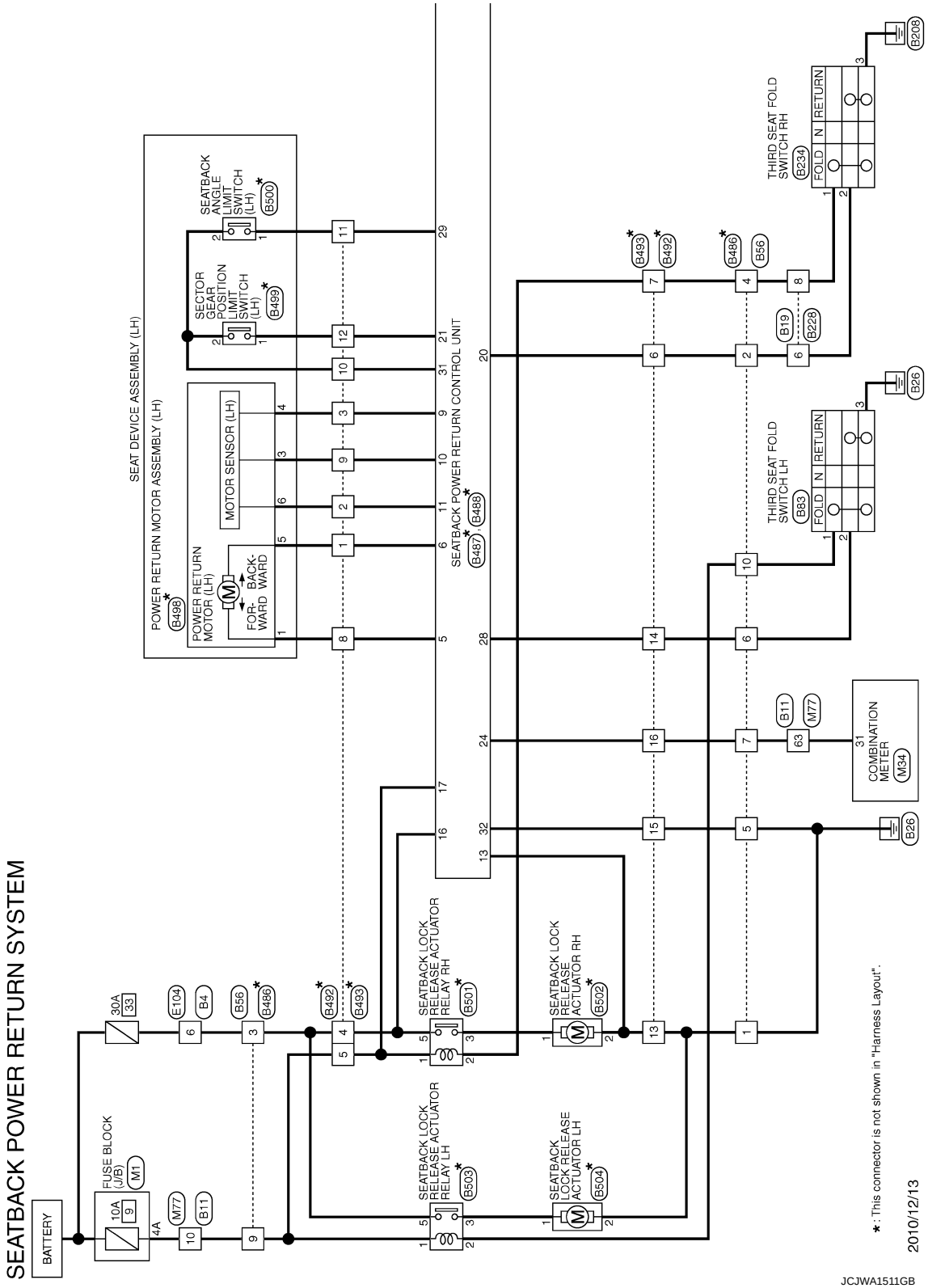


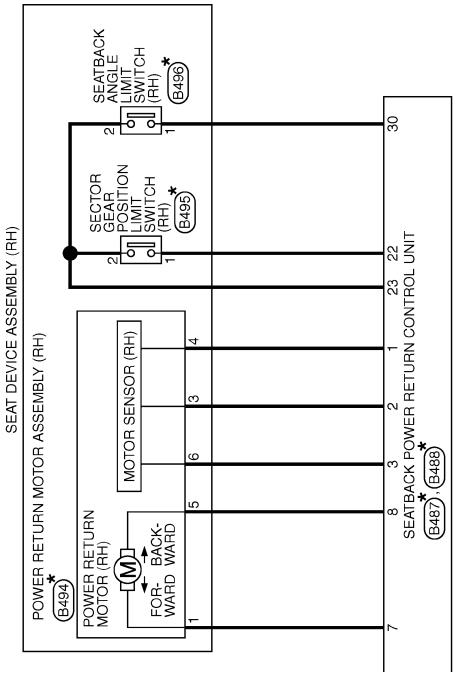
JRJWC2272GB

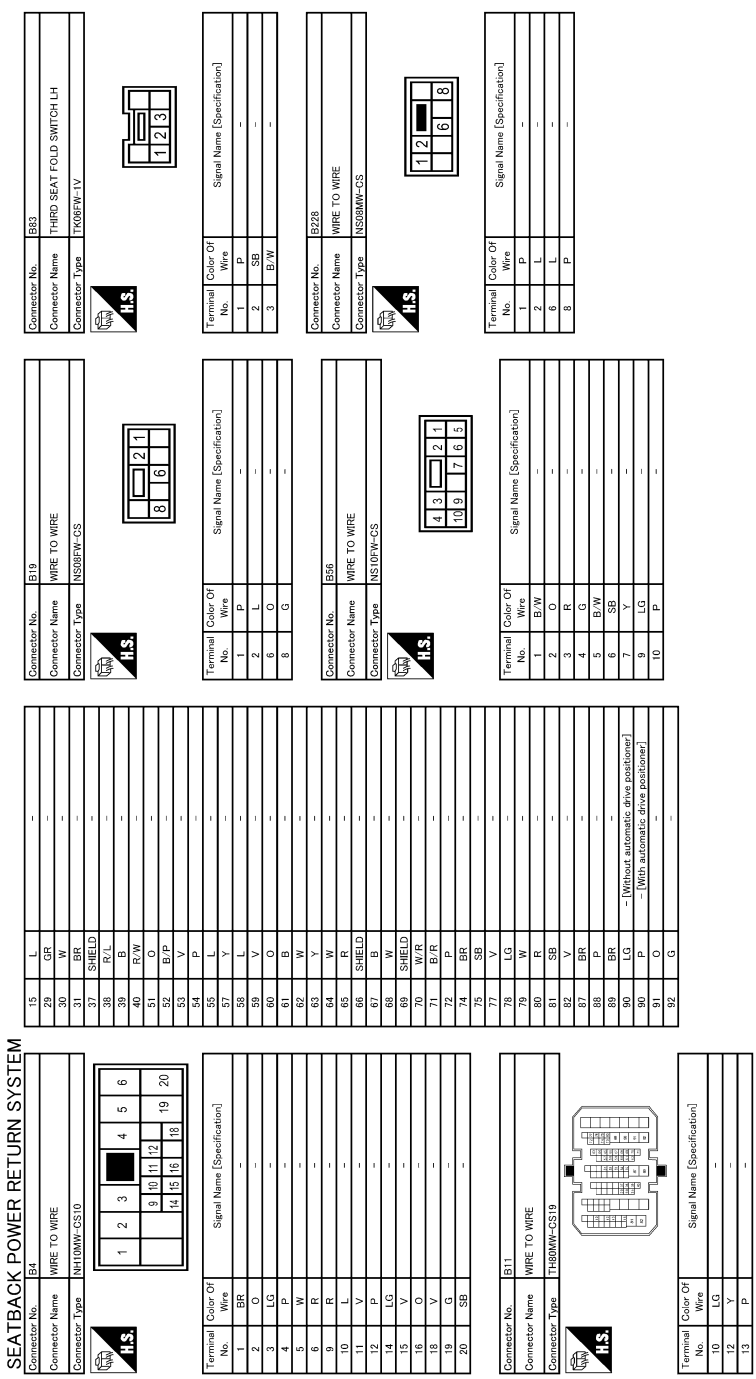
SEATBACK POWER RETURN SYSTEM

Wiring Diagram

INFOID:0000000009652945




SEAT DEVICE ASSEMBLY (RH)
POWER RETURN MOTOR ASSEMBLY (RH)
B494
POWER RETURN MOTOR (RH)
M
FOR-WARD
BACK-WARD
MOTOR SENSOR (RH)
SECTOR GEAR POSITION LIMIT SWITCH (RH)
B495
SEATBACK ANGLE LIMIT SWITCH (RH)
B496
SEATBACK POWER RETURN CONTROL UNIT
B487
B488
JCJWA1512GB



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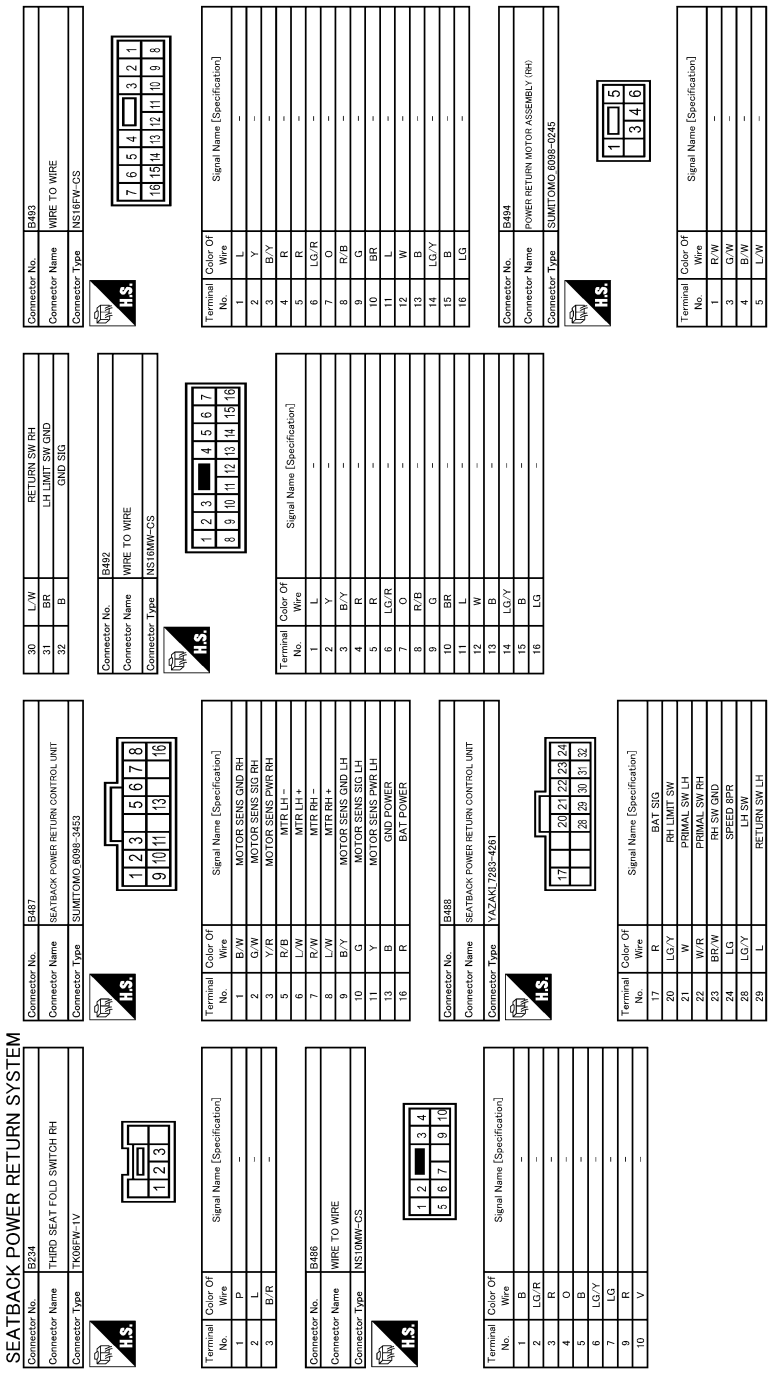

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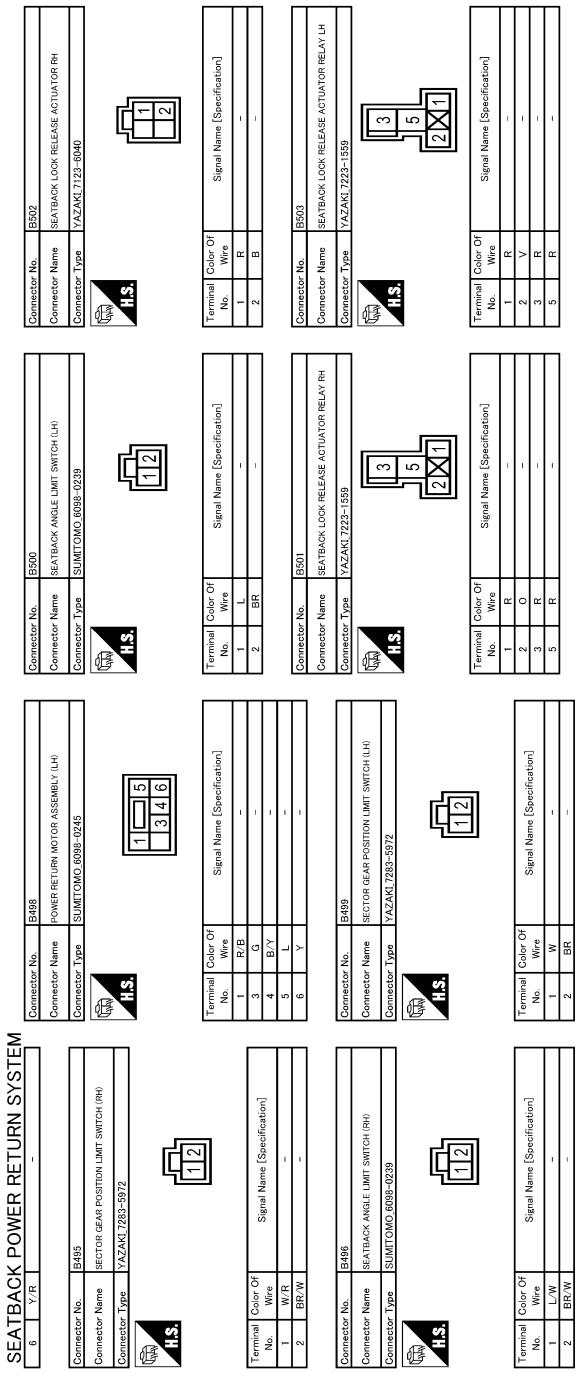

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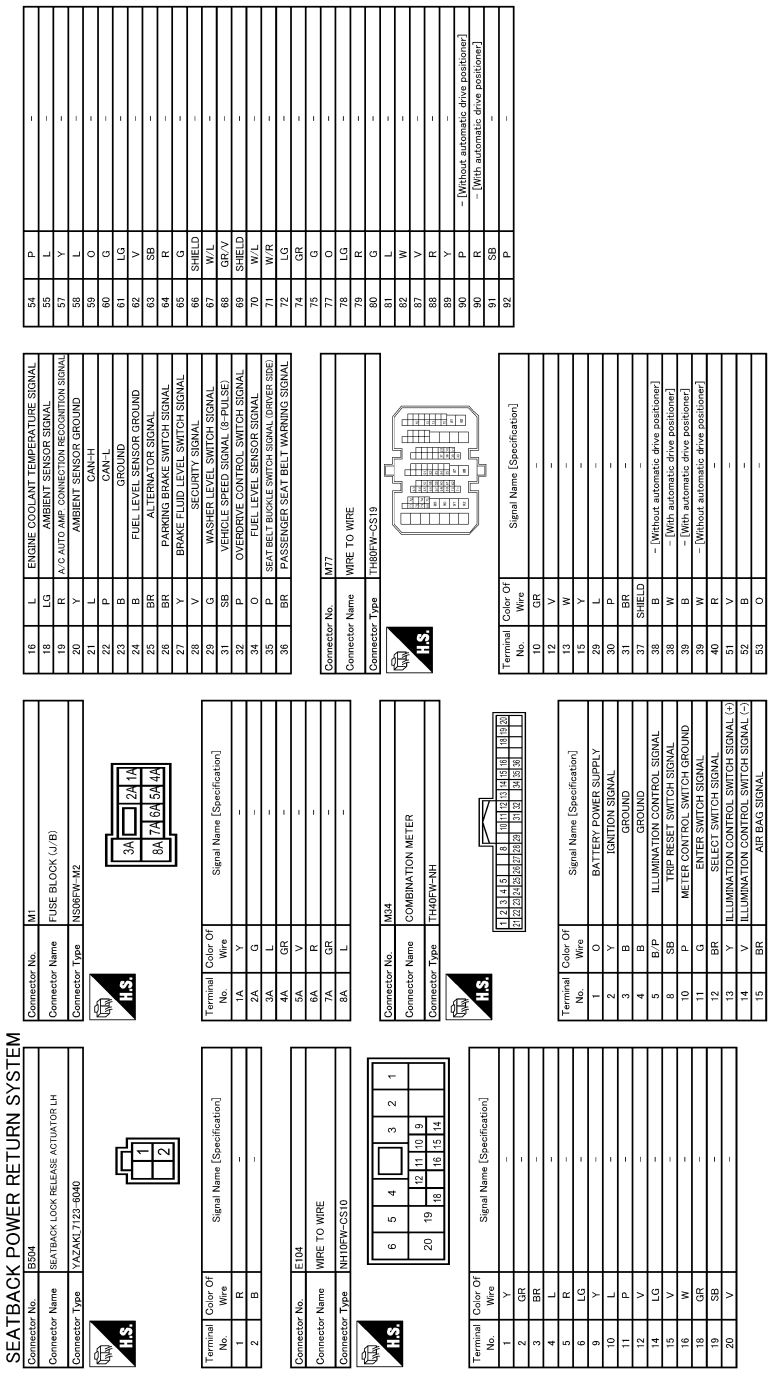
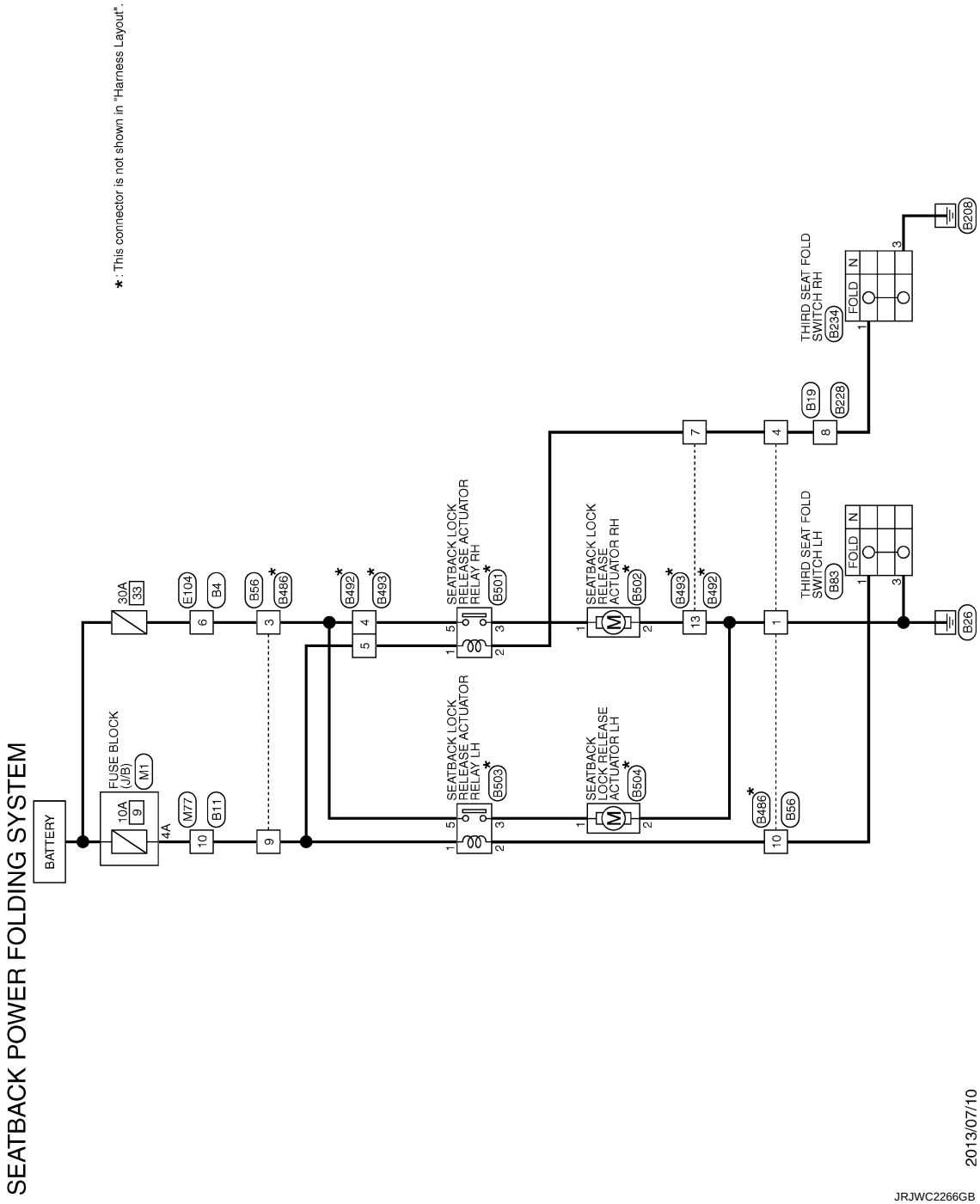


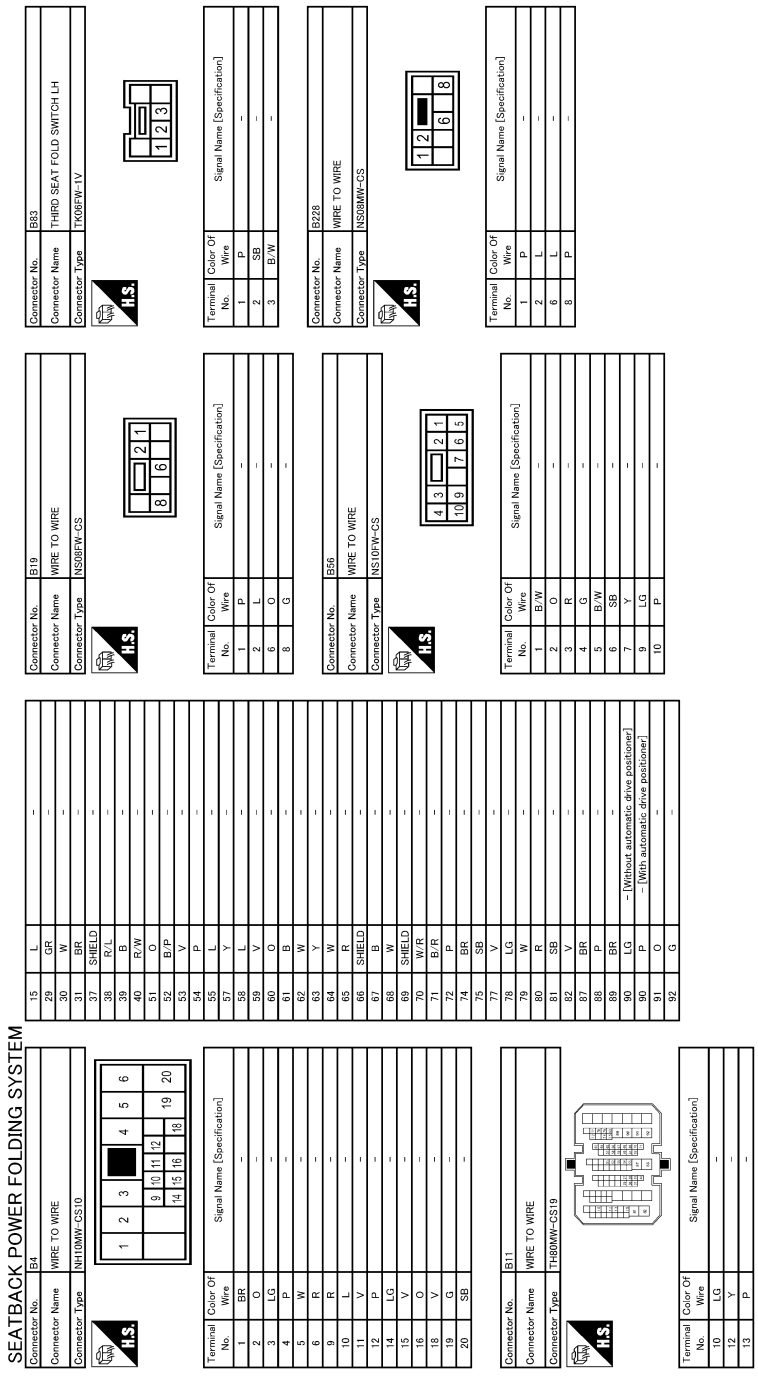
JRJWC2265GB

SEATBACK POWER FOLDING SYSTEM

Wiring Diagram

INFOID:0000000009652946





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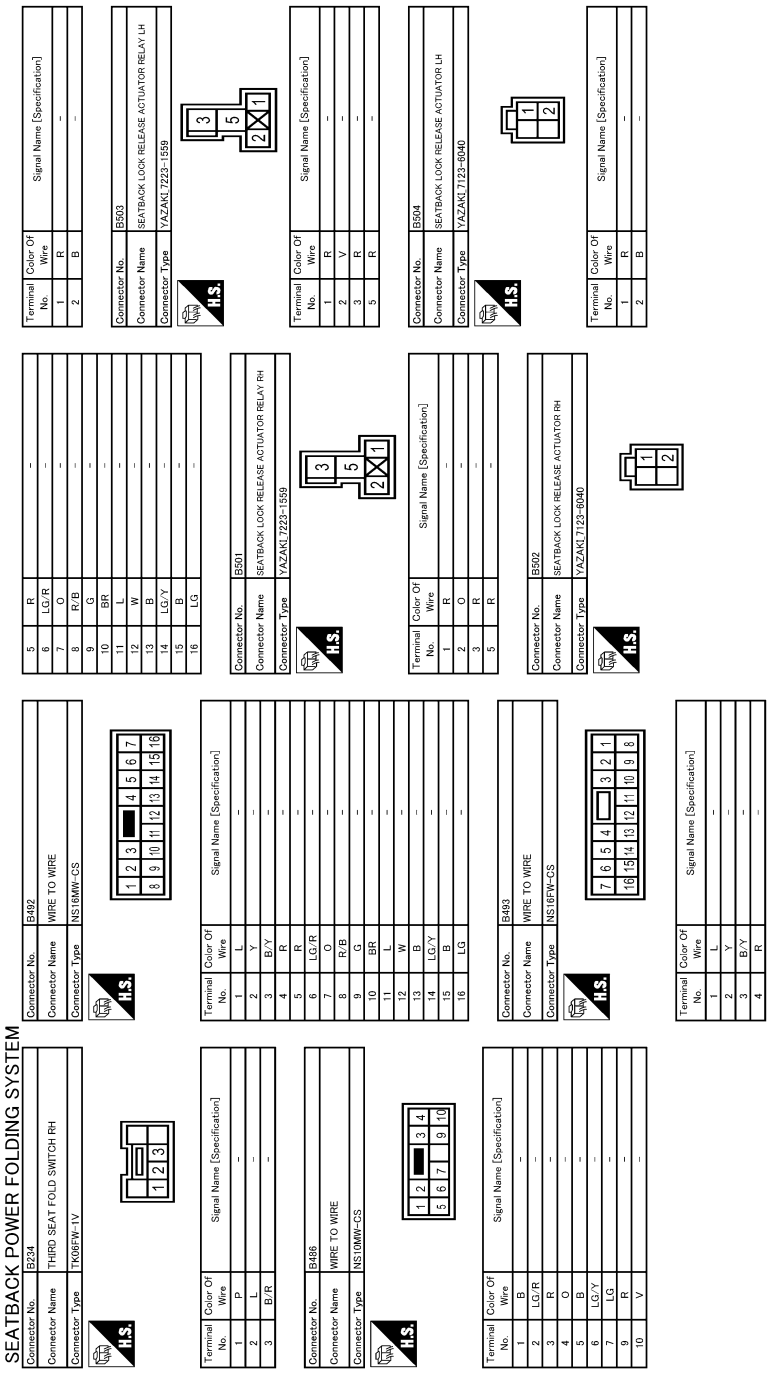

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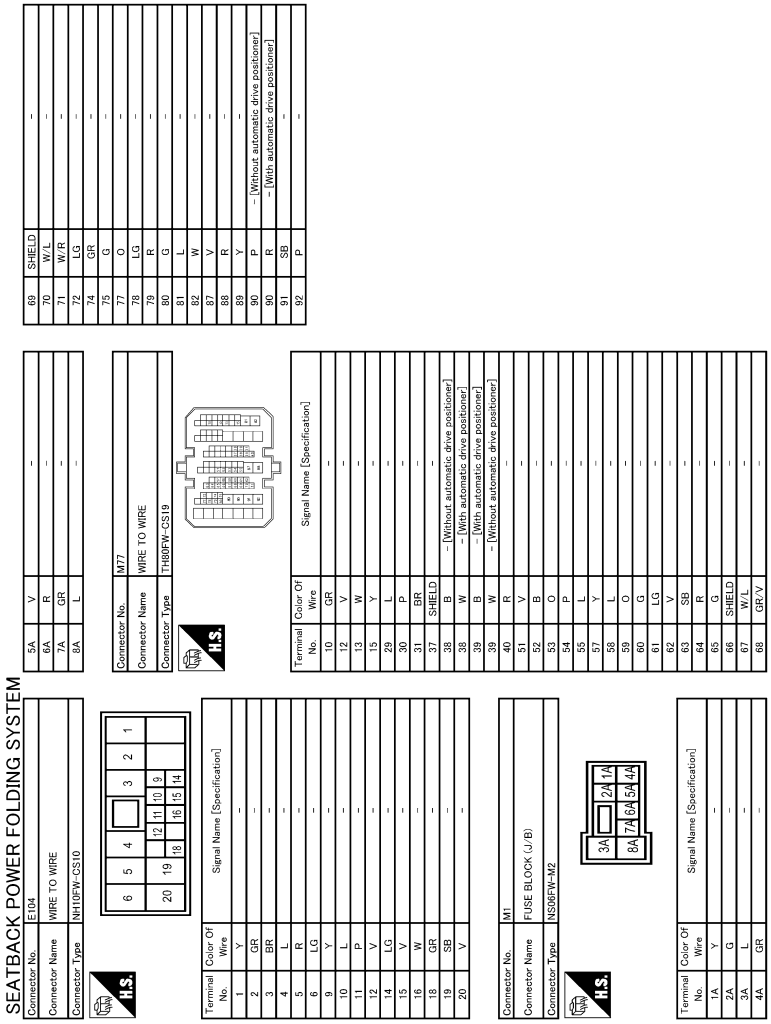


JRJWC2269GB

BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

INFOID:0000000009652947

DETAILED FLOW

1. OBTAIN INFORMATION ABOUT SYMPTOM

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

>> GO TO 2.

2. REPRODUCE THE MALFUNCTION INFORMATION

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

>> GO TO 3.

3. IDENTIFY THE MALFUNCTIONING SYSTEM WITH “SYMPTOM DIAGNOSIS”

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

>> GO TO 4.

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

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

>> GO TO 5.

5. REPAIR OR REPLACE THE MALFUNCTIONING PARTS

Repair or replace the specified malfunctioning parts.

>> GO TO 6.

6. FINAL CHECK

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

Are the malfunctions corrected?

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

DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT

Diagnosis Procedure

INFOID:0000000009652948

1.CHECK FUSE

Check that the following fuses are not fusing.

Signal name	Fuse No.
Battery power supply	9 (10 A)
	33 (30 A)

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 and seatback lock release actuator relay (LH and RH) connector.
3. Check voltage between seatback power return control unit harness connector and ground.

(+)		(–)	Voltage (V)
Seatback power return control unit			
Connector	Terminal		
B487	16	Ground	9 – 16
B488	17		

Is the measurement value 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		
B487	13		Existed
B488	32		

Does continuity exist?

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

THIRD SEAT FOLD SWITCH
LH

LH : Component Function Check

INFOID:0000000009652949

1.CHECK FUNCTION

Check that the third seat fold switch (LH) operation.

Is the inspection result normal?

YES >> INSUPECTION END
NO >> Refer to SE-49, "LH : Diagnosis Procedure".

LH : Diagnosis Procedure

INFOID:0000000009652950

1.CHECK THIRD SEAT FOLD SWITCH (LH) GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect third seat fold switch (LH) connector.
3. Check continuity between third seat fold switch (LH) harness connector and ground.

Third seat fold switch (LH)		Ground	Continuity
Connector	Terminal		
B83	3		Existed

Is the inspection result normal?

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

2.CHECK THIRD SEAT FOLD SWITCH (LH) RETURN SIGNAL

Check voltage between third seat fold switch (LH) harness connector and ground.

(+)		(–)	Voltage (V)
Third seat fold switch (LH)			
Connector	Terminal		
B83	2	Ground	4.7 – 5.3

Is the inspection result normal?

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

3.CHECK THIRD SEAT FOLD SWITCH (LH) CIRCUIT 1

1. Disconnect seatback power return control unit connector.
2. Check continuity between seatback power return control unit harness connector and third seat fold switch (LH) harness connector.

Seatback power return control unit		Third seat fold switch (LH)		Continuity
Connector	Terminal	Connector	Terminal	
B488	28	B83	2	Existed

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

Seatback power return control unit		Ground	Continuity
Connector	Terminal		
B488	28		Not existed

Is the inspection result normal?

YES >> Replace rear power return control unit. Refer to SE-139, "Removal and Installation".
NO >> Repair or replace harness.

4. CHECK THIRD SEAT FOLD SWITCH (LH) FOLD SIGNAL

Check voltage between third seat fold switch (LH) harness connector and ground.

(+)		(–)	Voltage (V)
Third seat fold switch (LH)			
Connector	Terminal		
B83	1	Ground	9 – 16

Is the inspection result normal?

YES >> GO TO 9.
NO >> GO TO 5.

5. CHECK THIRD SEAT FOLD SWITCH (LH) CIRCUIT 2

1. Disconnect seatback lock release actuator relay (LH) connector.
2. Check continuity between seatback lock release actuator relay (LH) harness connector and third seat fold switch (LH) harness connector.

Seatback lock release actuator relay (LH)		Third seat fold switch (LH)		Continuity
Connector	Terminal	Connector	Terminal	
B503	2	B83	1	Existed

3. Check continuity between third seat fold switch (LH) harness connector and ground.

Third seat fold switch (LH)		Ground	Continuity
Connector	Terminal		
B83	1		Not existed

Is the inspection result normal?

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

6. CHECK THIRD SEAT FOLD SWITCH (LH) CIRCUIT 3

Check voltage between seatback lock release actuator relay (LH) harness connector and ground.

(+)		(–)	Voltage (V)
Seatback lock release actuator relay (LH)			
Connector	Terminal		
B503	1	Ground	9 – 16

Is the inspection result normal?

YES >> GO TO 8.
NO >> GO TO 7.

7. CHECK FUSE

Check 10 A fuse [#9, located fuse block (J/B)].

Is the inspection result normal?

YES >> GO TO 10.
NO >> Replace the blown fuse after repairing affected circuit.

8. CHECK SEATBACK LOCK RELEASE ACTUATOR RELAY (LH)

Check seatback lock release actuator relay (LH).
Refer to SE-53, "Component Inspection (Seatback Lock Release Actuator Relay)".

Is the inspection result normal?

YES >> GO TO 10.
NO >> Replace seatback lock release actuator relay (LH).

9. CHECK THIRD SEAT FOLD SWITCH (LH)

Check third seat fold switch (LH).
Refer to SE-53, "Component Inspection (Third Seat Fold Switch)".

Is the inspection result normal?

YES >> GO TO 10.
NO >> Replace third seat fold switch (LH). Refer to SE-136, "Removal and Installation".

10. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

RH

RH : Component Function Check

INFOID:0000000009652951

1. CHECK FUNCTION

Check that the third seat fold switch (RH) operation.

Is the inspection result normal?

YES >> INSUPECTION END
NO >> Refer to SE-51, "RH : Diagnosis Procedure".

RH : Diagnosis Procedure

INFOID:0000000009652952

1. CHECK THIRD SEAT FOLD SWITCH (RH) GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect third seat fold switch (RH) connector.
3. Check continuity between third seat fold switch (RH) harness connector and ground.

Third seat fold switch (RH)		Ground	Continuity
Connector	Terminal		
B234	3		Existed

Is the inspection result normal?

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

2. CHECK THIRD SEAT FOLD SWITCH (RH) RETURN SIGNAL

Check voltage between third seat fold switch (RH) harness connector and ground.

(+)		(–)	Voltage (V)
Third seat fold switch (RH)			
Connector	Terminal		
B234	2	Ground	4.7 – 5.3

Is the inspection result normal?

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

3. CHECK THIRD SEAT FOLD SWITCH (RH) CIRCUIT 1

1. Disconnect seatback power return control unit connector.
2. Check continuity between seatback power return control unit harness connector and third seat fold switch (RH) harness connector.

Seatback power return control unit		Third seat fold switch (RH)		Continuity
Connector	Terminal	Connector	Terminal	
B488	20	B234	2	Existed

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

Seatback power return control unit		Ground	Continuity
Connector	Terminal		
B488	20		Not existed

Is the inspection result normal?

YES >> Replace rear power return control unit. Refer to SE-139, "Removal and Installation".
NO >> Repair or replace harness.

4.CHECK THIRD SEAT FOLD SWITCH (RH) FOLD SIGNAL

Check voltage between third seat fold switch (RH) harness connector and ground.

(+)		(–)	Voltage (V)
Third seat fold switch (RH)			
Connector	Terminal		
B234	1	Ground	9 – 16

Is the inspection result normal?

YES >> GO TO 9.
NO >> GO TO 5.

5.CHECK THIRD SEAT FOLD SWITCH (RH) CIRCUIT 2

1. Disconnect seatback lock release actuator relay (RH) connector.
2. Check continuity between seatback lock release actuator relay (RH) harness connector and third seat fold switch (RH) harness connector.

Seatback lock release actuator relay (RH)		Third seat fold switch (RH)		Continuity
Connector	Terminal	Connector	Terminal	
B501	2	B234	1	Existed

3. Check continuity between third seat fold switch (RH) harness connector and ground.

Third seat fold switch (RH)		Ground	Continuity
Connector	Terminal		
B234	1		Not existed

Is the inspection result normal?

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

6.CHECK THIRD SEAT FOLD SWITCH (RH) CIRCUIT 3

Check voltage between seatback lock release actuator relay (RH) harness connector and ground.

(+)		(–)	Voltage (V)
Seatback lock release actuator relay (RH)			
Connector	Terminal		
B501	1	Ground	9 – 16

Is the inspection result normal?

YES >> GO TO 8.
NO >> GO TO 7.

7.CHECK FUSE

Check 10 A fuse [#9, located fuse block (J/B)].

Is the inspection result normal?

YES >> GO TO 10.
NO >> Replace the blown fuse after repairing affected circuit.

8.CHECK SEATBACK LOCK RELEASE ACTUATOR RELAY (RH)

Check seatback lock release actuator relay (RH).
Refer to SE-53, "Component Inspection (Seatback Lock Release Actuator Relay)".

Is the inspection result normal?

YES >> GO TO 10.
NO >> Replace seatback lock release actuator relay (RH).

9.CHECK THIRD SEAT FOLD SWITCH (RH)

Check third seat fold switch (RH).
Refer to SE-53, "Component Inspection (Third Seat Fold Switch)".

Is the inspection result normal?

YES >> GO TO 10.
NO >> Replace third seat fold switch (RH). Refer to SE-136, "Removal and Installation".

10.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

Component Inspection (Third Seat Fold Switch)

INFOID:0000000009652953

1.CHECK THIRD SEAT FOLD SWITCH

1. Turn ignition switch OFF.
2. Remove third seat fold switch. Refer to SE-136, "Removal and Installation".
3. Check third seat fold switch terminals under the following conditions.

Terminal		Condition			Continuity
1	3	Third seat fold switch	FOLD	While being pressed	Existed
				Other than the above	Not existed
2			RETURN	While being pressed	Existed
				Other than the above	Not existed

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace third seat fold switch. Refer to SE-136, "Removal and Installation".

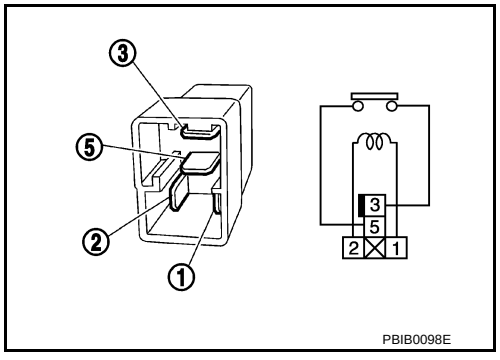
Component Inspection (Seatback Lock Release Actuator Relay)

INFOID:0000000009652954

1.CHECK SEATBACK LOCK ACCTUATOR RELAY

1. Turn ignition switch OFF.
2. Remove seatback lock actuator relay.
3. Check seatback lock actuator relay terminals under the following conditions.

Terminal		Condition	Continuity
3	5	12 V direct current supply between terminals 1 and 2.	Existed
		Not current supply	Not existed



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Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace seatback lock actuator relay.

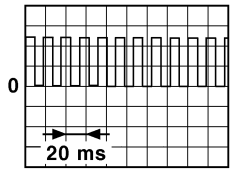
VEHICLE SPEED SIGNAL CIRCUIT

Diagnosis Procedure

INFOID:0000000009652955

1.CHECK VEHICLE SPEED SIGNAL

1. Start engine.
2. Drive the vehicle at more than 40 km/h (25 MPH).
   CAUTION:
   Always drive vehicle at a safe speed.
   NOTE:
   This procedure may be conducted with the drive wheels lifted in the shop or by driving the vehicle.
   If a road test is expected to be easier, it is unnecessary to lift the vehicle.
3. Check signal between seatback power return control unit harness connector and ground with an oscilloscope.

(+)		(–)	Signal (Reference value)
Seatback power return control unit			
Connector	Terminal		
B488	24	Ground	

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Is the inspection result normal?

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

2.CHECK VEHICLE SPEED SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect seatback power return control unit connector and combination meter connector.
3. Check continuity between seatback power return control unit harness connector and combination meter harness connector.

Seatback power return control unit		Combination meter		Continuity
Connector	Terminal	Connector	Terminal	
B488	24	M34	31	Existed

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

Seatback power return control unit		Ground	Continuity
Connector	Terminal		
B488	24		Not existed

Is the inspection result normal?

YES >> Replace combination meter. Refer to MWI-93, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

SEATBACK ANGLE LIMIT SWITCH
LH

LH : Diagnosis Procedure

INFOID:0000000009652956

1.CHECK SEATBACK ANGLE LIMIT SWITCH (LH) INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect seatback angle limit switch (LH) connector.
3. Check voltage between seatback angle limit switch (LH) harness connector and ground.

(+)		(–)	Voltage (V)
Seatback angle limit switch (LH)			
Connector	Terminal		
B500	1	Ground	9 – 16

NOTE:
It is not low power consumption mode.

Is the inspection result normal?

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

2.CHECK SEATBACK ANGLE LIMIT SWITCH (LH) CIRCUIT

1. Disconnect seatback power return control unit connector.
2. Check continuity between seatback power return control unit harness connector and seatback angle limit switch (LH) harness connector.

Seatback power return control unit		Seatback angle limit switch (LH)		Continuity
Connector	Terminal	Connector	Terminal	
B488	29	B500	1	Existed

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

Seatback power return control unit		Ground	Continuity
Connector	Terminal		
B488	29		Not existed

Is the inspection result normal?

YES >> Replace seatback power return control unit. Refer to SE-139, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK SEATBACK ANGLE LIMIT SWITCH (LH) GROUND CIRCUIT

1. Disconnect seatback power return control unit connector and sector gear position limit switch connector.
2. Check continuity between seatback power return control unit harness connector and seatback angle limit switch (LH) harness connector.

Seatback power return control unit		Seatback angle limit switch (LH)		Continuity
Connector	Terminal	Connector	Terminal	
B488	31	B500	2	Existed

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

Seatback power return control unit		Ground	Continuity
Connector	Terminal		
B488	31		Not existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK SEATBACK ANGLE LIMIT SWITCH (LH)

Check seatback angle limit switch (LH).
Refer to SE-57, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace seatback angle limit switch (LH) [reclining device assembly (LH)]. Refer to SE-122, "Exploded View".

5. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

RH

RH : Diagnosis Procedure

INFOID:0000000009652957

1. CHECK SEATBACK ANGLE LIMIT SWITCH (RH) INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect seatback angle limit switch (RH) connector.
3. Check voltage between seatback angle limit switch (RH) harness connector and ground.

(+)		(–)	Voltage (V)
Seatback angle limit switch (RH)			
Connector	Terminal		
B496	1	Ground	9 – 16

NOTE:
It is not low power consumption mode.

Is the inspection result normal?

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

2. CHECK SEATBACK ANGLE LIMIT SWITCH (RH) CIRCUIT

1. Disconnect seatback power return control unit connector.
2. Check continuity between seatback power return control unit harness connector and seatback angle limit switch (RH) harness connector.

Seatback power return control unit		Seatback angle limit switch (RH)		Continuity
Connector	Terminal	Connector	Terminal	
B488	30	B496	1	Existed

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

Seatback power return control unit		Ground	Continuity
Connector	Terminal		
B488	30		Not existed

Is the inspection result normal?

YES >> Replace seatback power return control unit. Refer to SE-139, "Removal and Installation".
NO >> Repair or replace harness.

3. CHECK SEATBACK ANGLE LIMIT SWITCH (RH) GROUND CIRCUIT

1. Disconnect seatback power return control unit connector and sector gear position limit switch connector.
2. Check continuity between seatback power return control unit harness connector and seatback angle limit switch (RH) harness connector.

Seatback power return control unit		Seatback angle limit switch (RH)		Continuity
Connector	Terminal	Connector	Terminal	
B488	23	B496	2	Existed

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

Seatback power return control unit		Ground	Continuity
Connector	Terminal		
B488	23		Not existed

Is the inspection result normal?

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

4. CHECK SEATBACK ANGLE LIMIT SWITCH (RH)

Check seatback angle limit switch (RH).
Refer to SE-57, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace seatback angle limit switch (RH) [reclining device assembly (RH)]. Refer to SE-122, "Exploded View".

5. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000009652958

COMPONENT INSPECTION

1. CHECK SEATBACK ANGLE LIMIT SWITCH

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

Terminal		Condition		Continuity
1	2	Seatback angle limit switch	While being pressed	Existed
			Other than the above	Not existed

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace seatback angle limit switch (reclining device assembly). Refer to SE-122, "Exploded View".

SEATBACK LOCK RELEASE ACTUATOR
LH
LH : Diagnosis Procedure

INFOID:0000000009652959

1.CHECK SEATBACK LOCK RELEASE ACTUATOR (LH) GROUND CIRCUIT

Check continuity between seatback lock release actuator (LH) harness connector and ground.

Seatback lock release actuator (LH)		Ground	Continuity
Connector	Terminal		
B504	2		Existed

Is the inspection result normal?

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

2.CHECK FUSE

Check 30 A fuse (#33).

Is the inspection result normal?

YES >> GO TO 3.
NO >> Replace the blown fuse after repairing affected circuit.

3.CHECK SEATBACK LOCK RELEASE ACTUATOR (LH) POWER SUPPLY 1

1. Turn ignition switch OFF.
2. Disconnect seatback lock release actuator (LH) connector.
3. Check continuity between seatback lock release actuator (LH) harness connector and ground.

(+)		(–)	Condition		Voltage (V)
Seatback lock release actuator (LH)					
Connector	Terminal				
B504	1	Ground	Third seat fold switch (LH)	While being pressed	9 – 16
				Other than the above	0

Is the inspection result normal?

YES >> Replace seatback lock release actuator (LH). Refer to SE-122, "Exploded View".
NO >> GO TO 4.

4.CHECK SEATBACK LOCK RELEASE ACTUATOR (LH) POWER SUPPLY 2

1. Disconnect seatback lock release actuator relay (LH) connector.
2. Check continuity between seatback lock release actuator relay (LH) harness connector and ground.

(+)		(–)	Voltage (V)
Seatback lock release actuator relay (LH)			
Connector	Terminal		
B503	5	Ground	9 – 16

Is the inspection result normal?

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

5.CHECK SEATBACK LOCK RELEASE ACTUATOR (LH) POWER SUPPLY CIRCUIT

1. Check continuity between seatback lock release actuator relay (LH) harness connector and seatback lock release actuator (LH) harness connector.

Seatback lock release actuator relay (LH)		Seatback lock release actuator (LH)		Continuity
Connector	Terminal	Connector	Terminal	
B503	3	B504	1	Existed

2. Check continuity between seatback lock release actuator relay (LH) harness connector and ground.

(+)		(–)	Continuity
Seatback lock release actuator relay (LH)			
Connector	Terminal		
B503	3	Ground	Not existed

Is the inspection result normal?

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

6.CHECK SEATBACK LOCK RELEASE ACTUATOR RELAY (LH)

Check seatback lock release actuator relay (LH).
Refer to SE-61, "Component Inspection (Seatback Lock Release Actuator Relay)".

Is the inspection result normal?

YES >> GO TO 7.
NO >> Replace seatback lock release actuator relay (LH).

7.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

RH

RH : Diagnosis Procedure

INFOID:0000000009652960

1.CHECK SEATBACK LOCK RELEASE ACTUATOR (RH) GROUND CIRCUIT

Check continuity between seatback lock release actuator (RH) harness connector and ground.

Seatback lock release actuator (RH)		Ground	Continuity
Connector	Terminal		
B502	2		Existed

Is the inspection result normal?

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

2.CHECK FUSE

Check 30 A fuse (#33).

Is the inspection result normal?

YES >> GO TO 3.
NO >> Replace the blown fuse after repairing affected circuit.

3.CHECK SEATBACK LOCK RELEASE ACTUATOR (RH) POWER SUPPLY 1

1. Turn ignition switch OFF.
2. Disconnect seatback lock release actuator (RH) connector.
3. Check continuity between seatback lock release actuator (RH) harness connector and ground.

(+)		(–)	Condition		Voltage (V)
Seatback lock release actuator (RH)					
Connector	Terminal				
B502	1	Ground	Third seat fold switch (RH)	While being pressed	9 – 16
				Other than the above	0

Is the inspection result normal?

YES >> Replace seatback lock release actuator (RH). Refer to SE-122, "Exploded View".
NO >> GO TO 4.

4. CHECK SEATBACK LOCK RELEASE ACTUATOR (RH) POWER SUPPLY 2

1. Disconnect seatback lock release actuator relay (RH) connector.
2. Check continuity between seatback lock release actuator relay (RH) harness connector and ground.

(+)		(–)	Voltage (V)
Seatback lock release actuator relay (RH)			
Connector	Terminal		
B501	5	Ground	9 – 16

Is the inspection result normal?

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

5. CHECK SEATBACK LOCK RELEASE ACTUATOR (RH) POWER SUPPLY CIRCUIT

1. Check continuity between seatback lock release actuator relay (RH) harness connector and seatback lock release actuator (RH) harness connector.

Seatback lock release actuator relay (RH)		Seatback lock release actuator (RH)		Continuity
Connector	Terminal	Connector	Terminal	
B501	3	B502	1	Existed

2. Check continuity between seatback lock release actuator relay (RH) harness connector and ground.

(+)		(–)	Continuity
Seatback lock release actuator relay (RH)			
Connector	Terminal		
B501	3	Ground	Not existed

Is the inspection result normal?

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

6. CHECK SEATBACK LOCK RELEASE ACTUATOR RELAY (RH)

Check seatback lock release actuator relay (RH).
Refer to SE-61, "Component Inspection (Seatback Lock Release Actuator Relay)".

Is the inspection result normal?

YES >> GO TO 7.
NO >> Replace seatback lock release actuator relay (RH).

7. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

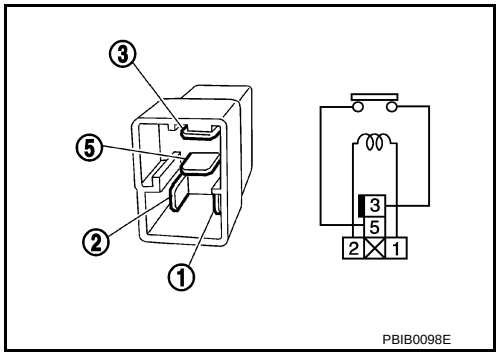
Component Inspection (Seatback Lock Release Actuator Relay)

INFOID:0000000009652961

1. CHECK SEATBACK LOCK ACCTUATOR RELAY

1. Turn ignition switch OFF.
2. Remove seatback lock actuator relay.
3. Check seatback lock actuator relay terminals under the following conditions.

Terminal		Condition	Continuity
3	5	12 V direct current supply between terminals 1 and 2.	Existed
		Not current supply	Not existed



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Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace seatback lock actuator relay.

SECTOR GEAR POSITION LIMIT SWITCH
LH

LH : Diagnosis Procedure

INFOID:0000000009652962

1.CHECK SECTOR GEAR POSITION LIMIT SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect sector gear position limit switch (LH) connector.
3. Check voltage between sector gear position limit switch (LH) connector and ground.

(+)		(–)	Voltage (V)
Sector gear position limit switch (LH)			
Connector	Terminal		
B499	1	Ground	9 – 16

NOTE:
It is not low electric power consumption mode.

Is the inspection result normal?

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

2.CHECK SECTOR GEAR POSITION LIMIT SWITCH (LH) SIGNAL CIRCUIT

1. Disconnect seatback power return control unit connector.
2. Check continuity between seatback power return control unit harness connector and sector gear position limit switch (LH) harness connector.

Seatback power return control unit		Sector gear position limit switch (LH)		Continuity
Connector	Terminal	Connector	Terminal	
B488	21	B499	1	Existed

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

Seatback power return control unit		Ground	Continuity
Connector	Terminal		
B488	21		Not existed

Is the inspection result normal?

YES >> Replace seatback power return control unit. Refer to SE-139, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK SECTOR GEAR POSITION LIMIT SWITCH (LH) GROUND CIRCUIT

1. Disconnect seatback power return control unit connector and seatback angle limit switch (LH) connector.
2. Check continuity between seatback power return control unit harness connector and sector gear position limit switch (LH) harness connector.

Seatback power return control unit		Sector gear position limit switch (LH)		Continuity
Connector	Terminal	Connector	Terminal	
B488	31	B499	2	Existed

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

Seatback power return control unit		Ground	Continuity
Connector	Terminal		
B488	31		Not existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK SECTOR GEAR POSITION LIMIT SWITCH (LH)

Check sector gear position limit switch (LH).
Refer to SE-64, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace sector gear position limit switch (LH) [reclining device assembly (LH)]. Refer to SE-122, "Exploded View".

5. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

RH

RH : Diagnosis Procedure

INFOID:0000000009652963

1. CHECK SECTOR GEAR POSITION LIMIT SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect sector gear position limit switch (RH) connector.
3. Check voltage between sector gear position limit switch (RH) connector and ground.

(+)		(–)	Voltage (V)
Sector gear position limit switch (RH)			
Connector	Terminal		
B495	1	Ground	9 – 16

NOTE:
It is not low electric power consumption mode.

Is the inspection result normal?

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

2. CHECK SECTOR GEAR POSITION LIMIT SWITCH (RH) SIGNAL CIRCUIT

1. Disconnect seatback power return control unit connector.
2. Check continuity between seatback power return control unit harness connector and sector gear position limit switch (RH) harness connector.

Seatback power return control unit		Sector gear position limit switch (RH)		Continuity
Connector	Terminal	Connector	Terminal	
B488	22	B495	1	Existed

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

Seatback power return control unit		Ground	Continuity
Connector	Terminal		
B488	22		Not existed

Is the inspection result normal?

YES >> Replace seatback power return control unit. Refer to SE-139, "Removal and Installation".
NO >> Repair or replace harness.

3. CHECK SECTOR GEAR POSITION LIMIT SWITCH (RH) GROUND CIRCUIT

1. Disconnect seatback power return control unit connector and seatback angle limit switch (RH) connector.
2. Check continuity between seatback power return control unit harness connector and sector gear position limit switch (RH) harness connector.

Seatback power return control unit		Sector gear position limit switch (RH)		Continuity
Connector	Terminal	Connector	Terminal	
B488	23	B495	2	Existed

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

Seatback power return control unit		Ground	Continuity
Connector	Terminal		
B488	23		Not existed

Is the inspection result normal?

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

4. CHECK SECTOR GEAR POSITION LIMIT SWITCH (RH)

Check sector gear position limit switch (RH).
Refer to SE-64, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace sector gear position limit switch (RH) [reclining device assembly (RH)]. Refer to SE-122, "Exploded View".

5. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000009652964

COMPONENT INSPECTION

1. CHECK SECTOR GEAR POSITION LIMIT SWITCH

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

Terminal		Condition		Continuity
1	2	Sector gear position limit switch	While being pressed	Existed
			Other than the above	Not existed

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace sector gear limit switch (reclining device assembly). Refer to SE-122, "Exploded View".

POWER RETURN MOTOR

LH

LH : Diagnosis Procedure

INFOID:0000000009652965

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)
Power return motor assembly (LH)					
Connector	Terminal				
B498	1	Ground	Power return motor assembly (LH)	Reverse operation	9 – 16
				Other than the above	0 – 0.5
	5			Return operation	9 – 16
				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 seatback power return control unit connector and power return motor assembly (LH) connector.
2. Check continuity between seatback power return control unit harness connector and power return motor assembly (LH) harness connector.

Seatback power return control unit		Power return motor assembly (LH)		Continuity
Connector	Terminal	Connector	Terminal	
B487	5	B498	1	Existed
	6		5	

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

Seatback power return control unit		Ground	Continuity
Connector	Terminal		
B487	5		Not existed
	6		

Is the inspection result normal?

YES >> Replace seatback power return control unit. Refer to SE-139, "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) [reclining device assembly (LH)]. Refer to SE-122, "Exploded View".
NO >> Repair or replace harness.

RH

RH : Diagnosis Procedure

INFOID:0000000009652966

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 (V)
Power return motor assembly (RH)					
Connector	Terminal				
B494	1	Ground	Power return motor assembly (RH)	Reverse operation	9 – 16
				Other than the above	0 – 0.5
	5			Return operation	9 – 16
				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 seatback power return control unit connector and power return motor assembly (RH) connector.
2. Check continuity between seatback power return control unit harness connector and power return motor assembly (RH) harness connector.

Seatback power return control unit		Power return motor assembly (RH)		Continuity
Connector	Terminal	Connector	Terminal	
B487	7	B494	1	Existed
	8		5	

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

Seatback power return control unit		Ground	Continuity
Connector	Terminal		
B487	7		Not existed
	8		

Is the inspection result normal?

YES >> Replace seatback power return control unit. Refer to SE-139, "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) [reclining device assembly (RH)]. Refer to SE-122, "Exploded View".
NO >> Repair or replace harness.

MOTOR SENSOR
LH

LH : Diagnosis Procedure

INFOID:0000000009652967

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)
Power return motor assembly (LH)				
Connector	Terminal			
B498	6	Ground	When power return motor (LH) is operated	9 – 16

Is the inspection result normal?

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

2.CHECK MOTOR SENSOR (LH) POWER SUPPLY CIRCUIT

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

Seatback power return control unit		Power return motor assembly (LH)		Continuity
Connector	Terminal	Connector	Terminal	
B487	11	B498	6	Existed

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

Seatback power return control unit		Ground	Continuity
Connector	Terminal		
B487	11		Not existed

Is the inspection result normal?

YES >> Replace seatback power return control unit. Refer to SE-139, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK MOTOR SENSOR (LH) GROUND CIRCUIT

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

Seatback power return control unit		Power return motor assembly (LH)		Continuity
Connector	Terminal	Connector	Terminal	
B487	9	B498	4	Existed

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

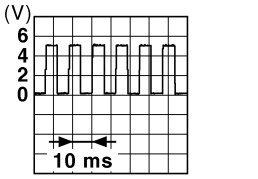
Seatback power return control unit		Ground	Continuity
Connector			
B487	9		Not existed

Is the inspection result normal?

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

4.CHECK MOTOR SENSOR (LH) OUTPUT SIGNAL

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

(+)		(–)	Condition	Signal (Reference value)
Seatback power return control unit				
Connector	Terminal			
B487	10	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 seatback power return control unit connector.
2. Check continuity between power return motor assembly (LH) harness connector and seatback power return control unit harness connector.

Seatback power return control unit		Power return motor assembly (LH)		Continuity
Connector	Terminal	Connector	Terminal	
B487	10	B498	3	Existed

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

Seatback power return control unit		Ground	Continuity
Connector	Terminal		
B487	10		Not existed

Is the inspection result normal?

YES >> Replace power return motor assembly (LH) [reclining device assembly (LH)]. Refer to SE-122, "Exploded View".
NO >> Repair or replace harness.

6. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

RH

RH : Diagnosis Procedure

INFOID:0000000009652968

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)
Power return motor assembly (RH)				
Connector	Terminal			
B494	6	Ground	When power return motor (RH) is operated	9 – 16

Is the inspection result normal?

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

2.CHECK MOTOR SENSOR (RH) POWER SUPPLY CIRCUIT

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

Seatback power return control unit		Power return motor assembly (RH)		Continuity
Connector	Terminal	Connector	Terminal	
B487	3	B494	6	Existed

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

Seatback power return control unit		Ground	Continuity
Connector	Terminal		
B487	3		Not existed

Is the inspection result normal?

YES >> Replace seatback power return control unit. Refer to SE-139, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK MOTOR SENSOR (RH) GROUND CIRCUIT

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

Seatback power return control unit		Power return motor assembly (RH)		Continuity
Connector	Terminal	Connector	Terminal	
B487	1	B494	4	Existed

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

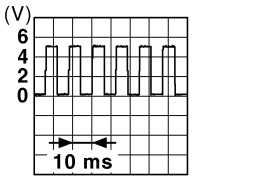
Seatback power return control unit		Ground	Continuity
Connector			
B487	1		Not existed

Is the inspection result normal?

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

4.CHECK MOTOR SENSOR (RH) OUTPUT SIGNAL

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

(+)		(–)	Condition	Signal (Reference value)
Seatback power return control unit				
Connector	Terminal			
B487	2	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 seatback power return control unit connector.
2. Check continuity between power return motor assembly (RH) harness connector and seatback power return control unit harness connector.

Seatback power return control unit		Power return motor assembly (RH)		Continuity
Connector	Terminal	Connector	Terminal	
B487	2	B494	3	Existed

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

Seatback power return control unit		Ground	Continuity
Connector	Terminal		
B487	2		Not existed

Is the inspection result normal?

YES >> Replace power return motor assembly (RH) [reclining device assembly (RH)]. Refer to SE-122, "Exploded View".
NO >> Repair or replace harness.

6. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

SYMPTOM DIAGNOSIS

SEATBACK DOES NOT OPERATE POWER RETURN

BOTH SIDES

BOTH SIDES : Diagnosis Procedure

INFOID:0000000009652969

1. CHECK POWER SUPPLY AND GROUND CIRCUIT

Check power supply and ground circuit.
Refer to SE-48, "Diagnosis Procedure".

Is the inspection result normal?

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

2. CHECK VEHICLE SPEED SIGNAL CIRCUIT

Check vehicle speed signal circuit.
Refer toSE-54, "Diagnosis Procedure".

Is the inspection result normal?

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

3. CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".
NO >> GO TO 1.

LH

LH : Diagnosis Procedure

INFOID:0000000009652970

1. CHECK THIRD SEAT FOLD SWITCH (LH)

Check third seat fold switch (LH).
Refer to SE-49, "LH : Component Function Check".

Is the inspection result normal?

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

2. CHECK POWER RETURN MOTOR (LH)

Check power return motor (LH).
Refer to SE-65, "LH : Diagnosis Procedure".

Is the inspection result normal?

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

3. CHECK SEATBACK ANGLE LIMIT SWITCH (LH)

Check seatback angle limit switch (LH).
Refer to SE-55, "LH : Diagnosis Procedure".

Is the inspection result normal?

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

4. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

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

NO >> GO TO 1.

RH

RH : Diagnosis Procedure

INFOID:0000000009652971

1.CHECK THIRD SEAT FOLD SWITCH (RH)

Check third seat fold switch (RH).
Refer to SE-51, "RH : Component Function Check".

Is the inspection result normal?

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

2.CHECK POWER RETURN MOTOR (RH)

Check power return motor (RH).
Refer to SE-65, "RH : Diagnosis Procedure".

Is the inspection result normal?

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

3.CHECK SEATBACK ANGLE LIMIT SWITCH (RH)

Check seatback angle limit switch (RH).
Refer to SE-56, "RH : Diagnosis Procedure".

Is the inspection result normal?

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

4.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".
NO >> GO TO 1.

DOES NOT RETURN BUT MALFUNCTION DETECTION BUZZER SOUNDS

LH

LH : Diagnosis Procedure

INFOID:0000000009652972

1. CHECK SECTOR GEAR POSITION LIMIT SWITCH (LH)

Check sector gear position limit switch (LH).
Refer to SE-62, "LH : Diagnosis Procedure".

Is the inspection result normal?

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

2. CHECK MOTOR SENSOR (LH)

Check motor sensor (LH).
Refer to SE-67, "LH : Diagnosis Procedure".

Is the inspection result normal?

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

3. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".
NO >> GO TO 1.

RH

RH : Diagnosis Procedure

INFOID:0000000009652973

1. CHECK SECTOR GEAR POSITION LIMIT SWITCH (RH)

Check sector gear position limit switch (RH).
Refer to SE-63, "RH : Diagnosis Procedure".

Is the inspection result normal?

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

2. CHECK MOTOR SENSOR (RH)

Check motor sensor (RH).
Refer to SE-68, "RH : Diagnosis Procedure".

Is the inspection result normal?

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

3. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".
NO >> GO TO 1.

SEATBACK DOES NOT FOLD DOWN BY SWITCH OPERATION BOTH SIDES

BOTH SIDES : Diagnosis Procedure

INFOID:0000000009652974

1.CHECK POWER SUPPLY AND GROUND CIRCUIT

Check power supply and ground circuit.
Refer to SE-48, "Diagnosis Procedure".

Is the inspection result normal?

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

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".
NO >> GO TO 1.

LH

LH : Diagnosis Procedure

INFOID:0000000009652975

1.CHECK THIRD SEAT FOLD SWITCH (LH)

Check third seat fold switch (LH).
Refer to SE-49, "LH : Component Function Check".

Is the inspection result normal?

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

2.CHECK SEATBACK LOCK RELEASE ACTUATOR (LH)

Check seatback lock release actuator (LH).
Refer to SE-58, "LH : Diagnosis Procedure".

Is the inspection result normal?

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

3.CONFIRM THE OPERATION.

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".
NO >> GO TO 1.

RH

RH : Diagnosis Procedure

INFOID:0000000009652976

1.CHECK THIRD SEAT FOLD SWITCH (RH)

Check third seat fold switch (RH).
Refer to SE-51, "RH : Component Function Check".

Is the inspection result normal?

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

2.CHECK SEATBACK LOCK RELEASE ACTUATOR (RH)

Check seatback lock release actuator (RH).
Refer to SE-59, "RH : Diagnosis Procedure".

Is the inspection result normal?

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

3. CONFIRM THE OPERATION.

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".
NO >> GO TO 1.

MALFUNCTION DETECTION BUZZER SOUNDS DURING POWER RETURN MOTOR INVERSE ROTATION

LH

LH : Diagnosis Procedure

INFOID:0000000009652977

1.CHECK SEATBACK ANGLE LIMIT SWITCH (LH)

Check seatback angle limit switch (LH).
Refer to SE-55, "LH : Diagnosis Procedure".

Is the inspection result normal?

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

2.CHECK SECTOR GEAR POSITION LIMIT SWITCH (LH)

Check sector gear position limit switch (LH).
Refer to SE-62, "LH : Diagnosis Procedure".

Is the inspection result normal?

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

3.CHECK POWER RETURN MOTOR (LH)

Check power return motor (LH).
Refer to SE-65, "LH : Diagnosis Procedure".

Is the inspection result normal?

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

4.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".
NO >> GO TO 1.

RH

RH : Diagnosis Procedure

INFOID:0000000009652978

1.CHECK SEATBACK ANGLE LIMIT SWITCH (RH)

Check seatback angle limit switch (RH).
Refer to SE-56, "RH : Diagnosis Procedure".

Is the inspection result normal?

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

2.CHECK SECTOR GEAR POSITION LIMIT SWITCH (RH)

Check sector gear position limit switch (RH).
Refer to SE-64, "Component Inspection".

Is the inspection result normal?

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

3.CHECK POWER RETURN MOTOR (RH)

Check power return motor (RH).
Refer to SE-65, "RH : Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

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

NO >> GO TO 1.

ANTI-PINCH FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000009652979

1.CHECK MOTOR SENSOR (LH)

Check motor sensor (LH).
Refer to SE-67, "LH : Diagnosis Procedure".

Is the inspection result normal?

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

2.CHECK MOTOR SENSOR (RH)

Check motor sensor (RH).
Refer to SE-68, "RH : Diagnosis Procedure".

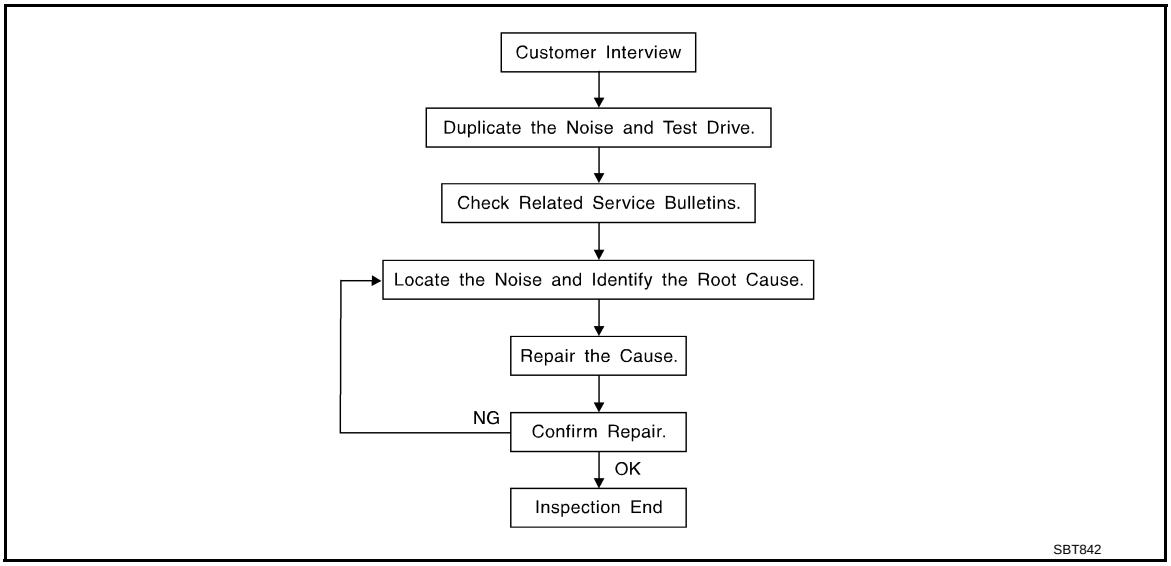
Is the inspection result normal?

YES >> Replace seatback power return control unit. Refer to SE-139, "Removal and Installation".
NO >> Repair or replace the malfunctioning parts.

SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow

INFOID:0000000009652980



CUSTOMER INTERVIEW

Interview the customer if possible, to determine the conditions that exist when the noise occurs. Use the Diagnostic Worksheet during the interview to document the facts and conditions when the noise occurs and any of customer's comments; refer to SE-83, "Diagnostic Worksheet". This information is necessary to duplicate the conditions that exist when the noise occurs.

- The customer may not be able to provide a detailed description or the location of the noise. Attempt to obtain all the facts and conditions that exist when the noise occurs (or does not occur).
- If there is more than one noise in the vehicle, perform a diagnosis and repair the noise that the customer is concerned about. This can be accomplished by performing a cruise test on the vehicle with the customer.
- After identifying the type of noise, isolate the noise in terms of its characteristics. The noise characteristics are provided so the customer, service adviser and technician are all speaking the same language when defining the noise.
- Squeak – (Like tennis shoes on a clean floor)
  Squeak characteristics include the light contact/fast movement/brought on by road conditions/hard surfaces = higher pitch noise/softer surfaces = lower pitch noises/edge to surface = chirping
- Creak – (Like walking on an old wooden floor)
  Creak characteristics include firm contact/slow movement/twisting with a rotational movement/pitch dependent on materials/often brought on by activity.
- Rattle – (Like shaking a baby rattle)
  Rattle characteristics include the fast repeated contact/vibration or similar movement/loose parts/missing clip or fastener/incorrect clearance.
- Knock – (Like a knock on a door)
  Knock characteristics include hollow sounding/sometimes repeating/often brought on by driver action.
- Tick – (Like a clock second hand)
  Tick characteristics include gentle contacting of light materials/loose components/can be caused by driver action or road conditions.
- Thump – (Heavy, muffled knock noise)
  Thump characteristics include softer knock/dead sound often brought on by activity.
- Buzz – (Like a bumblebee)
  Buzz characteristics include high frequency rattle/firm contact.
- Often the degree of acceptable noise level will vary depending up on the person. A noise that a technician may judge as acceptable may be very irritating to the customer.
- Weather conditions, especially humidity and temperature, may have a great effect on noise level.

DUPLICATE THE NOISE AND TEST DRIVE

If possible, drive the vehicle with the customer until the noise is duplicated. Note any additional information on the Diagnostic Worksheet regarding the conditions or location of the noise. This information can be used to duplicate the same conditions when the repair is reconfirmed.

If the noise can be duplicated easily during the test drive, to help identify the source of the noise, try to duplicate the noise with the vehicle stopped by doing one or all of the following:

1) Close a door.
2) Tap or push/pull around the area where the noise appears to be coming from.
3) Rev the engine.
4) Use a floor jack to recreate vehicle “twist”.
5) At idle, apply engine load (electrical load, half-clutch on M/T models, drive position on A/T models).
6) Raise the vehicle on a hoist and hit a tire with a rubber hammer.

- Drive the vehicle and attempt to duplicate the conditions the customer states exist when the noise occurs.
- If it is difficult to duplicate the noise, drive the vehicle slowly on an undulating or rough road to stress the vehicle body.

CHECK RELATED SERVICE BULLETINS

After verifying the customer concern or symptom, check ASIST for Technical Service Bulletins (TSBs) related to that concern or symptom.
If a TSB relates to the symptom, follow the procedure to repair the noise.

LOCATE THE NOISE AND IDENTIFY THE ROOT CAUSE

1. Narrow down the noise to a general area. To help pinpoint the source of the noise, use a listening tool (Chassis ear: J-39570, Engine ear and mechanics stethoscope).
2. Narrow down the noise to a more specific area and identify the cause of the noise by:

- Removing the components in the area that is are suspected to be the cause of the noise.
  Do not use too much force when removing clips and fasteners, otherwise clips and fastener can be broken or lost during the repair, resulting in the creation of new noise.
- Tapping or pushing/pulling the component that is are suspected to be the cause of the noise.
  Do not tap or push/pull the component with excessive force, otherwise the noise will be eliminated only temporarily.
- Feeling for a vibration by hand by touching the component(s) that is are suspected to be the cause of the noise.
- Placing a piece of paper between components that are suspected to be the cause of the noise.
- Looking for loose components and contact marks.
  Refer to SE-81, "Inspection Procedure".

REPAIR THE CAUSE

- If the cause is a loose component, tighten the component securely.
- If the cause is insufficient clearance between components:

- Separate components by repositioning or loosening and retightening the component, if possible.
- Insulate components with a suitable insulator such as urethane pads, foam blocks, felt cloth tape or urethane tape. A Nissan Squeak and Rattle Kit (J-50397) is available through the authorized Nissan Parts Department.

CAUTION:
Never use excessive force as many components are constructed of plastic and may be damaged.
NOTE:
Always check with the Parts Department for the latest parts information.
The following materials are contained in the Nissan Squeak and Rattle Kit (J-50397). are listed on the inside cover of the kit, and can each be ordered separately as needed.
URETHANE PADS [1.5 mm (0.059 in) thick]
Insulates connectors, harness, etc.
76268-9E005: 100 × 135 mm (3.94 × 5.31 in)/76884-71L01: 60 × 85 mm (2.36 × 3.35 in)/76884-71L02:15 × 25 mm (0.59 × 0.98 in)
INSULATOR (Foam blocks)
Insulates components from contact. Can be used to fill space behind a panel.
73982-9E000: 45 mm (1.77 in) thick, 50 × 50 mm (1.97 × 1.97 in)/73982-50Y00: 10 mm (0.39 in) thick, 50 × 50 mm (1.97 × 1.97 in)
INSULATOR (Light foam block)
80845-71L00: 30 mm (1.18 in) thick, 30 × 50 mm (1.18 × 1.97in)
FELT CLOTHTAPE
Used to insulate where movement does not occur. Ideal for instrument panel applications.
68370-4B000: 15 × 25 mm (0.59 × 0.98 in) pad/68239-13E00: 5 mm (0.20 in) wide tape roll
The following materials, not found in the kit, can also be used to repair squeaks and rattles.
UHMW (TEFLON) TAPE

Insulates where slight movement is present. Ideal for instrument panel applications.
SILICONE GREASE
Used in place of UHMW tape that is be visible or does not fit. Will only last a few months.
SILICONE SPRAY
Used when grease cannot be applied.
DUCT TAPE
Used to eliminate movement.

CONFIRM THE REPAIR

Confirm that the cause of a noise is repaired by test driving the vehicle. Operate the vehicle under the same conditions as when the noise originally occurred. Refer to the notes on the Diagnostic Worksheet.

Inspection Procedure

INFOID:0000000009652981

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

INSTRUMENT PANEL

Most incidents are caused by contact and movement between:

1. The cluster lid A and instrument panel
2. Acrylic lens and combination meter housing
3. Instrument panel to front pillar garnish
4. Instrument panel to windshield
5. Instrument panel mounting pins
6. Wiring harnesses behind the combination meter
7. A/C defroster duct and duct joint
   These incidents can usually be located by tapping or moving the components to duplicate the noise or by pressing on the components while driving to stop the noise. Most of these incidents can be repaired by applying felt cloth tape or silicon spray (in hard to reach areas). Urethane pads can be used to insulate wiring harness.
   CAUTION:
   Never use silicone spray to isolate a squeak or rattle. If the area is saturated with silicone, the recheck of repair becomes impossible.

CENTER CONSOLE

Components to pay attention to include:

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

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

DOORS

Pay attention to the following:

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

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

TRUNK

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

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

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

SUNROOF/HEADLINING

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

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

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

SEATS

When isolating seat noise it's important to note the position the seats in and the load placed on the seat when the noise occurs. These conditions should be duplicated when verifying and isolating the cause of the noise.
Cause of seat noise include:

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

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

UNDERHOOD

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

1. Any component mounted to the engine wall
2. Components that pass through the engine wall
3. Engine wall mounts and connectors
4. Loose radiator mounting pins
5. Hood bumpers out of adjustment
6. Hood striker out of adjustment

These noises can be difficult to isolate since they cannot be reached from the interior of the vehicle. The best method is to secure, move or insulate one component at a time and test drive the vehicle. Also, engine RPM or load can be changed to isolate the noise. Repairs can usually be made by moving, adjusting, securing, or insulating the component causing the noise.

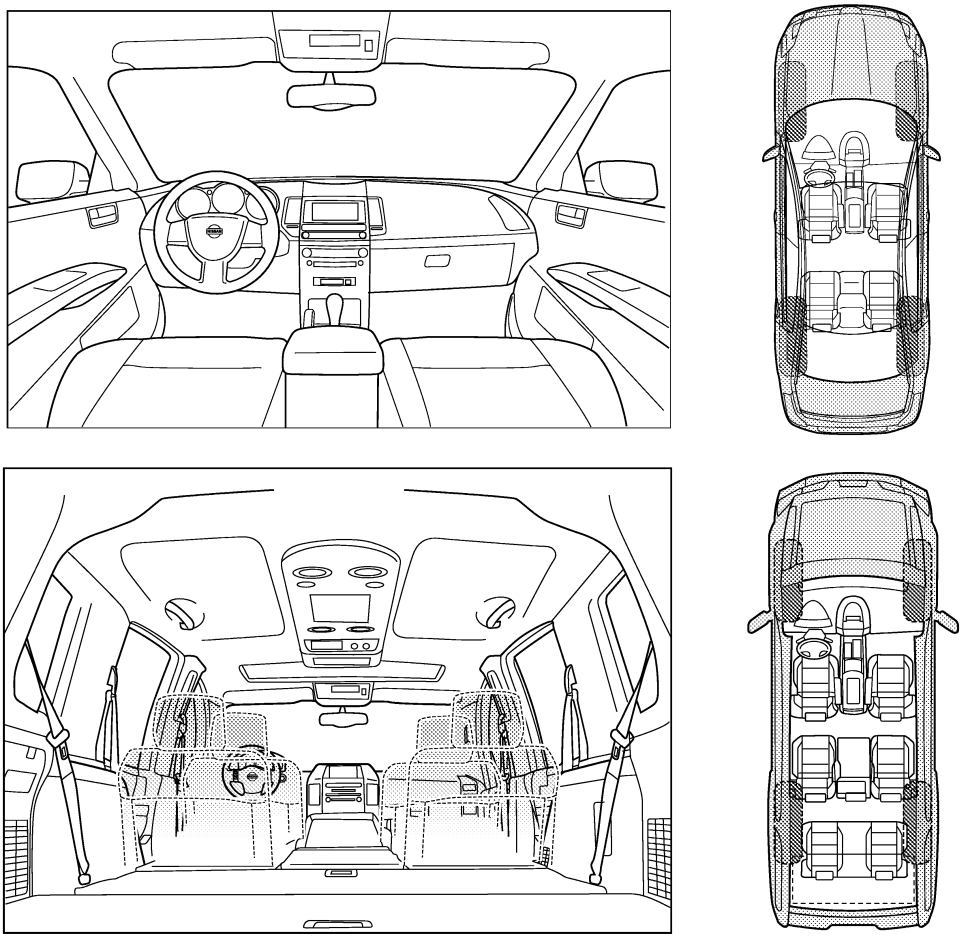
Diagnostic Worksheet

INFOID:0000000009652982

SQUEAK & RATTLE
DIAGNOSTIC WORKSHEET

Dear Nissan Customer:
We are concerned about your satisfaction with your Nissan vehicle. Repairing a squeak or rattle sometimes can be very difficult. To help us fix your Nissan 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.

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.

PIIB8740E

SQUEAK & RATTLE DIAGNOSTIC WORKSHEET - page 2

Briefly describe the location where the noise occurs:

_____

_____

II. WHEN DOES IT OCCUR? (please check the boxes that apply)

- ☐ anytime
- ☐ 1st time in the morning
- ☐ only when it is cold outside
- ☐ only when it is hot outside
- ☐ after sitting out in the rain
- ☐ when it is raining or wet
- ☐ dry or dusty conditions
- ☐ other:

III. WHEN DRIVING:

- ☐ through driveways
- ☐ over rough roads
- ☐ over speed bumps
- ☐ only about ____ mph
- ☐ on acceleration
- ☐ coming to a stop
- ☐ on turns: left, right or either (circle)
- ☐ with passengers or cargo
- ☐ other: _____
- ☐ after driving _____ miles or _____ minutes

IV. WHAT TYPE OF NOISE

- ☐ squeak (like tennis shoes on a clean floor)
- ☐ creak (like walking on an old wooden floor)
- ☐ rattle (like shaking a baby rattle)
- ☐ knock (like a knock at the door)
- ☐ tick (like a clock second hand)
- ☐ thump (heavy, muffled knock noise)
- ☐ buzz (like a bumble bee)

TO BE COMPLETED BY DEALERSHIP PERSONNEL

Test Drive Notes:

_____

_____

_____

	YES	NO	Initials of person performing
Vehicle test driven with customer	☐	☐	_____
- Noise verified on test drive	☐	☐	_____
- Noise source located and repaired	☐	☐	_____
- Follow up test drive performed to confirm repair	☐	☐	_____

VIN: _____ Customer Name: _____

W.O.# _____ Date: _____

This form must be attached to Work Order

PIIB8742E

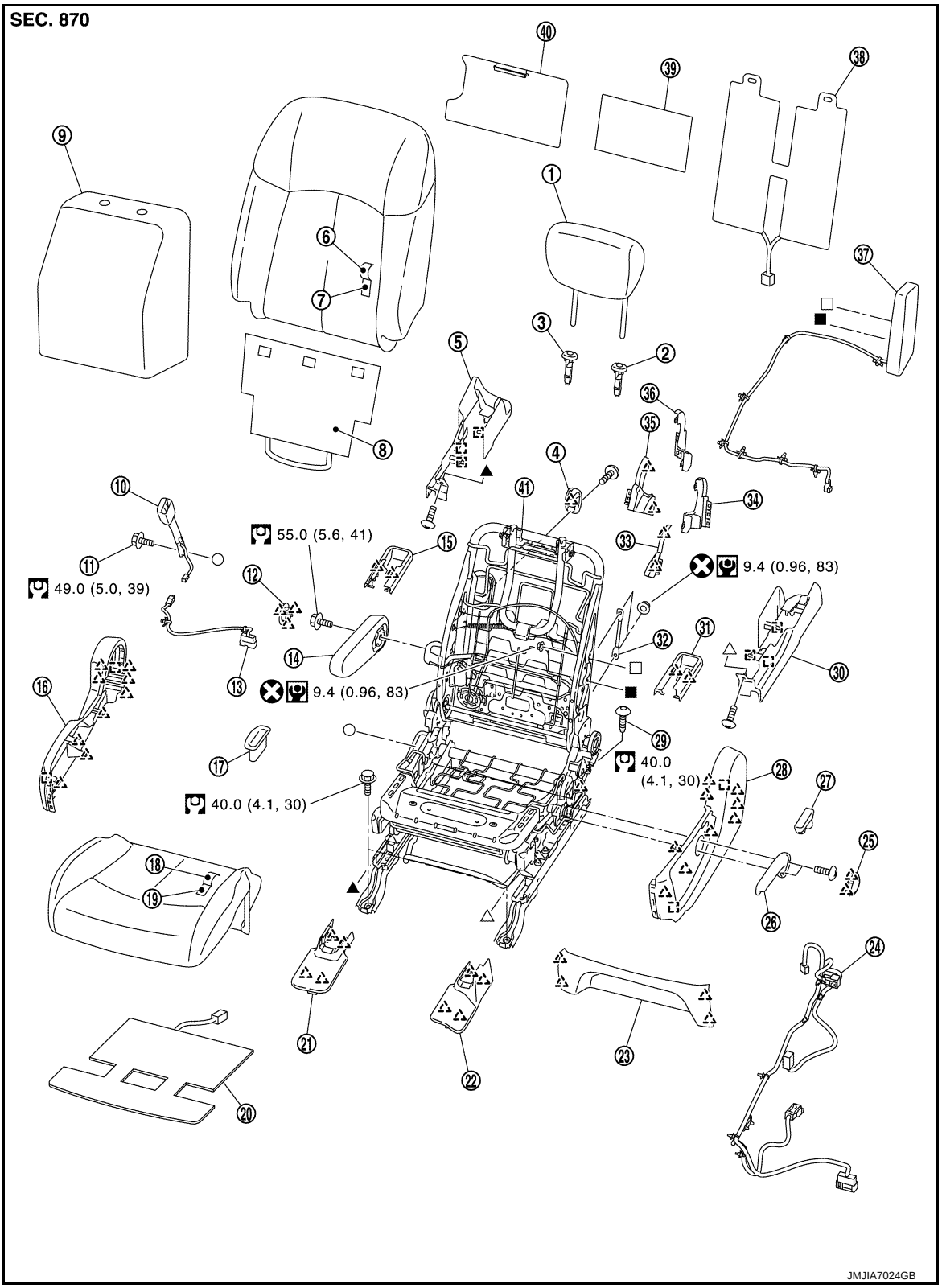
REMOVAL AND INSTALLATION

FRONT SEAT (MANUAL SEAT)

Exploded View

INFOID:0000000009652983

DRIVER SEAT



1. Headrest
2. Headrest holder (locked)
3. Headrest holder (free)
4. Seatback hook assembly
5. Lower inner finisher
6. Seatback trim
7. Seatback pad
8. Seatback lower carpet
9. Seatback silencer
10. Seat belt buckle
11. Anchor bolt
12. Armrest cap
13. Seat belt buckle harness
14. Armrest assembly
15. Seat slide rear inner cover
16. Seat cushion inner finisher
17. Seat belt buckle trim
18. Seat cushion trim
19. Seat cushion pad
20. Seat cushion heater unit*
21. Seat slide front inner cover
22. Seat slide front outer cover
23. Seat cushion finisher
24. Seat harness assembly
25. Seat lifter lever knob cap
26. Seat lifter lever knob
27. Seat reclining lever knob
28. Seat cushion outer finisher
29. TORX bolt
30. Lower outer finisher
31. Seat slide rear outer cover
32. Side air bag rod
33. Reclining device outer cover (front)
34. Reclining device outer cover (rear)
35. Reclining device inner cover (front)
36. Reclining device inner cover (rear)
37. Side air bag module
38. Seatback heater unit*
39. Seatback felt
40. Seatback board
41. Seat frame & adjuster assembly

: Pawl

: Metal clip

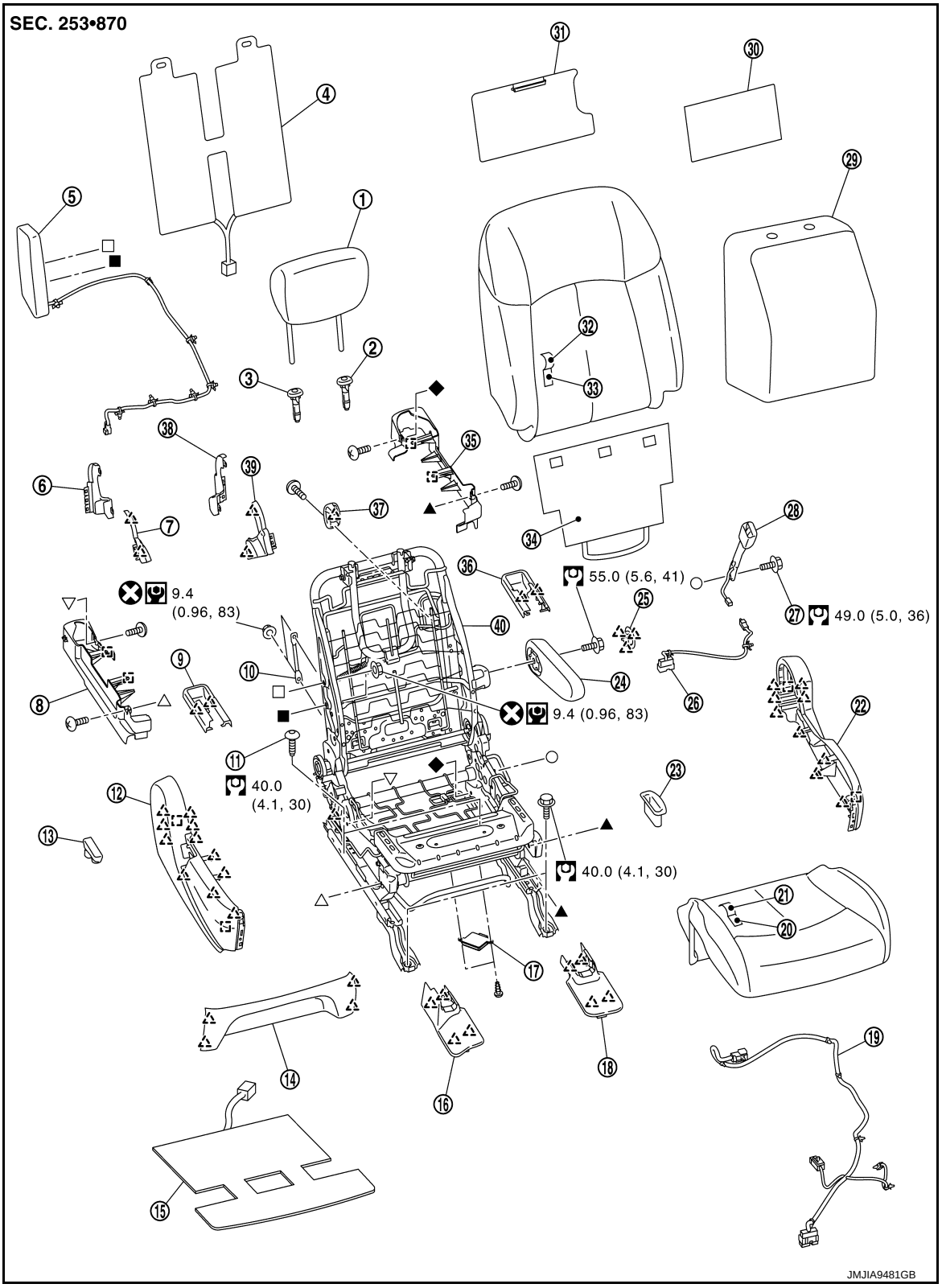
: Always replace after every disassembly.

: N·m (kg-m, in-lb)

: N·m (kg-m, ft-lb)

*: Only for seat with heater unit.

PASSENGER SEAT



1. Headrest
2. Headrest holder (locked)
3. Headrest holder (free)
4. Seatback heater unit*
5. Side air bag module
6. Reclining device outer cover (rear)
7. Reclining device outer cover (front)
8. Lower outer finisher
9. Seat slide rear outer cover
10. Side air bag rod
11. TORX bolt
12. Seat cushion outer finisher
13. Seat reclining lever knob
14. Seat cushion finisher
15. Seat cushion heater unit*

16. Seat slide front outer cover
17. Occupant detection system control unit
18. Seat slide front inner cover
19. Seat harness assembly
20. Seat cushion pad
21. Seat cushion trim
22. Seat cushion inner finisher
23. Seat belt buckle trim
24. Armrest assembly
25. Armrest cap
26. Seat belt buckle harness
27. Anchor bolt
28. Seat belt buckle
29. Seatback silencer
30. Seatback felt
31. Seatback board
32. Seatback trim
33. Seatback pad
34. Seatback lower carpet
35. Lower inner finisher
36. Seat slide rear inner cover
37. Seatback hook assembly
38. Reclining device inner cover (rear)
39. Reclining device inner cover (front)
40. Seat frame & adjuster assembly

: Pawl

: Metal clip

: Always after every disassembly.

: N·m (kg-m, in-lb)

: N·m (kg-m, ft-lb)

*: Only for seat with heater unit.

Removal and Installation

INFOID:0000000009652984

REMOVAL

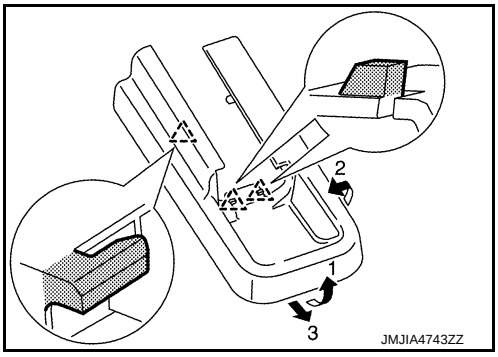
WARNING:

Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait 3 minutes or more.

1. Remove headrest.
2. Operate seat slide lever and slide seat to the frontmost position.
3. Remove seat slide rear outer cover.

a. Disengage pawls on the rear side of seat slide rear outer cover.
b. Disengage pawls on the front side of seat slide rear outer cover.
c. Slide seat slide rear outer cover to the rear side to remove.

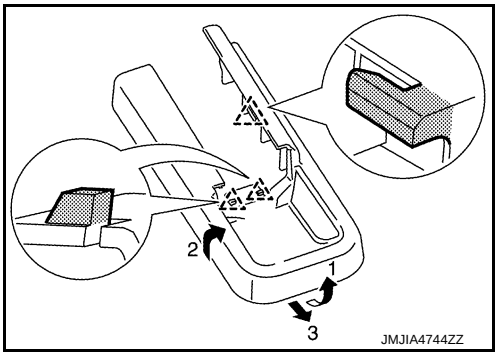
: Pawl



4. Remove seat slide rear inner cover.

a. Disengage pawls on the rear side of seat slide rear inner cover.
b. Disengage pawls on the front side of seat slide rear inner cover.
c. Slide seat slide rear inner cover to the rear side to remove.

: Pawl



5. Remove rear outer mounting TORX bolt.
6. Remove rear inner mounting TORX bolt.
7. Operate seat slide lever and slide seat to the rearmost position.

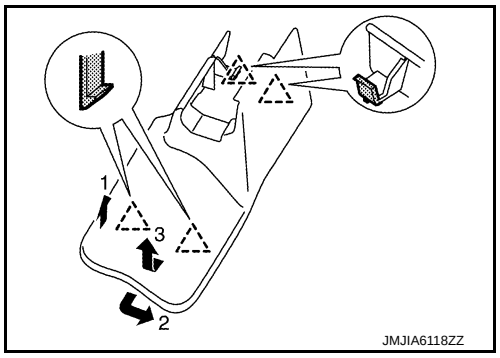
8. Remove seat slide front outer cover.

a. Disengage pawls on the front side of seat slide front outer cover.

b. Disengage pawls on the rear side of seat slide front outer cover.

c. Slide seat slide front outer cover to the front side while lifting it upward to remove.

: Pawl



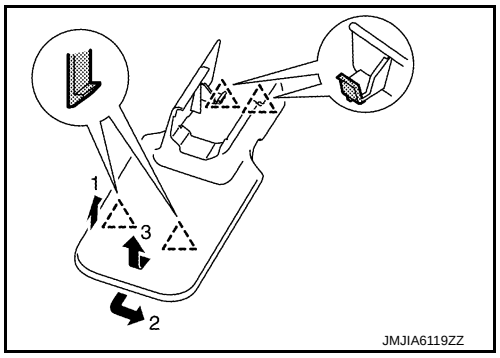
9. Remove seat slide front inner cover.

a. Disengage pawls on the front side of seat slide front inner cover.

b. Disengage pawls on the rear side of seat slide front inner cover.

c. Slide seat slide front inner cover to the front side while lifting it upward to remove.

: Pawl



10. Remove front outer mounting bolt.
11. Remove front inner mounting bolt.
12. Operate seat reclining lever and set the seatback vertically.
13. Disconnect seat cushion lower harness connector, and then remove harness fixing clips.

WARNING:
Never insert foreign materials, such as a screwdriver, into air bag module connector. (This is to prevent accidental activation caused by static electricity.)
CAUTION:
Before performing removal operation, check the installation position of harness connectors and harness fixing clamps.

14. Remove seat from the vehicle.

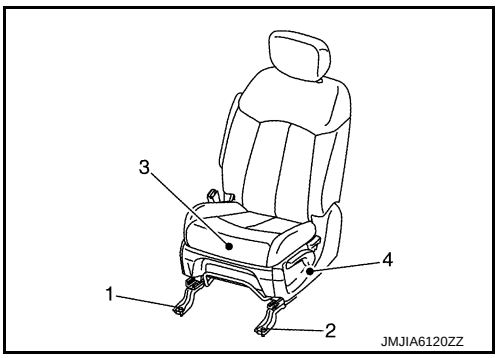
CAUTION:
When removing and installing, use shop cloths to protect parts from damage.

INSTALLATION

Note the following items, and install in the reverse order of removal.

CAUTION:
- **When removing and installing, use shop cloths to protect parts from damage.**
- **Before installing seat, check that sliding rail inner and outer are locked in the same position.**
- **Before tightening bolts, check that the carpet is not caught in bolt holes on mounting portion.**
- **Always fix the harness fixing clamp in position.**
- **When connecting the connector, be sure to raise lock, and then push lock into the connector to fix. Check that the lock is engaged securely after connecting the connector.**

- **When installing, tighten mounting bolts to the specified torque according to the numerical order as shown in the figure, starting from front inner mounting bolt.**
  For the specified torque, refer to SE-85, "Exploded View".



SEATBACK

SEATBACK : Disassembly and Assembly

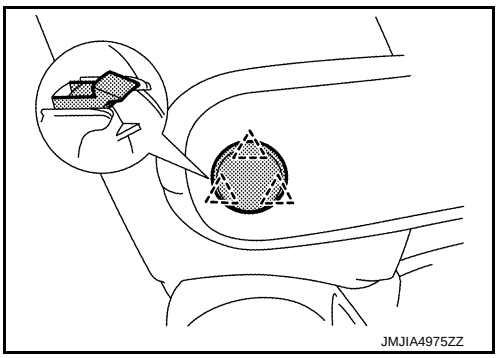
INFOID:0000000009652985

DISASSEMBLY

1. Remove armrest assembly.

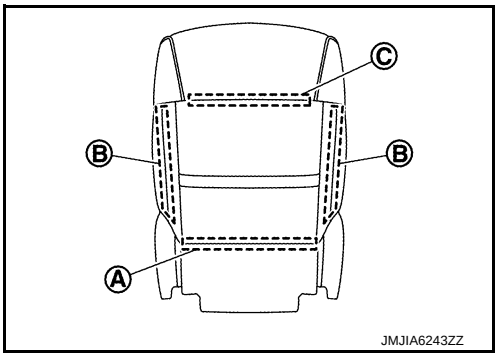
a. Disengage pawls and remove armrest cap.

: Pawl



b. Remove mounting bolt, and remove armrest assembly.

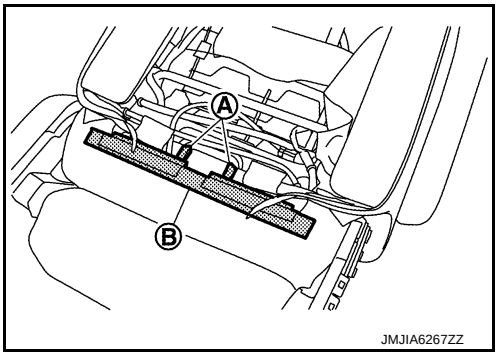
2. Remove the seatback retainer (A), and then open seatback fastener (B).
3. Roll up seatback trim, and then remove seatback retainer (C).



4. Remove side air bag module.

a. Remove seatback lower carpet from the seatback trim retainer.

b. Remove seatback trim retainer (A) and (B).

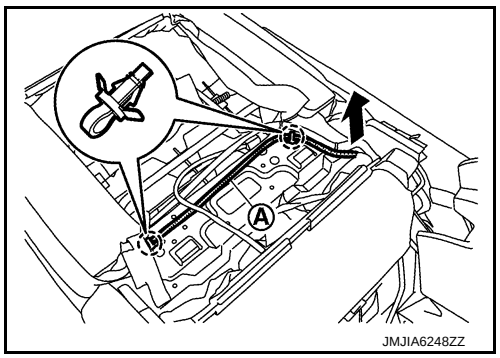


c. Remove seat cushion lower side air bag module harness connector clip and side air bag module harness clip.

d. Remove side air bag module harness clips from the seat frame & adjuster assembly.

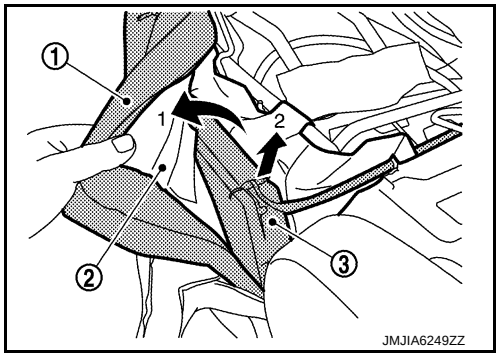
e. Pull out side air bag module harness (A) from the side or reclining device finisher.

: Clip



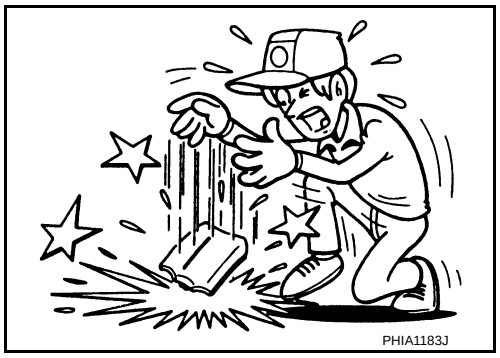
f. Remove mounting nuts, and then remove side air bag rod from the seat frame & adjuster assembly.

g. Pull up seatback pad (1) as shown in the figure and secure work space. Remove side air bag module (3) from the inner cloth (2).



CAUTION:

- **Never damage seatback trim or inner cloth (reinforcement cloth).**
- **Check direction if side air bag module.**
- **Never disassemble and check inflator. Side air bag module must never be disassembled.**
- **To prevent damage to the parts, never impact the side air bag module.**
- **Replace the side air bag module if it is dropped or sustains an impact.**



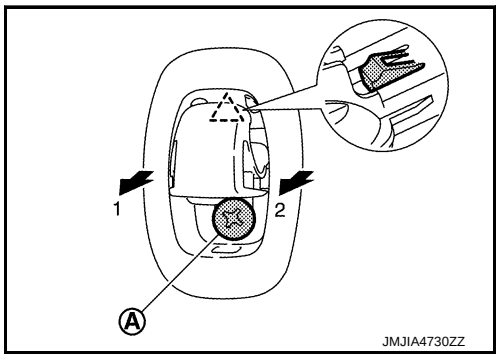
- **To prevent accidental explosion, never expose the side air bag module to temperatures more than 90°C (194°F).**
- **Place air bag module as a unit with side air bag deployment surface facing upward (stud volts facing downward). (This is to prevent accidental deployment.)**

5. Remove seatback hook assembly.

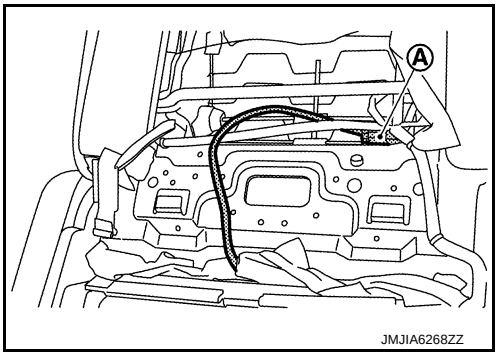
a. Rotate seatback hook to the position where fixing screw (A) can be removed, and then remove screw.

b. Pull seatback hook assembly forward, disengage pawl, and then remove seatback hook assembly from the seatback.

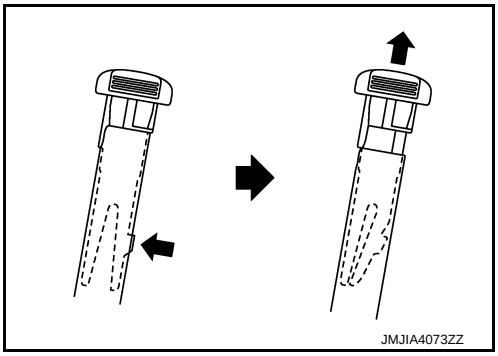
: Pawl



6. Disconnect seatback heater unit harness connector (A). (with heater seat only)



7. Remove the headrest holder from the seatback while pressing the pawls as shown by the arrows in the figure.
   CAUTION:
   Before installing headrest holder check its orientation. (Front/rear and right/left)



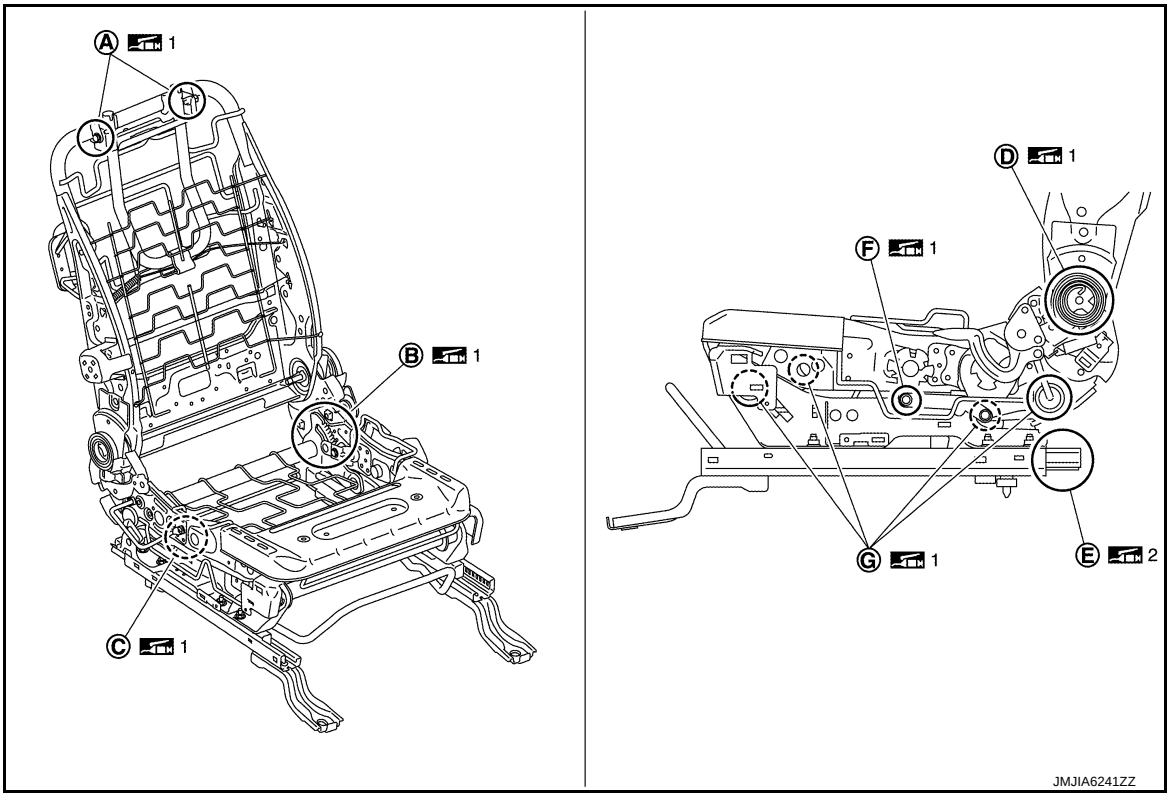
8. Remove seatback trim, seatback pad and seatback heater unit (with heater seat only) from seat frame & adjuster assembly.
9. Remove hog rings, and separate the seatback trim and seatback pad.
   CAUTION:
   Before performing separating operation, check the installation position of hog rings.
10. Separate the seatback pad and seatback heater unit. (with heater seat only)
11. Remove seatback silencer from seat frame & adjuster assembly.

ASSEMBLY

Note the following, and assemble in the reverse order of disassembly.

CAUTION:

- **Check the following parts for lubrication. Apply grease if necessary.**



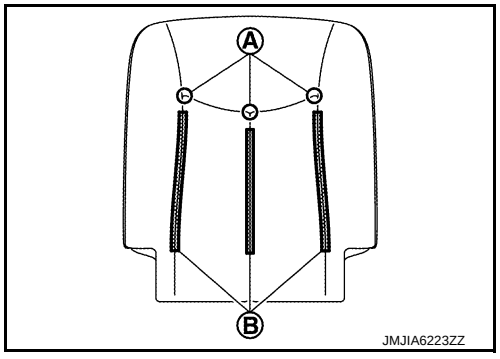
A. Active headrest rotation engage SP bolt portion	B. Rear lifter link sliding portion	C. Sector gear sliding portion
D. Recliner base core sliding portion	E. Slide rail sliding portion	F. Lifter lever and lifter link sliding portion
G. Seat lifter pipe (front and rear) crimp sliding portion		

1 : Heat-resistant and cold-resistant grease (Nippeco LLP or an equivalent)

2 : Heat-resistant and cold-resistant grease (RHEOGEL or an equivalent)

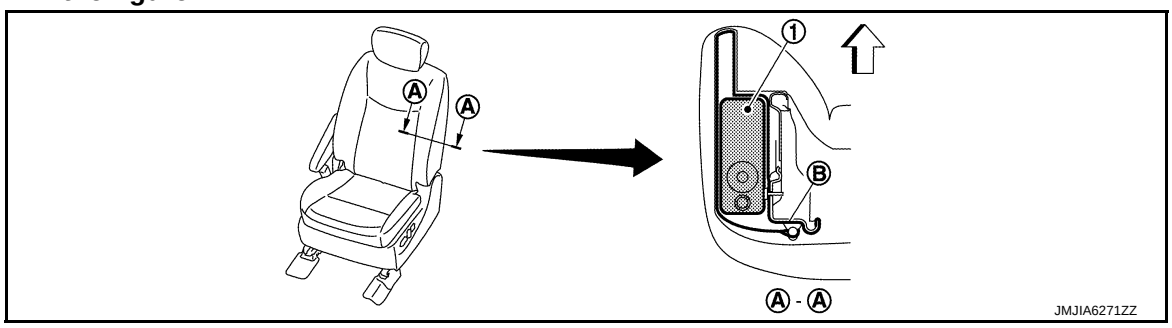
- **Check seatback pad and seatback trim for damage. Replace with new part if necessary.**
- **Install hog ring (A) to the specified position as shown in the figure.**

B. hook and loop fastener



- **If crimping using a hog ring is unsuccessful, using a new hog ring.**
- **Check that cutting slits on side air bag module cloth cover are not damaged. Replace side air bag module with a new one if necessary.**
- **Check that part number of the side air bag module is appropriate to seat specification.**

- **Check that side air bag module (1) and inner cloth (reinforcement cloth) (B) is in the position as shown in the figure.**



⇦ : Vehicle front

- **Check inner cloth (reinforcement cloth) for wrinkles and folding.**
- **Check that inner cloth (reinforcement cloth) is not pinched.**
- **Check that seatback trim and is fixed correctly.**
- **Never damage harness, connector, or clips of the side air bag module.**
- **Never damage seatback trim or inner cloth (reinforcement cloth).**
- **Check direction of side air bag module.**
- **Use new mounting nut when mounting the side air bag module. Tighten to the specified torque. For the specified torque, refer to SE-85, "Exploded View".**
- **Be careful not to leave any foreign materials (screwdriver or others) in seatback.**
- **Check that harness route and harness clip installation position are in the specified positions.**
- **When harness clip is damaged, mark the clip position and replace damaged clip with a new one in the original position.**

SEAT CUSHION

SEAT CUSHION : Disassembly and Assembly

INFOID:0000000009652986

DISASSEMBLY

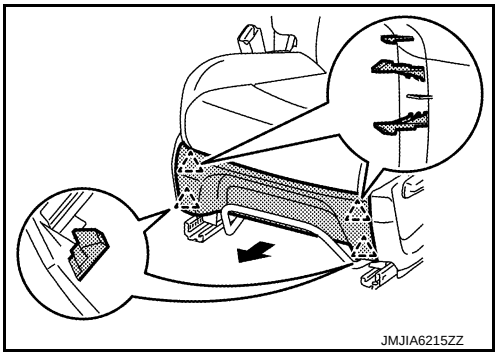
Driver seat

NOTE:

When removing lower outer finisher or lower inner finisher, operate lifter lever and set seat cushion to the highest position in advance. This facilitates removal.

1. Pull seat cushion finisher forward, disengage pawls, and then remove seat cushion finisher.

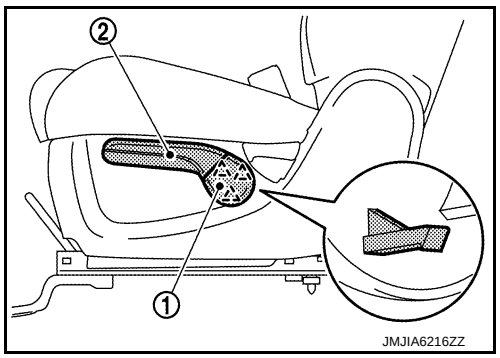
△ : Pawl



2. Remove seat cushion outer finisher.

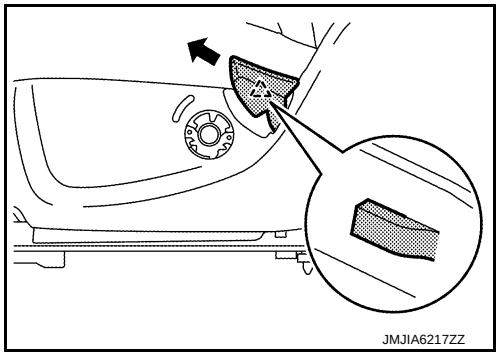
a. Disengage pawls and remove lifter lever knob cap (1).
b. Remove fixing screws and remove lifter lever knob (2).

: Pawl



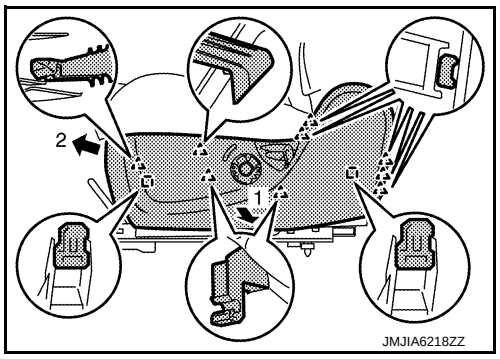
c. Disengage pawls using a screwdriver while pulling seat reclining lever knob. Slide seat reclining lever knob toward seat front and remove it.

: Pawl



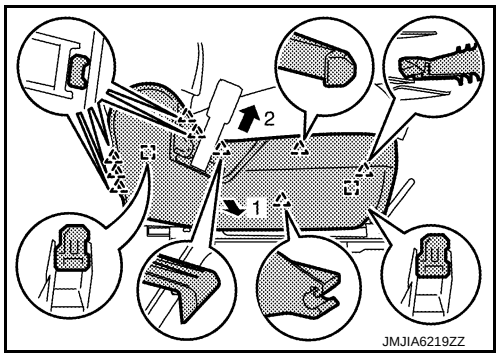
d. Pull seat cushion outer finisher toward seat front. Disengage pawls and metal clips. Slide seat cushion outer finisher toward seat front. Remove seat cushion outer finisher.

: Pawl
: Metal clip



3. Remove seat cushion inner finisher.
Pull seat cushion inner finisher toward seat front. Disengage pawls and metal clips. Slide seat cushion inner finisher upwards. Remove seat cushion inner finisher.

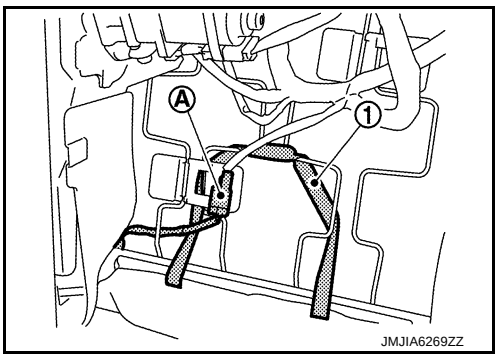
: Pawl
: Metal clip



4. Remove seat cushion trim, seat cushion pad, and seat cushion heater unit (with heater seat only) from seat frame & adjuster assembly.

a. Disconnect seat cushion heater unit harness connector (A) installed in the lower portion of seat cushion. (with heater seat only.)

b. Remove seatback lower carpet rubber band (1) installed in the lower portion of seat cushion.



c. Remove seat cushion trim retainer installed on seat frame & adjuster assembly.

d. Remove seat cushion trim, seat cushion pad, and seat cushion heater unit (with heater seat only) from seat frame & adjuster assembly.

5. Remove hog rings, and separate the seat cushion trim and seat cushion pad.
CAUTION:
Before performing separating operation, check the installation position of hog rings.

6. Separate the seat cushion pad and seat cushion heater unit. (with heater seat only)

7. Remove seatback trim and seatback pad from seat frame & adjuster assembly.
Refer to SE-90, "SEATBACK : Disassembly and Assembly".

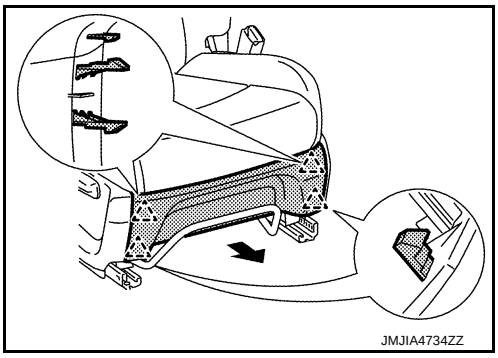
8. Remove reclining device cover.
- Disengage pawls and remove reclining device outer cover (front and rear).
- Disengage pawls and remove reclining device inner cover (front and rear).

9. Remove following parts from seat frame & adjuster assembly.
- Remove lower outer finisher.
- Remove lower inner finisher.
- Remove seat belt buckle trim.
- Remove seat belt buckle. Refer to SB-8, "SEAT BELT BUCKLE : Removal and Installation".
- Remove seatback board.
- Remove seatback felt.
- Remove seat harness from seat frame & adjuster assembly.

Passenger seat

1. Pull seat cushion finisher forward, disengage pawls, and then remove seat cushion finisher.

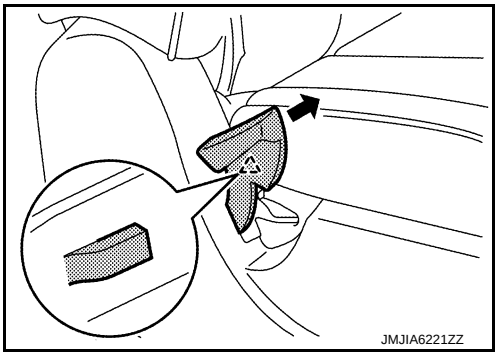
: Pawl



2. Remove seat cushion outer finisher.

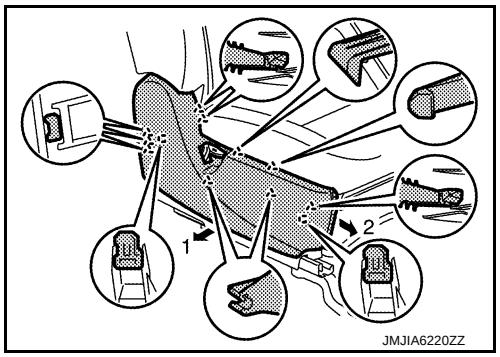
a. Disengage pawls using a screwdriver while pulling seat reclining lever knob. Slide seat reclining lever knob toward seat front and remove it.

: Pawl



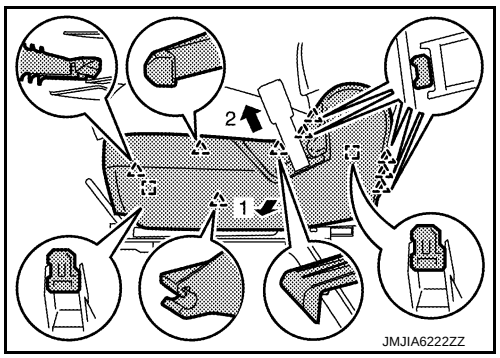
b. Pull seat cushion outer finisher toward seat front. Disengage pawls and metal clips. Slide seat cushion outer finisher toward seat front. Remove seat cushion outer finisher.

: Pawl
: Metal clip



3. Pull seat cushion inner finisher toward seat front. Disengage pawls and metal clips. Slide seat cushion inner finisher upwards. Remove seat cushion inner finisher.

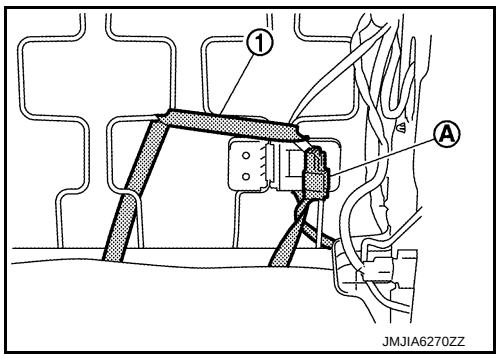
: Pawl
: Metal clip



4. Remove seat cushion trim, seat cushion pad, and seat cushion heater unit (with heater seat only) from seat frame & adjuster assembly.

a. Disconnect seat cushion heater unit harness connector (A) installed in the lower portion of seat cushion. (with heater seat only.)

b. Remove seatback lower carpet rubber band (1) installed in the lower portion of seat cushion.



c. Remove seat cushion trim, seat cushion pad, and seat cushion heater unit (with heater seat only) from seat frame & adjuster assembly.

5. Remove hog rings, and separate the seat cushion trim and seat cushion pad.
CAUTION:
Before performing separating operation, check the installation position of hog rings.

6. Separate the seat cushion pad and seat cushion heater unit. (with heater seat only)

7. Remove seatback trim and seatback pad from seat frame & adjuster assembly.
Refer to SE-90, "SEATBACK : Disassembly and Assembly".

8. Remove reclining device cover.
- Disengage pawls and remove reclining device outer cover (front and rear).
- Disengage pawls and remove reclining device inner cover (front and rear).

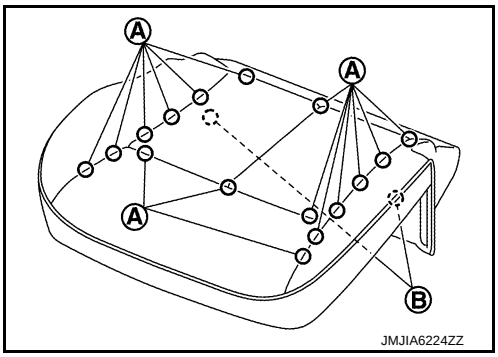
9. Remove following parts from seat frame & adjuster assembly.
- Remove lower outer finisher.
- Remove lower inner finisher.
- Remove seat belt buckle trim.
- Remove seat belt buckle. Refer to SB-8, "SEAT BELT BUCKLE : Removal and Installation".
- Remove seatback board.
- Remove seatback felt.
- Remove seat harness from seat frame & adjuster assembly.
- Remove occupant detection system control unit. Refer to SR-32, "Removal and Installation".

ASSEMBLY

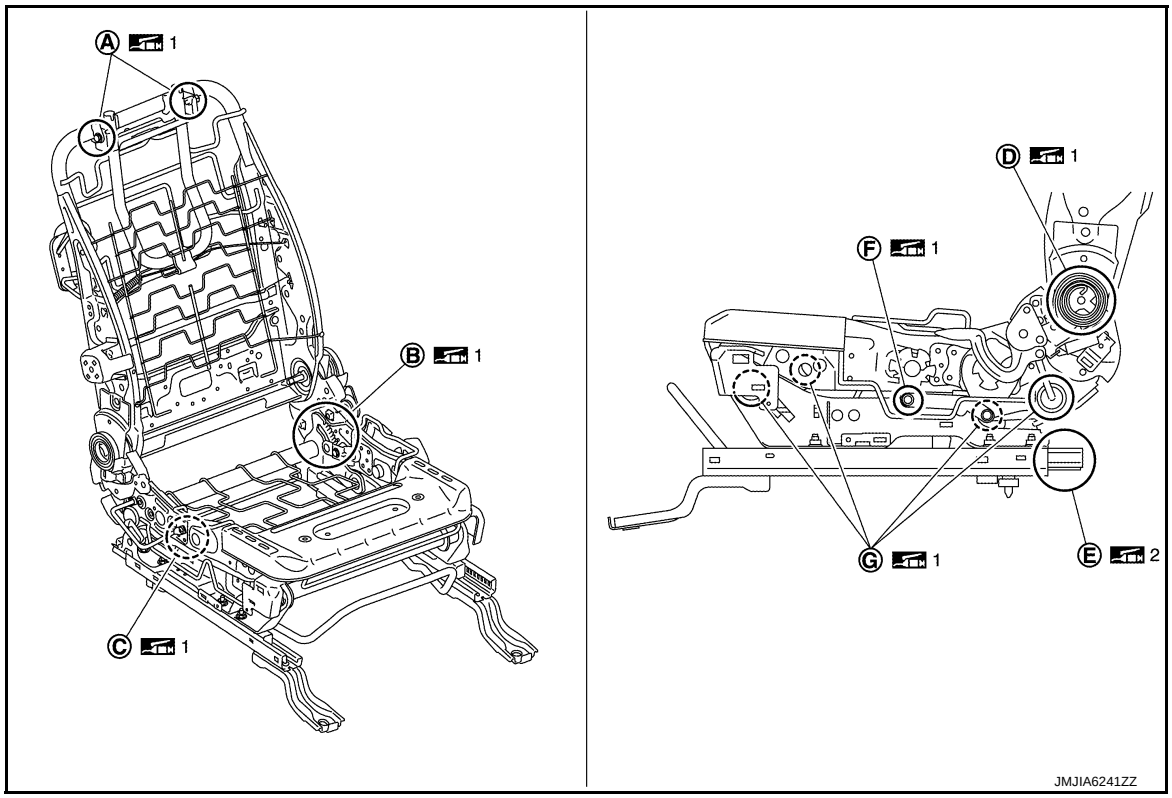
Note the following, and assemble in the reverse order of disassembly.

CAUTION:

- **Check seat cushion trim and seat cushion pad for damage. Replace with new part if necessary.**
- **Install seat cushion front hog rings (A) and seat cushion back hog rings (B) to the specified positions.**



- **Check the following parts for lubrication. Apply grease if necessary.**



A.	Active headrest rotation engage SP bolt portion	B.	Rear lifter link sliding portion	C.	Sector gear sliding portion
D.	Recliner base core sliding portion	E.	Slide rail sliding portion	F.	Lifter lever and lifter link sliding portion
G.	Seat lifter pipe (front and rear) crimp sliding portion				

1 : Heat-resistant and cold-resistant grease (Nippeco LLP or an equivalent)

2 : Heat-resistant and cold-resistant grease (RHEOGEL or an equivalent)

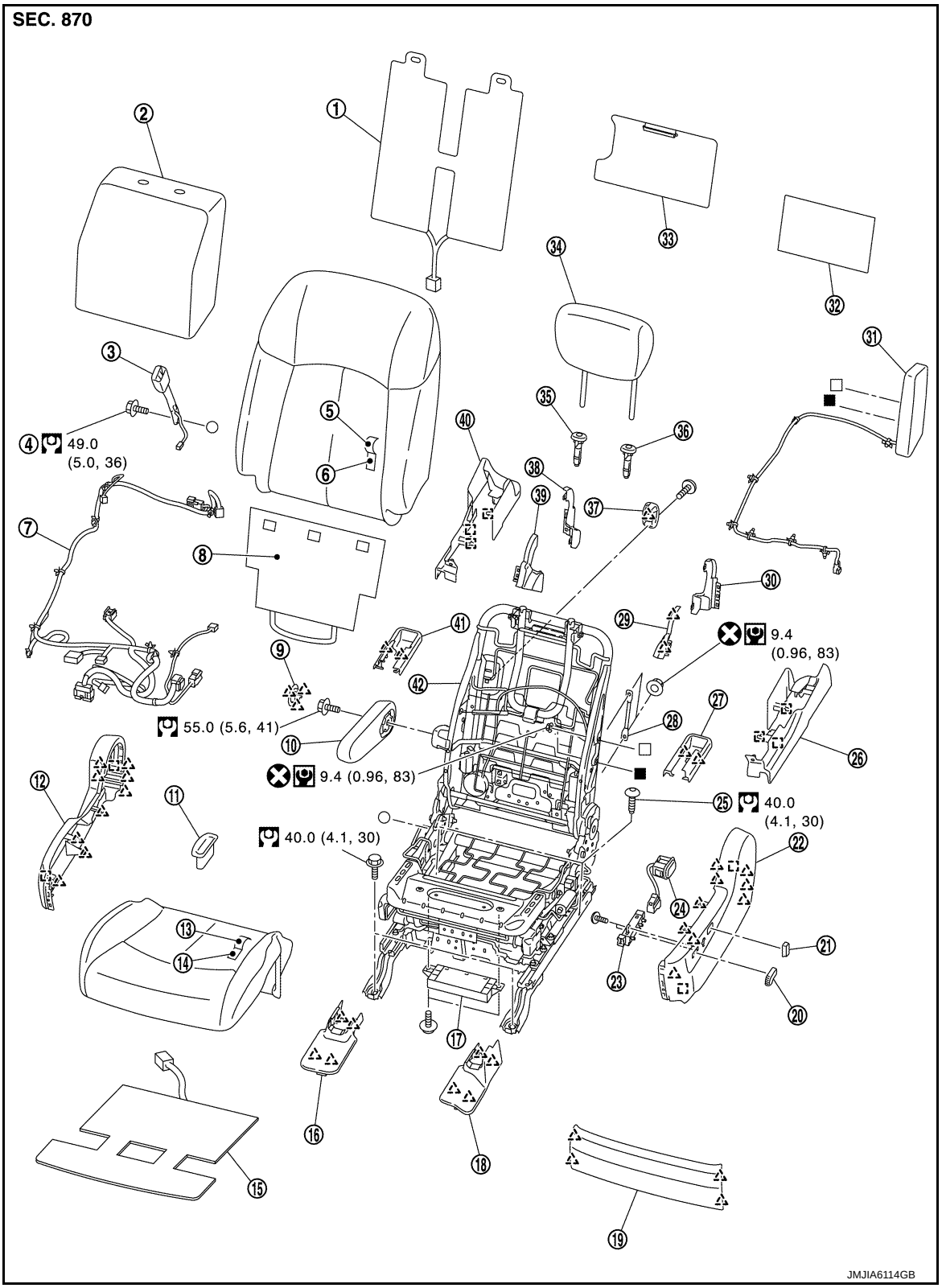
- **If crimping using a hog ring is unsuccessful, secure using a new hog ring.**
- **Check that harness route and harness clip installation position are in the specified positions.**
- **When harness clip is damaged, mark the clip position and replace damaged clip with a new one in the original position.**
- **Tighten seat belt buckle anchor bolt to the specified torque. For the specified torque, refer to SE-85, "Exploded View".**

FRONT SEAT (POWER SEAT)

Exploded View

INFOID:0000000009652987

DRIVER SEAT



1. Seatback heater unit
2. Seatback silencer
3. Seat belt buckle
4. Anchor bolt
5. Seatback trim
6. Seatback pad
7. Seat harness assembly
8. Seatback lower carpet
9. Armrest cap
10. Armrest assembly
11. Seat belt buckle trim
12. Seat cushion inner finisher
13. Seat cushion trim
14. Seat cushion pad
15. Seat cushion heater unit
16. Seat slide front inner cover
17. Seat control unit
18. Seat slide front outer cover
19. Seat cushion finisher
20. Seat slide & lifter switch knob
21. Seat reclining switch knob
22. Seat cushion outer finisher
23. Seat switch assembly
24. Lumber support switch assembly
25. TORX bolt
26. Lower outer finisher
27. Seat slide rear outer cover
28. Side air bag rod
29. Reclining device outer cover (front)
30. Reclining device outer cover (rear)
31. Side air bag module
32. Seatback felt
33. Seatback board
34. Headrest
35. Headrest holder (free)
36. Headrest holder (locked)
37. Seatback hook assembly
38. Reclining device inner cover (rear)
39. Reclining device inner cover (front)
40. Lower inner finisher
41. Seat slide rear inner cover
42. Seat frame & adjuster assembly

: Pawl

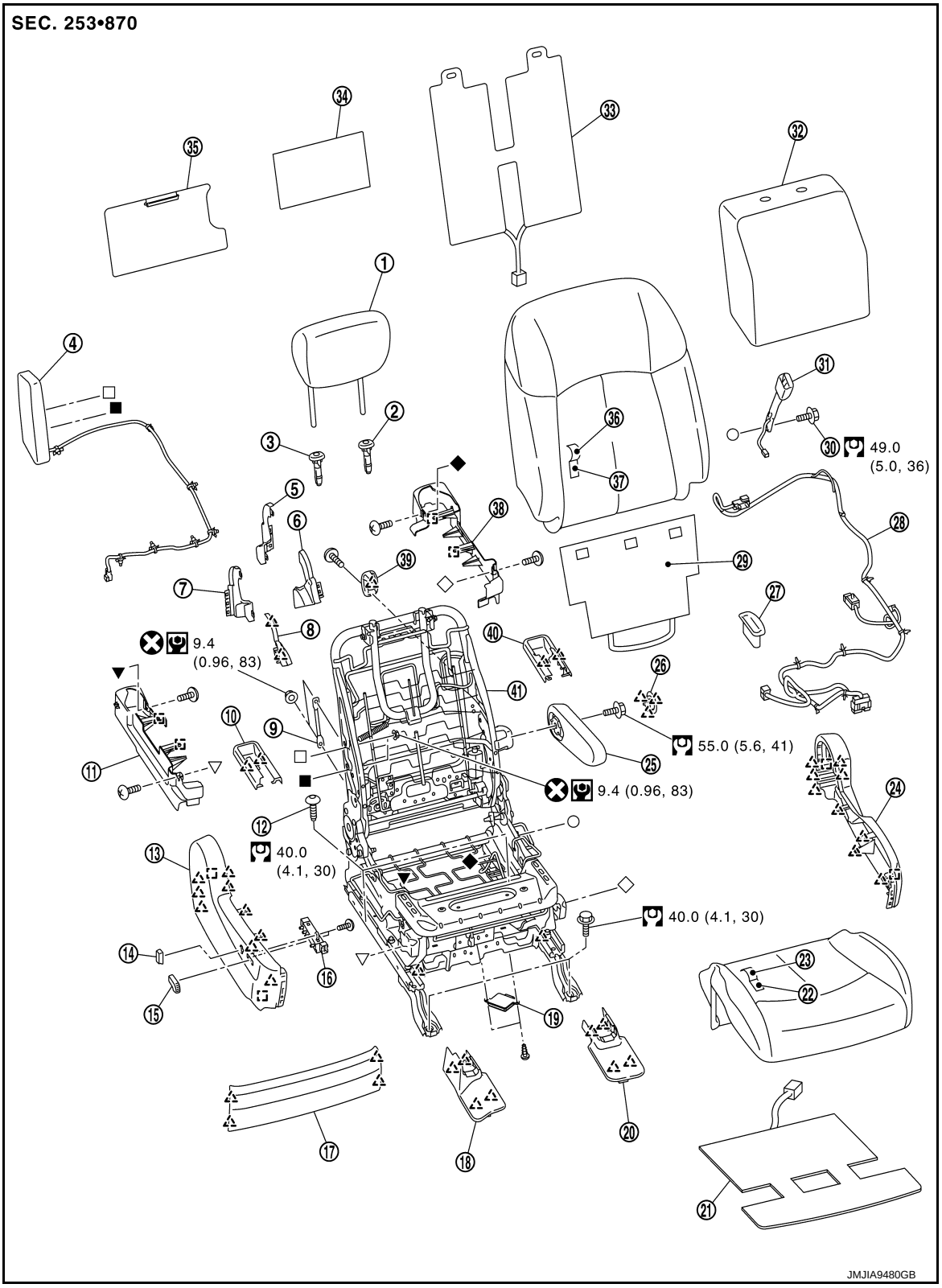
: Metal clip

: Always replace after every disassembly.

: N·m (kg-m, in-lb)

: N·m (kg-m, ft-lb)

PASSENGER SEAT



1. Headrest
2. Headrest holder (locked)
3. Headrest holder (free)
4. Side air bag module
5. Reclining device inner cover (rear)
6. Reclining device inner cover (front)
7. Reclining device outer cover (rear)
8. Reclining device outer cover (front)
9. Side air bag rod
10. Seat slide rear outer cover
11. Lower outer finisher
12. TORX bolt
13. Seat cushion outer finisher
14. Seat reclining switch knob
15. Seat slide & lifter switch knob
16. Seat switch assembly
17. Seat cushion finisher
18. Seat slide front outer cover

19. Occupant detection system control unit
20. Seat slide front inner cover
21. Seat cushion heater unit
22. Seat cushion pad
23. Seat cushion trim
24. Seat cushion inner finisher
25. Armrest assembly
26. Armrest cap
27. Seat belt buckle trim
28. Seat harness assembly
29. Seatback lower carpet
30. Anchor bolt
31. Seat belt buckle
32. Seatback silencer
33. Seatback heater unit
34. Seatback felt
35. Seatback board
36. Seatback trim
37. Seatback pad
38. Lower inner finisher
39. Seatback hook assembly
40. Seat slide rear inner cover
41 Seat frame & adjuster assembly

: Pawl

: Metal clip

: Always replace after every disassembly.

: N·m (kg-m, in-lb)

: N·m (kg-m, ft-lb)

Removal and Installation

INFOID:0000000009652988

REMOVAL

WARNING:

Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait 3 minutes or more.

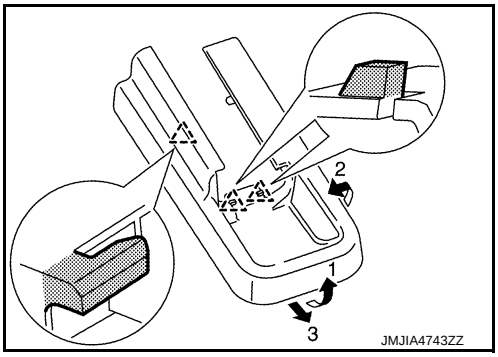
NOTE:

When removing lower outer finisher, lower inner finisher, side air bag, and seat harness on driver side, operate seat slide & seat lifter switch and set seat cushion to the highest position in advance. This facilitates removal.

1. Remove headrest.
2. Operate seat slide & lifter switch and slide seat to the frontmost position.
3. Remove seat slide rear outer cover.

a. Disengage pawls on the rear side of seat slide rear outer cover.
b. Disengage pawls on the front side of seat slide rear outer cover.
c. Slide seat slide rear outer cover to the rear side to remove.

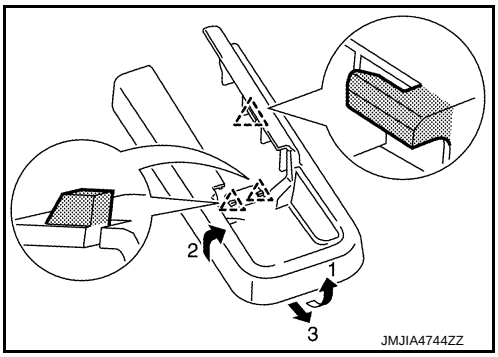
: Pawl



4. Remove seat slide rear inner cover.

a. Disengage pawls on the rear side of seat slide rear inner cover.
b. Disengage pawls on the front side of seat slide rear inner cover.
c. Slide seat slide rear inner cover to the rear side to remove.

: Pawl

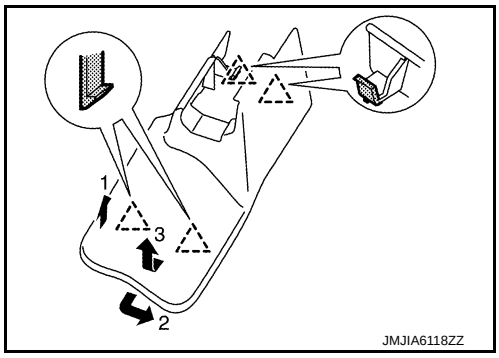


5. Remove rear outer mounting TORX bolt.
6. Remove rear inner mounting TORX bolt.
7. Operate seat slide & lifter switch and slide seat to the rearmost position.

8. Remove seat slide front outer cover.

a. Disengage pawls on the front side of seat slide front outer cover.
b. Disengage pawls on the rear side of seat slide front outer cover.
c. Slide seat slide front outer cover to the front side while lifting it upward to remove.

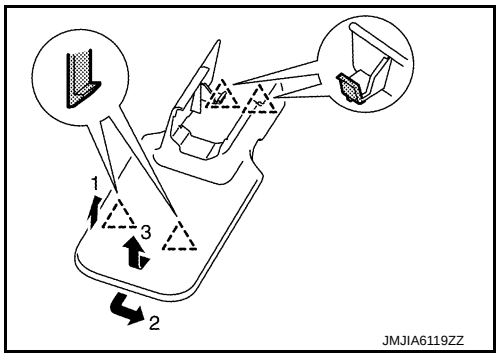
: Pawl



9. Remove seat slide front inner cover.

a. Disengage pawls on the front side of seat slide front inner cover.
b. Disengage pawls on the rear side of seat slide front inner cover.
c. Slide seat slide front inner cover to the front side while lifting it upward to remove.

: Pawl



10. Remove front outer mounting bolt.
11. Remove front inner mounting bolt.
12. Operate seat reclining switch and set the seatback vertically.
13. Disconnect seat cushion lower harness connector, and then remove harness fixing clips.

WARNING:
Never insert foreign materials, such as a screwdriver, into air bag module connector. (This is to prevent accidental activation caused by static electricity.)
CAUTION:
Before performing removal operation, check the installation position of harness connectors and harness fixing clamps.

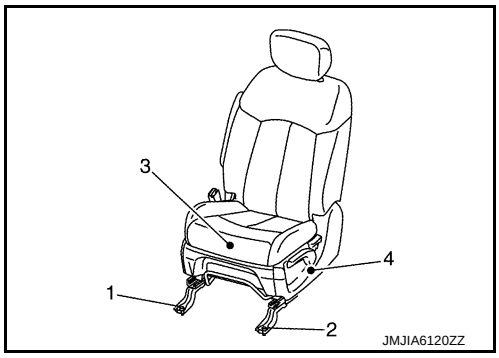
14. Remove seat from the vehicle.

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

INSTALLATION

Note the following items, and install in the reverse order of removal.

CAUTION:
- **When removing and installing, use shop cloths to protect parts from damage.**
- **Before tightening bolts, check that the carpet is not caught in bolt holes on mounting portion.**
- **Always fix the harness fixing clamp in position.**
- **When connecting the connector, be sure to raise lock, and then push lock into the connector to fix. Check that the lock is engaged securely after connecting the connector.**
- **When installing, tighten mounting bolts to the specified torque according to the numerical order as shown in the figure, starting from front inner mounting bolt.**
  For the specified torque, refer to SE-99, "Exploded View".



NOTE:
After installing the front seat, perform additional service when removing battery negative terminal.
Refer to ADP-46, "Description".

SEATBACK

SEATBACK : Disassembly and Assembly

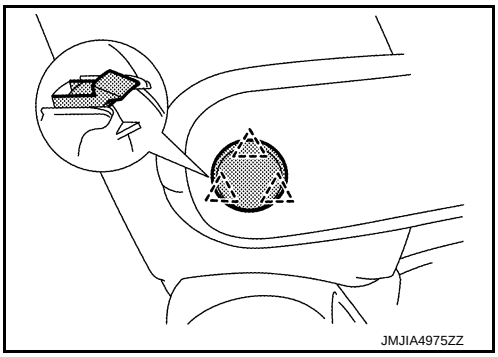
INFOID:0000000009652989

DISASSEMBLY

1. Remove armrest assembly.

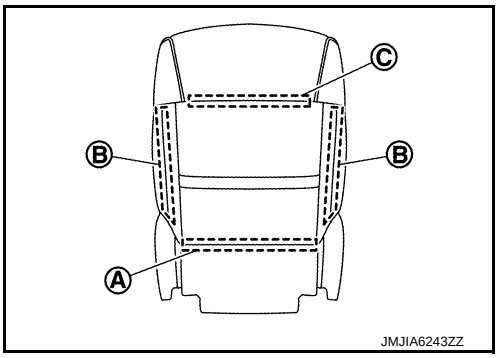
a. Disengage pawls and remove armrest cap.

: Pawl


JMJIA4975ZZ

b. Remove mounting bolt, and remove armrest assembly.

2. Remove the seatback retainer (A), and then open seatback fastener (B).
3. Roll up seatback trim, and then remove seatback retainer (C).

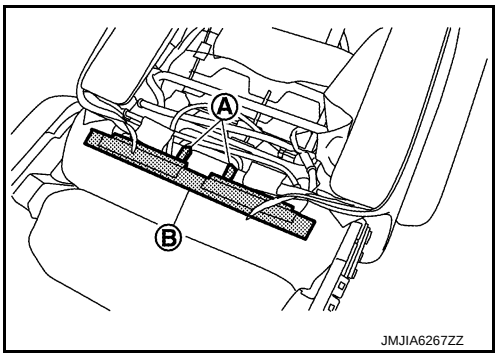


JMJIA6243ZZ

4. Remove side air bag module.

a. Remove seatback lower carpet from the seatback trim retainer.

b. Remove seatback trim retainer (A) and (B).



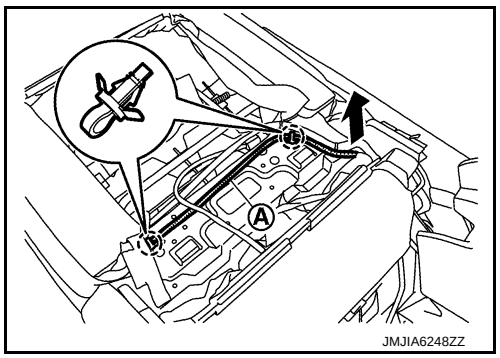
JMJIA6267ZZ

c. Remove seat cushion lower side air bag module harness connector clip and side air bag module harness clip.

d. Remove side air bag module harness clips from the seat frame & adjuster assembly.

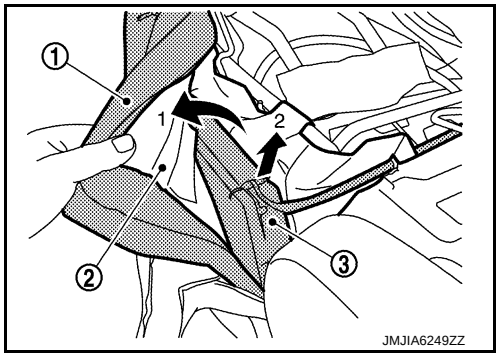
e. Pull out side air bag module harness (A) from the side or reclining device finisher.

: Clip



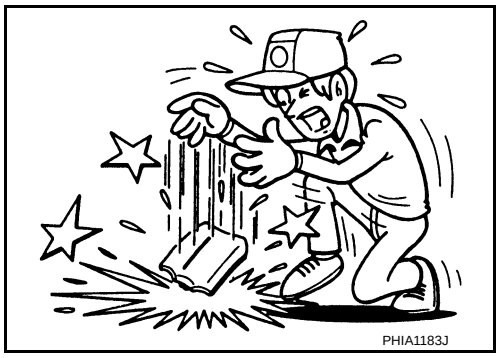
f. Remove mounting nuts, and then remove side air bag rod from the seat frame & adjuster assembly.

g. Pull up seatback pad (1) as shown in the figure and secure work space. Remove side air bag module (3) from the inner cloth (2).



CAUTION:

- **Never damage seatback trim or inner cloth (reinforcement cloth).**
- **Check direction if side air bag module.**
- **Never disassemble and check inflator. Side air bag module must never be disassembled.**
- **To prevent damage to the parts, never impact the side air bag module.**
- **Replace the side air bag module if it is dropped or sustains an impact.**



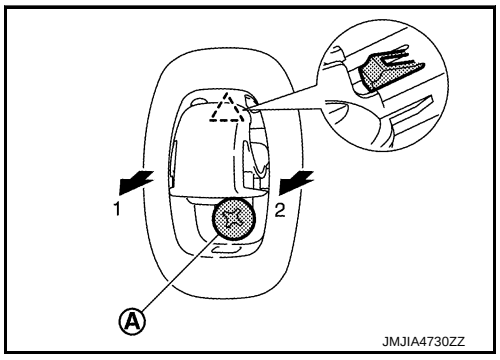
- **To prevent accidental explosion, never expose the side air bag module to temperatures more than 90°C (194°F).**
- **Place air bag module as a unit with side air bag deployment surface facing upward (stud volts facing downward). (This is to prevent accidental deployment.)**

5. Remove seatback hook assembly.

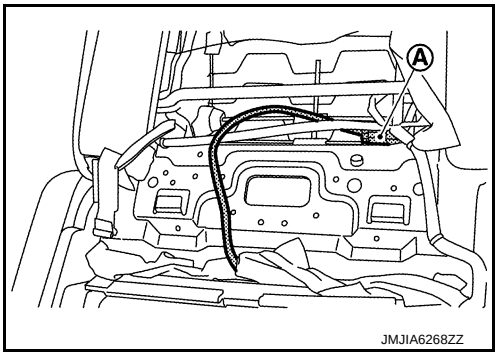
a. Rotate seatback hook to the position where fixing screw (A) can be removed, and then remove screw.

b. Pull seatback hook assembly forward, disengage pawl, and then remove seatback hook assembly from the seatback.

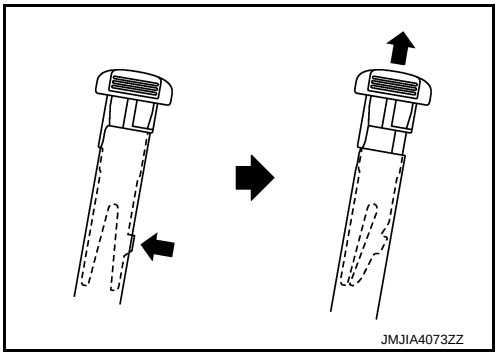
: Pawl



6. Disconnect seatback heater unit harness connector (A).



7. Remove the headrest holder from the seatback while pressing the pawls as shown by the arrows in the figure.
   CAUTION:
   Before installing headrest holder check its orientation. (Front/rear and right/left)



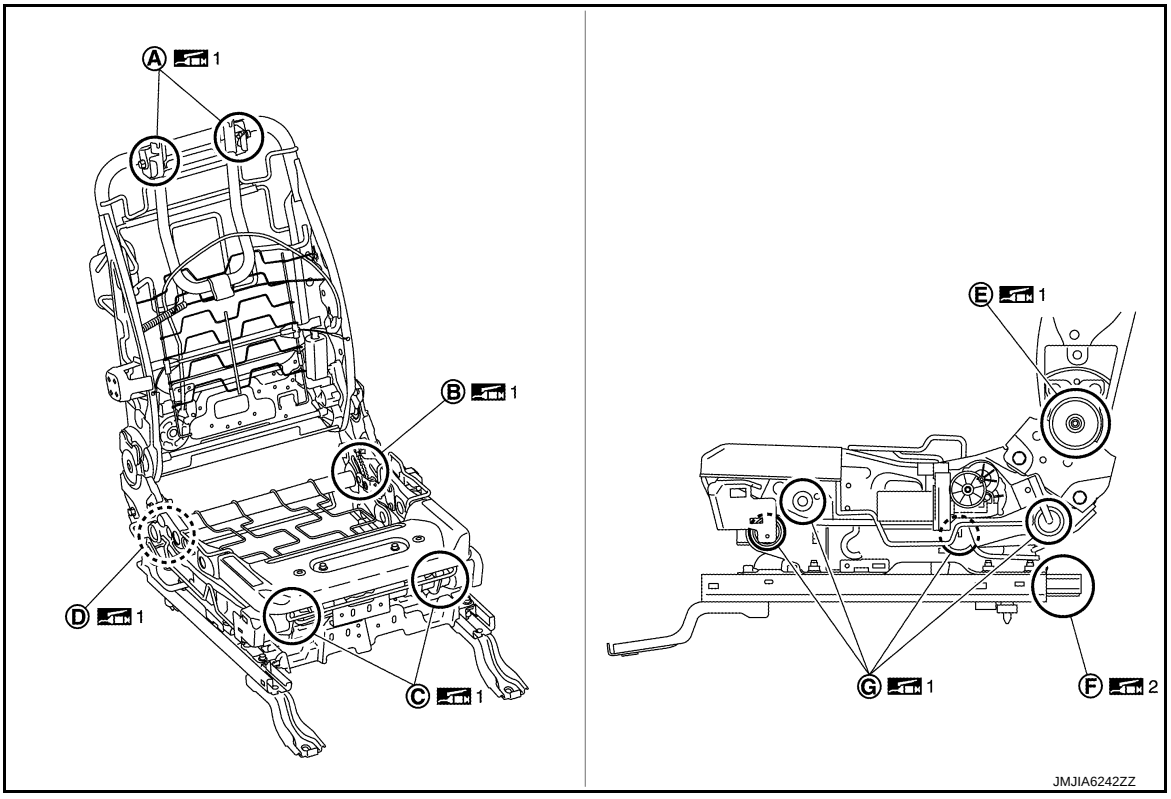
8. Remove seatback trim, seatback pad and seatback heater unit from seat frame & adjuster assembly.
9. Remove hog rings, and separate the seatback trim and seatback pad.
   CAUTION:
   Before performing separating operation, check the installation position of hog rings.
10. Separate the seatback pad and seatback heater unit.
11. Remove seatback silencer from seat frame & adjuster assembly.

ASSEMBLY

Note the following, and assemble in the reverse order of disassembly.

CAUTION:

- **Check the following parts for lubrication. Apply grease if necessary.**



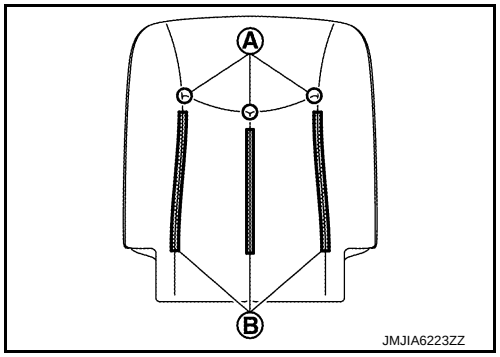
A.	Active headrest rotation engage SP bolt portion	B.	Sector gear sliding portion	C.	Front lifter link sliding portion
D.	Rear lifter link sliding portion	E.	Recliner base core sliding portion	F.	Slide rail sliding portion
G.	Seat lifter pipe (front and rear) crimp sliding portion				

: Heat-resistant and cold-resistant grease (Nippeco LLP or an equivalent)

: Heat-resistant and cold-resistant grease (RHEOGEL or an equivalent)

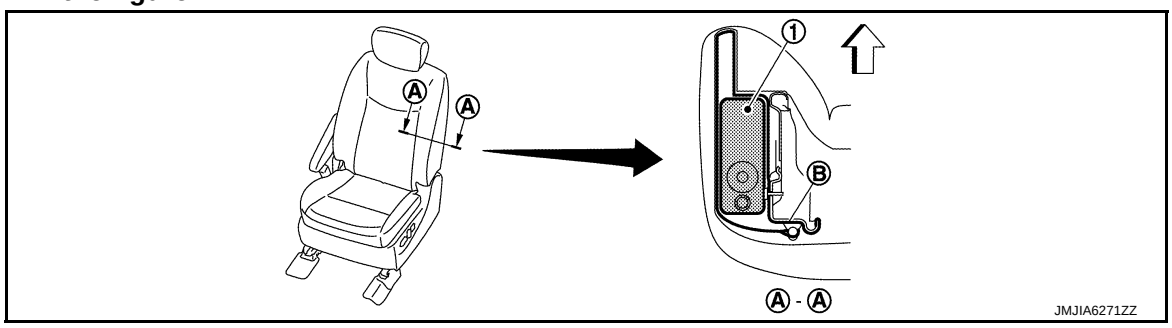
- **Check seatback pad and seatback trim for damage. Replace with new part if necessary.**
- **Install hog ring (A) to the specified position as shown in the figure.**

B. hook and loop fastener



- **If crimping using a hog ring is unsuccessful, using a new hog ring.**
- **Check that cutting slits on side air bag module cloth cover are not damaged. Replace side air bag module with a new one if necessary.**
- **Check that part number of the side air bag module is appropriate to seat specification.**

- **Check that side air bag module (1) and inner cloth (reinforcement cloth) (B) is in the position as shown in the figure.**



⇦ : Vehicle front

- **Check inner cloth (reinforcement cloth) for wrinkles and folding.**
- **Check that inner cloth (reinforcement cloth) is not pinched.**
- **Check that seatback trim and is fixed correctly.**
- **Never damage harness, connector, or clips of the side air bag module.**
- **Never damage seatback trim or inner cloth (reinforcement cloth).**
- **Check direction of side air bag module.**
- **Use new mounting nut when mounting the side air bag module. Tighten to the specified torque. For the specified torque, refer to SE-99, "Exploded View".**
- **Be careful not to leave any foreign materials (screwdriver or others) in seatback.**
- **Check that harness route and harness clip installation position are in the specified positions.**
- **When harness clip is damaged, mark the clip position and replace damaged clip with a new one in the original position.**

SEAT CUSHION

SEAT CUSHION : Disassembly and Assembly

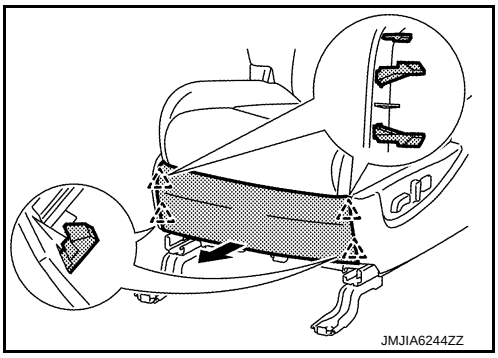
INFOID:0000000009652990

DISASSEMBLY

Driver seat

1. Pull seat cushion finisher forward, disengage pawls, and then remove seat cushion finisher.

△ : Pawl

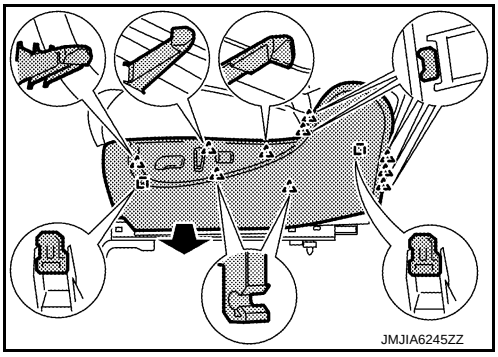


2. Remove seat cushion outer finisher.

a. Pull seat cushion outer finisher forward, disengage pawls and metal clips, and then remove seat cushion outer finisher.

△ : Pawl

⬚ : Metal clip



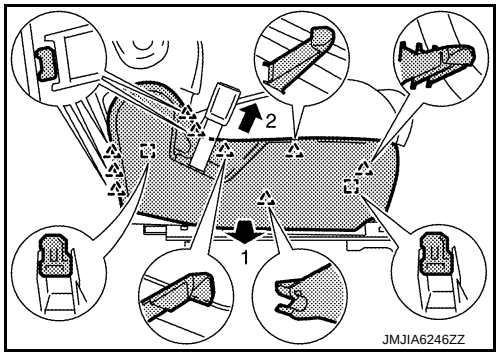
b. Disconnect seat switch assembly harness connector and lumber support switch assembly harness connector.

3. Remove seat switch assembly and lumber support switch assembly from seat cushion outer finisher.

4. Pull seat cushion inner finisher toward seat front. Disengage pawls and metal clips. Slide seat cushion inner finisher upwards. Remove seat cushion inner finisher.

: Pawl

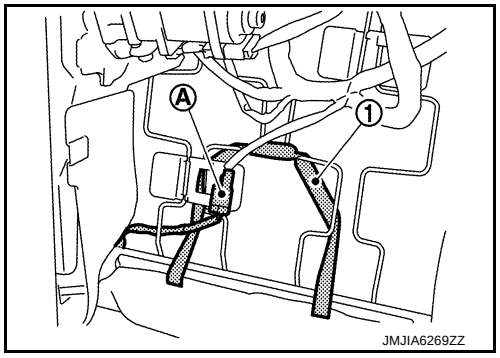
: Metal clip



5. Remove seat cushion trim, seat cushion pad, and seat cushion heater unit from seat frame & adjuster assembly.

a. Disconnect seat cushion heater unit harness connector (A) installed in the lower portion of seat cushion.

b. Remove seatback lower carpet rubber band (1) installed in the lower portion of seat cushion.



c. Remove seat cushion trim retainer installed on seat frame & adjuster assembly.

d. Remove seat cushion trim, seat cushion pad, and seat cushion heater unit from seat frame & adjuster assembly.

6. Remove hog rings, and separate the seat cushion trim and seat cushion pad.
CAUTION:
Before performing separating operation, check the installation position of hog rings.

7. Separate the seat cushion pad and seat cushion heater unit.

8. Remove seatback trim and seatback pad from seat frame & adjuster assembly.
Refer to SE-104, "SEATBACK : Disassembly and Assembly".

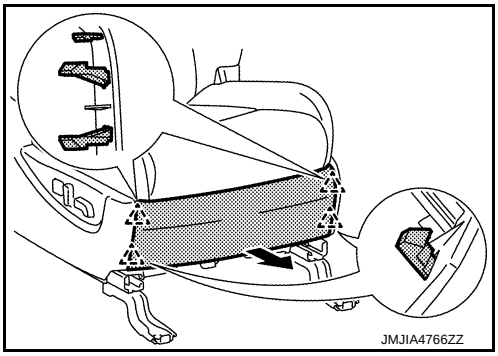
9. Remove reclining device cover.
- Disengage pawls and remove reclining device outer cover (front and rear).
- Disengage pawls and remove reclining device inner cover (front and rear).

10. Remove following parts from seat frame & adjuster assembly.
- Remove lower outer finisher.
- Remove lower inner finisher.
- Remove seat belt buckle trim.
- Remove seat belt buckle. Refer to SB-8, "SEAT BELT BUCKLE : Removal and Installation".
- Remove seatback board.
- Remove seatback felt.
- Remove seat harness from seat frame & adjuster assembly.

Passenger seat

1. Pull seat cushion finisher forward, disengage pawls, and then remove seat cushion finisher.

: Pawl

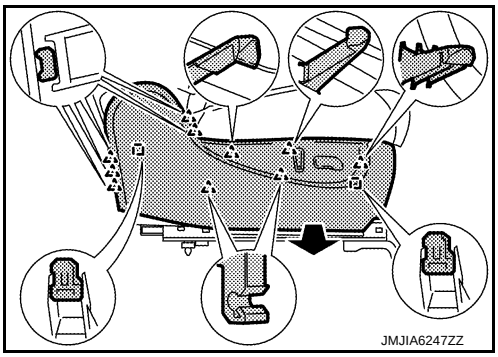


2. Remove seat cushion outer finisher.

a. Pull seat cushion outer finisher forward, disengage pawls and metal clips, and then remove seat cushion outer finisher.

: Pawl

: Metal clip



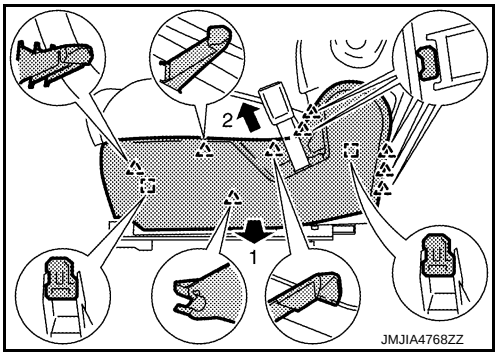
b. Disconnect seat switch assembly harness connector.

3. Remove seat switch assembly from seat cushion outer finisher.

4. Pull seat cushion inner finisher toward seat front. Disengage pawls and metal clips. Slide seat cushion inner finisher upwards. Remove seat cushion inner finisher.

: Pawl

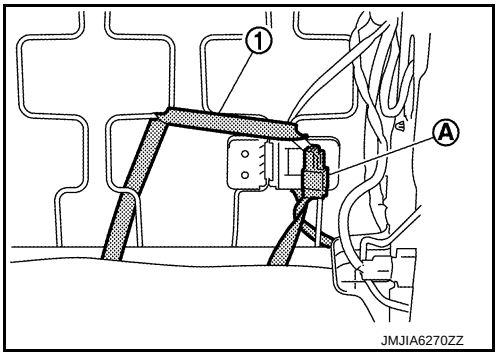
: Metal clip



5. Remove seat cushion trim, seat cushion pad, and seat cushion heater unit from seat frame & adjuster assembly.

a. Disconnect seat cushion heater unit harness connector (A) installed in the lower portion of seat cushion.

b. Remove seatback lower carpet rubber band (1) installed in the lower portion of seat cushion.



c. Remove seat cushion trim retainer installed on seat frame & adjuster assembly.

d. Remove seat cushion trim, seat cushion pad, and seat cushion heater unit from seat frame & adjuster assembly.

6. Remove hog rings, and separate the seat cushion trim and seat cushion pad.

CAUTION:

Before performing separating operation, check the installation position of hog rings.

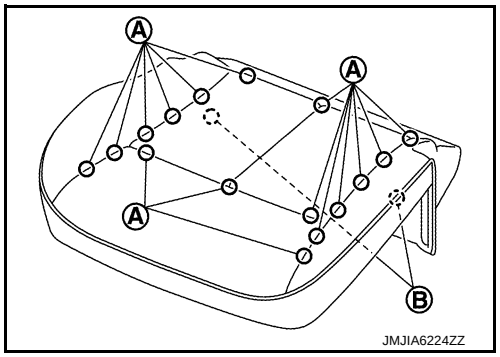
7. Separate the seat cushion pad and seat cushion heater unit.
8. Remove seatback trim and seatback pad from seat frame & adjuster assembly.
   Refer to SE-104, "SEATBACK : Disassembly and Assembly".
9. Remove reclining device cover.
   - Disengage pawls and remove reclining device outer cover (front and rear).
   - Disengage pawls and remove reclining device inner cover (front and rear).
10. Remove following parts from seat frame & adjuster assembly.
    - Remove lower outer finisher.
    - Remove lower inner finisher.
    - Remove seat belt buckle trim.
    - Remove seat belt buckle. Refer to SB-8, "SEAT BELT BUCKLE : Removal and Installation".
    - Remove seatback board.
    - Remove seatback felt.
    - Remove seat harness from seat frame & adjuster assembly.
    - Remove occupant detection system control unit. Refer to SR-32, "Removal and Installation".

ASSEMBLY

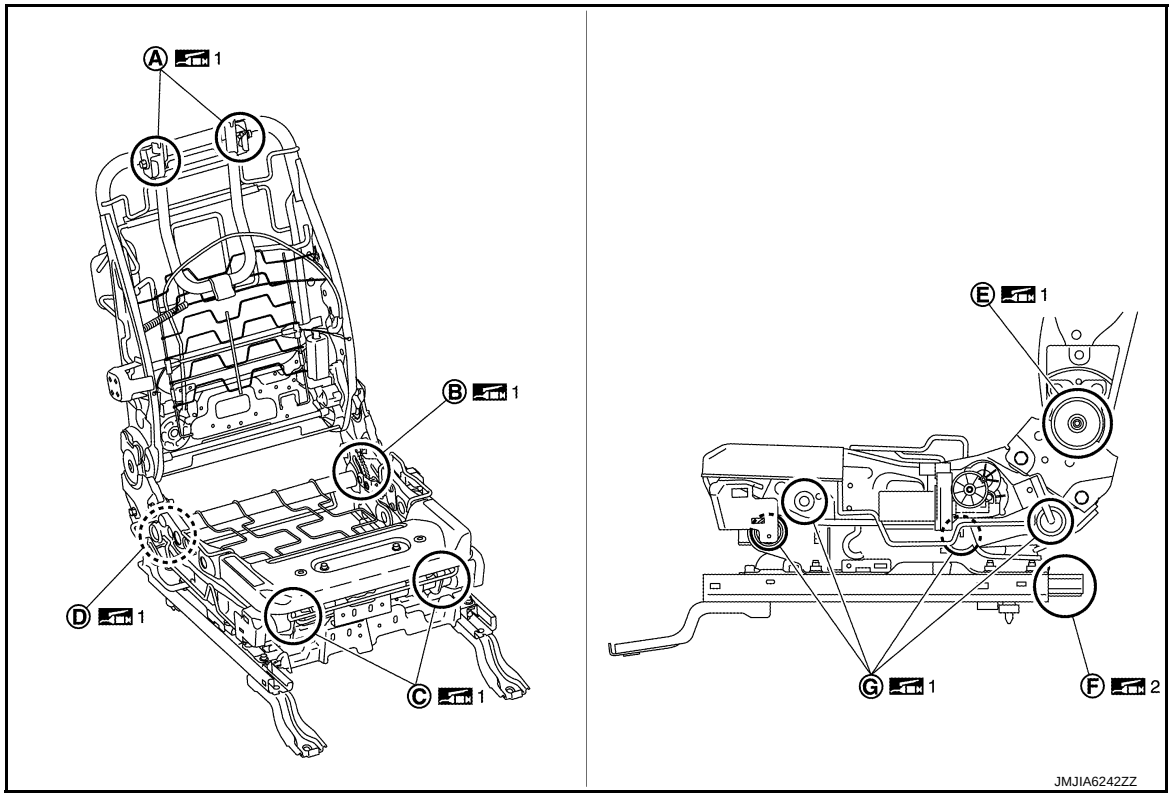
Note the following, and assemble in the reverse order of disassembly.

CAUTION:

- **Check seat cushion trim and seat cushion pad for damage. Replace with new part if necessary.**
- **Install seat cushion front hog rings (A) and seat cushion back hog rings (B) to the specified positions.**



- **Check the following parts for lubrication. Apply grease if necessary.**



A.	Active headrest rotation engage SP bolt portion	B.	Sector gear sliding portion	C.	Front lifter link sliding portion
D.	Rear lifter link sliding portion	E.	Recliner base core sliding portion	F.	Slide rail sliding portion
G.	Seat lifter pipe (front and rear) crimp sliding portion				

1 : Heat-resistant and cold-resistant grease (Nippeco LLP or an equivalent)

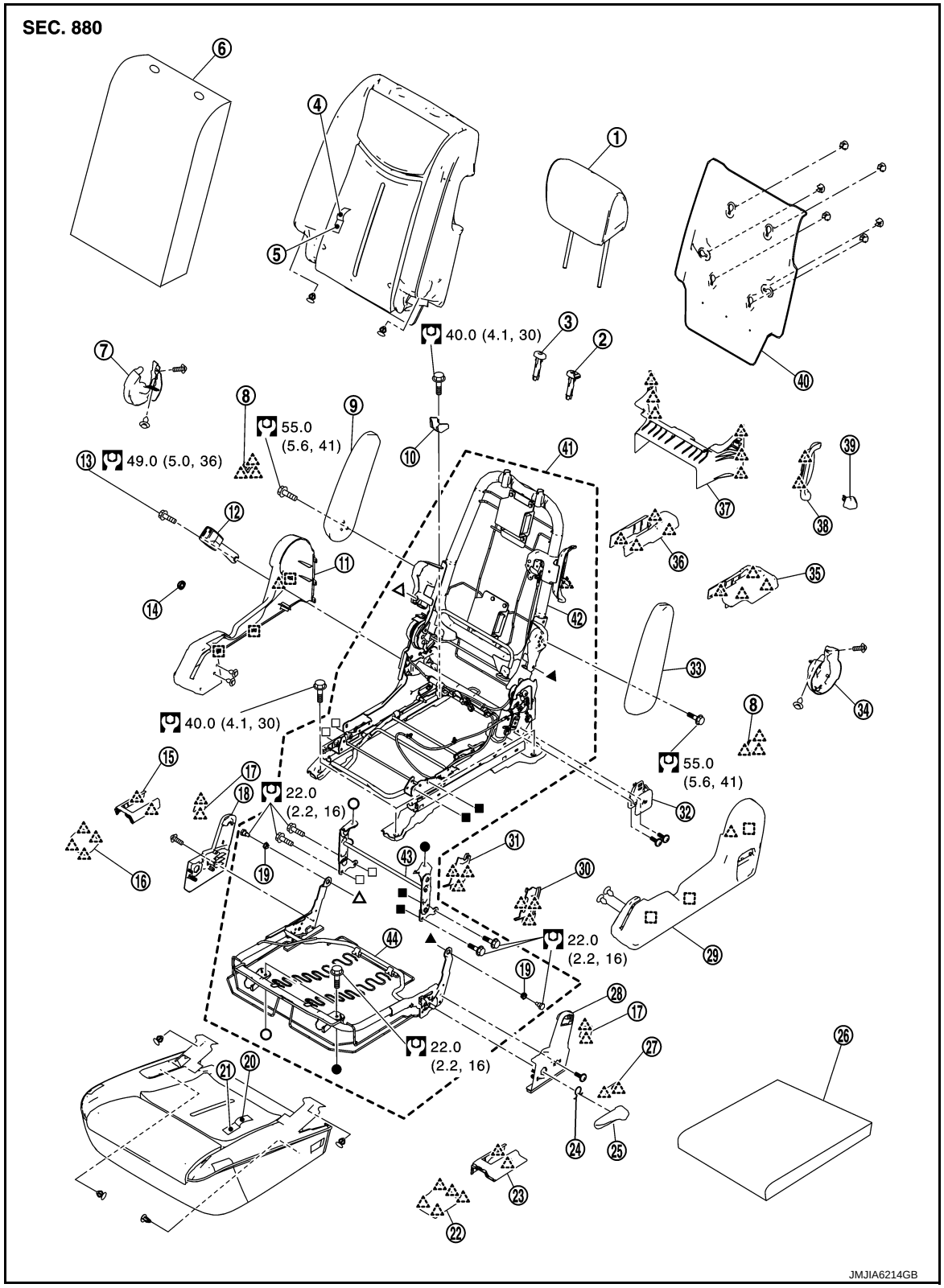
2 : Heat-resistant and cold-resistant grease (RHEOGEL or an equivalent)

- **If crimping using a hog ring is unsuccessful, secure using a new hog ring.**
- **Check that harness route and harness clip installation position are in the specified positions.**
- **When harness clip is damaged, mark the clip position and replace damaged clip with a new one in the original position.**
- **Tighten seat belt buckle anchor bolt to the specified torque.**
  For the specified torque, refer to SE-85, "Exploded View".

SECOND SEAT

Exploded View

INFOID:0000000009652991



1. Headrest
2. Headrest holder (locked)
3. Headrest holder (free)
4. Seatback trim
5. Seatback pad
6. Seatback silencer
7. Reclining device inner cover
8. Armrest cap
9. Inner armrest assembly

10. Seat slide bracket
11. Seat cushion inner finisher
12. Seat belt buckle
13. Anchor bolt
14. Anchor bolt cap
15. Seat front inner leg cover (rear)
16. Seat front inner leg cover (front)
17. Seat hinge finisher cap
18. Seat hinge outer finisher RH
19. Bush
20. Seat cushion trim
21. Seat cushion pad
22. Seat front outer leg cover (front)
23. Seat front outer leg cover (rear)
24. Snap ring
25. Seat reclining lever knob
26. Seat cushion silencer
27. Seat hinge finisher patch
28. Seat hinge outer finisher LH
29. Seat cushion outer finisher
30. Seat hinge inner finisher LH
31. Seat hinge inner finisher RH
32. Seat folding lever assembly
33. Outer armrest assembly
34. Reclining device outer cover
35. Seat rear outer leg cover
36. Seat rear inner leg cover
37. Seat cushion rear center finisher
38. Walk-in lever escutcheon
39. Walk-in lever knob
40. Seatback board
41. Seat frame & adjuster assembly
42. Seat frame assembly
43. Seat link assembly
44. Seat cushion frame

: Pawl

: Metal clip

: N·m (kg-m, ft-lb)

Removal and Installation

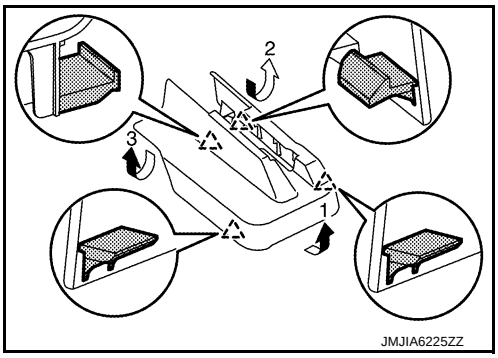
INFOID:0000000009652992

REMOVAL

1. Remove headrest.
2. Remove rear kicking plate. Refer to INT-22, "KICKING PLATE : Removal and Installation".
3. Slide seat to the frontmost position.
4. Remove seat rear outer leg cover.

a. Pull up the rear edge of the seat rear outer leg cover to release the pawls.
b. Pull seat rear outer leg cover in direction indicated by the arrow as shown in the figure. Disengage pawls on the rear side.

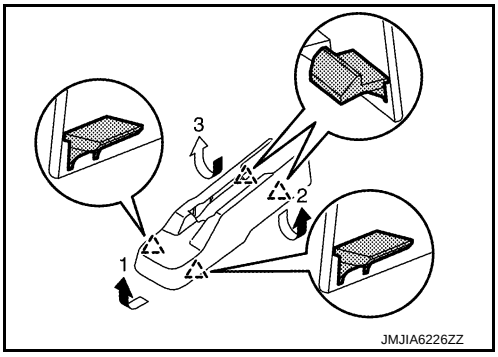
: Pawl



5. Remove seat rear inner leg cover.

a. Pull up the rear edge of the seat rear inner leg cover to release the pawls.
b. Pull seat rear inner leg cover in direction indicated by the arrow as shown in the figure. Disengage pawls on the rear side.

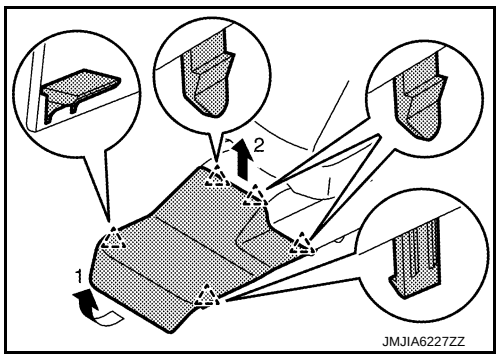
: Pawl



6. Remove rear outer mounting bolt.
7. Remove rear inner mounting bolt and seat slide bracket.
8. Slide seat to the rearmost position.
9. Remove seat front outer leg cover (front).

a. Pull up the front edge of the seat front outer leg (front) cover to release the pawls.
b. Pull seat front outer leg cover (front) upwards. Disengage pawls on the rear side.

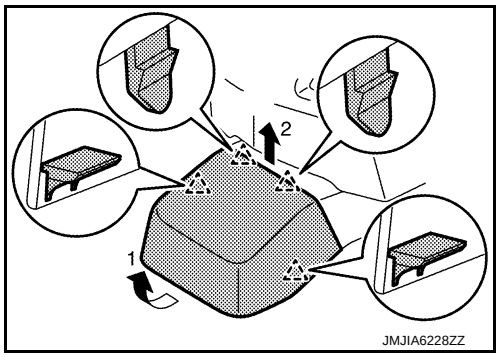
: Pawl



10. Remove seat front inner leg cover (front).

a. Pull up the front edge of the seat front inner leg (front) cover to release the pawls.
b. Pull seat front inner leg cover (front) upwards. Disengage pawls on the rear side.

: Pawl



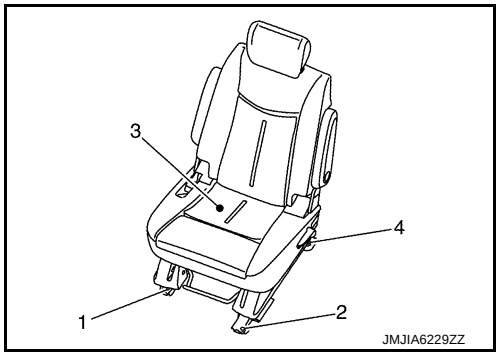
11. Remove front outer mounting bolt.
12. Remove front inner mounting bolt.
13. Remove seat from the vehicle.

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

INSTALLATION

Note the following items, and install in the reverse order of removal.

CAUTION:
- **When removing and installing, use shop cloths to protect parts from damage.**
- **When installing, tighten mounting bolts according to the numerical order as shown in the figure, starting from front inner mounting bolt.**
  For the specified torque, refer to SE-113, "Exploded View".



SEATBACK

SEATBACK : Disassembly and Assembly

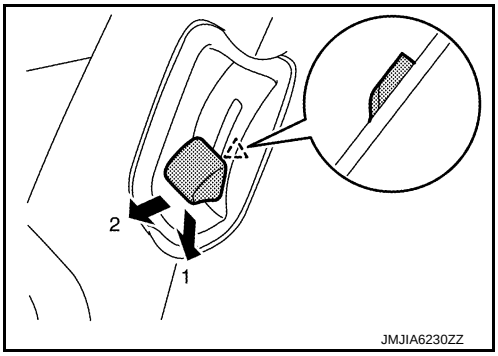
INFOID:0000000009652993

DISASSEMBLY

1. Remove walk-in lever escutcheon.

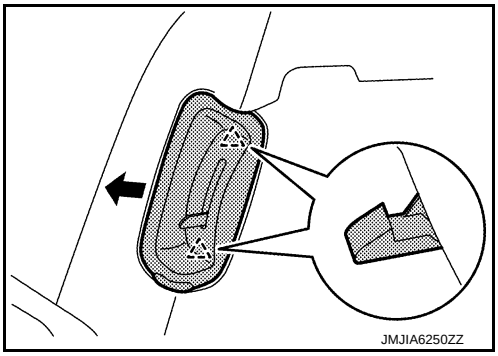
a. Pull down walk-in lever knob, disengage pawl using a screwdriver, and then slide walk-in lever knob to remove.

△ : Pawl



b. Pull walk-in lever escutcheon forward, disengage pawls, and then remove walk-in lever escutcheon.

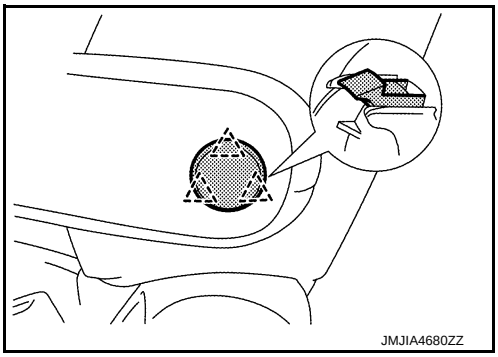
△ : Pawl



2. Remove inner armrest assembly and outer armrest.

a. Disengage pawls and remove armrest cap.

△ : Pawl



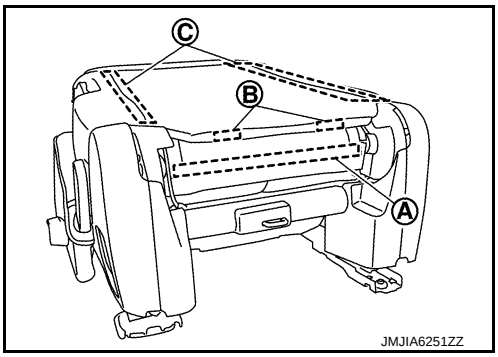
b. Remove mounting bolt, and then remove inner armrest assembly and outer armrest assembly.

3. Remove seatback board from the seat frame & adjuster assembly.

a. Operate seat reclining lever and fold seatback forward.

b. Remove seatback trim hook and loop fastener (A).

c. Remove seatback retainer (B), and then open seatback fastener (C).

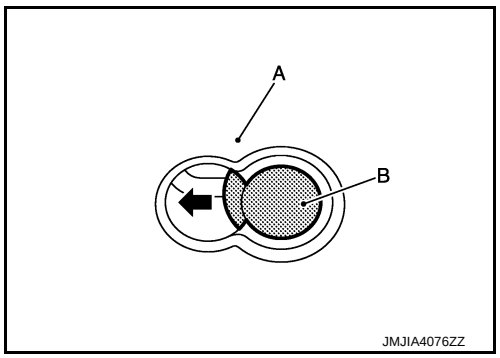


d. Remove rubber band installed on seatback board.

e. Slide and align the clips (B) to the holes on the seatback as shown in the figure, and then remove the seatback board (A).

CAUTION:

Always slide clips before removing seatback board. Clips may be damaged if seatback board is removed without sliding the clips.



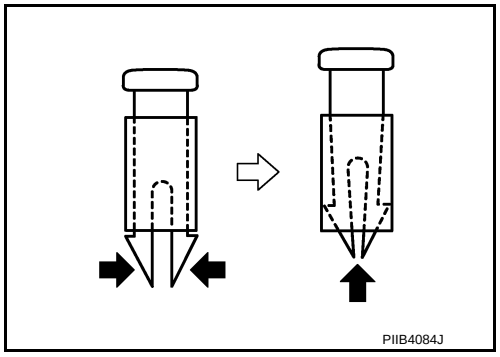
f. Remove seatback board fixing clips from seatback frame assembly.

4. Set the seatback vertically.

5. Use pincers, etc., to press up pawls as shown by the arrows in the figure, and remove headrest holder from seatback.

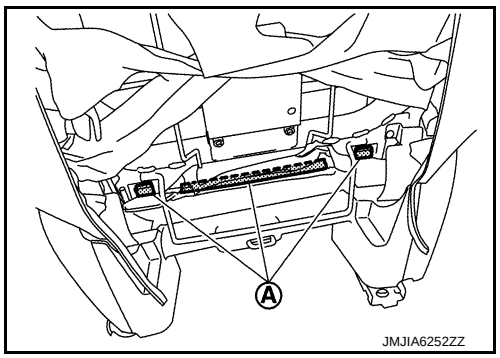
CAUTION:

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



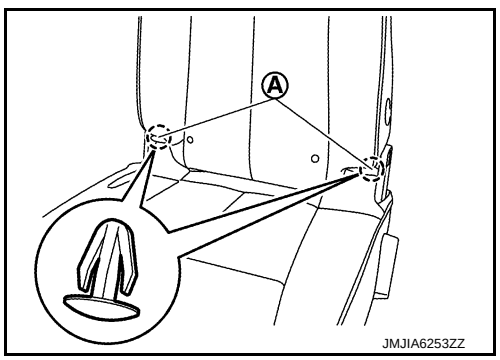
6. Remove seatback trim and seatback pad from seat frame & adjuster assembly.

a. Remove retainer (A) installed on seat frame & adjuster assembly.



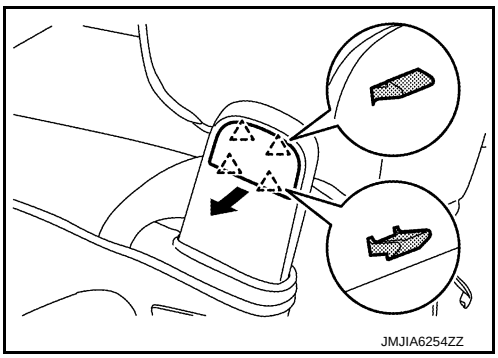
b. Remove seat cushion trim fixing clips (A) installed on seatback trim.

: Clip



c. Disengage pawls and remove seat hinge finisher caps. (Inner side and outer side.)

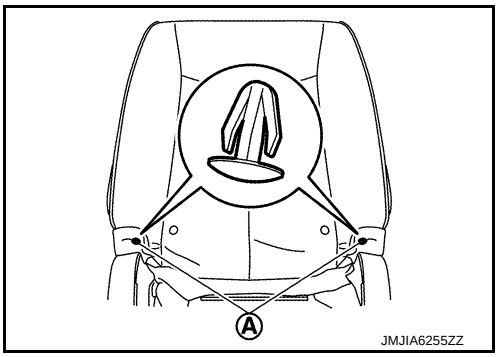
: Pawl



d. Remove seat cushion frame assembly mounting bolts. Remove seat cushion assembly from seat frame assembly.

e. Remove seatback trim fixing clips (A).

: Clip



f. Remove seatback trim and seatback pad from seat frame assembly.

7. Remove hog rings, and separate the seatback trim and seatback pad.
CAUTION:
Before performing separating operation, check the installation position of hog rings.

8. Remove fixing clip and screw, and then remove reclining device inner cover from seat frame assembly.

9. Remove fixing clip and screw, and then remove reclining device outer cover from seat frame assembly.

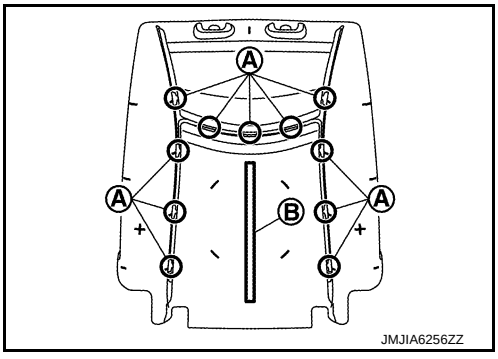
INSTALLATION

Note the following, and assembly in the reverse order of disassembly.

CAUTION:

- **Check seatback trim and seatback pad for damage. Replace with new part if necessary.**
- **Install hog ring (A) to the specified position as shown in the figure.**

B. hook and loop fastener



- **If crimping using a hog ring is unsuccessful, secure using a new hog ring.**

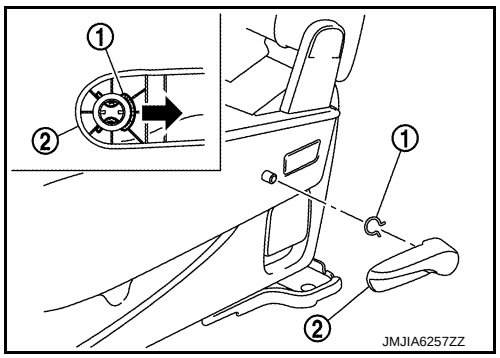
SEAT CUSHION

SEAT CUSHION : Disassembly and Assembly

INFOID:0000000009652994

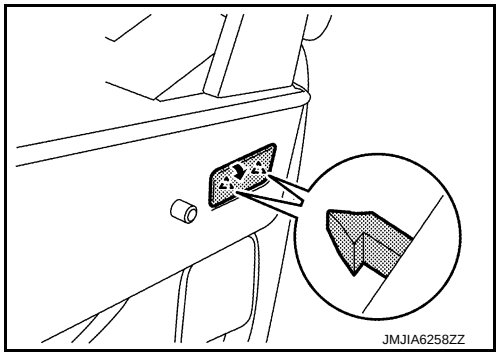
DISASSEMBLY

1. Remove snap ring (1) using a hook & pick tool, and then remove seat reclining device lever knob (2).
NOTE:
Remove snap ring while pressing seat cushion trim to the inner side of the seat. Snap ring can be easily removed.



2. Disengage pawls and remove seat hinge finisher patch from seat cushion trim.

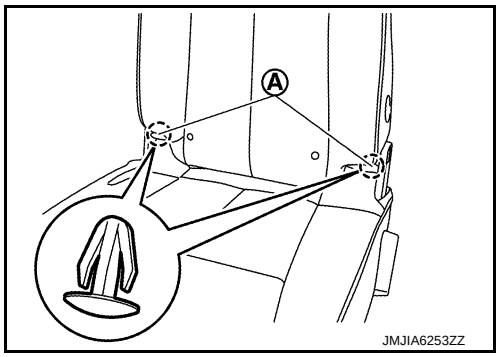
: Pawl



3. Remove seat cushion trim and seat cushion pad from seat cushion frame assembly.

a. Remove seat cushion trim fixing clips (A) installed on seat back trim.

: Clip

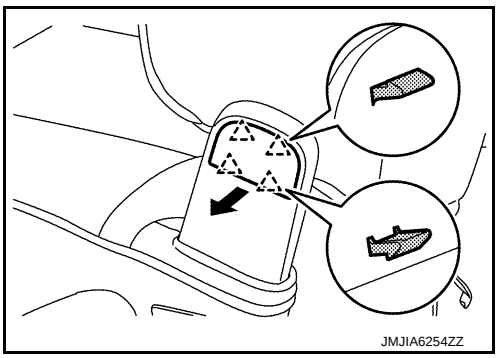


b. Remove seat cushion trim retainer from seat cushion frame assembly.
c. Remove seat cushion trim J hook from seat cushion frame assembly.
d. Remove seat cushion trim hook and loop fastener.
e. Remove seat cushion trim fixing clips installed on seat frame assembly.
f. Remove seat cushion trim and seat cushion pad from seat cushion frame assembly.

4. Remove hog rings, and separate the seatback trim and seatback pad.
CAUTION:
Before performing separating operation, check the installation position of hog rings.
5. Remove seat cushion silencer from seat cushion frame assembly.
6. Remove seat hinge outer finisher (LH and RH).

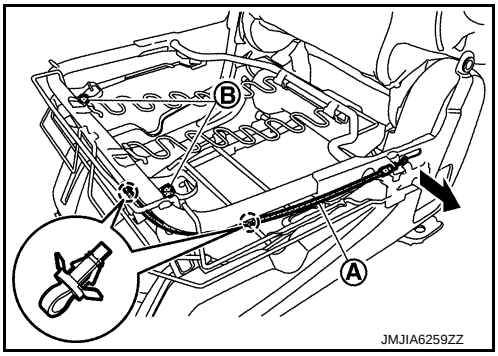
a. Disengage pawls and remove seat hinge finisher cap. (Inner side and outer side.)

: Pawl



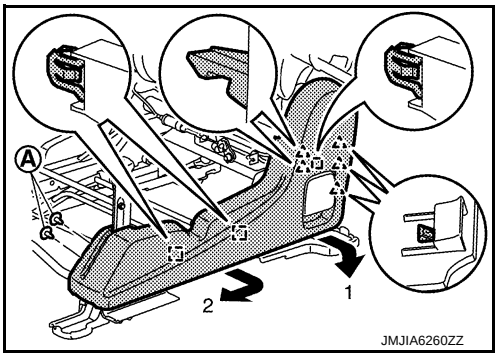
b. Remove seat cushion frame assembly rear side mounting bolt, and then remove seat cushion assembly from seat frame assembly.
c. Remove seat hinge outer finisher (LH and RH) fixing screws.
d. Remove seat hinge outer finisher (LH and RH).
7. Remove seat hinge inner finisher (LH and RH).
8. Remove seat cushion frame assembly from seat frame assembly.
a. Remove cable (A) from seat cushion frame assembly.
b. Remove cable fixing clips.
c. Remove seat cushion frame assembly front side mounting bolt (B) and then remove seat cushion frame assembly.

: Clip



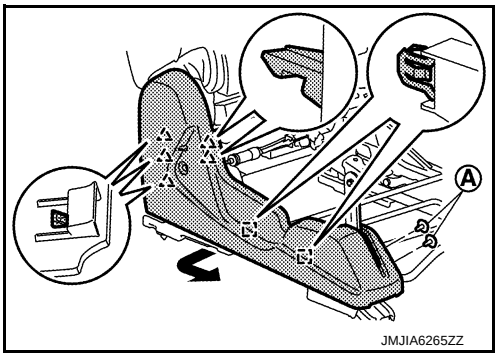
9. Remove seat cushion outer finisher.
a. Remove fixing clips (A).
b. Pull seat cushion outer finisher in direction indicated by the arrow. Disengage pawls and metal clips. Remove seat cushion outer finisher.

: Pawl
: Metal clip



10. Remove seat front outer leg cover (rear).
11. Remove seat cushion inner finisher.
a. Remove seat belt buckle. Refer to SB-13, "SEAT BELT BUCKLE : Removal and Installation".
b. Remove fixing clips (A).
c. Pull seat cushion inner finisher in direction indicated by the arrow. Disengage pawls and metal clips. Remove seat cushion inner finisher.

: Pawl
: Metal clip



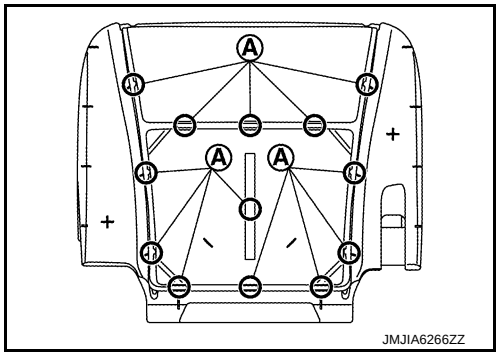
12. Remove seat front inner leg cover (rear).
13. Remove seat cushion rear center finisher.
14. Remove mounting bolts, and then remove seat link assembly.

ASSEMBLY

Note the following, and assemble in the reverse order of disassembly.

CAUTION:

- **Check seat cushion trim and seat cushion pad for damage. Replace with new part if necessary.**
- **Install hog ring (A) to the specified position as shown in the figure.**

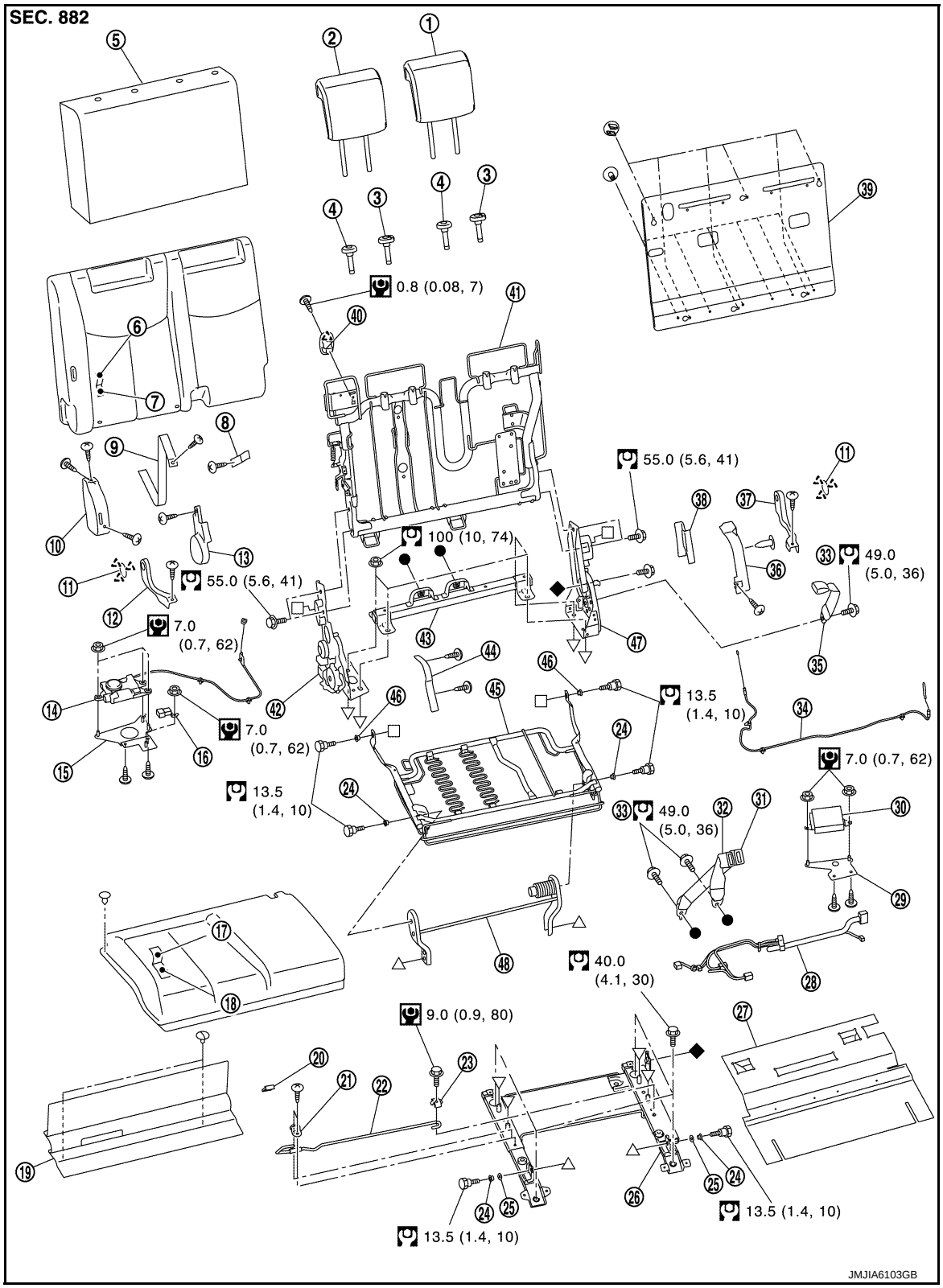


THIRD SEAT

Exploded View

INFOID:0000000009652995

RH SIDE SEAT

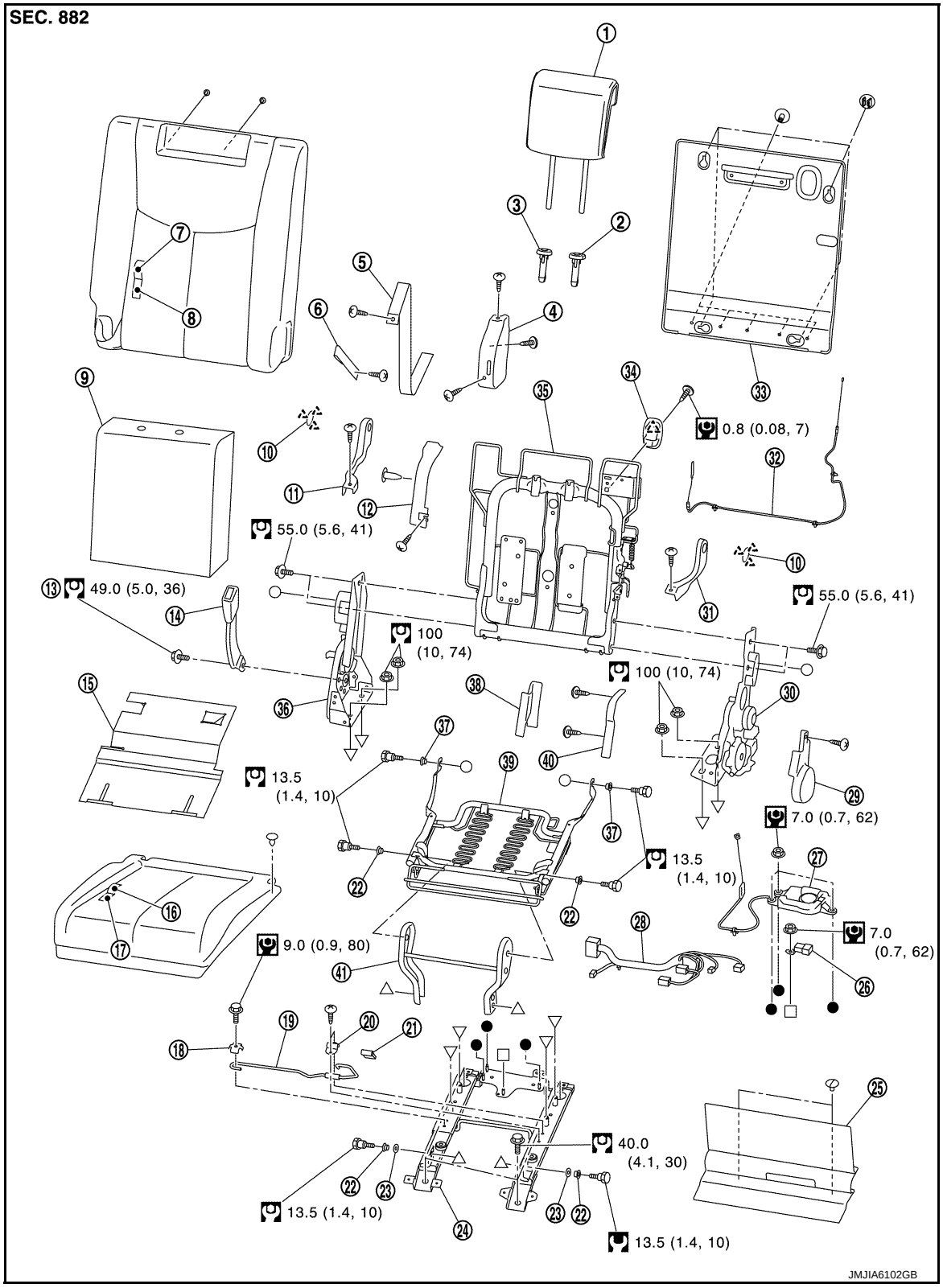


1. Center headrest
2. Headrest RH
3. Headrest holder (locked)
4. Headrest holder (free)
5. Seatback silencer
6. Seatback trim
7. Seatback pad
8. Seatback strap (front)
9. Seatback strap (rear)
10. Strap link cover
11. Seat cushion hinge cap
12. Seat cushion outer hinge cover
13. Seat hinge arm cover
14. Seatback lock actuator
15. Actuator bracket
16. Seatback lock relay
17. Seat cushion trim
18. Seat cushion pad
19. Seat cushion carpet
20. Torsion bar silencer
21. Seat torsion bar outer bracket
22. Seat torsion bar
23. Seat torsion bar inner bracket
24. Bush A
25. Washer
26. Seat adjuster assembly
27. Seat adjuster lower carpet
28. Seat harness assembly
29. Control unit bracket
30. Seat control unit
31. Center seat belt buckle
32. RH seat belt buckle
33. Anchor bolt
34. Reclining cable
35. Connector buckle
36. Reclining device cover
37. Seat cushion inner hinge cover
38. Reclining arm cover
39. Seatback board
40. Seatback hook assembly
41. Seatback frame
42. Seat hinge assembly
43. Reinforcement pipe assembly
44. Seat hinge cover
45. Seat cushion frame assembly
46. Bush B
47. Reclining device assembly
48. Seat link assembly

: Pawl

: N·m (kg-m, ft-lb)

LH SIDE SEAT



1. Headrest
2. Headrest holder (locked)
3. Headrest holder (free)
4. Strap link cover
5. Seatback strap (rear)
6. Seatback strap (front)
7. Seatback trim
8. Seatback pad
9. Seatback silencer
10. Seat cushion hinge cap
11. Seat cushion inner hinge cover
12 Reclining device cover
13. Anchor bolt
14. LH seat belt buckle
15. Seat adjuster lower carpet
16. Seat cushion trim
17. Seat cushion pad
18. Seat torsion bar inner bracket

19. Seat torsion bar
20. Seat torsion bar outer bracket
21. Torsion bar silencer
22. Bush A
23. Washer
24. Seat adjuster assembly
25. Seat cushion carpet
26. Seatback lock relay
27. Seatback lock actuator
28. Seat harness assembly
29. Seat hinge arm cover
30. Seat hinge assembly
31. Seat cushion outer hinge cover
32. Reclining cable
33. Seatback board
34. Seatback hook assembly
35. Seatback frame
36. Reclining device assembly
37. Bush B
38. Reclining arm cover
39. Seat cushion frame assembly
40. Seat hinge cover
41. Seat link assembly

: Pawl

: N·m (kg-m, ft-lb)

Removal and Installation

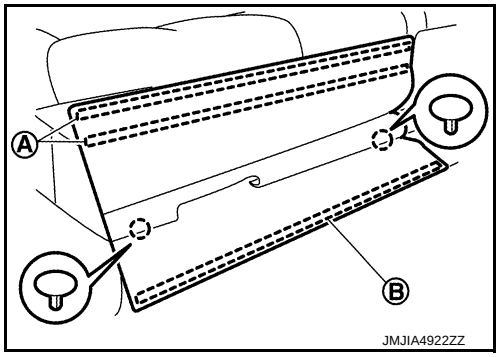
INFOID:0000000009652996

REMOVAL

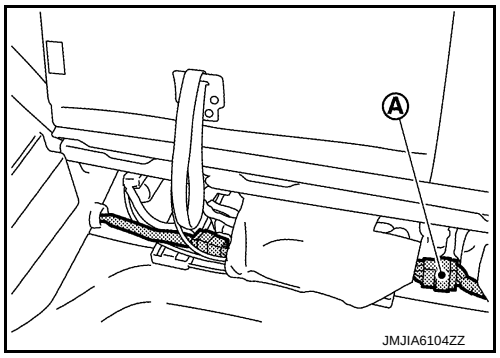
RH side seat

1. Remove headrest.
2. Remove hook and loop fastener (A) on seat cushion carpet and disengage clips.
3. Remove hook and loop fastener (B) on seat cushion carpet and remove seat cushion carpet.

: Clip



4. Remove front outer mounting bolt.
5. Remove front inner mounting bolt.
6. Operate seatback strap and fold seatback toward vehicle front.
7. Remove luggage floor rear board. Refer to INT-40, "LUGGAGE FLOOR REAR BOARD : Removal and Installation".
8. Remove cable cover. Refer to INT-41, "CABLE COVER : Removal and Installation".
9. Remove rear outer mounting bolt.
10. Remove rear inner mounting bolt.
11. Disconnect harness connector (A). (only for seat with seatback power return system or seatback power folding system)



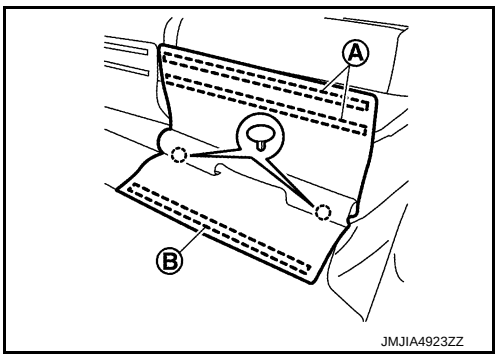
12. Remove seat from the vehicle.
    CAUTION:
    When removing and installing, use shop cloths to protect parts from damage.

LH side seat

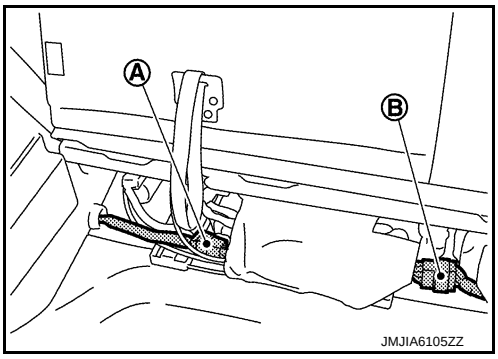
1. Remove headrest.

2. Remove hook and loop fastener (A) on seat cushion carpet and disengage clips.
3. Remove hook and loop fastener (B) on seat cushion carpet and remove seat cushion carpet.

: Clip



4. Remove front outer mounting bolt.
5. Remove front inner mounting bolt.
6. Operate seatback strap and fold seatback toward vehicle front.
7. Remove luggage floor rear board. Refer to INT-40, "LUGGAGE FLOOR REAR BOARD : Removal and Installation".
8. Remove cable cover. Refer to INT-41, "CABLE COVER : Removal and Installation".
9. Remove rear outer mounting bolt.
10. Remove rear inner mounting bolt.
11. Disconnect harness connector (A) and (B). (only for seat with seatback power return system or seatback power folding system)



12. Remove seat from the vehicle.
    CAUTION:
    When removing and installing, use shop cloths to protect parts from damage.

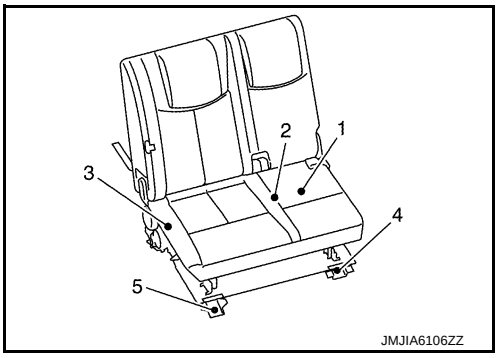
INSTALLATION

RH side seat

Note the following items, and install in the reverse order of removal.

CAUTION:

- **When removing and installing, use shop cloths to protect parts from damage.**
- **Before tightening bolts, check that the carpet is not caught in bolt holes on mounting portion.**
- **When installing seat to the vehicle, fold seatback toward vehicle front, and then mount the seat to the vehicle.**
- **When installing, tighten mounting bolts according to the numerical order as shown in the figure, starting from rear inner mounting bolt.**
  For the specified torque, refer to SE-122, "Exploded View".

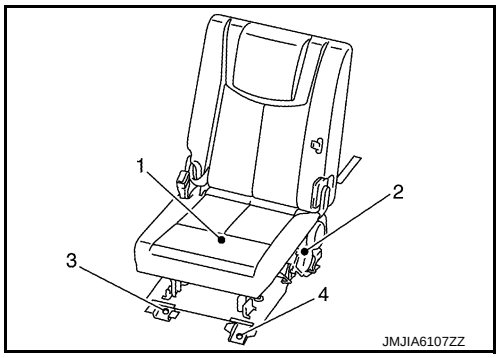


LH side seat

Note the following items, and install in the reverse order of removal.

CAUTION:

- **When removing and installing, use shop cloths to protect parts from damage.**
- **Before tightening bolts, check that the carpet is not caught in bolt holes on mounting portion.**
- **When installing seat to the vehicle, fold seatback toward vehicle front, and then mount the seat to the vehicle.**
- **When installing, tighten mounting bolts according to the numerical order as shown in the figure, starting from rear inner mounting bolt.**
  For the specified torque, refer to SE-122, "Exploded View".



SEATBACK

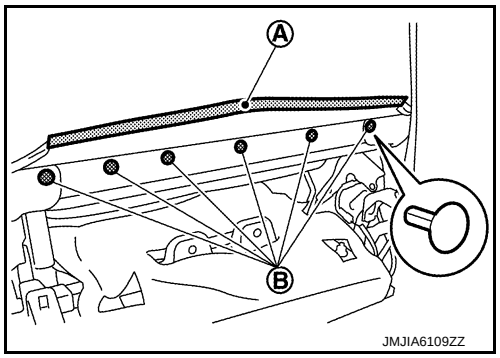
SEATBACK : Disassembly and Assembly

INFOID:0000000009652997

DISASSEMBLY

RH side seat

1. Remove RH seat belt buckle and center seat belt buckle. Refer to SB-19, "SEAT BELT BUCKLE : Removal and Installation".
2. Remove seat cushion frame assembly from seatback. Refer to SE-132, "SEAT CUSHION : Disassembly and Assembly".
3. Remove seatback hook and loop fastener (A).
4. Roll up seatback trim, and then remove seatback trim fixing clips (B).

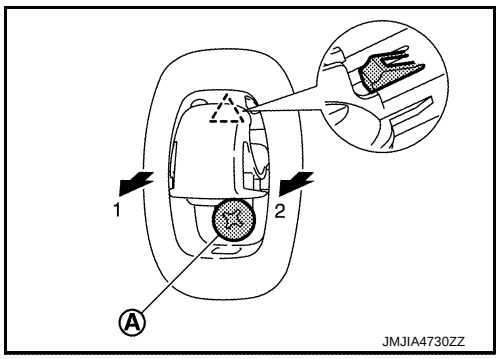


5. Remove seatback hook assembly.

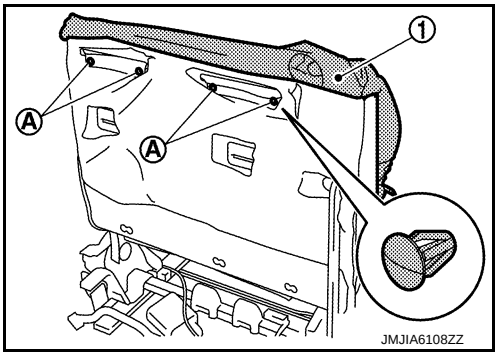
a. Rotate seatback hook to the position where mounting screw (A) can be removed, and then remove screw.

b. Pull seatback hook assembly forward, disengage pawl, and then remove seatback hook assembly from the seatback.

: Pawl

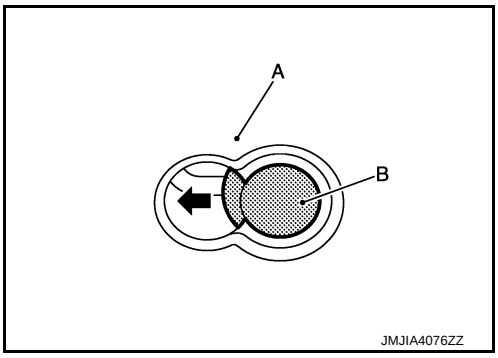


6. Pull up seatback trim (1) to the position where seatback trim mounting clips (A) can be removed.
CAUTION:
Be careful not to damage seatback trim when pulling up seatback trim.
7. Remove seatback trim fixing clips.



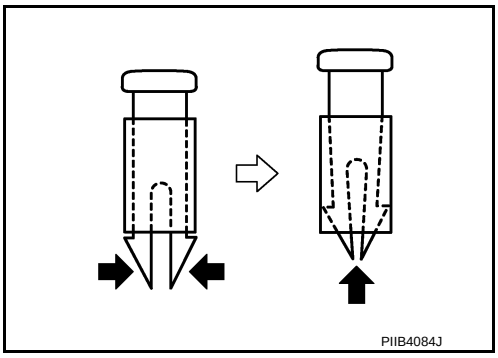
8. Remove seatback board and seatback board fixing clips from seatback frame.

a. Slide and align the clips (B) to the holes on the seatback as shown in the figure, and then remove the seatback board (A).
CAUTION:
Always slide clips before removing seatback board. Clips may be damaged if seatback board is removed without sliding the clips.



b. Remove seatback board fixing clips from seatback frame.

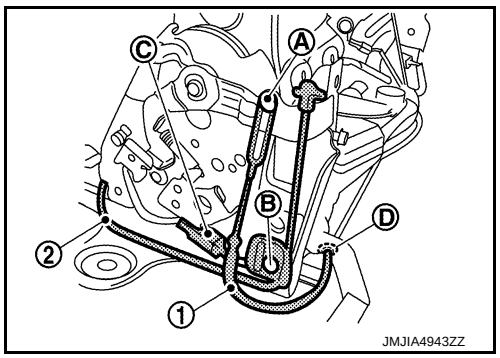
9. Use pincers, etc., to press up pawls as shown by the arrows in the figure, and remove headrest holder from seatback.
CAUTION:
Before installing headrest holder check its orientation. (front/rear and right/left)



10. Pull out seatback strap from seatback pad.
11. Remove seatback trim and seatback pad from seatback frame.
12. Remove hog rings, and separate the seatback trim and seatback pad.
CAUTION:
Before performing separating operation, check the installation position of hog rings.
13. Remove seatback silencer from seatback frame.
14. Remove seat hinge assembly and reclining device assembly from seat adjuster assembly.

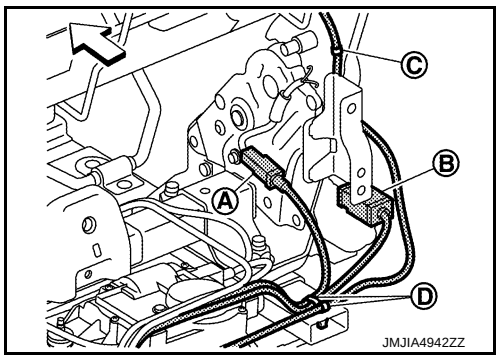
a. Remove seat adjuster lower carpet retainer, and then remove seat adjuster lower carpet from seat adjuster assembly.
b. Remove fixing screws, and then remove seat hinge arm cover and seat hinge cover from seat hinge assembly.
c. Remove fixing screws and clip, and then remove reclining arm cover and reclining device cover from reclining device assembly.
d. Remove following parts from reclining device assembly.

i. Remove fixing screw (A), and then remove reclining wire (1).
ii. Remove fixing screw (B), and then remove actuator wire (2). (only for seat with seatback power return system or seatback power folding system)
iii. Disconnect harness connector (C). (only for seat with seatback power return system)
iv. Remove wire clamp (D).

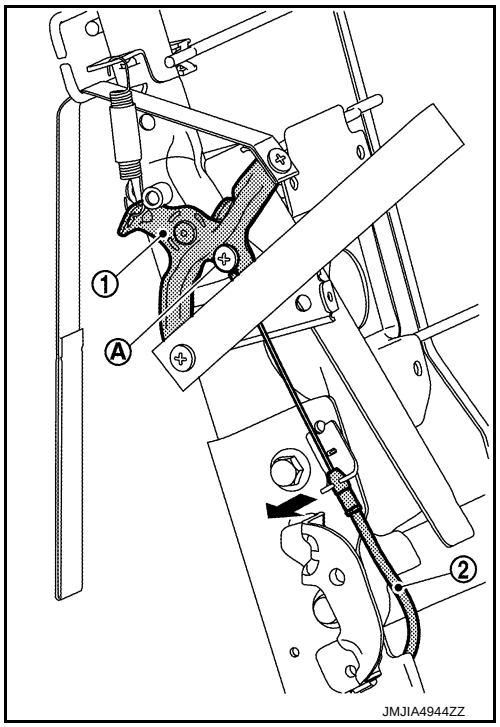


e. Remove following parts from seat hinge assembly.
i. Disconnect harness connector (A) and (B). (only for seat with seatback power return system)
ii. Remove wire clamp (C).
iii. Remove wire clamp and harness clamp (only for seat with seatback power return system) (D).

⇦ : Vehicle front



f. Remove fixing screws, and then remove strap link cover from seatback frame assembly.
g. Remove reclining wire (2) fixing screw (A) installed on strap link (1).
h. Remove reclining wire from seat hinge assembly in direction indicated by the arrow as shown in the figure.



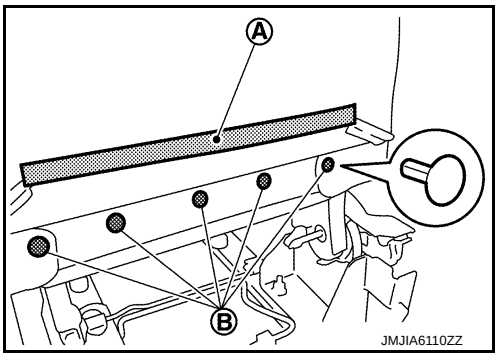
i. Remove fixing screws, and then remove seatback strap (front and rear).
j. Remove mounting nuts, and then remove reinforcement pipe assembly from seat adjuster assembly.
k. Remove seat hinge assembly and reclining device assembly from seat adjuster assembly.
15. Remove mounting bolts, and then remove seat hinge assembly and reclining device assembly from seatback frame assembly.

LH side seat

1. Remove LH seat belt buckle. Refer to SB-19, "SEAT BELT BUCKLE : Removal and Installation".
2. Remove seat cushion frame assembly from seatback frame assembly.

Refer to SE-132, "SEAT CUSHION : Disassembly and Assembly".

3. Remove seatback hook and loop fastener (A).
4. Roll up seatback trim, and then remove fixing clips (B).

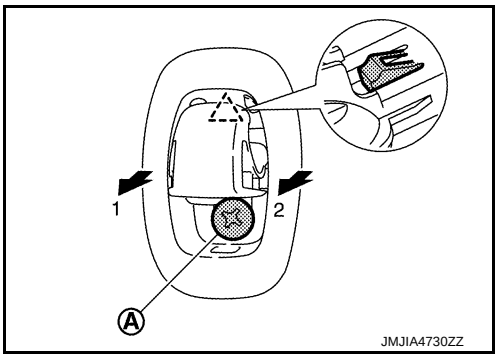


5. Remove seatback hook assembly.

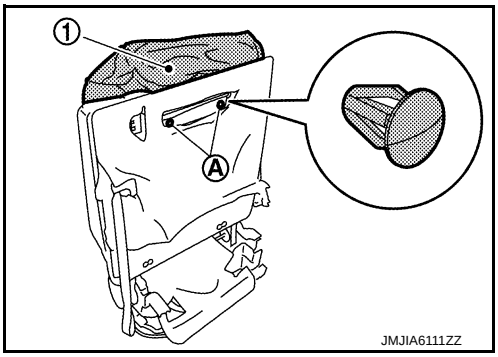
a. Rotate seatback hook to the position where mounting screw (A) can be removed, and then remove screw.

b. Pull seatback hook assembly forward, disengage pawl, and then remove seatback hook assembly from the seatback.

: Pawl

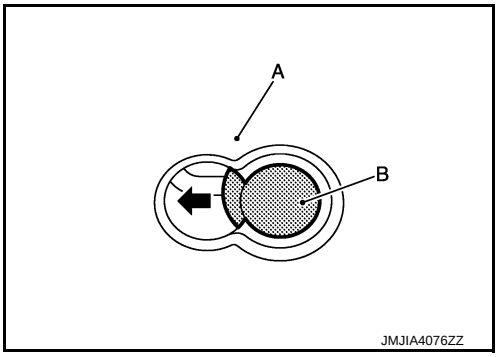


6. Pull up seatback trim (1) to the position where seatback trim mounting clips (A) can be removed.
CAUTION:
Be careful not to damage seatback trim when pulling up seatback trim.
7. Remove seatback trim fixing clips.



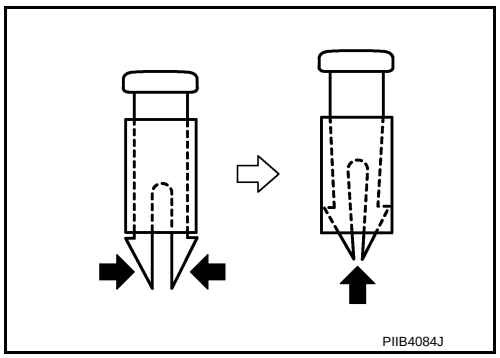
8. Remove seatback board and fixing clips.

a. Slide and align the clips (B) to the holes on the seatback as shown in the figure, and then remove the seatback board (A).
CAUTION:
Always slide clips before removing seatback board. Clips may be damaged if seatback board is removed without sliding the clips.



b. Remove seatback board fixing clips from seatback frame.

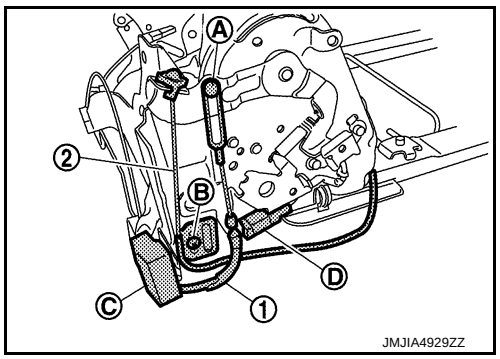
9. Use pincers, etc., to press up pawls as shown by the arrows in the figure, and remove headrest holder from seatback.
CAUTION:
Before installing headrest holder check its orientation. (front/rear and right/left)



10. Pull out seatback strap from seatback pad.
11. Remove seatback trim and seatback pad from seatback frame assembly.
12. Remove hog rings, and separate the seatback trim and seatback pad.
CAUTION:
Before performing separating operation, check the installation position of hog rings.
13. Remove seatback silencer from seatback frame.
14. Remove seat hinge assembly and reclining device assembly from seat adjuster assembly.

a. Remove seat adjuster lower carpet retainer, and then remove seat adjuster assembly from seat adjuster assembly.
b. Remove fixing screws and clips, and then remove reclining device cover and reclining arm cover from reclining device assembly.
c. Remove fixing screws, and then remove seat hinge arm cover and seat hinge cover from seat hinge assembly.
d. Remove following parts from reclining device assembly.

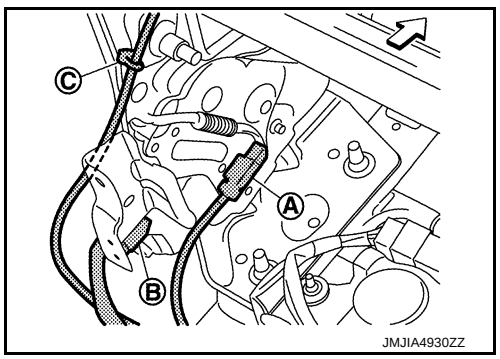
i. Remove fixing screw (A), and then remove reclining wire (1).
ii. Remove fixing screw (B), and then remove actuator wire (2). (only for seat with seatback power return system or seatback power folding system)
iii. Remove harness connector clip (C). (only for seat with seatback power return system or seatback power folding system)
iv. Disconnect harness connector (D). (only for seat with seatback power return system)



e. Remove following parts from seat hinge assembly.

i. Disconnect harness connector (A) and (B). (only for seat with seatback power return system)
ii. Remove wire clamp (C).

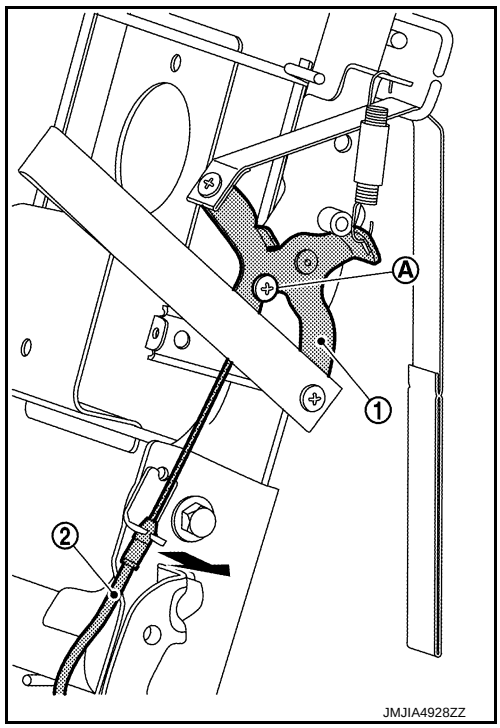
⇦ : Vehicle front



f. Remove fixing screws, and then remove strap link cover from seatback frame assembly.

g. Remove reclining wire (2) fixing screw (A) installed on strap link (1).

h. Remove reclining wire from seat hinge assembly in direction indicated by the arrow as shown in the figure.



i. Remove mounting nut, and then remove seat hinge assembly and reclining device assembly from seat adjuster assembly.

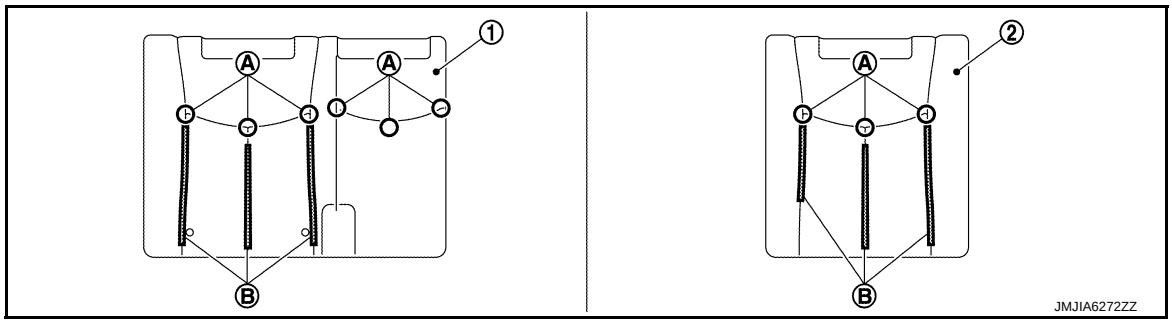
15. Remove mounting bolts, and then remove seat hinge assembly and reclining device assembly from seat-back frame assembly.

ASSEMBLY

Note the following, and assemble in the reverse order of disassembly.

CAUTION:

- **Check seatback trim and seatback pad for damage. Replace with new part if necessary.**
- **Install hog ring (A) to the specified position as shown in the figure.**



1. Seatback RH
2. Seatback LH

B. hook and loop fastener

SEAT CUSHION

SEAT CUSHION : Disassembly and Assembly

INFOID:0000000009652998

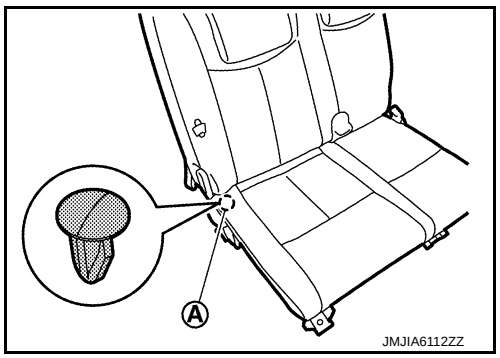
DISASSEMBLY

RH side seat

1. Remove seat belt connector buckle. Refer to SB-19, "SEAT BELT BUCKLE : Removal and Installation".
2. Remove seat cushion trim retainer from seat cushion frame assembly.

3. Disengage seat cushion trim fixing clip (A).

: Clip



4. Remove seat cushion trim and seat cushion pad from seat cushion frame assembly.
5. Remove hog rings, and separate the seatback trim and seatback pad.

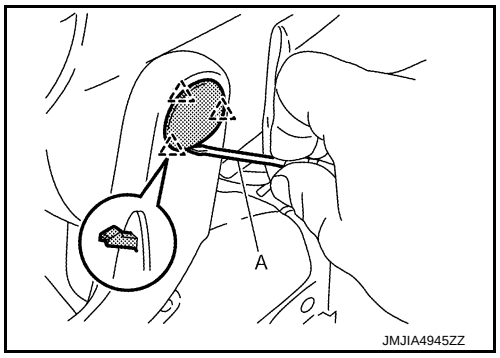
CAUTION:
Before performing separating operation, check the installation position of hog rings.

6. Remove seat cushion frame assembly from seatback.

a. Remove mounting bolts, and then remove seat cushion frame assembly from seat link assembly.

b. Disengage pawls using a screwdriver (A), and then remove seat cushion hinge cover cap of the seat cushion outer hinge cover and seat cushion inner hinge cover.

: Pawl



c. Remove mounting bolts, and then remove seat cushion frame assembly from seatback.

7. Remove following parts from seat cushion frame assembly.
   - Remove fixing screw, and then remove seat cushion outer hinge cover.
   - Remove fixing screw, and then remove seat cushion inner hinge cover.
8. Remove mounting bolts, and then remove seat link assembly from seat adjuster assembly.
9. Remove mounting nuts, and then remove reinforcement pipe assembly, seat hinge assembly and reclining device assembly from seat adjuster assembly.
   Refer to SE-127, "SEATBACK : Disassembly and Assembly".
10. Remove control unit bracket from reinforcement pipe assembly. (only for seat with seatback power return system)

a. Disconnect harness connector.
b. Remove mounting nuts, and then remove seatback power return control unit.
c. Remove harness clamp installed on control unit bracket.
d. Remove fixing screws, and then remove control unit bracket.

11. Remove actuator bracket from reinforcement pipe assembly. (only for seat with seatback power return system or seatback power folding system)

a. Disconnect harness connector.
b. Remove fixing nuts and wire clamp, and then remove seatback lock release actuator from actuator bracket.
c. Disconnect harness connector, and then remove seatback lock release relay.
d. Remove fixing screw, and then remove actuator bracket.

12. Remove seat harness assembly from seat adjuster assembly. (only for seat with seatback power return system or seatback power folding system)
13. Remove seat torsion bar.

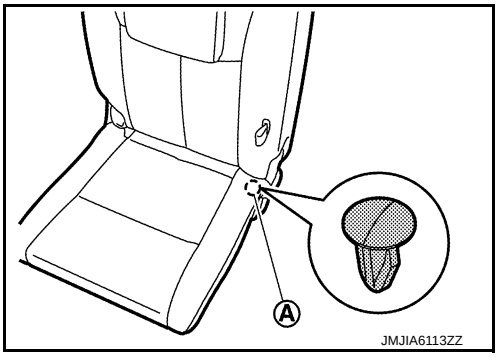
a. Remove mounting bolt, and then remove seat torsion bar inner bracket.

b. Remove fixing screws, and then remove seat torsion bar outer bracket.
c. Remove seat torsion bar from seat adjuster assembly.
14. Remove seat torsion bar silencer from seat torsion bar.

LH side seat

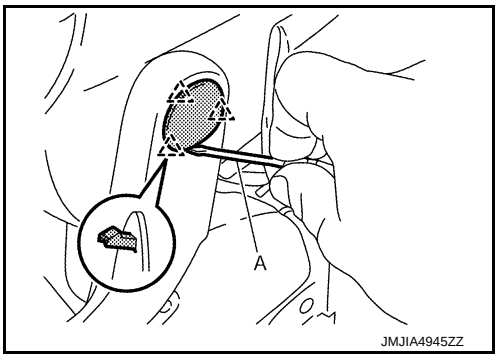
1. Remove LH seat belt buckle. Refer to SB-19, "SEAT BELT BUCKLE : Removal and Installation".
2. Remove seat cushion trim retainer from seat cushion frame assembly.
3. Disengage seat cushion trim fixing clip (A).

: Clip



4. Remove seat cushion trim and seat cushion pad from seat cushion frame assembly.
5. Remove hog rings, and separate the seatback trim and seatback pad.
CAUTION:
Before performing separating operation, check the installation position of hog rings.
6. Remove seat cushion frame assembly from seatback.
a. Remove mounting bolt, and then remove seat cushion frame assembly from seat link assembly.
b. Disengage pawls using a screwdriver (A), and then remove seat cushion hinge cover cap of the seat cushion outer hinge cover and seat cushion inner hinge cover.

: Pawl



c. Remove mounting bolts, and then remove seat cushion frame assembly from seatback.
7. Remove following parts from seat cushion frame assembly.
- Remove fixing screw, and then remove seat cushion outer hinge cover.
- Remove fixing screw, and then remove seat cushion inner hinge cover.

8. Remove mounting bolts, and then remove seat link assembly from seat adjuster assembly.
9. Remove mounting nuts, and then remove seat hinge assembly and reclining device assembly from seat adjuster assembly.
Refer to SE-127, "SEATBACK : Disassembly and Assembly".
10. Remove seatback lock release actuator. (only for seat with seatback power return system or seatback power folding system)
a. Disconnect harness connector.
b. Remove fixing nuts and wire clamp, and then remove seatback lock release actuator from seat adjuster assembly.
11. Remove seatback lock release relay. (only for seat with seatback power return system or seatback power folding system)
a. Disconnect harness connector.
b. Remove mounting nut, and then remove seatback lock release relay from seat adjuster assembly.
12. Remove seat harness assembly from seat adjuster assembly. (only for seat with seatback power return system or seatback power folding system)

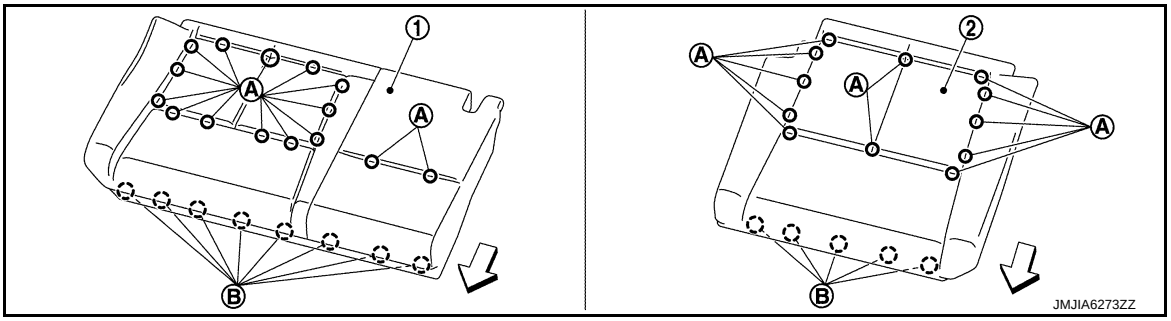
13. Remove seat torsion bar.
a. Remove mounting bolt, and then remove seat torsion bar inner bracket.
b. Remove fixing screws, and then remove seat torsion bar outer bracket.
c. Remove seat torsion bar from seat adjuster assembly.
14. Remove seat torsion bar silencer from seat torsion bar.

ASSEMBLY

Note the following, and assemble in the reverse order of disassembly.

CAUTION:

- **Check seat cushion trim and seat cushion pad for damage. Replace with new part if necessary.**
- **Install seat cushion front hog rings (A) and seat cushion back hog rings (B) to the specified positions.**



1. Seat cushion RH
2. Seat cushion LH

⇦ : Vehicle front

- **If crimping using a hog ring is unsuccessful, secure using a new hog ring.**
- **Tighten seat belt buckle anchor bolt to the specified torque.**
  For the specified torque, refer to SE-122, "Exploded View".

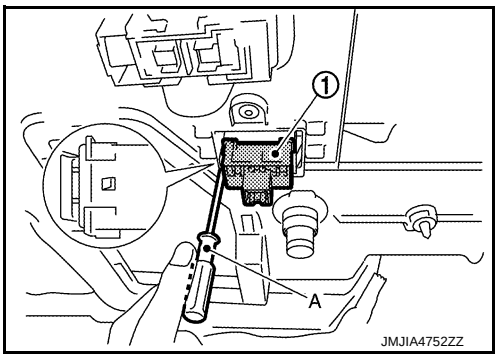
THIRD SEAT FOLD SWITCH

Removal and Installation

INFOID:0000000009652999

REMOVAL

1. Remove luggage side lower finisher. Refer to INT-43, "LUGGAGE SIDE LOWER FINISHER : Removal and Installation".
2. Remove third seat fold switch (1) from luggage side lower finisher using remover tool (A).



INSTALLATION

Install in the reverse order of removal.

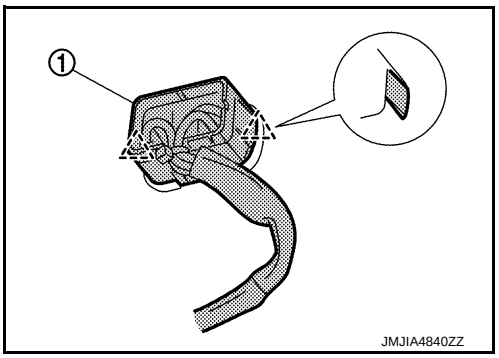
LUMBAR SUPPORT SWITCH

Removal and Installation

INFOID:0000000009653000

REMOVAL

1. Remove seat cushion inner finisher (For manual seat. Refer to SE-88, "Removal and Installation") or outer finisher (For power seat. Refer to SE-102, "Removal and Installation").
2. Remove lumber support switch (1) from seat cushion finisher.



: **Pawl**

INSTALLRATION

Install in the reverse order of removal.

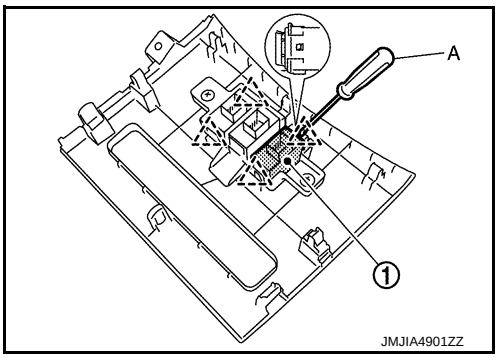
HEATED SEAT SWITCH

Removal and Installation

INFOID:0000000009653001

REMOVAL

1. Remove instrument lower center panel. Refer to IP-14, "Removal and Installation".
2. Remove heated seat switch (1) from instrument lower center panel using remover tool (A).



: **Pawl**

INSTALLRATION

Install in the reverse order of removal.

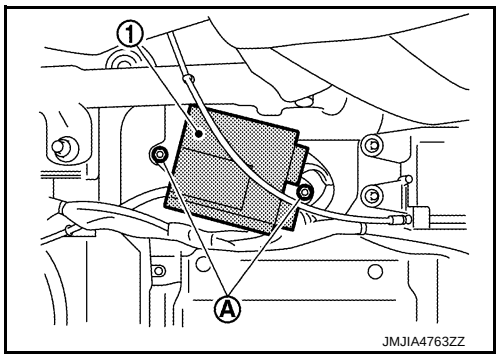
SEATBACK POWER RETURN CONTROL UNIT

Removal and Installation

INFOID:0000000009653002

REMOVAL

1. Remove luggage floor front board. Refer to INT-42, "LUGGAGE FLOOR FRONT BOARD : Removal and Installation".
2. Remove screws (A), and then remove seatback power return control unit (1).



INSTALLRATION

Install in the reverse order of removal.