SECTION SE
SEAT

CONTENTS

BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

WorkFlow

INFOID:0000000007457206

DETAILED FLOW

1.OBTAIN INFORMATION ABOUT SYMPTOM

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

>> GO TO 2.

2.REPRODUCE THE MALFUNCTION INFORMATION

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

>> GO TO 3.

3.IDENTIFY THE MALFUNCTIONING SYSTEM WITH “SYMPTOM DIAGNOSIS”

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

>> GO TO 4.

4.IDENTIFY THE MALFUNCTIONING PARTS WITH “COMPONENT DIAGNOSIS”

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

>> GO TO 5.

5.REPAIR OR REPLACE THE MALFUNCTIONING PARTS

Repair or replace the specified malfunctioning parts.

>> GO TO 6.

6.FINAL CHECK

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

Are the malfunctions corrected?

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

SYSTEM DESCRIPTION

POWER SEAT

System Description

INFOID:0000000007457207

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

SLIDING OPERATION

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

RECLINING OPERATION

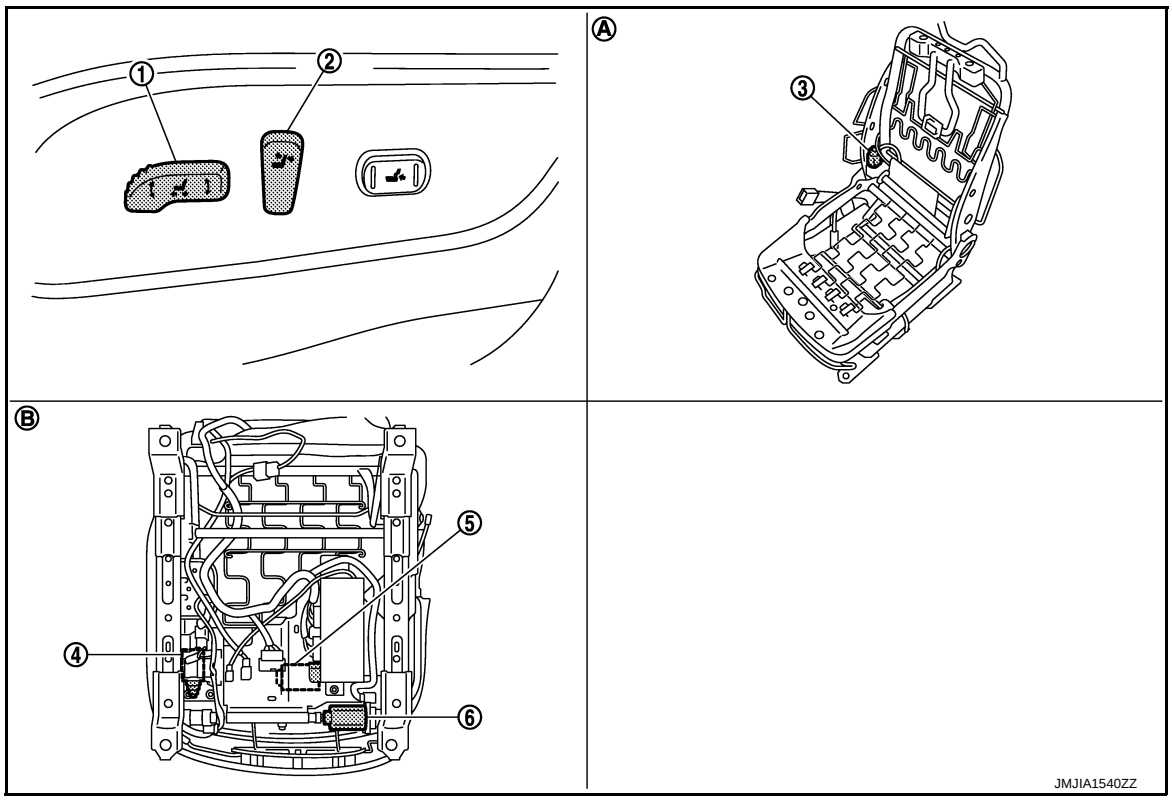
While operating the reclining switch located in power seat switch, reclining motor operates and makes possible the seat back forward and backward position adjustment.

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.

Component Parts Location

INFOID:0000000007457208



1. Sliding switch and lifting switch
2. Reclining switch
3. Reclining motor
4. Lifting motor (rear)
5. Lifting motor (front)
6. Sliding motor
A. View with seat cushion pad and seat back pad are removed.
B. Backside of seat cushion

Component Description

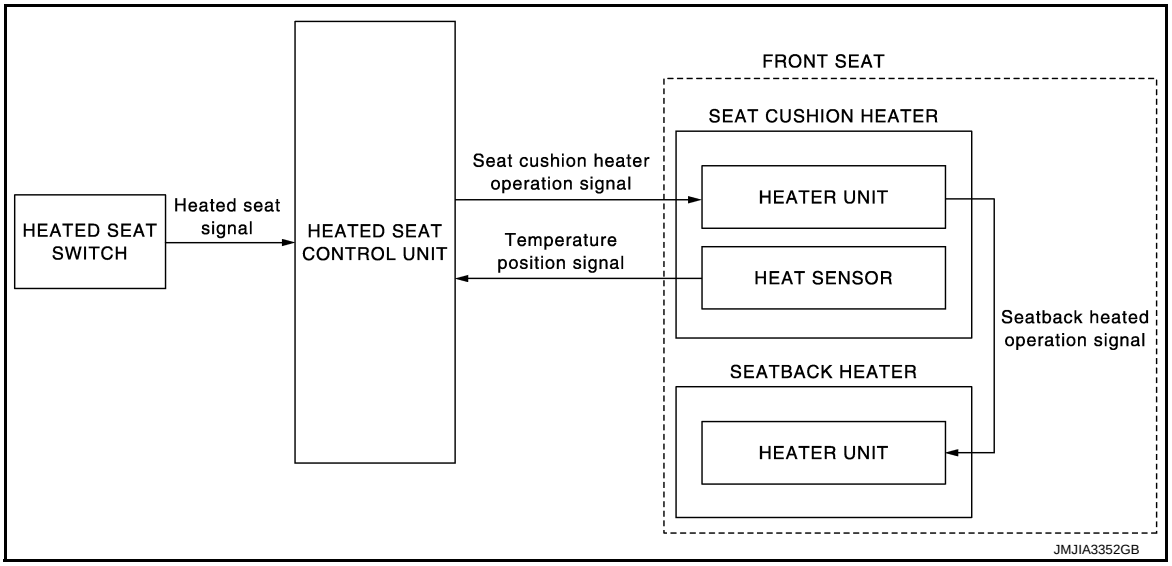
INFOID:0000000007457209

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

HEATED SEAT

System Diagram

INFOID:0000000007457210



System Description

INFOID:0000000007457211

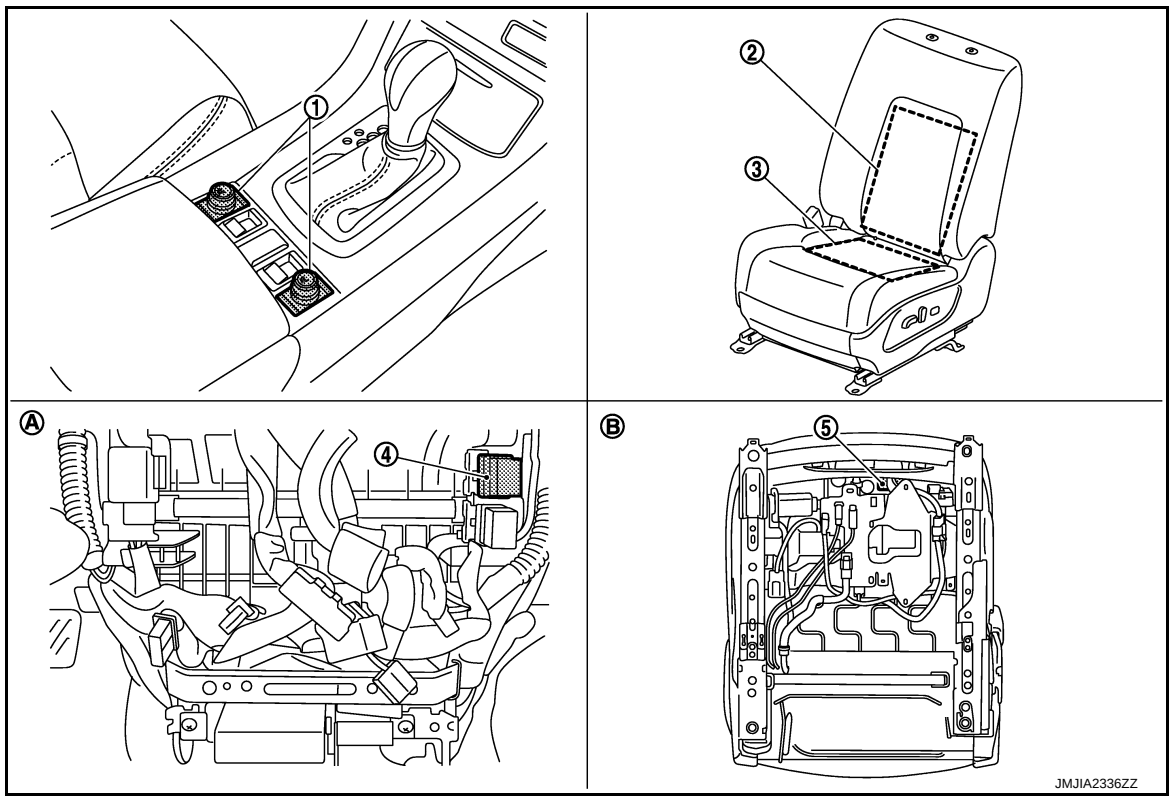
- Heated seat is activated by heated seat switch while ignition switch is ON, and has the function to warm seat cushion and seatback.
- Heated seat equips the 6-stage temperature adjustment function that adjusts temperature by operating heated seat switch to the optimal position.
- Heated seat equips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

OPERATION DESCRIPTION

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

Component Parts Location

INFOID:0000000007457212



1. Heated seat switch
2. Seatback heater
3. Seat cushion heater
4. Heated seat relay
5. Heated seat control unit
A. Behind cluster lid C
B. Backside of seat cushion

Component Description

INFOID:0000000007457213

Item	Function
Heated seat switch	• Adjusts heated seat temperature and deactivates heated seat • Equips indicator that indicates the operating condition
Seat cushion heater	• Warms seat cushion • Contains heater sensor that outputs seat cushion heater temperature to heated seat control unit
Seatback heater	Warms seatback
Heated seat relay	Supplies power to the heated seat being controlled by ignition power supply
Heated seat control unit	Controls heated seat temperature and is independently placed in each seat cushion (driver seat and passenger seat)

LUMBAR SUPPORT

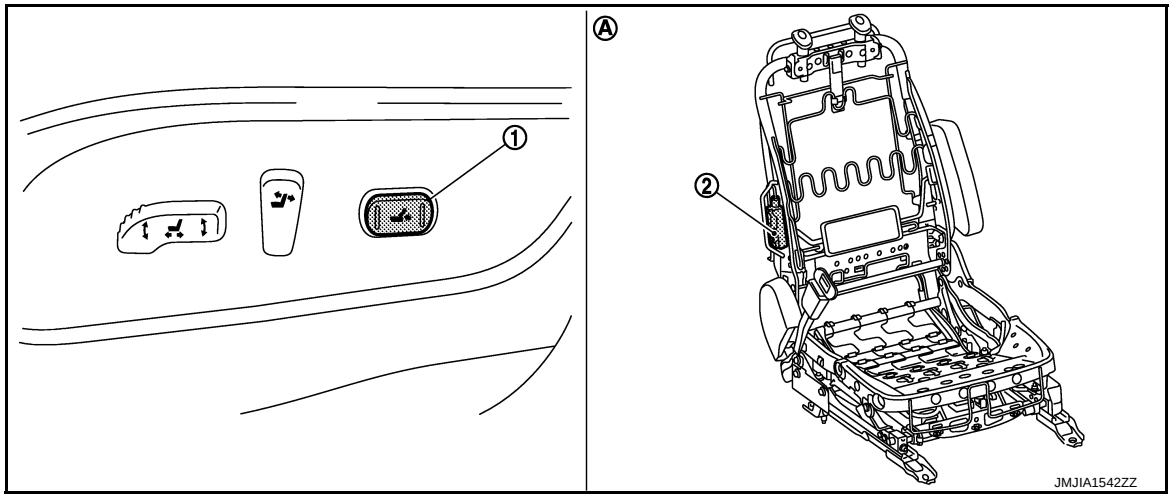
System Description

INFOID:0000000007457214

- Lumbar support can operate regardless of the ignition switch position because battery power is supplied to it at all times.
- While operating the lumbar support switch, lumbar support motor operates which allows forward and backward operation of seatback support.

Component Parts Location

INFOID:0000000007457215



1. Lumbar support switch
2. Lumbar support motor

A. View with seat back pad is removed

Component Description

INFOID:0000000007457216

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

REAR SEATBACK RELEASE CONTROL

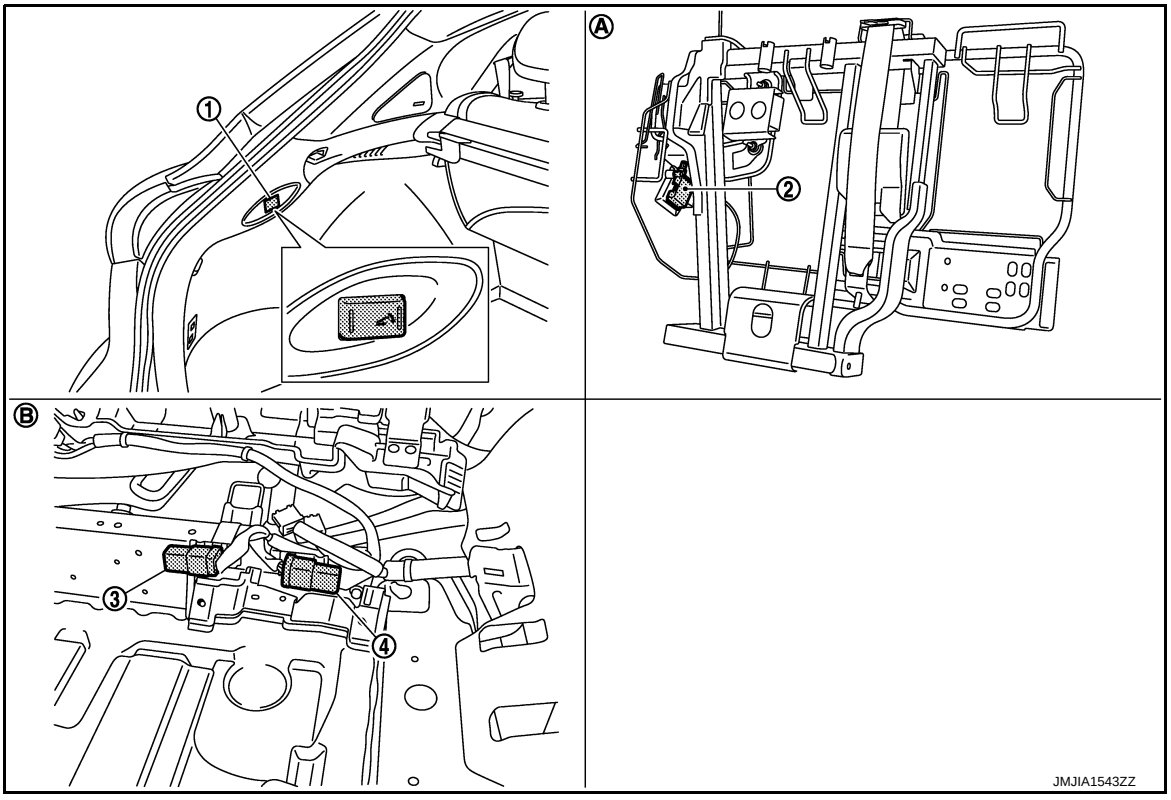
System Description

INFOID:0000000007457217

- Rear seatback release control is composed of rear seatback release switch and rear seatback release actuator
- When rear seatback release switch is pressed, the rear seatback release actuator operate in order to unlock the rear seatback lock
- When the rear seatback is unlocked, the spring located inside the rear seat device rebound, and the rear seatback return to the fall down position

Component Parts Location

INFOID:0000000007457218



1. Rear seatback release switch (LH)
2. Rear seatback release actuator (RH)
3. Rear seatback release relay (LH)
4. Rear seatback release relay (RH)

A. In seatback
B. Behind of rear seat (RH)

Component Description

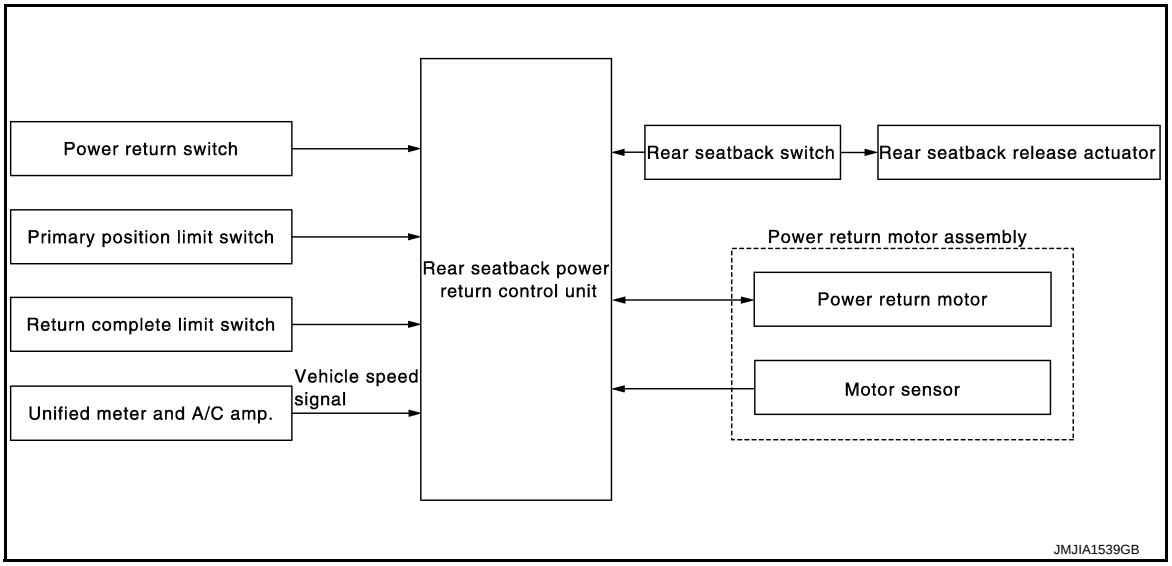
INFOID:0000000007457219

Item	Function
Rear seatback release switch	Release the rear seatback when it is locked
Rear seatback release actuator	Pressed the rear seatback release switch to release the rear seatback when it is locked

REAR SEATBACK POWER RETURN SYSTEM

System Diagram

INFOID:0000000007457220



System Description

INFOID:0000000007457221

DESCRIPTION

Rear Seatback Release Control

- Rear seatback release control is composed of rear seatback release switch and rear seatback release actuator
- When rear seatback switch is pressed in release direction, the rear seatback release actuator operate in order to unlock the rear seatback lock
- When the rear seatback is unlocked, the spring located inside the rear seat device rebound, and the rear seatback return to the fall down position.

Rear Seatback Power Return System

- The rear seat back power return system is the system that enables the return operation of the left and right rear seatbacks independently by pressing and holding the power return switch or the rear seatback switch in the UP direction.
- As for the safety mechanism, the reverse operation is performed if the switch is released during the return operation. The anti-pitch function is installed so that the automatic reverse operation is performed if the pinching of foreign materials between the left and right rear seatbacks is detected.

OPERATION DESCRIPTION

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

Return Operation Starting Condition

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

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

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

Operation sequence	Rear seatback condition	Sector gear condition	Primary position limit switch	Return complete limit switch
4	Return completion position	Return completion position	ON	OFF
5		Initial position	OFF	OFF

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

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

ANTI-PINCH OPERATION

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

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

SECTOR GEAR REVERSE STARTING CONDITION

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

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

SECTOR GEAR REVERSE STOP CONDITION

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

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

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

POWER CONSUMPTION CONTROL SYSTEM

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

Low Power Consumption Mode

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

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

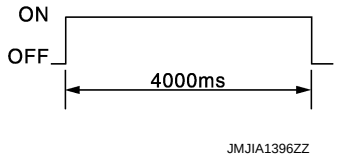
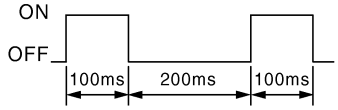
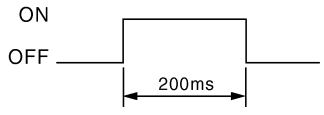
If any of the following conditions are satisfied, the low power consumption mode is released.

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

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

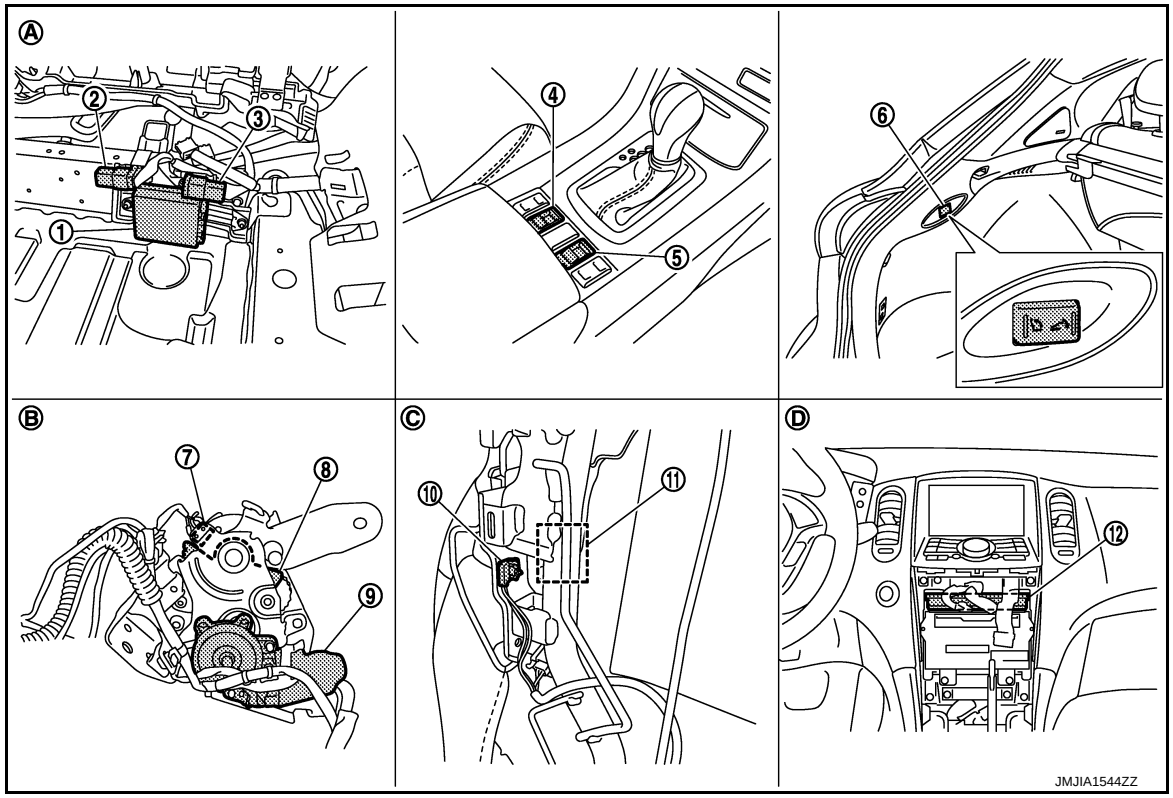
- Turn the power supply of primary position limit switch and return complete limit switch to OFF
- Turn the power supply of the motor sensor to OFF when the power return motor is not operated

BUZZER OPERATION PATTERN AND ORDER OF PRIORITY

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

Component Parts Location

INFOID:0000000007457222



1. Rear seatback power return control unit
2. Rear seatback release relay (LH)
3. Rear seatback release relay (RH)
4. Power return switch (LH)
5. Power return switch (RH)
6. Rear seatback switch (LH)
7. Primary position limit switch (RH)
8. Sector gear (RH)
9. Power return motor assembly (RH)
10. Return complete limit switch (LH)
11. Rear seatback release actuator (LH)
12. Unified meter and A/C amp.
A. Behind of rear seat (RH)
B. In seat device
C. View with seatback pad is removed
D. Behind cluster lid C

Component Description

INFOID:0000000007457223

Item	Function
Rear seatback power return control unit	Control the rear seatback power return system
Power return motor	Operate the rear seatback
Motor sensor	Detect the operation of power return motor
Power return switch	Switch that performs the return operation
Rear seatback switch	Performs the return operation or release the rear seatback when it is locked
Rear seatback release actuator	Pressed the rear seatback release switch to release the rear seatback when it is locked
Primary position limit switch	Detect the initial position of sector gear
Return complete limit switch	Detect the return position of rear seatback
Unified meter and A/C amp.	Transmit the vehicle speed signal
Sector gear	Transmit the operation of power return motor to rear seatback

DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT

REAR SEATBACK POWER RETURN CONTROL UNIT

REAR SEATBACK POWER RETURN CONTROL UNIT : Diagnosis Procedure

INFOID:0000000007457224

1.CHECK FUSE

Check that the following fuses are not fusing.

Terminal No.	Signal name	Fuse No.
16	Battery power supply	32 (30 A)
17		6 (10 A)

Is the fuse fusing?

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

2.CHECK REAR SEATBACK POWER RETURN CONTROL UNIT POWER SUPPLY

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

(+)		(–)	Voltage (Approx.)
Rear seatback power return control unit			
Connector	Terminal		
B226	17	Ground	Battery voltage
B227	16		

Is the inspection result normal?

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

3.CHECK REAR SEATBACK POWER RETURN CONTROL UNIT GROUND CIRCUIT

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

Rear seatback power return control unit		Ground	Continuity
Connector	Terminal		
B226	32		Existed
B227	13		

Is the inspection result normal?

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

HEATED SEAT CONTROL UNIT

HEATED SEAT CONTROL UNIT : Diagnosis Procedure

INFOID:0000000007457225

1.CHECK FUSE

Check that the following fuse is not blown.

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

Is the inspection result normal?

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

2.CHECK HEATED SEAT CONTROL UNIT POWER SUPPLY 1

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

(+)			(–)	Voltage (V) (Approx.)
Heated seat control unit				
Connector		Terminal		
Driver side	B439	60	Ground	Battery voltage
Passenger side	B462			

Is the inspection result normal?

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

3.CHECK HEATED SEAT CONTROL UNIT POWER SUPPLY CIRCUIT 1

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

Heated seat control unit			Heated seat relay		Continuity
Connector		Terminal	Connector	Terminal	
Driver side	B439	60	M70	3	Existed
Passenger side	B462				

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

Heated seat control unit			Ground	Continuity
Connector		Terminal		
Driver side	B439	60		Not existed
Passenger side	B462			

Is the inspection result normal?

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

4.CHECK HEATED SEAT CONTROL UNIT POWER SUPPLY 2

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

(+)			(–)	Condition		Voltage (V) (Approx.)
Heated seat control unit						
Connector		Terminal				
Driver side	B439	66	Ground	Heated seat switch	ON	Battery voltage
					OFF	0
Passenger side	B462				ON	Battery voltage
					OFF	0

Is the inspection result normal?

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

5.CHECK HEATED SEAT CONTROL UNIT POWER SUPPLY CIRCUIT 2

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

Heated seat control unit			Heated seat switch		Continuity
Connector		Terminal	Connector	Terminal	
Driver side	B439	66	M177	1	Existed
Passenger side	B462		M178		

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

Heated seat control unit			Ground	Continuity
Connector		Terminal		
Driver side	B439	66		Not existed
Passenger side	B462			

Is the inspection result normal?

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

6.CHECK HEATED SEAT SWITCH

Check heated seat switch.
- Driver side: Refer to SE-48, "DRIVER SIDE : Component Inspection".
- Passenger side: Refer to SE-49, "PASSENGER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 8.
NO >> Replace heated seat switch. Refer to SE-152, "Removal and Installation".

7.CHECK HEATED SEAT CONTROL UNIT GROUND CIRCUIT

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

Heated seat control unit			Ground	Continuity
Connector		Terminal		
Driver side	B439	59		Exists
Passenger side	B462			

Is the inspection result normal?

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

8.CHECK INTERMITTENT INCIDENT

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

>> INSPECTION END

HEATED SEAT SWITCH

HEATED SEAT SWITCH : Diagnosis Procedure

INFOID:0000000007457226

1.CHECK FUSE

Check that the following fuse is not blown.

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

Is the inspection result normal?

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

2.CHECK HEATED SEAT SWITCH POWER SUPPLY

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

(+)			(–)	Voltage (V) (Approx.)
Heated seat switch				
Connector		Terminal		
Driver side	M177	5	Ground	Battery voltage
Passenger side	M178			

Is the inspection result normal?

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

3.CHECK HEATED SEAT SWITCH POWER SUPPLY CIRCUIT

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

Heated seat switch			Fuse block (J/B)		Continuity
Connector		Terminal	Connector	Terminal	
Driver side	M177	5	M1	2A	Existed
Passenger side	M178				

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

Heated seat switch			Ground	Continuity
Connector		Terminal		
Driver side	M177	5		Not existed
Passenger side	M178			

Is the inspection result normal?

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

4.CHECK FUSE BLOCK (J/B)

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

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

Is the inspection result normal?

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

5.CHECK INTERMITTENT INCIDENT

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

>> INSPECTION END

POWER RETURN SWITCH

LH

LH : Description

INFOID:0000000007457227

Switch that performs the return operation.

LH : Component Function Check

INFOID:0000000007457228

1.CHECK POWER RETURN SWITCH (LH) FUNCTION

Check that the rear seatback (LH) rises when pressing and holding the power return switch (LH).

Is the inspection result normal?

YES >> Power return switch (LH) is OK.
NO >> Refer toSE-21, "LH : Diagnosis Procedure".

LH : Diagnosis Procedure

INFOID:0000000007457229

1.CHECK REAR SEATBACK POWER RETURN CONTROL UNIT INPUT SIGNAL

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

(+)		(–)	Voltage (V) (Approx.)
Power return switch (LH)			
Connector	Terminal		
M174	1	Ground	5

Is the inspection result normal?

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

2.CHECK FRONT POWER RETURN SWITCH (LH) CIRCUIT

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

Rear seatback power return control unit		Power return switch (LH)		Continuity
Connector	Terminal	Connector	Terminal	
B226	28	M174	1	Existed

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

Rear seatback power return control unit		Ground	Continuity
Connector	Terminal		
M226	28		Not existed

Is the inspection result normal?

YES >> Replace rear seatback power return control unit. Refer to SE-148, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK POWER RETURN SWITCH (LH) GROUND CIRCUIT

Check continuity power return switch (LH) harness connector and ground.

Power return switch (LH)		Ground	Continuity
Connector	Terminal		
M174	2		Existed

Is the inspection result normal?

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

4.CHECK POWER RETURN SWITCH (LH)

Check power return switch (LH).
Refer toSE-22, "LH : Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace power return switch (LH). Refer to SE-153, "Removal and Installation".

5.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

LH : Component Inspection

INFOID:0000000007457230

1.CHECK FRONT POWER RETURN SWITCH (LH)

1. Turn ignition OFF.
2. Disconnect power return switch (LH) connector.
3. Check power return switch (LH) terminals.

Power return switch (LH)		Condition	Continuity
Terminal			
1	2	Power return switch (LH) is pressed	Existed
		Power return switch (LH) is released	Not existed

Is the inspection result normal?

YES >> Power return switch (LH) is OK.
NO >> Replace power return switch (LH). Refer to SE-153, "Removal and Installation".

RH

RH : Description

INFOID:0000000007457231

Switch that performs the return operation.

RH : Component Function Check

INFOID:0000000007457232

1.CHECK POWER RETURN SWITCH (RH) FUNCTION

Check that the rear seatback (RH) rises when pressing and holding the power return switch (RH).

Is the inspection result normal?

YES >> Power return switch (RH) is OK.
NO >> Refer toSE-22, "RH : Diagnosis Procedure".

RH : Diagnosis Procedure

INFOID:0000000007457233

1.CHECK REAR SEATBACK POWER RETURN CONTROL UNIT INPUT SIGNAL

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

(+)		(–)	Voltage (V) (Approx.)
Power return switch (RH)			
Connector	Terminal		
M175	1	Ground	5

Is the inspection result normal?

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

2.CHECK POWER RETURN SWITCH (RH) CIRCUIT

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

Rear seatback power return control unit		Power return switch (RH)		Continuity
Connector	Terminal	Connector	Terminal	
B226	20	M175	1	Existed

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

Rear seatback power return control unit		Ground	Continuity
Connector	Terminal		
B226	20		Not existed

Is the inspection result normal?

YES >> Replace rear seatback power return control unit. Refer to SE-148, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK POWER RETURN SWITCH (RH) GROUND CIRCUIT

Check continuity power return switch (RH) harness connector and ground.

Power return switch (RH)		Ground	Continuity
Connector	Terminal		
M175	2		Existed

Is the inspection result normal?

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

4.CHECK POWER RETURN SWITCH (RH)

Check power return switch (RH).
Refer toSE-23, "RH : Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace power return switch (RH). Refer to SE-153, "Removal and Installation".

5.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

RH : Component Inspection

INFOID:0000000007457234

1.CHECK POWER RETURN SWITCH (RH)

1. Turn ignition OFF.
2. Disconnect power return switch (RH) connector.
3. Check power return switch (RH) terminals.

Power return switch (RH)		Condition	Continuity
Terminal			
1	2	Power return switch (RH) is pressed	Existed
		Power return switch (RH) is released	Not existed

Is the inspection result normal?

YES >> Power return switch (RH) is OK.
NO >> Replace power return switch (RH). Refer to SE-153, "Removal and Installation".

REAR SEATBACK SWITCH

LH

LH : Description

INFOID:0000000007457235

Switch that performs the return operation or release operation.

LH : Component Function Check

INFOID:0000000007457236

1.CHECK FUNCTION

Check that the rear seatback (LH) rises when pressing and holding the rear seatback switch (LH) in UP direction.

Is the inspection result normal?

YES >> Rear seatback switch (LH) is OK.
NO >> Refer to SE-25, "LH : Diagnosis Procedure".

LH : Diagnosis Procedure

INFOID:0000000007457237

1.CHECK REAR SEATBACK POWER RETURN CONTROL UNIT INPUT SIGNAL

1. Turn ignition switch OFF.
2. DIsconnect rear seatback switch (LH) connector.
3. Check voltage between rear seatback switch (LH) harness connector and ground.

(+)		(–)	Voltage (V) (Approx.)
Rear seatback switch (LH)			
Connector	Terminal		
B52	2	Ground	5

Is the inspection result normal?

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

2.CHECK REAR SEAT BACK SWITCH (LH) CIRCUIT

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

Rear seatback power return control unit		Rear seatback switch (LH)		Continuity
Connector	Terminal	Connector	Terminal	
B226	28	B52	2	Existed

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

Rear seatback power return control unit		Ground	Continuity
Connector	Terminal		
B226	28		Not existed

Is the inspection result normal?

YES >> Replace rear seatback power return control unit. Refer to SE-148, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK REAR SEATBACK SWITCH (LH) GROUND CIRCUIT

Check continuity rear seatback switch (LH) harness connector and ground.

Rear seatback switch (LH)		Ground	Continuity
Connector	Terminal		
B52	3		Existed

Is the inspection result normal?

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

4.CHECK REAR SEATBACK SWITCH (LH)

Check rear seatback switch (LH).
Refer toSE-26, "LH : Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace rear seatback switch (LH). Refer to SE-155, "Removal and Installation".

5.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

LH : Component Inspection

INFOID:0000000007457238

1.CHECK REAR SEATBACK SWITCH (LH)

1. Turn ignition switch OFF.
2. Disconnect rear seatback switch (LH) connector.
3. Check rear seatback switch (LH) terminals.

Rear seatback switch (LH)		Condition	Continuity
Terminal			
2	3	Rear seatback switch (LH) is pressed in UP direction	Existed
		Rear seatback switch (LH) is released in UP direction	Not existed

Is the inspection result normal?

YES >> Rear seatback switch (LH) is OK.
NO >> Replace seatback return switch (LH). Refer to SE-155, "Removal and Installation".

RH

RH : Description

INFOID:0000000007457239

Switch that performs the return operation or release operation.

RH : Component Function Check

INFOID:0000000007457240

1.CHECK FUNCTION

Check that the rear seatback (RH) rises when pressing and holding the rear seatback switch (RH) in UP direction.

Is the inspection result normal?

YES >> Rear seatback switch (RH) is OK.
NO >> Refer toSE-26, "RH : Diagnosis Procedure".

RH : Diagnosis Procedure

INFOID:0000000007457241

1.CHECK REAR SEATBACK POWER RETURN CONTROL UNIT INPUT SIGNAL

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

(+)		(–)	Voltage (V) (Approx.)
Rear seatback switch (RH)			
Connector	Terminal		
B239	2	Ground	5

Is the inspection result normal?

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

2.CHECK REAR SEATBACK SWITCH (RH) CIRCUIT

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

Rear seatback power return control unit		Rear seatback switch (RH)		Continuity
Connector	Terminal	Connector	Terminal	
B226	20	B239	2	Existed

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

Rear seatback power return control unit		Ground	Continuity
Connector	Terminal		
B226	20		Not existed

Is the inspection result normal?

YES >> Replace rear seatback power return control unit. Refer to SE-148, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK REAR SEATBACK SWITCH (RH) GROUND CIRCUIT

Check continuity rear seatback switch (RH) harness connector and ground.

Rear seatback switch (RH)		Ground	Continuity
Connector	Terminal		
B239	3		Existed

Is the inspection result normal?

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

4.CHECK REAR SEATBACK SWITCH (RH)

Check rear seatback switch (RH).
Refer toSE-27, "RH : Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace rear seatback switch (RH). Refer to SE-154, "Removal and Installation".

5.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

RH : Component Inspection

INFOID:0000000007457242

1.CHECK REAR SEATBACK SWITCH (RH)

1. Turn ignition switch OFF.
2. Disconnect rear seatback switch (RH) connector.
3. Check rear seatback switch (RH) terminals.

Rear seatback switch (RH)		Condition	Continuity
Terminal			
2	3	Rear seatback switch (RH) is pressed in UP direction	Existed
		Rear seatback switch (RH) is released in UP direction	Not existed

Is the inspection result normal?

YES >> Rear seatback switch (RH) is OK.
NO >> Replace rear seatback switch (RH). Refer to SE-154, "Removal and Installation".

PRIMARY POSITION LIMIT SWITCH

LH

LH : Description

INFOID:0000000007457243

Detect the initial position of sector gear (LH).

LH : Component Function Check

INFOID:0000000007457244

1.CHECK FUNCTION

Check that the rear seatback (LH) rises when pressing and holding the power return switch (LH) or rear seatback switch (LH) in UP direction.

Is the inspection result normal?

YES >> Primary position limit switch (LH) is OK.
NO >> Refer to SE-29, "LH : Diagnosis Procedure".

LH : Diagnosis Procedure

INFOID:0000000007457245

1.CHECK REAR SEATBACK POWER RETURN CONTROL UNIT INPUT SIGNAL

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

(+)		(–)	Voltage (V) (Approx.)
Primary position limit switch (LH)			
Connector	Terminal		
B512	6	Ground	Battery voltage

NOTE:
It is not low power consumption mode.

Is the inspection result normal?

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

2.CHECK PRIMARY POSITION LIMIT SWITCH (LH) SIGNAL CIRCUIT

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

Rear seatback power return control unit		Primary position limit switch (LH)		Continuity
Connector	Terminal	Connector	Terminal	
B226	21	B512	6	Existed

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

Rear seatback power return control unit		Ground	Continuity
Connector	Terminal		
B226	21		Not existed

Is the inspection result normal?

YES >> Replace rear seatback power return control unit. Refer to SE-148, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK PRIMARY POSITION LIMIT SWITCH (LH) GROUND CIRCUIT

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

Rear seatback power return control unit		Primary position limit switch (LH)		Continuity
Connector	Terminal	Connector	Terminal	
B226	31	B512	9	Existed

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

Rear seatback power return control unit		Ground	Continuity
Connector	Terminal		
B226	31		Not existed

Is the inspection result normal?

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

4.CHECK PRIMARY POSITION LIMIT SWITCH (LH)

Check primary position limit switch (LH).
Refer to SE-30, "LH : Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace primary position limit switch (LH) [seat device assembly (LH)]. Refer to SE-141, "Exploded View".

5.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

LH : Component Inspection

INFOID:0000000007457246

COMPONENT INSPECTION

1.CHECK PRIMARY POSITION LIMIT SWITCH (LH)

1. Turn ignition switch OFF.
2. Disconnect primary position limit switch (LH) connector.
3. Check primary position limit switch (LH) terminals.

Primary position limit switch (LH)		Condition	Continuity
Terminal			
6	9	Primary position limit switch (LH) is pressed	Existed
		Primary position limit switch (LH) is released	Not existed

Is the inspection result normal?

YES >> Primary position limit switch (LH) is OK.
NO >> Replace primary position limit switch (LH) [seat device assembly (LH)]. Refer to SE-141, "Exploded View".

RH

RH : Description

INFOID:0000000007457247

Detect the initial position of sector gear (RH).

RH : Component Function Check

INFOID:0000000007457248

1.CHECK FUNCTION

Check that the rear seatback (RH) rises when pressing and holding the power return switch (RH) or rear seatback switch (RH) in UP direction.

Is the inspection result normal?

YES >> Primary position limit switch (RH) is OK.
NO >> Refer to SE-31, "RH : Diagnosis Procedure".

RH : Diagnosis Procedure

INFOID:0000000007457249

1. CHECK REAR SEATBACK POWER RETURN CONTROL UNIT INPUT SIGNAL

1. Turn ignition switch OFF.
2. Connect primary position limit switch (RH) connector.
3. Check voltage between primary position limit switch (RH) harness connector and ground.

(+)		(–)	Voltage (V) (Approx.)
Primary position limit switch (RH)			
Connector	Terminal		
B505	15	Ground	Battery voltage

NOTE:
It is not low power consumption mode.

Is the inspection result normal?

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

2. CHECK PRIMARY POSITION LIMIT SWITCH (RH) SIGNAL CIRCUIT

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

Rear seatback power return control unit		Primary position limit switch (RH)		Continuity
Connector	Terminal	Connector	Terminal	
B226	22	B505	15	Existed

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

Rear seatback power return control unit		Ground	Continuity
Connector	Terminal		
B226	22		Not existed

Is the inspection result normal?

YES >> Replace rear seatback power return control unit. Refer to SE-148, "Removal and Installation".
NO >> Repair or replace harness.

3. CHECK PRIMARY POSITION LIMIT SWITCH (RH) GROUND CIRCUIT

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

Rear seatback power return control unit		Primary position limit switch (RH)		Continuity
Connector	Terminal	Connector	Terminal	
B226	23	B505	14	Existed

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

Rear seatback power return control unit		Ground	Continuity
Connector	Terminal		
B226	23		Not existed

Is the inspection result normal?

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

4.CHECK PRIMARY POSITION LIMIT SWITCH (RH)

Check primary position limit switch (RH).
Refer to SE-32, "RH : Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace primary position limit switch (RH) [seat device assembly (RH)]. Refer to SE-141, "Exploded View".

5.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

RH : Component Inspection

INFOID:0000000007457250

COMPONENT INSPECTION

1.CHECK PRIMARY POSITION LIMIT SWITCH (RH)

1. Turn ignition switch OFF.
2. Disconnect primary position limit switch (RH) connector.
3. Check primary position limit switch (RH) terminals.

Primary position limit switch (RH)		Condition	Continuity
Terminal			
14	15	Primary position limit switch (RH) is pressed	Existed
		Primary position limit switch (RH) is released	Not existed

Is the inspection result normal?

YES >> Primary position limit switch (RH) is OK.
NO >> Replace primary position limit switch (RH) [seat device assembly (RH)]. Refer to SE-141, "Exploded View".

RETURN COMPLETE LIMIT SWITCH

LH

LH : Description

INFOID:0000000007457251

Detect the return completion position of rear seatback (LH).

LH : Component Function Check

INFOID:0000000007457252

1.CHECK FUNCTION

Check that the rear seatback (LH) rises when pressing and holding the power return switch (LH) or rear seatback switch (LH) in UP direction.

Is the inspection result normal?

YES >> Return complete limit switch (LH) is OK.
NO >> Refer to SE-33, "LH : Diagnosis Procedure".

LH : Diagnosis Procedure

INFOID:0000000007457253

1.CHECK REAR SEATBACK POWER RETURN CONTROL UNIT INPUT SIGNAL

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

(+)		(–)	Voltage (V) (Approx.)
Rear seatback lock assembly (LH)			
Connector	Terminal		
B513	8	Ground	Battery voltage

NOTE:
It is not low power consumption mode.

Is the inspection result normal?

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

2.CHECK RETURN COMPLETE LIMIT SWITCH (LH) SIGNAL CIRCUIT

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

Rear seatback power return control unit		Rear seatback lock assembly (LH)		Continuity
Connector	Terminal	Connector	Terminal	
B226	29	B513	8	Existed

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

Rear seatback power return control unit		Ground	Continuity
Connector	Terminal		
B226	29		Not existed

Is the inspection result normal?

YES >> Replace rear seatback power return control unit. Refer to SE-148, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK RETURN COMPLETE LIMIT SWITCH (LH) GROUND CIRCUIT

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

Rear seatback power return control unit		Rear seatback lock assembly (LH)		Continuity
Connector	Terminal	Connector	Terminal	
B226	31	B513	9	Existed

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

Rear seatback power return control unit		Ground	Continuity
Connector	Terminal		
B226	31		Not existed

Is the inspection result normal?

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

4. CHECK RETURN COMPLETE LIMIT SWITCH (LH)

Check return complete limit switch (LH).
Refer to SE-34, "LH : Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace return complete limit switch (LH) [rear seatback lock assembly (LH)]. Refer to SE-141, "Exploded View".

5. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

LH : Component Inspection

INFOID:0000000007457254

COMPONENT INSPECTION

1. CHECK RETURN COMPLETE LIMIT SWITCH (LH)

1. Turn ignition switch OFF.
2. Disconnect rear seatback lock assembly (LH) connector.
3. Check rear seatback lock assembly (LH) terminals.

Rear seatback lock assembly (LH)		Condition	Continuity
Terminal			
8	9	Return complete limit switch (LH) is pressed	Existed
		Return complete limit switch (LH) is released	Not existed

Is the inspection result normal?

YES >> Return complete limit switch (LH) is OK.
NO >> Replace return complete limit switch (LH) [rear seatback lock assembly (LH)]. Refer to SE-141, "Exploded View".

RH

RH : Description

INFOID:0000000007457255

Detect the return completion position of rear seatback (RH).

RH : Component Function Check

INFOID:0000000007457256

1. CHECK FUNCTION

Check that the rear seatback (RH) rises when pressing and holding the power return switch (RH) or rear seatback switch (RH) in UP direction.

Is the inspection result normal?

YES >> Return complete limit switch (RH) is OK.
NO >> Refer to SE-35, "RH : Diagnosis Procedure".

RH : Diagnosis Procedure

INFOID:0000000007457257

1. CHECK REAR SEATBACK POWER RETURN CONTROL UNIT INPUT SIGNAL

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

(+)		(–)	Voltage (V) (Approx.)
Rear seatback lock assembly (RH)			
Connector	Terminal		
B506	13	Ground	Battery voltage

NOTE:
It is not low power consumption mode.

Is the inspection result normal?

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

2. CHECK RETURN COMPLETE LIMIT SWITCH (RH) SIGNAL CIRCUIT

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

Rear seatback power return control unit		Rear seatback lock assembly (RH)		Continuity
Connector	Terminal	Connector	Terminal	
B226	30	B506	13	Existed

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

Rear seatback power return control unit		Ground	Continuity
Connector	Terminal		
B226	30		Not existed

Is the inspection result normal?

YES >> Replace rear seatback power return control unit. Refer to SE-148, "Removal and Installation".
NO >> Repair or replace harness.

3. CHECK RETURN COMPLETE LIMIT SWITCH (RH) GROUND CIRCUIT

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

Rear seatback power return control unit		Rear seatback lock assembly (RH)		Continuity
Connector	Terminal	Connector	Terminal	
B226	23	B506	14	Existed

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

Rear seatback power return control unit		Ground	Continuity
Connector	Terminal		
B226	23		Not existed

Is the inspection result normal?

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

4.CHECK RETURN COMPLETE LIMIT SWITCH (RH)

Check return complete limit switch (RH).
Refer to SE-36, "RH : Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace return complete limit switch (RH) [rear seatback lock assembly (RH)]. Refer to SE-141, "Exploded View".

5.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

RH : Component Inspection

INFOID:0000000007457258

COMPONENT INSPECTION

1.CHECK RETURN COMPLETE LIMIT SWITCH (RH)

1. Turn ignition switch OFF.
2. Disconnect rear seatback lock assembly (RH) connector.
3. Check rear seatback lock assembly (RH) terminals.

Rear seatback lock assembly (RH)		Condition	Continuity
Terminal			
13	14	Return complete limit switch (RH) is pressed	Existed
		Return complete limit switch (RH) is released	Not existed

Is the inspection result normal?

YES >> Return complete limit switch (RH) is OK.
NO >> Replace return complete limit switch (RH) [rear seatback lock assembly (RH)]. Refer to SE-141, "Exploded View".

MOTOR SENSOR

LH

LH : Description

INFOID:0000000007457259

Detect the operation condition of power return motor (LH).

LH : Component Function Check

INFOID:0000000007457260

1.CHECK FUNCTION

Check that the rear seatback (LH) rises when pressing and holding the power return switch (LH) or rear seatback switch (LH) in UP direction.

Is the inspection result normal?

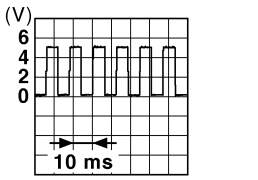
YES >> Motor sensor (LH) is OK.
NO >> Refer to SE-37, "LH : Diagnosis Procedure".

LH : Diagnosis Procedure

INFOID:0000000007457261

1.CHECK MOTOR SENSOR (LH) OUTPUT SIGNAL

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

(+)		(–)	Condition	Voltage (V) (Approx.)
Rear seatback power return control unit				
Connector	Terminal			
B227	10	Ground	During the power return motor (LH) operation	 JMKIA0070GB
			When pinching between LH/RH seats occurs	The above pulse width should be expanded

Is the inspection result normal?

YES >> GO TO 7.
NO >> GO TO 2.

2.CHECK MOTOR SENSOR (LH) SIGNAL CIRCUIT

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

Rear seatback power return control unit		Power return motor assembly (LH)		Continuity
Connector	Terminal	Connector	Terminal	
B227	10	B511	4	Existed

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

Rear seatback power return control unit		Ground	Continuity
Connector	Terminal		
B227	10		Not existed

Is the inspection result normal?

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

3. CHECK MOTOR SENSOR (LH) POWER SUPPLY

1. Connect rear seatback power return control unit connector.
2. Check voltage between power return motor assembly (LH) harness connector and ground.

(+)		(–)	Condition	Voltage (V) (Approx.)
Power return motor assembly (LH)				
Connector	Terminal			
B511	3	Ground	When the power return switch is operated	Battery voltage

Is the inspection result normal?

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

4. CHECK MOTOR SENSOR (LH) POWER SUPPLY CIRCUIT

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

Rear seatback power return control unit		Power return motor assembly (LH)		Continuity
Connector	Terminal	Connector	Terminal	
B227	11	B511	3	Existed

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

Rear seatback power return control unit		Ground	Continuity
Connector	Terminal		
B227	11		Not existed

Is the inspection result normal?

YES >> Replace rear seatback power return control unit. Refer to SE-148, "Removal and Installation".
NO >> Repair or replace harness.

5. CHECK MOTOR SENSOR (LH) GROUND CIRCUIT 1

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

Rear seatback power return control unit		Power return motor assembly (LH)		Continuity
Connector	Terminal	Connector	Terminal	
B227	9	B511	5	Existed

Is the inspection result normal?

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

6. CHECK MOTOR SENSOR (LH) GROUND CIRCUIT 2

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

Rear seatback power return control unit		Ground	Continuity
Connector	Terminal		
B227	9		Existed

Is the inspection result normal?

YES >> Replace motor sensor (LH) [seat device assembly (LH)]. Refer toSE-141, "Exploded View".
NO >> Replace rear seatback power return control unit. Refer to SE-148, "Removal and Installation".

7.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

RH

RH : Description

INFOID:0000000007457262

Detect the operation condition of power return motor (RH).

RH : Component Function Check

INFOID:0000000007457263

1.CHECK FUNCTION

Check that the rear seatback (RH) rises when pressing and holding the power return switch (RH) or rear seatback switch (RH) in UP direction.

Is the inspection result normal?

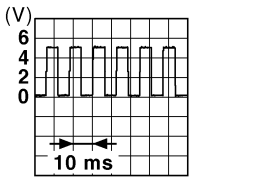
YES >> Motor sensor (RH) is OK.
NO >> Refer to SE-39, "RH : Diagnosis Procedure".

RH : Diagnosis Procedure

INFOID:0000000007457264

1.CHECK MOTOR SENSOR (RH) OUTPUT SIGNAL

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

(+)		(–)	Condition	Voltage (V) (Approx.)
Rear seatback power return control unit				
Connector	Terminal			
B227	2	Ground	During the power return motor (RH) operation	 JMKIA0070GB
			When pinching between LH/RH seats occurs	The above pulse width should be expanded

Is the inspection result normal?

YES >> GO TO 7.
NO >> GO TO 2.

2.CHECK MOTOR SENSOR (RH) SIGNAL CIRCUIT

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

Rear seatback power return control unit		Power return motor assembly (RH)		Continuity
Connector	Terminal	Connector	Terminal	
B227	2	B504	18	Existed

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

Rear seatback power return control unit		Ground	Continuity
Connector	Terminal		
B227	2		Not existed

Is the inspection result normal?

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

3.CHECK MOTOR SENSOR (RH) POWER SUPPLY

1. Connect rear seatback power return control unit connector.
2. Check voltage power return motor assembly (RH) harness connector and ground.

(+)		(–)	Condition	Voltage (V) (Approx.)
Power return motor assembly (RH)				
Connector	Terminal			
B504	17	Ground	When the power return switch is operated	Battery voltage

Is the inspection result normal?

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

4.CHECK MOTOR SENSOR (RH) POWER SUPPLY CIRCUIT

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

Rear seatback power return control unit		Power return motor assembly (RH)		Continuity
Connector	Terminal	Connector	Terminal	
B227	3	B504	17	Existed

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

Rear seatback power return control unit		Ground	Continuity
Connector	Terminal		
B227	3		Not existed

Is the inspection result normal?

YES >> Replace rear seatback power return control unit. Refer to SE-148, "Removal and Installation".
NO >> Repair or replace harness.

5.CHECK MOTOR SENSOR (RH) GROUND CIRCUIT 1

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

Rear seatback power return control unit		Power return motor assembly (RH)		Continuity
Connector	Terminal	Connector	Terminal	
B227	1	B504	19	Existed

Is the inspection result normal?

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

6.CHECK MOTOR SENSOR (LH) GROUND CIRCUIT 2

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

Rear seatback power return control unit		Ground	Continuity
Connector	Terminal		
B227	1		Existed

Is the inspection result normal?

YES >> Replace motor sensor (RH) [seat device assembly (RH)]. Refer to SE-141, "Exploded View".
NO >> Replace rear seatback power return control unit. Refer to SE-148, "Removal and Installation".

7. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

POWER RETURN MOTOR

LH

LH : Description

INFOID:0000000007457265

Operate the rear seatback.

LH : Component Function Check

INFOID:0000000007457266

1.CHECK FUNCTION

Check that the rear seatback (LH) rises when pressing and holding the power return switch (LH) or rear seatback switch (LH) in UP direction.

Is the inspection result normal?

YES >> Power return motor (LH) is OK.
NO >> Refer to SE-42, "LH : Diagnosis Procedure".

LH : Diagnosis Procedure

INFOID:0000000007457267

1.CHECK POWER RETURN MOTOR (LH) INPUT SIGNAL

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

(+)		(–)	Condition	Voltage (V) (Approx.)
Power return motor assembly (LH)				
Connector	Terminal			
B511	1	Ground	During the power return motor (LH) reverse operation	Battery voltage
			Other than the above	0
	2		During the power return motor (LH) return operation	Battery voltage
			Other than the above	0

Is the inspection result normal?

YES >> Replace power return motor assembly (LH) [seat device assembly (LH)]. Refer to SE-141, "Exploded View".
NO >> GO TO 2.

2.CHECK POWER RETURN MOTOR (LH) CIRCUIT

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

Rear seatback power return control unit		Power return motor assembly (LH)		Continuity
Connector	Terminal	Connector	Terminal	
B227	5	B511	1	Existed
	6		2	

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

Rear seatback power return control unit		Ground	Continuity
Connector	Terminal		
B227	5		Not existed
	6		

Is the inspection result normal?

YES >> Replace rear seatback power return control unit. Refer to SE-148, "Removal and Installation".
NO >> Repair or replace harness.

RH

RH : Description

INFOID:0000000007457268

Operate the rear seatback.

RH : Component Function Check

INFOID:0000000007457269

1.CHECK FUNCTION

Check that the rear seatback (RH) rises when pressing and holding the power return switch (RH) or rear seatback switch (RH) in UP direction.

Is the inspection result normal?

YES >> Power return motor (RH) is OK.
NO >> Refer to SE-43, "RH : Diagnosis Procedure".

RH : Diagnosis Procedure

INFOID:0000000007457270

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) (Approx.)
Power return motor assembly (RH)				
Connector	Terminal			
B504	20	Ground	During the power return motor (RH) reverse operation	Battery voltage
			Other than the above	0
	21		During the power return motor (RH) return operation	Battery voltage
			Other than the above	0

Is the inspection result normal?

YES >> Replace power return motor assembly (RH) [seat device assembly (RH)]. Refer to SE-141, "Exploded View".
NO >> GO TO 2.

2.CHECK POWER RETURN MOTOR (RH) CIRCUIT

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

Rear seatback power return control unit		Power return motor assembly (RH)		Continuity
Connector	Terminal	Connector	Terminal	
B227	7	B504	20	Existed
	8		21	

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

Rear seatback power return control unit		Ground	Continuity
Connector	Terminal		
B227	7		Not existed
	8		

Is the inspection result normal?

YES >> Replace rear seatback power return control unit. Refer to SE-148, "Removal and Installation".
NO >> Repair or replace harness.

VEHICLE SPEED SIGNAL CIRCUIT

Description

INFOID:0000000007457271

Transmits vehicle speed signal to rear seatback power return control unit.

Component Function Check

INFOID:0000000007457272

1.CHECK FUNCTION

Check that the rear seatback rises when pressing and holding the power return switch or rear seatback switch in UP direction.

Is the inspection result normal?

YES >> Vehicle speed signal circuit is OK.
NO >> Refer to SE-45, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000007457273

1.CHECK VEHICLE SPEED OPERATION

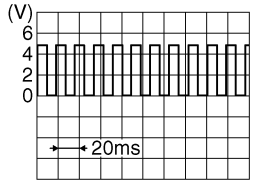
1. Check speed meter operate normally.

Is the inspection result normal?

YES >> GO TO 2.
NO >> Refer to MWI-4, "Work flow".

2.CHECK VEHICLE SPEED INPUT SIGNAL

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

(+)		(–)	Condition	Voltage (V) (Approx.)
Rear seatback power return control unit				
Connector	Terminal			
B226	24	Ground	When vehicle speed is approx.40 km/h (25MPH)	**NOTE:** Maximum voltage may be 12V due to specifications (connected units)  SKIA6649J

Is the inspection result normal?

YES >> GO TO 3.
NO >> Refer to MWI-4, "Work flow".

3.CHECK VEHICLE SPEED SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect rear seatback power return control unit connector and unified meter and A/C amp. connector.
3. Check continuity between power return control unit harness connector and unified meter and A/C amp. harness connector.

Rear seatback power return control unit		Unified meter and A/C amp.		Continuity
Connector	Terminal	Connector	Terminal	
B226	24	M66	28	Existed

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

Rear seatback power return control unit		Ground	Continuity
Connector	Terminal		
B226	24		Not existed

Is the inspection result normal?

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

4.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

HEATED SEAT SWITCH
DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000007457274

Adjusts heated seat temperature and deactivates heated seat.

DRIVER SIDE : Component Function Check

INFOID:0000000007457275

1.CHECK HEATED SEAT SWITCH FUNCTION

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

Is the inspection result normal?

YES >> Heated seat switch function is OK.
NO >> Refer to SE-47, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000007457276

1.CHECK HEATED SEAT CONTROL UNIT INPUT SIGNAL

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

(+)		(–)	Condition		Voltage (V) (Approx.)
Heated seat control unit					
Connector	Terminal				
B439	67	Ground	Heated seat switch position	OFF	0
				1 (Min. temperature)	12.24
				2	12.33
				3	12.49
				4	12.63
				5	12.76
				6 (Max. temperature)	12.90

Is the inspection result normal?

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

2.CHECK HEATED SEAT SWITCH CIRCUIT

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

Heated seat switch		Heated seat control unit		Continuity
Connector	Terminal	Connector	Terminal	
M177	2	B439	67	Existed

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

Heated seat switch		Ground	Continuity
Connector	Terminal		
M177	2		Not existed

Is the inspection result normal?

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

3.CHECK HEATED SEAT SWITCH

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

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace heated seat switch. Refer to SE-152, "Removal and Installation".

4.CHECK INTERMITTENT INCIDENT

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

>> INSPECTION END

DRIVER SIDE : Component Inspection

INFOID:0000000007457277

1.CHECK FRONT HEATED SEAT SWITCH

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

Heated seat switch		Condition		Resistance (KΩ) (Approx.)
Terminal				
5	1	Heated seat switch position	ON	0
	2		OFF	∞
			1 (Min. temperature)	2.400
			2	1.800
			3	1.200
			4	0.910
			5	0.620
			6 (Max. temperature)	0.348

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace heated seat switch. Refer to SE-152, "Removal and Installation".

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000007457278

Adjusts heated seat temperature and deactivates heated seat.

PASSENGER SIDE : Component Function Check

INFOID:0000000007457279

1.CHECK HEATED SEAT SWITCH FUNCTION

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

Is the inspection result normal?

YES >> Heated seat switch function is OK.
NO >> Refer to SE-48, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000007457280

1.CHECK HEATED SEAT CONTROL UNIT INPUT SIGNAL

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

(+)		(–)	Condition		Voltage (V) (Approx.)
Heated seat control unit					
Connector	Terminal				
B462	67	Ground	Heated seat switch position	OFF	0
				1 (Min. temperature)	12.24
				2	12.33
				3	12.49
				4	12.63
				5	12.76
				6 (Max. temperature)	12.90

Is the inspection result normal?

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

2.CHECK HEATED SEAT SWITCH CIRCUIT

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

Heated seat switch		Heated seat control unit		Continuity
Connector	Terminal	Connector	Terminal	
M178	2	B462	67	Existed

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

Heated seat switch		Ground	Continuity
Connector	Terminal		
M178	2		Not existed

Is the inspection result normal?

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

3.CHECK HEATED SEAT SWITCH

Check heated seat switch.
Refer to SE-49, "PASSENGER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace heated seat switch. Refer to SE-152, "Removal and Installation".

4.CHECK INTERMITTENT INCIDENT

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

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:0000000007457281

1.CHECK FRONT HEATED SEAT SWITCH

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

Heated seat switch		Condition		Resistance (KΩ) (Approx.)
Terminal				
5	1	Heated seat switch position	ON	0
	2		OFF	∞
			1 (Min. temperature)	2.400
			2	1.800
			3	1.200
			4	0.910
			5	0.620
			6 (Max. temperature)	0.348

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace heated seat switch. Refer to SE-152, "Removal and Installation".

HEATED SEAT RELAY

Description

INFOID:0000000007457282

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

Component Function Check

INFOID:0000000007457283

1.CHECK HEATED SEAT RELAY FUNCTION

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

Is the inspection result normal?

YES >> Heated seat relay function is OK.
NO >> Refer to SE-51, "Diagnosis Procedure"

Diagnosis Procedure

INFOID:0000000007457284

1.CHECK HEATED SEAT RELAY POWER SUPPLY

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

(+)		(–)	Voltage (V) (Approx.)
Heated seat relay			
Connector	Terminal		
M70	2	Ground	Battery voltage

Is the inspection result normal?

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

2.CHECK HEATED SEAT RELAY POWER SUPPLY CIRCUIT

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

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

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

Heated seat relay		Ground	Continuity
Connector	Terminal		
M70	2		Not existed

Is the inspection result normal?

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

3.CHECK HEATED SEAT RELAY GROUND CIRCUIT

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

Heated seat relay		Ground	Continuity
Connector	Terminal		Existed
M70	1		

Is the inspection result normal?

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

4.CHECK HEATED SEAT RELAY

Check heated seat relay.
Refer to SE-52, "Component Inspection".

Is the inspection result normal?

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

5.CHECK INTERMITTENT INCIDENT

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

>> INSPECTION END

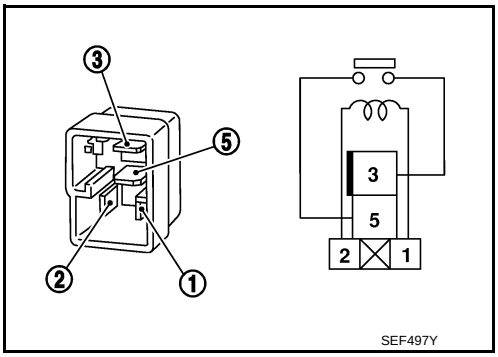
Component Inspection

INFOID:0000000007457285

1.CHECK HEATED SEAT RELAY

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

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



Is the inspection result normal?

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

HEAT SENSOR

DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000007457286

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

DRIVER SIDE : Component Function Check

INFOID:0000000007457287

1.CHECK FUNCTION

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

Is the inspection result normal?

YES >> Heat sensor function is OK.
NO >> Refer to SE-51, "Diagnosis Procedure"

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000007457288

1.CHECK HEAT SENSOR INPUT SIGNAL

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

(+)		(–)	Condition	Voltage (V) (Approx.)
Heated seat control unit				
Connector	Terminal			
B439	69	Ground	OFF	0
			1 (Min. temperature)	10.87 – 11.02
			2	10.93 – 11.07
			3	11.04 – 11.17
			4	11.13 – 11.26
			5	11.22 – 11.34
			6 (Max. temperature)	11.31 – 11.43

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

Is the inspection result normal?

YES >> Heat sensor function is OK.
NO >> GO TO 2.

2.CHECK HEAT SENSOR CIRCUIT

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

Heated seat control unit		Seat cushion heater		Continuity
Connector	Terminal	Connector	Terminal	
B439	69	B440	69	Existed

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

Heated seat control unit		Ground	Continuity
Connector	Terminal		
B439	69		Not existed

Is the inspection result normal?

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

3.CHECK HEAT SENSOR POWER SUPPLY

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

(+)		(–)	Voltage (V) (Approx.)
Seat cushion heater			
Connector	Terminal		
B440	66	Ground	Battery voltage

Is the inspection result normal?

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

4.CHECK HEAT SENSOR POWER SUPPLY CIRCUIT

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

Heated seat switch		Seat cushion heater		Continuity
Connector	Terminal	Connector	Terminal	
M177	1	B440	66	Existed

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

Heated seat switch		Ground	Continuity
Connector	Terminal		Not existed
M177	1		

Is the inspection result normal?

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

5.CHECK HEAT SENSOR

Check heat sensor. Refer to SE-54, "DRIVER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 6.
NO >> Replace seat cushion heater. Refer to SE-129, "Exploded View".

6.CHECK INTERMITTENT INCIDENT

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

>> INSPECTION END

DRIVER SIDE : Component Inspection

INFOID:0000000007457289

1.CHECK HEAT SENSOR

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

Seat cushion heater		Condition	Resistance (KΩ) (Approx.)
Terminal			
66	69	When heat sensor temperature is 25°C (77°F)	9.9 – 10.1

NOTE:
Resistance value changes according to temperature.

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace seat cushion heater. Refer to SE-129, "Exploded View".

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000007457290

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

PASSENGER SIDE : Component Function Check

INFOID:0000000007457291

1.CHECK HEATER SENSOR FUNCTION

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

Is the inspection result normal?

YES >> Heat sensor function is OK.
NO >> Refer to SE-51, "Diagnosis Procedure"

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000007457292

1.CHECK HEAT SENSOR INPUT SIGNAL

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

(+)		(–)	Condition	Voltage (V) (Approx.)
Heated seat control unit				
Connector	Terminal			
B462	69	Ground	OFF	0
			1 (Min. temperature)	10.87 – 11.02
			2	10.93 – 11.07
			3	11.04 – 11.17
			4	11.13 – 11.26
			5	11.22 – 11.34
			6 (Max. temperature)	11.31 – 11.43

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

Is the inspection result normal?

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

2.CHECK HEAT SENSOR CIRCUIT

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

Heated seat control unit		Seat cushion heater		Continuity
Connector	Terminal	Connector	Terminal	
B462	69	B463	69	Existed

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

Heated seat control unit		Ground	Continuity
Connector	Terminal		
B462	69		Not existed

Is the inspection result normal?

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

3.CHECK HEAT SENSOR POWER SUPPLY

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

(+)		(–)	Voltage (V) (Approx.)
Seat cushion heater			
Connector	Terminal		
B463	66	Ground	Battery voltage

Is the inspection result normal?

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

4.CHECK HEAT SENSOR POWER SUPPLY CIRCUIT

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

Heated seat switch		Seat cushion heater		Continuity
Connector	Terminal	Connector	Terminal	
M178	1	B463	66	Existed

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

Heated seat switch		Ground	Continuity
Connector	Terminal		
M178	1		Not existed

Is the inspection result normal?

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

5.CHECK HEAT SENSOR

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

Is the inspection result normal?

YES >> GO TO 6.
NO >> Replace seat cushion heater. Refer to SE-129, "Exploded View".

6.CHECK INTERMITTENT INCIDENT

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

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:0000000007457293

1.CHECK HEAT SENSOR

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

Seat cushion heater		Condition	Resistance (KΩ) (Approx.)
Terminal			
66	69	When heat sensor temperature is 25°C (77°F)	9.9 – 10.1

NOTE:
Resistance value changes according to temperature.

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace seat cushion heater. Refer to SE-129, "Exploded View".

SEAT CUSHION HEATER
DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000007457294

Warms the seat cushion.

DRIVER SIDE : Component Function Check

INFOID:0000000007457295

1.CHECK SEAT CUSHION HEATER FUNCTION

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

Is the inspection result normal?

YES >> Seat cushion heater function is OK.
NO >> Refer to SE-58, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000007457296

1.CHECK SEAT CUSHION HEATER INPUT SIGNAL

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

(+)		(–)	Condition		Voltage (V) (Approx.)
Seat cushion heater					
Connector	Terminal				
B440	68	Ground	Heated seat	Operated	0 – Battery voltage
				Other than the above	0

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

Is the inspection result normal?

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

2.CHECK SEAT CUSHION HEATER CIRCUIT

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

Seat cushion heater		Heated seat control unit		Continuity
Connector	Terminal	Connector	Terminal	
B440	68	B439	68	Existed

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

Seat cushion heater		Ground	Continuity
Connector	Terminal		
B440	68		Not existed

Is the inspection result normal?

YES >> Replace heated seat control unit. Refer to SE-149, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK SEAT CUSHION HEATER

Check seat cushion heater.
Refer toSE-59, "DRIVER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace seat cushion heater. Refer to SE-129, "Exploded View".

4.CHECK SEAT CUSHION HEATER GROUND CIRCUIT

Check continuity between seat cushion heater harness connector and ground.

Seat cushion heater		Ground	Continuity
Connector	Terminal		
B440	59		Existed

Is the inspection result normal?

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

5.CHECK INTERMITTENT INCIDENT

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

>> INSPECTION END

DRIVER SIDE : Component Inspection

INFOID:0000000007457297

1.CHECK SEAT CUSHION HEATER

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

Seat cushion heater		Condition	Resistance (Ω) (Approx.)
Terminal			
59	68	When heat sensor temperature is 20°C (68°F)	2.6 – 3.0

NOTE:
Resistance value changes according to temperature.

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace seat cushion heater. Refer to SE-129, "Exploded View".

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000007457298

Warms the seat cushion.

PASSENGER SIDE : Component Function Check

INFOID:0000000007457299

1.CHECK SEAT CUSHION HEATER FUNCTION

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

Is the inspection result normal?

YES >> Seat cushion heater function is OK.
NO >> Refer to SE-59, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000007457300

1.CHECK FRONT SEAT CUSHION HEATER INPUT SIGNAL

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

(+)		(–)	Condition		Voltage (V) (Approx.)
Seat cushion heater					
Connector	Terminal				
B463	68	Ground	Heated seat	Operated	0 – Battery voltage
				Other than the above	0

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

Is the inspection result normal?

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

2.CHECK SEAT CUSHION HEATER CIRCUIT

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

Seat cushion heater		Heated seat control unit		Continuity
Connector	Terminal	Connector	Terminal	
B463	68	B462	68	Existed

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

Seat cushion heater		Ground	Continuity
Connector	Terminal		
B463	68		Not existed

Is the inspection result normal?

YES >> Replace heated seat control unit. Refer to SE-149, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK SEAT CUSHION HEATER

Check seat cushion heater.
Refer toSE-61, "PASSENGER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace seat cushion heater. Refer to SE-129, "Exploded View".

4.CHECK SEAT CUSHION HEATER GROUND CIRCUIT

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

Seat cushion heater		Ground	Continuity
Connector	Terminal		
B463	59		Existed

Is the inspection result normal?

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

5.CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:0000000007457301

1.CHECK SEAT CUSHION HEATER

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

Seat cushion heater		Condition	Resistance (Ω) (Approx.)
Terminal			
59	68	When heat sensor temperature is 20°C (68°F)	2.6 – 3.0

NOTE:
Resistance value changes according to temperature.

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace seat cushion heater. Refer to SE-129, "Exploded View".

SEATBACK HEATER

DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000007457302

Warms the seat back heater.

DRIVER SIDE : Component Function Check

INFOID:0000000007457303

1.CHECK SEATBACK HEATER FUNCTION

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

Is the inspection result normal?

YES >> Seatback heater function is OK.
NO >> Refer to SE-62, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000007457304

1.CHECK SEATBACK HEATER

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

Seatback heater			Condition	Resistance (Ω) (Approx.)
Connector	Terminal			
B442	1	2	When heat sensor temperature is 20°C (68°F)	4.0 – 4.7

NOTE:
Resistance value changes according to temperature.

Is the inspection result normal?

YES >> Replace seat cushion heater. Refer to SE-129, "Exploded View".
NO >> Replace seatback heater. Refer to SE-129, "Exploded View".

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000007457305

Warms the seat back heater.

PASSENGER SIDE : Component Function Check

INFOID:0000000007457306

1.CHECK SEATBACK HEATER FUNCTION

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

Is the inspection result normal?

YES >> Seatback heater function is OK.
NO >> Refer to SE-62, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000007457307

1.CHECK SEATBACK HEATER

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

Seatback heater			Condition	Resistance (Ω) (Approx.)
Connector	Terminal			
B465	1	2	When heat sensor temperature is 20°C (68°F)	4.0 – 4.7

NOTE:
Resistance value changes according to temperature.

Is the inspection result normal?

YES >> Replace seat cushion heater. Refer to SE-129, "Exploded View".
NO >> Replace seatback heater. Refer to SE-129, "Exploded View".

HEATED SEAT SWITCH INDICATOR
DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000007457308

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

DRIVER SIDE : Component Function Check

INFOID:0000000007457309

1.CHECK HEATED SEAT SWITCH INDICATOR FUNCTION

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

Is the inspection result normal?

YES >> Heated seat switch indicator function is OK.
NO >> Refer to SE-64, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000007457310

1.CHECK HEATED SEAT SWITCH INDICATOR GROUND CIRCUIT

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

Heated seat switch		Ground	Continuity
Connector	Terminal		
M177	6		Existed

Is the inspection result normal?

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

2.CHECK HEATED SEAT SWITCH

Check heated seat switch.
Refer to SE-64, "DRIVER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 3.
NO >> Replace heated seat switch. Refer to SE-152, "Removal and Installation".

3.CHECK INTERMITTENT INCIDENT

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

>> INSPECTION END

DRIVER SIDE : Component Inspection

INFOID:0000000007457311

1.CHECK HEATED SEAT SWITCH

1. Turn ignition OFF.
2. Disconnect heated seat switch connector.
3. Set the heated seat switch ON.
4. Check continuity between heated seat switch terminals as follows.

Heated seat switch		Continuity
Terminal		
(+)*	(–)*	
5	6	Existed
6	5	Not existed

*For a digital tester.

NOTE:

- Use a tester that can perform LED (light-emitting diode) measurement.
- The polarity (+ and –) reverses when checking using an analog tester.

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace heated seat switch. Refer to SE-152, "Removal and Installation".

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000007457312

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

PASSENGER SIDE : Component Function Check

INFOID:0000000007457313

1.CHECK FUNCTION

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

Is the inspection result normal?

YES >> Heated seat switch indicator function is OK.
NO >> Refer to SE-65, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000007457314

1.CHECK HEATED SEAT SWITCH INDICATOR GROUND CIRCUIT

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

Heated seat switch		Ground	Continuity
Connector	Terminal		
M178	6		Existed

Is the inspection result normal?

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

2.CHECK HEATED SEAT SWITCH

Check heated seat switch.
Refer to SE-65, "PASSENGER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 3.
NO >> Replace heated seat switch. Refer to SE-152, "Removal and Installation".

3.CHECK INTERMITTENT INCIDENT

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

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:0000000007457315

1.CHECK HEATED SEAT SWITCH

1. Turn ignition OFF.
2. Disconnect heated seat switch connector.
3. Set the heated seat switch ON.
4. Check continuity between heated seat switch terminals.

Heated seat switch		Continuity
Terminal		
(+)*	(–)*	
5	6	Existed
6	5	Not existed

*For a digital tester.

NOTE:

- Use a tester that can perform LED (light-emitting diode) measurement.
- The polarity (+ and –) reverses when checking using an analog tester.

Is the inspection result normal?

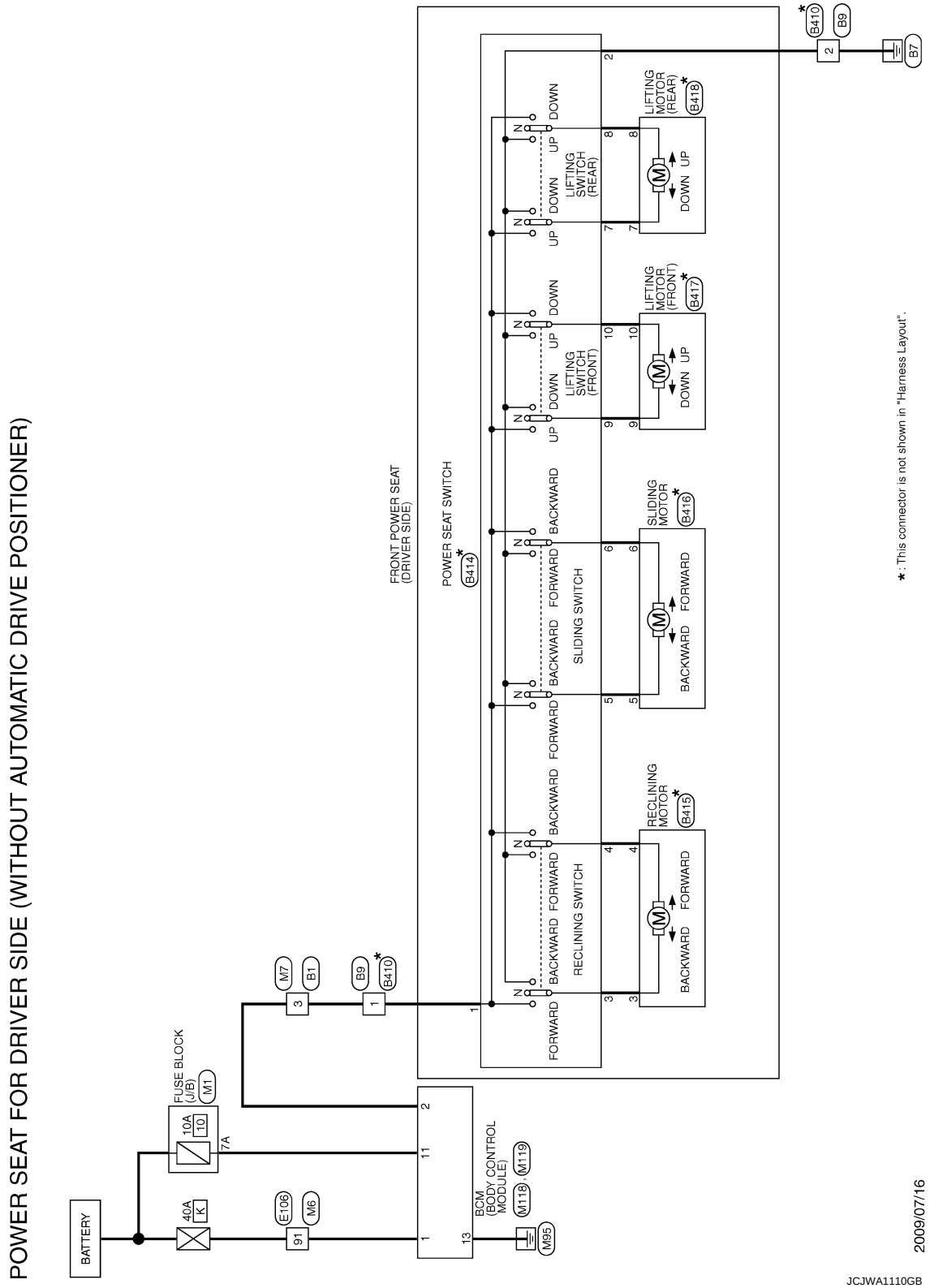
YES >> Heated seat switch is OK.

NO >> Replace heated seat switch. Refer to SE-152, "Removal and Installation".

POWER SEAT

Wiring Diagram - POWER SEAT FOR DRIVER SIDE (WITHOUT AUTOMATIC DRIVE POSITIONER) -

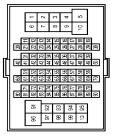
INFOID:0000000007457316



POWER SEAT FOR DRIVER SIDE (WITHOUT AUTOMATIC DRIVE POSITIONER)

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

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
3	R	-
5	G	-
6	SB	-
7	V	-
8	L	-
12	SB	-
13	LG	-
14	GR	-
15	LG	-
17	W	-
18	SB	-
19	LG	-
20	BR	-
21	SHIELD	-
22	Y	-
24	P	-
27	B	-
28	R	-
29	W	-
30	SHIELD	-
31	SHIELD	-
32	W	-
33	SB	-
34	L	-
35	P	-
36	L	-
37	P	-
38	BR	-
39	Y	-
44	Y	-
45	GR	-
46	LG	-
47	SB	-
49	G	-
50	V	-
60	P	-
61	L	-
62	SHIELD	-
63	R	-
64	G	-
65	SHIELD	-
66	W	-
67	V	-
68	SB	-
69	SHIELD	-
70	W	-
73	SB	-
74	L	-
75	W	-
76	BR	-
77	R	-
78	P	-
79	GR	-
83	BG	-
85	V	-
86	LG	-
87	Y	-
88	R	-
89	B	-
90	BG	-
91	G	-
92	BR	-
93	G	-
94	SB	-
95	G	-
96	Y	-
98	W	-
99	GR	-

Connector No.	B9
Connector Name	WIRE TO WIRE
Connector Type	M06FW-LC

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	B	-
60	G	-
66	GR	-
67	Y	-

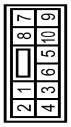
Connector No.	B410
Connector Name	WIRE TO WIRE
Connector Type	NS06MW

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	B	-
60	Y/R	-
66	B	-
67	L	-

Connector No.	B414
Connector Name	POWER SEAT SWITCH
Connector Type	NS10FW-CS

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	B	-
3	G/Y	-
4	P	-
5	W	-
6	V	-
7	L/Y	-
8	L	-
9	L/R	-
10	G/W	-

Connector No.	B415
Connector Name	RECLINING MOTOR
Connector Type	NS02FW-CS

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
3	G/Y	-
4	P	-

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POWER SEAT FOR DRIVER SIDE (WITHOUT AUTOMATIC DRIVE POSITIONER)

Connector No.	B416
Connector Name	SLIDING MOTOR
Connector Type	6088-0239

H.S.

5 6

Terminal No.	Color Of Wire	Signal Name [Specification]
5	W	-
6	V	-

Connector No.	B417
Connector Name	LIFTING MOTOR (FRONT)
Connector Type	NS02FW-CS

H.S.

9 10

Terminal No.	Color Of Wire	Signal Name [Specification]
9	L/R	-
10	G/W	-

Connector No.	B418
Connector Name	LIFTING MOTOR (REAR)
Connector Type	NS02FW-CS

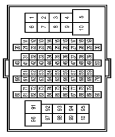
H.S.

7 8

Terminal No.	Color Of Wire	Signal Name [Specification]
7	L/Y	-
8	L	-

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

H.S.

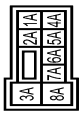


Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	W	-
3	B	-
4	GR	-
5	GR	-
8	Y	-
9	BR	-
10	BG	-
11	SB	-
12	BG	-
13	L	-
14	R	-
15	P	-
16	V	-
17	SB	-
18	V	-
20	BG	-
21	L	-

22	V	-
23	G	-
24	P	-
25	Y	-
26	V	-
27	W	-
28	G	-
31	BG	-
32	W	-
33	B	-
34	R	-
35	G	-
36	SHIELD	-
37	V	-
38	BR	-
39	BG	-
41	W	-
42	G	-
43	BR	-
45	W	-
49	L	-
50	P	-
51	L	-
54	BG	-
57	BR	-
59	W	-
60	LG	-
61	G	-
62	SB	-
63	W	-
64	B	-
65	G	-
66	R	-
67	SHIELD	-
68	Y	-
69	LG	-
70	W	-
71	R	-
72	Y	-
73	B	-
74	BR	- [With ICC]
74	L	- [Without ICC]
75	G	- [With ICC]
75	W	- [Without ICC]
76	W	- [With ICC]
76	Y	- [Without ICC]
77	P	- [Without ICC]
77	R	- [With ICC]
78	BR	- [Without ICC]
78	L	- [With ICC]
79	L	- [Without ICC]
79	Y	- [With ICC]
80	SB	-
81	R	-
82	SB	-
83	BG	-
84	G	-
85	L	-
86	P	-
87	V	-
89	GR	-
90	SHIELD	-
91	W	-
92	Y	-
93	V	-
94	LG	-
95	BG	-
96	P	-
97	R	-
98	SHIELD	-
99	L	-
100	P	-

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

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1A	GR	-
2A	G	-
3A	L	-
4A	P	-
5A	V	-
6A	Y	-
7A	R	-
8A	L	-

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POWER SEAT FOR DRIVER SIDE (WITHOUT AUTOMATIC DRIVE POSITIONER)

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

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	R	-
3	B	-
4	SHIELD	-
5	G	-
8	Y	-
9	BR	-
10	R	-
11	BR	-
12	BG	-
13	L	-
14	R	-
15	P	-
16	V	-
17	SB	-
18	V	-
20	BG	-
21	L	-
22	W	-
23	P	-
24	BR	-
25	Y	-
26	V	-
27	G	-
28	G	-
31	L	-
32	G	-
33	B	-
34	W	-
35	R	-
36	SHIELD	-
37	V	-
38	BG	-
39	BR	-
41	W	-
42	BG	-
43	BG	-
45	W	-
49	L	-
50	P	-
51	BR	-
54	Y	-
57	G	-
59	W	-
60	L	-
61	G	-
62	SB	-
63	G	-
64	B	-
65	W	-
66	R	-
67	SHIELD	-
68	Y	-
69	GR	-
70	LG	-
71	LG	-
72	Y	-
73	SB	-
74	BR	- [With ICC]
74	L	- [Without ICC]
75	G	-
76	GR	[Without ICC]
76	W	- [With ICC]
77	P	- [Without ICC]
77	R	- [With ICC]
78	L	- [With ICC]
78	R	- [Without ICC]
79	W	- [Without ICC]
79	Y	- [With ICC]
80	SB	-
81	SB	-
82	SB	-
83	V	-
84	G	-
85	L	-
86	P	-
87	W	-
89	GR	-
90	SHIELD	-
91	W	-
92	Y	-
93	BR	-
94	P	-
95	GR	-
96	W	-
97	L	-
98	SHIELD	-
99	V	-
100	SB	-

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

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
3	SB	- [With automatic drive positioner]
3	W	- [Without automatic drive positioner]
5	G	-
6	BG	-
7	W	-
8	B	-
12	SB	-
13	LG	-
14	Y	-
15	G	-
17	W	-
18	SB	-
19	LG	-
20	BR	-
21	SHIELD	-
22	Y	-
24	V	-
27	B	-
28	W	-
29	R	-
30	SHIELD	-
31	L	-
32	P	-
33	SB	-
34	L	-
35	P	-
36	L	-
37	P	-
38	BR	-
39	Y	-
44	L	-
45	GR	-
46	LG	-
47	SB	-
49	V	-
50	R	-
60	P	-
61	L	-
62	SHIELD	-
63	R	-
64	G	-
65	SHIELD	-
66	SB	-
67	V	-
68	LG	-
69	SHIELD	-
70	W	-
73	G	-
74	R	-
75	W	-
76	W	-
77	B	-
78	P	-
79	GR	-
83	BG	-
85	LG	-
86	R	-
87	Y	-
88	W	-
89	BR	-
90	BG	-
91	G	-
92	V	-
93	BR	-
94	V	-
95	G	-
96	Y	-
98	W	-
99	R	-

JRJWC9305GB

POWER SEAT FOR DRIVER SIDE (WITHOUT AUTOMATIC DRIVE POSITIONER)

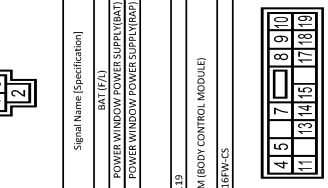
Connector No.	M118
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	M03FB-LC

H.S.

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

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

H.S.

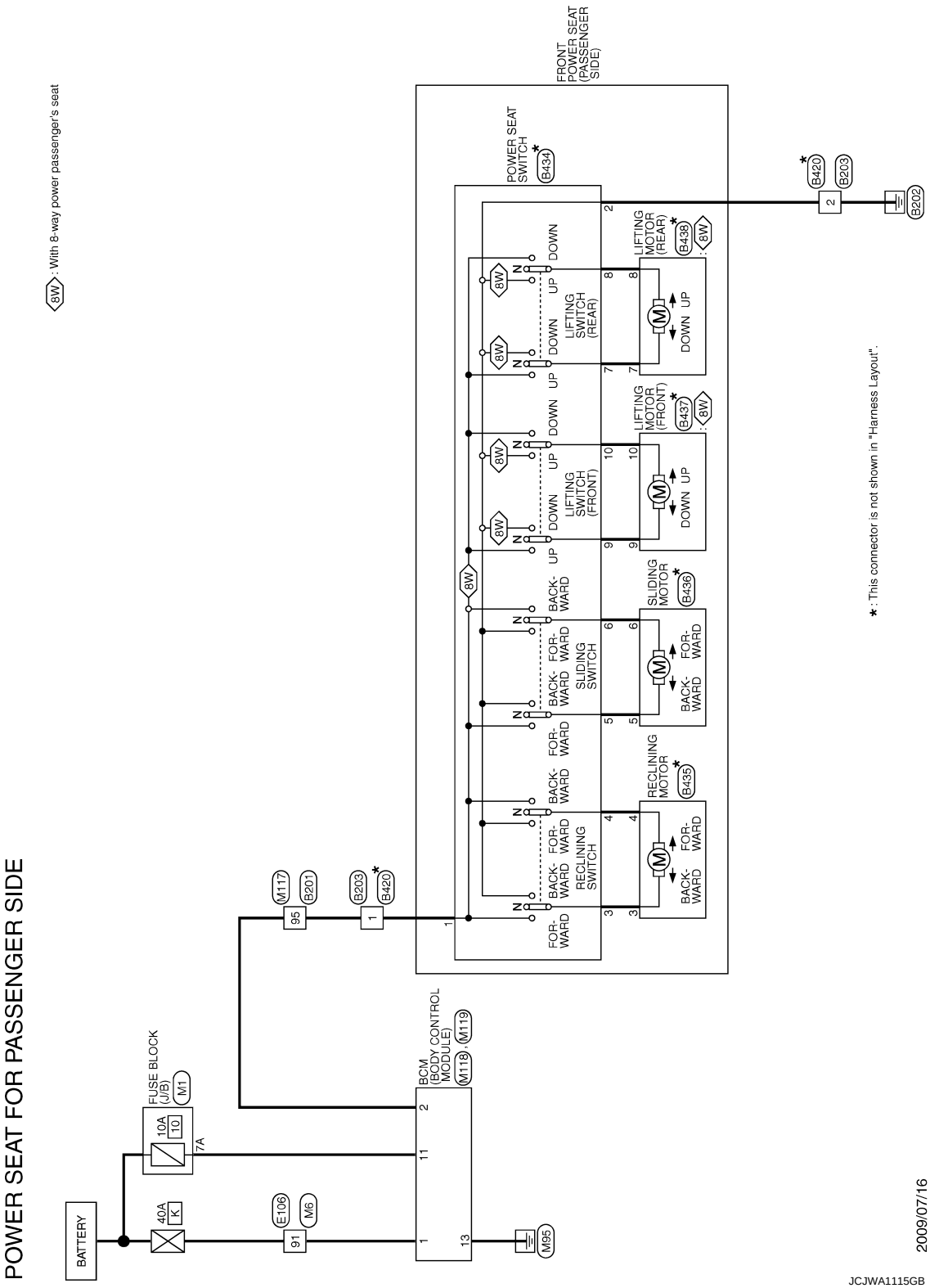


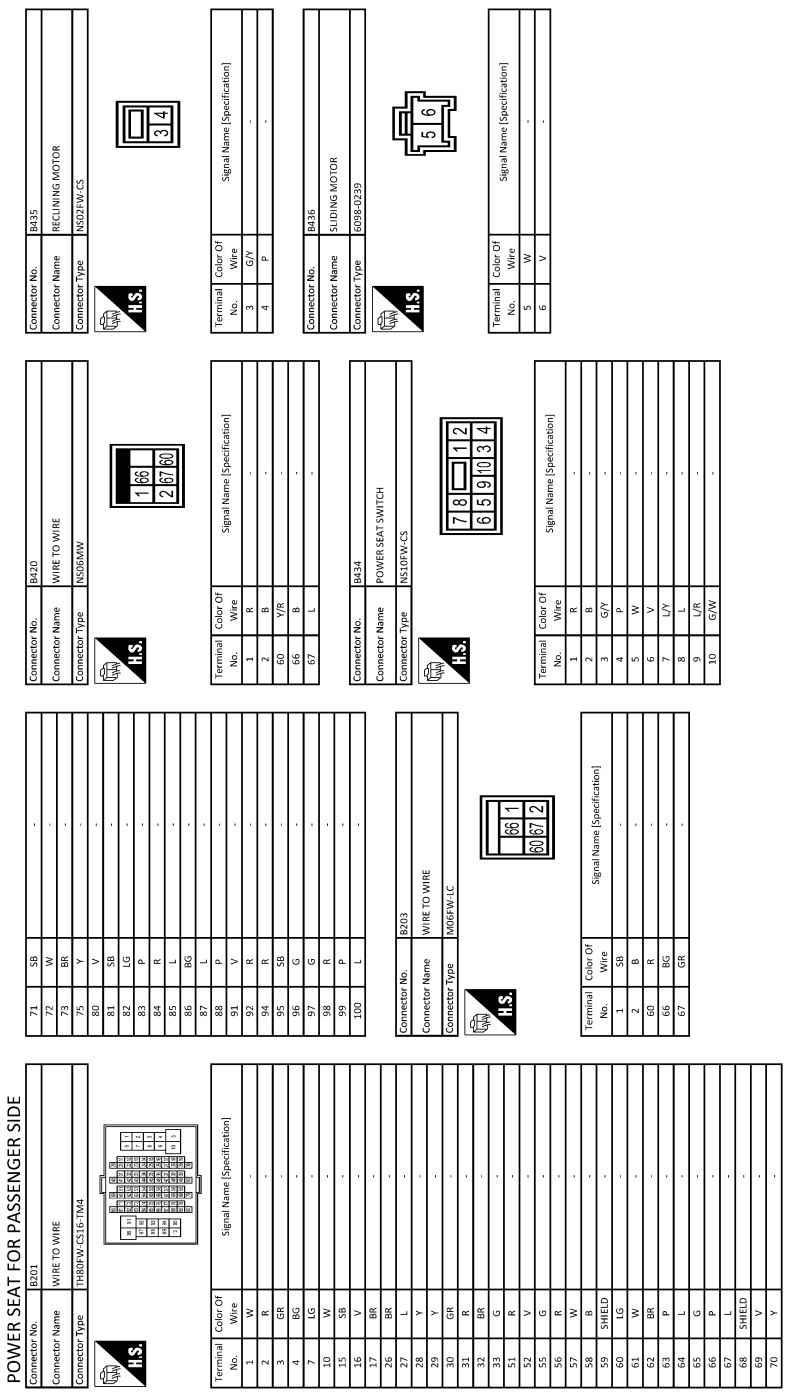
Terminal No.	Color Of Wire	Signal Name [Specification]
4	LG	INTERIOR ROOM LAMP POWER SUPPLY
5	L	PASSENGER DOOR UNLOCK OUTPUT
7	Y	STEP LAMP CONT
8	V	ALL DOOR, FUEL LID LOCK OUTPUT
9	G	DRIVER DOOR, FUEL LID UNLOCK OUTPUT
10	BR	REAR DOOR UNLOCK OUTPUT
11	R	BAT (FUSE)
13	B	GROUND
14	W	PUSH-BUTTON IGNITION SW ILL GND
15	Y	ACC IND
17	W	TURN SIGNAL RH (FRONT)
18	BG	TURN SIGNAL LH (FRONT)
19	V	INT ROOM LAMP CONT

JRJWC9306GB

Wiring Diagram - POWER SEAT FOR PASSENGER SIDE -

INFOID:0000000007457317





JRJWC9307GB

POWER SEAT FOR PASSENGER SIDE

Connector No.	B437
Connector Name	LIFTING MOTOR (FRONT)
Connector Type	NS02FW-CS

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
9	L/R	-
10	G/W	-

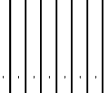
Connector No.	B438
Connector Name	LIFTING MOTOR (REAR)
Connector Type	NS02FW-CS

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
7	L/Y	-
8	L	-

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

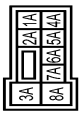
H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	W	-
3	B	-
4	GR	-
5	GR	-
8	Y	-
9	BR	-
10	BG	-
11	SB	-
12	BG	-
13	L	-
14	R	-
15	P	-
16	V	-
17	SB	-
18	V	-
20	BG	-
21	L	-
22	V	-
23	G	-
24	P	-
25	Y	-
26	V	-
27	W	-
28	G	-
31	BG	-
32	W	-
33	B	-
34	R	-
35	G	-
36	SHIELD	-
37	V	-
38	BR	-
39	BG	-
41	W	-
42	G	-
43	BR	-
45	W	-
49	L	-
50	P	-
51	L	-
54	BG	-
57	BR	-
59	W	-
60	LG	-
61	G	-
62	SB	-
63	W	-
64	B	-
65	G	-
66	R	-
67	SHIELD	-
68	Y	-
69	LG	-
70	W	-
71	R	-
72	Y	-
73	B	-
74	BR	- [With ICC]
74	L	- [Without ICC]
75	G	- [With ICC]
75	W	- [Without ICC]
76	W	- [With ICC]
76	Y	- [Without ICC]
77	P	- [With ICC]
77	R	- [Without ICC]
78	BR	- [With ICC]
78	L	- [Without ICC]
79	L	- [With ICC]
79	Y	- [Without ICC]
80	SB	-
81	R	-
82	SB	-
83	BG	-
84	G	-
85	L	-
86	P	-
87	V	-
89	GR	-
90	SHIELD	-
91	W	-
92	Y	-
93	V	-
94	LG	-
95	BG	-
96	P	-
97	R	-
98	SHIELD	-
99	L	-
100	P	-

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

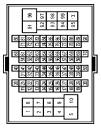
H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1A	GR	-
2A	G	-
3A	L	-
4A	P	-
5A	V	-
6A	Y	-
7A	R	-
8A	L	-

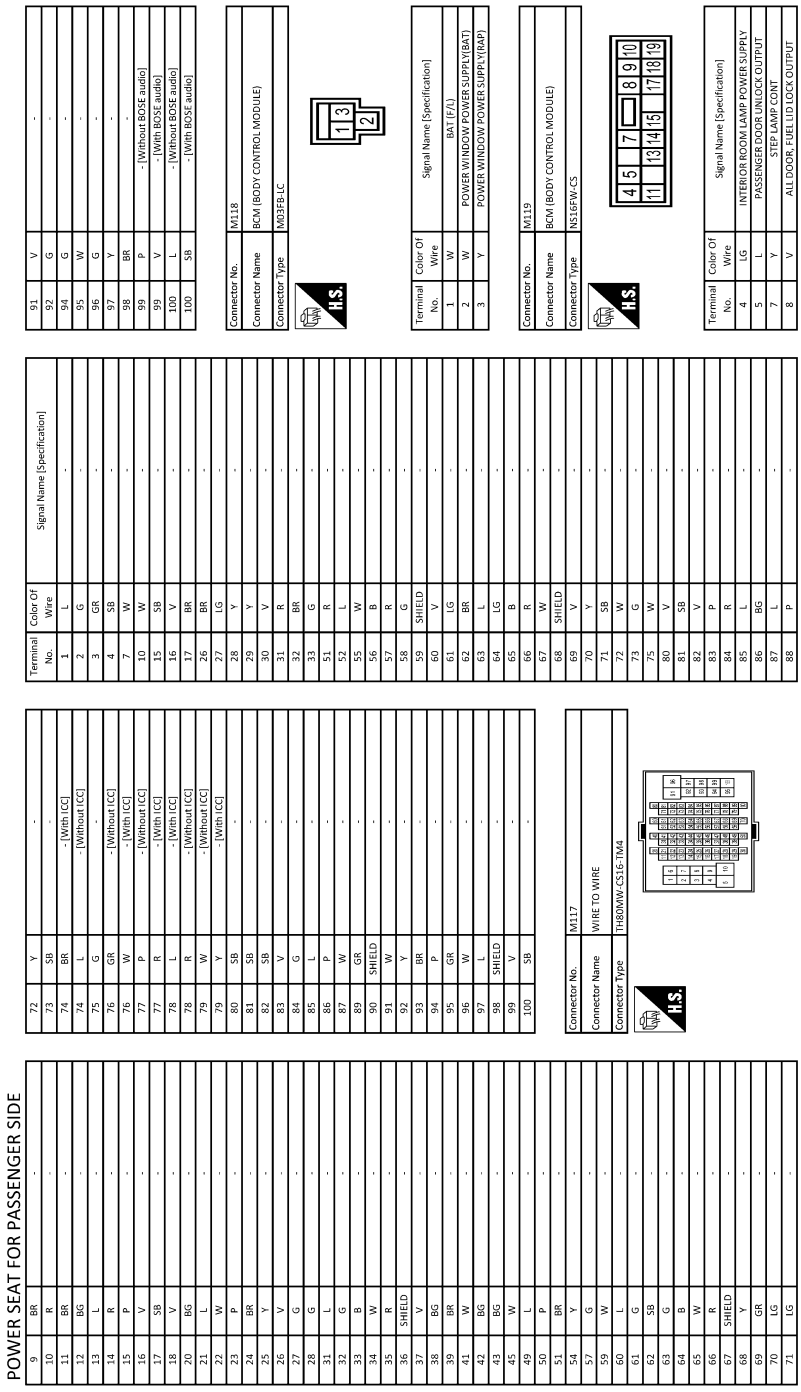
Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	R	-
3	B	-
4	SHIELD	-
5	G	-
8	Y	-

JRJWC9308GB



JRJWC9309GB

POWER SEAT FOR PASSENGER SIDE

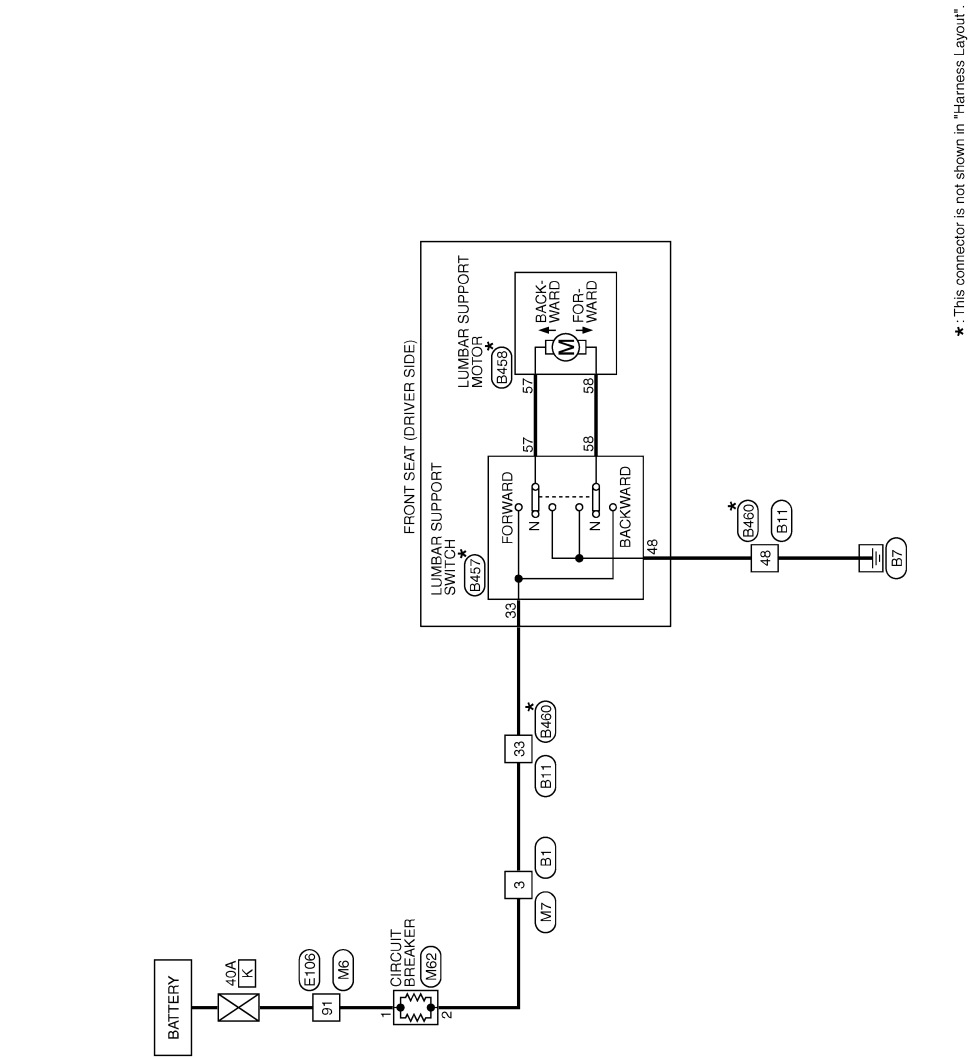
9	G	DRIVER DOOR, FUEL LID UNLOCK OUTPUT
10	BR	REAR DOOR UNLOCK OUTPUT
11	R	BAT (FUSE)
13	B	GROUND
14	W	PUSH-BUTTON IGNITION SW I LL GND
15	Y	ACC IND
17	W	TURN SIGNAL RH (FRONT)
18	BG	TURN SIGNAL LH (FRONT)
19	V	INT ROOM LAMP CONT

JRJWC9310GB

LUMBAR SUPPORT

Wiring Diagram - LUMBAR SUPPORT SYSTEM -

INFOID:0000000007457318



LUMBAR SUPPORT

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

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
3	R	-
5	G	-
6	SB	-
7	V	-
8	L	-
12	SB	-
13	LG	-
14	GR	-
15	LG	-
17	W	-
18	SB	-
19	LG	-
20	BR	-
21	SHIELD	-
22	Y	-
24	P	-
27	B	-
28	R	-
29	W	-
30	SHIELD	-
31	SHIELD	-
32	W	-
33	SB	-
34	L	-
35	P	-
36	L	-
37	P	-
38	BR	-
39	Y	-
44	Y	-
45	GR	-
46	LG	-
47	SB	-
49	G	-
50	V	-
60	P	-
61	L	-
62	SHIELD	-
63	R	-
64	G	-
65	SHIELD	-
66	W	-
67	V	-
68	SB	-
69	SHIELD	-
70	W	-
73	SB	-
74	L	-
75	W	-
76	BR	-
77	R	-
78	P	-
79	GR	-
83	BG	-
85	V	-
86	LG	-
87	Y	-
88	R	-
89	B	-
90	BG	-
91	G	-
92	BR	-
93	G	-
94	SB	-
95	G	-
96	Y	-
98	W	-
99	GR	-

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

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
3	L	-
17	Y	-
19	P	-
21	V	-
32	B	-
33	R	-
40	BR	-
48	B	-
60	G	-
66	GR	-
67	Y	-

Connector No.	B457
Connector Name	LUMBAR SUPPORT SWITCH
Connector Type	NS04FW-CS

H.S.

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

Connector No.	B458
Connector Name	LUMBAR SUPPORT MOTOR
Connector Type	C02FW

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
57	W	-
58	L	-

Connector No.	B460
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	L/W	-
3	R/Y	-
17	Y/R	-
19	V	-
21	L/Y	-
32	B/W	-
33	R	-
40	R/W	-
48	B	-
60	Y/R	-
66	B	-
67	L	-

JRJWC9311GB

LUMBAR SUPPORT

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

Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	W	-
3	B	-
4	GR	-
5	GR	-
8	Y	-
9	BR	-
10	BG	-
11	SB	-
12	BG	-
13	L	-
14	R	-
15	P	-
16	V	-
17	SB	-
18	V	-
20	BG	-
21	L	-
22	V	-
23	G	-
24	P	-
25	Y	-
26	V	-
27	W	-
28	G	-
31	BG	-
32	W	-
33	B	-
34	R	-
35	G	-
36	SHIELD	-
37	V	-
38	BR	-
39	BG	-
41	W	-
42	G	-
43	BR	-
45	W	-
49	L	-
50	P	-
51	L	-
54	BG	-
57	BR	-
59	W	-
60	LG	-
61	G	-
62	SB	-
63	W	-
64	B	-
65	G	-
66	R	-
67	SHIELD	-
68	Y	-
69	LG	-
70	W	-
71	R	-
72	Y	-
73	B	-
74	BR	- [With ICC] - [Without ICC]
74	L	- [With ICC] - [Without ICC]
75	G	- [With ICC] - [Without ICC]
76	W	- [With ICC] - [Without ICC]
76	Y	- [With ICC] - [Without ICC]
77	P	- [With ICC] - [Without ICC]
77	R	- [With ICC] - [Without ICC]
78	BR	- [With ICC] - [Without ICC]
78	L	- [With ICC] - [Without ICC]
79	L	- [With ICC] - [Without ICC]
79	Y	- [With ICC] - [Without ICC]
80	SB	-
81	R	-
82	SB	-
83	BG	-
84	G	-
85	L	-
86	P	-
87	V	-
89	GR	-
90	SHIELD	-
91	W	-
92	Y	-
93	V	-
94	LG	-
95	BG	-
96	P	-
97	R	-
98	SHIELD	-
99	L	-
100	P	-

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

Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	R	-
3	B	-
4	SHIELD	-
5	G	-
8	Y	-
9	BR	-
10	R	-
11	BR	-
12	BG	-
13	L	-
14	R	-
15	P	-
16	V	-
17	SB	-
18	V	-
20	BG	-
21	L	-
22	W	-
23	P	-
24	BR	-
25	Y	-
26	V	-
27	G	-
28	G	-
31	L	-
32	G	-
33	B	-
34	W	-
35	R	-

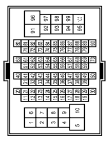
JRJWC9312GB

LUMBAR SUPPORT

92	Y
93	BR
94	P
95	GR
96	W
97	L
98	SHIELD
99	V
100	SB

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

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
3	SB	-
3	W	[With automatic drive positioner]
5	G	- [Without automatic drive positioner]
6	BG	-
7	W	-
8	B	-
12	SB	-
13	LG	-
14	Y	-
15	G	-
17	W	-
18	SB	-
19	LG	-
20	BR	-
21	SHIELD	-
22	V	-
24	V	-
27	B	-
28	W	-
29	R	-
30	SHIELD	-
31	L	-
32	P	-
33	SB	-
34	L	-

35	P
36	L
37	P
38	BR
39	Y
44	L
45	GR
46	LG
47	SB
49	V
50	R
60	P
61	L
62	SHIELD
63	R
64	G
65	SHIELD
66	SB
67	V
68	LG
69	SHIELD
70	W
73	G
74	R
75	W
76	W
77	B
78	P
79	GR
83	BG
85	LG
86	R
87	Y
88	W
89	BR
90	BG
91	G
92	V
93	BR
94	V
95	G
96	Y
98	W
99	R

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

H.S.

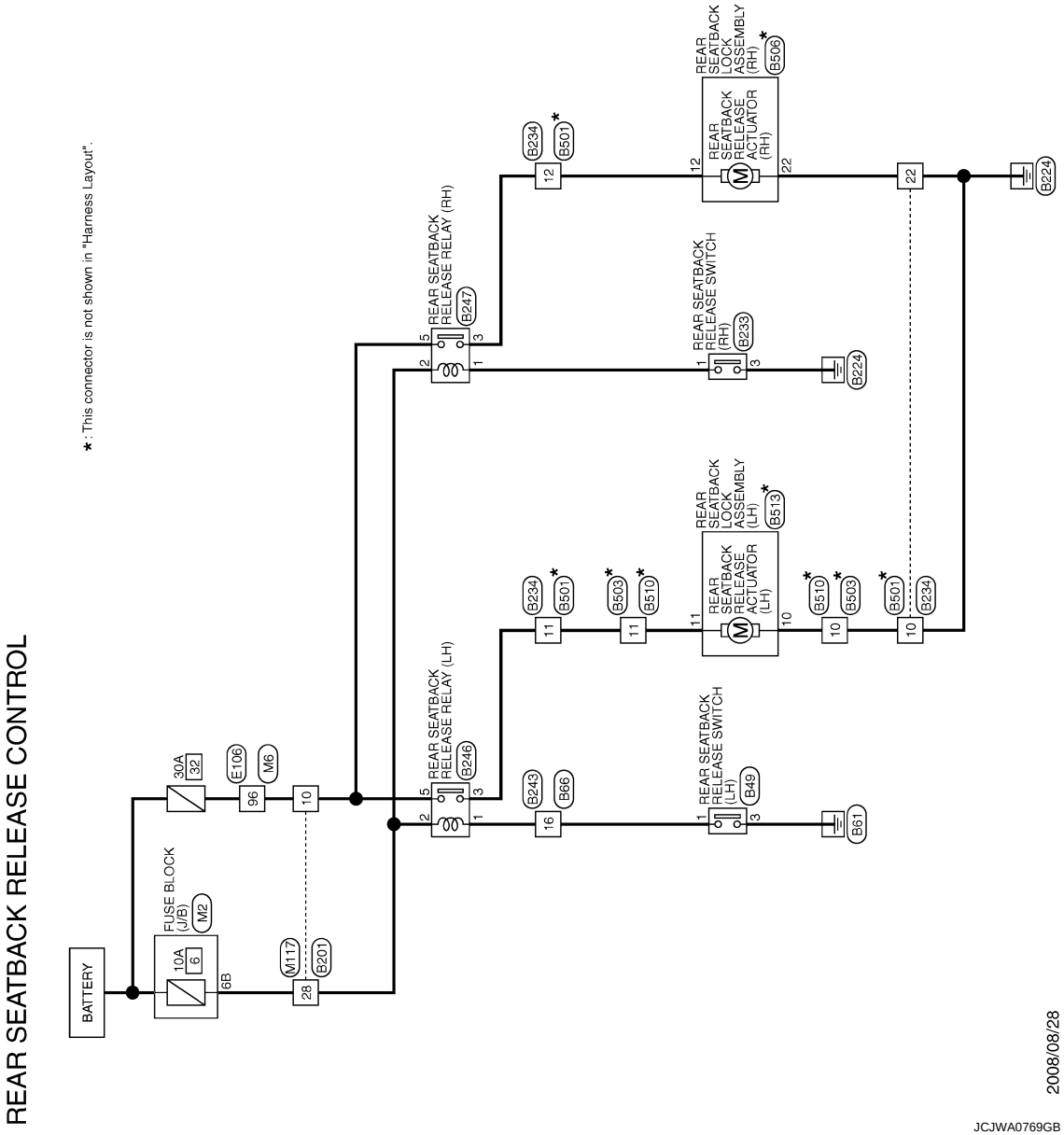
Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	SB	-

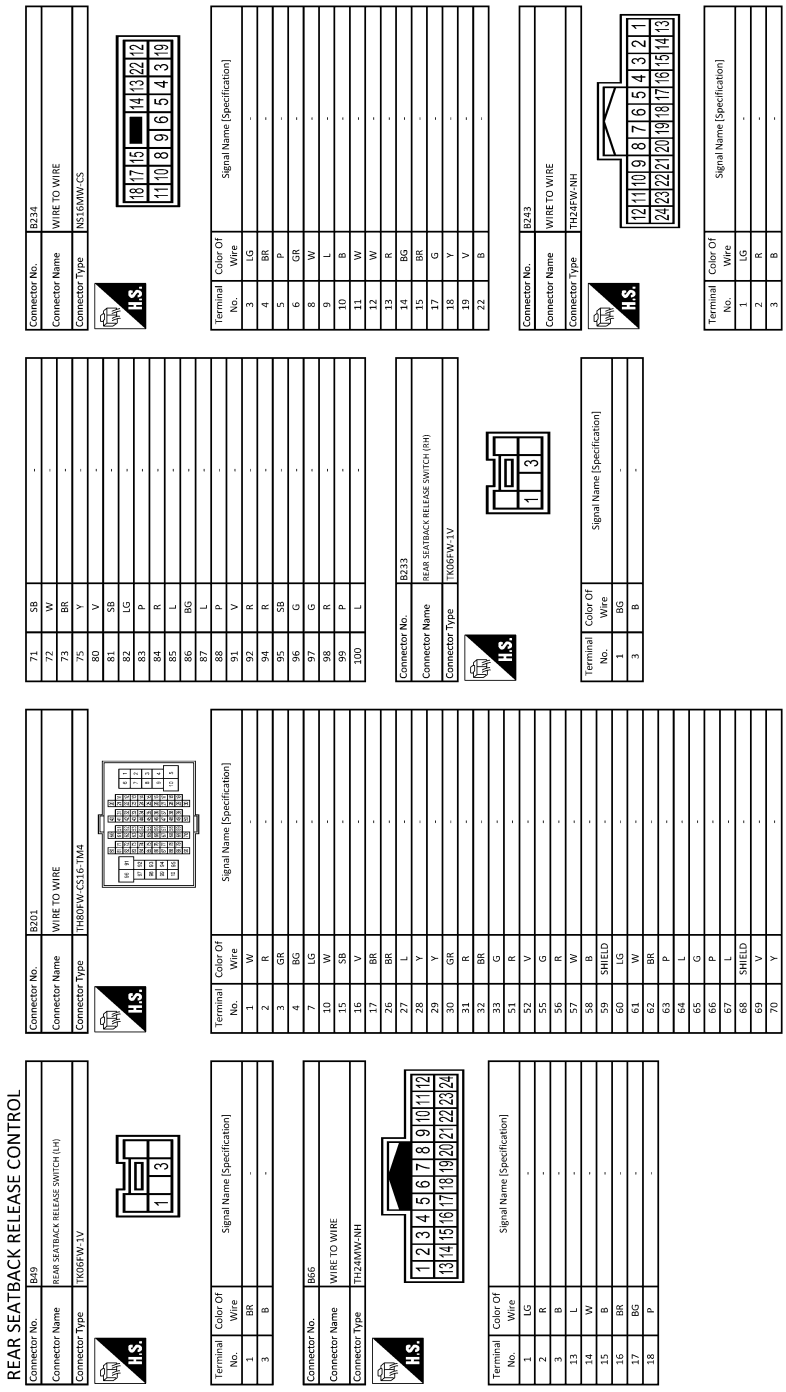
JRJWC9313GB

REAR SEATBACK RELEASE CONTROL

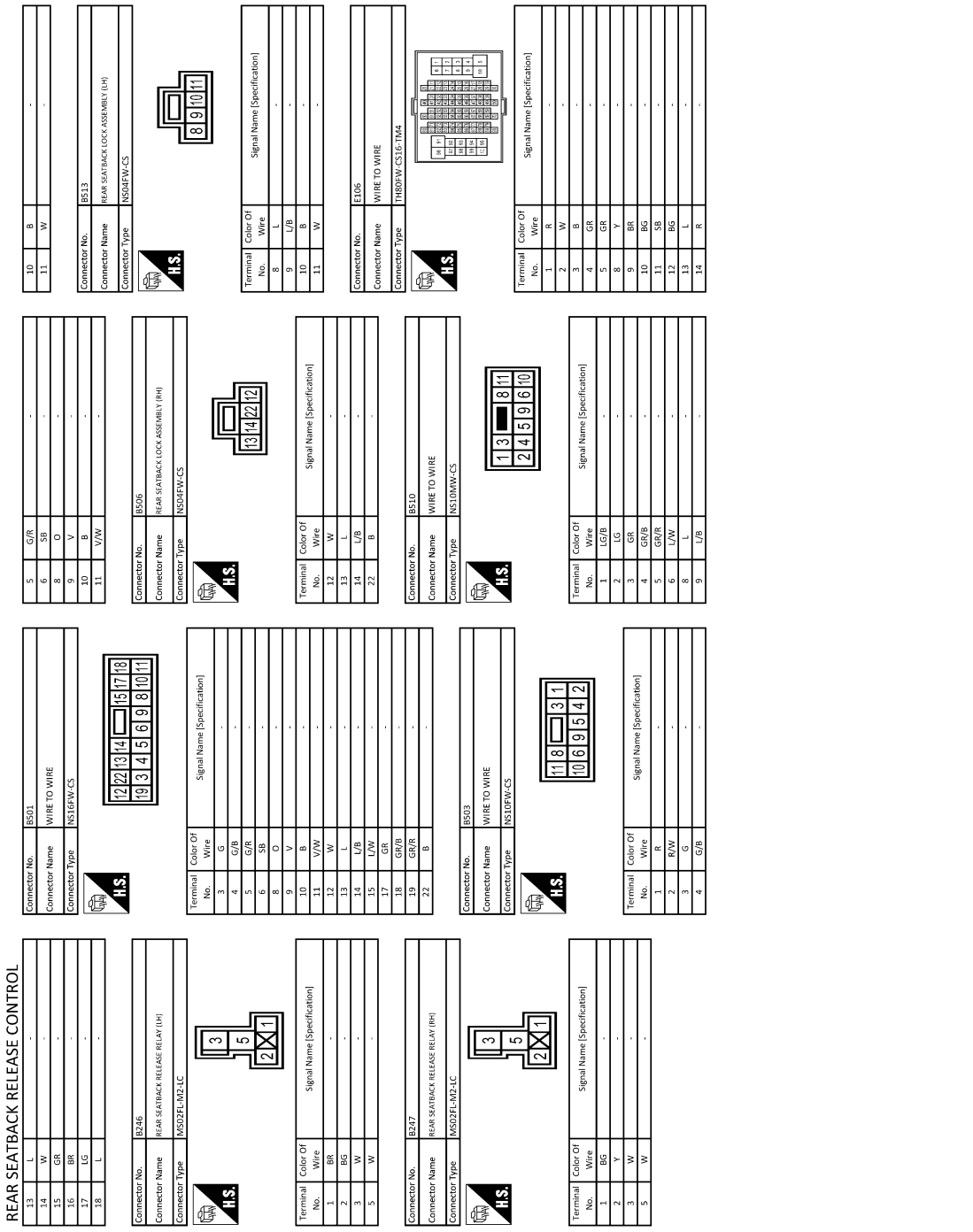
Wiring Diagram - REAR SEATBACK RELEASE CONTROL -

INFOID:0000000007457319

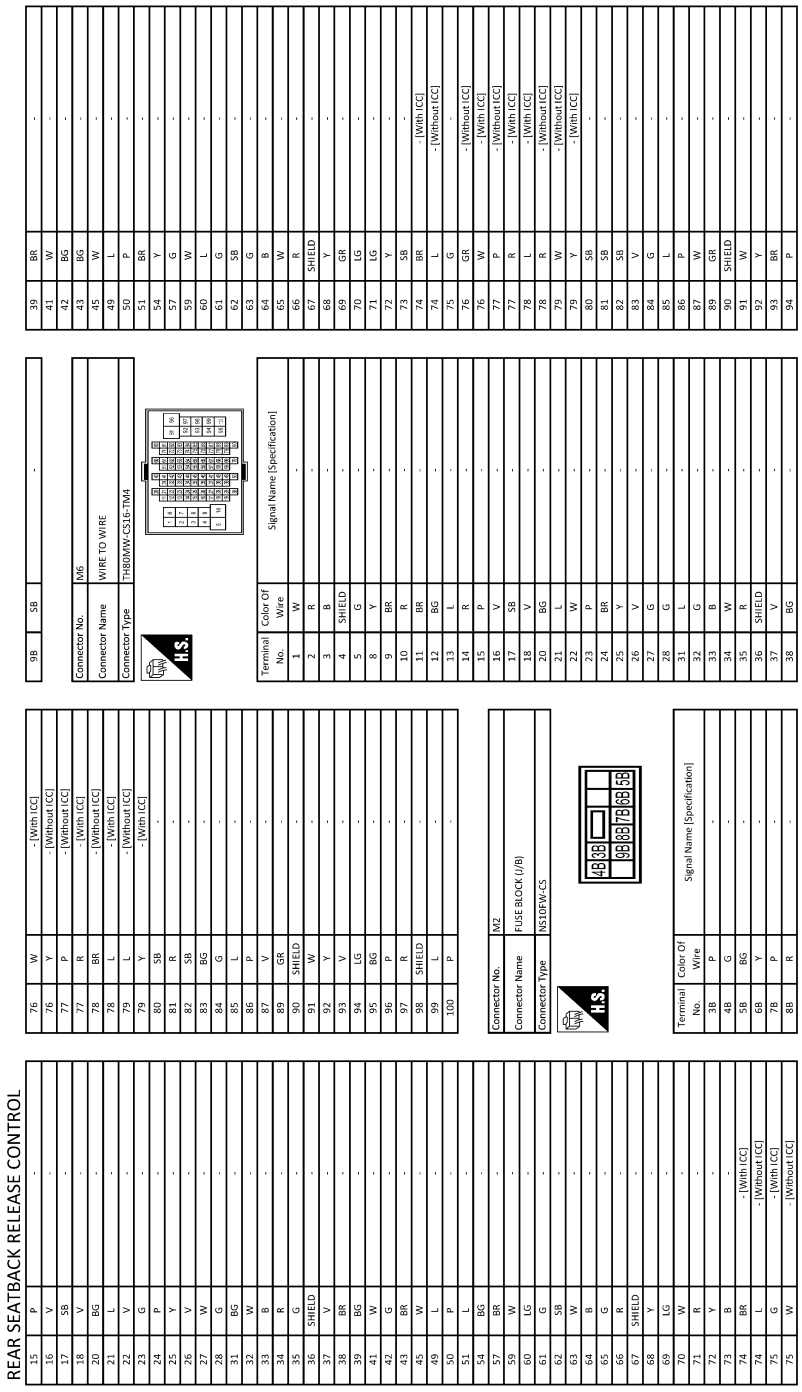




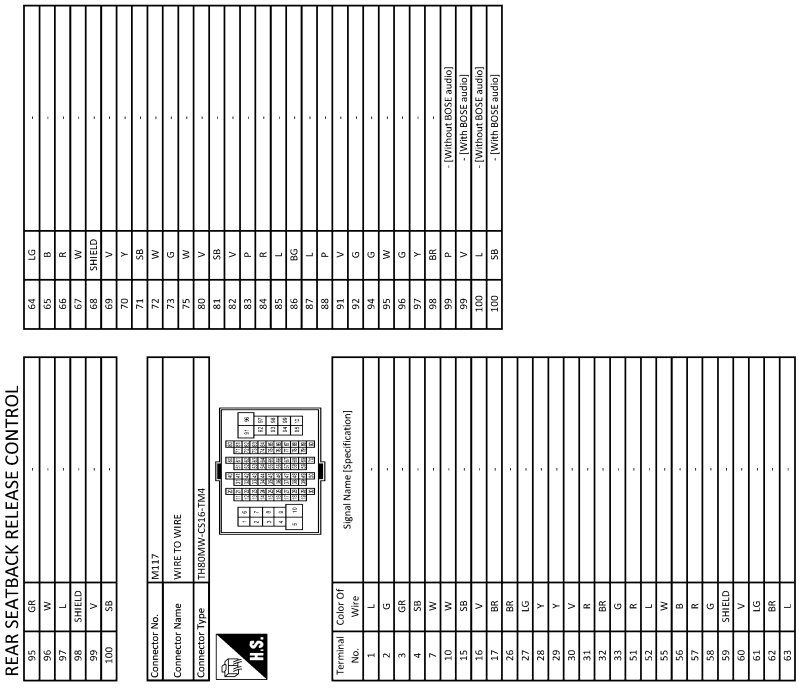
JRJWC9325GB



JRJWC9326GB



JRJWC9327GB



JRJWC9328GB

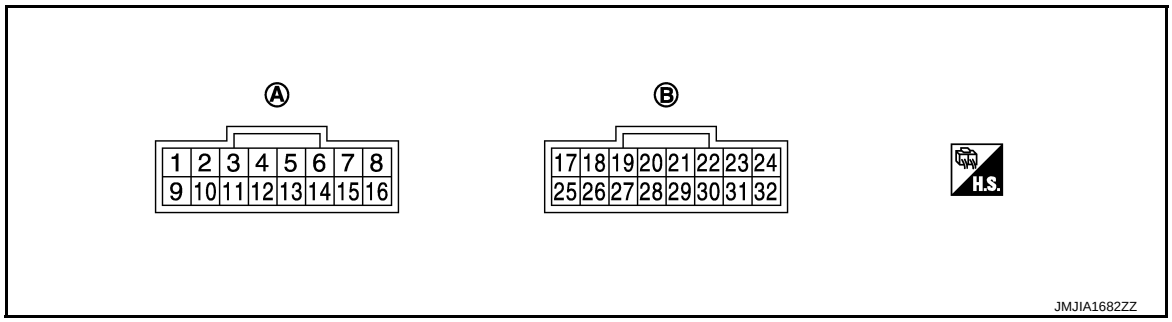
ECU DIAGNOSIS INFORMATION

REAR SEAT BACK POWER RETURN CONTROL UNIT

Reference Value

INFOID:0000000007457320

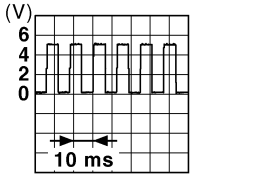
TERMINAL LAYOUT

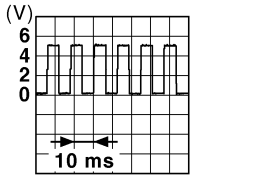
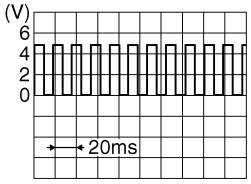


A. B227 B. B226

PHYSICAL VALUES

Rear seat back power return control unit

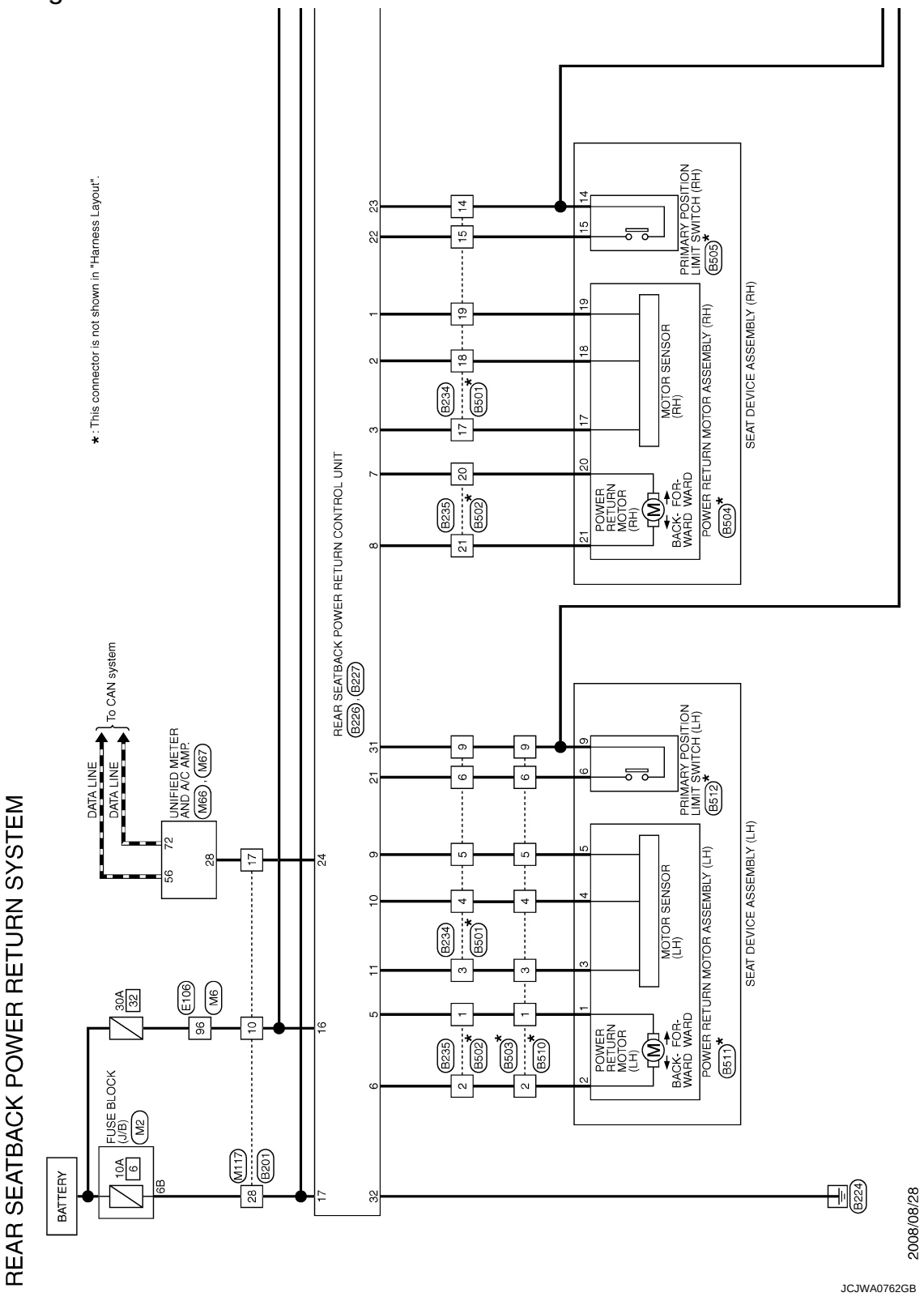
Terminal No. (Wire color)		Description		Condition	Voltage (V) (Approx.)
(+)	(–)	Signal name	Input/ Output		
1 (V)	Ground	Ground (Motor sensor RH)	—	—	0
2 (Y)	Ground	Motor sensor (RH) input signal	Input	When the power return motor (RH) is operated	 JMKIA0070GB
				When the pinch occurs	The above pulse width should be expanded
3 (G)	Ground	Motor sensor (RH) Power supply	Input	When the power return motor is operated	Battery voltage
5 (GR)	Ground	Power return motor (LH) backward signal	Output	When the power return motor (LH) performs reverse operation	Battery voltage
				Other than the above	0
6 (L)	Ground	Power return motor (LH) forward signal	Output	When the power return motor (LH) performs return operation	Battery voltage
				Other than the above	0
7 (SB)	Ground	Power return motor (RH) backward signal	Output	When the power return motor (RH) performs reverse operation	Battery voltage
				Other than the above	0
8 (R)	Ground	Power return motor (RH) forward signal	Output	When the power return motor (RH) performs return operation	Battery voltage
				Other than the above	0
9 (P)	Ground	Ground (Motor sensor LH)	—	—	0

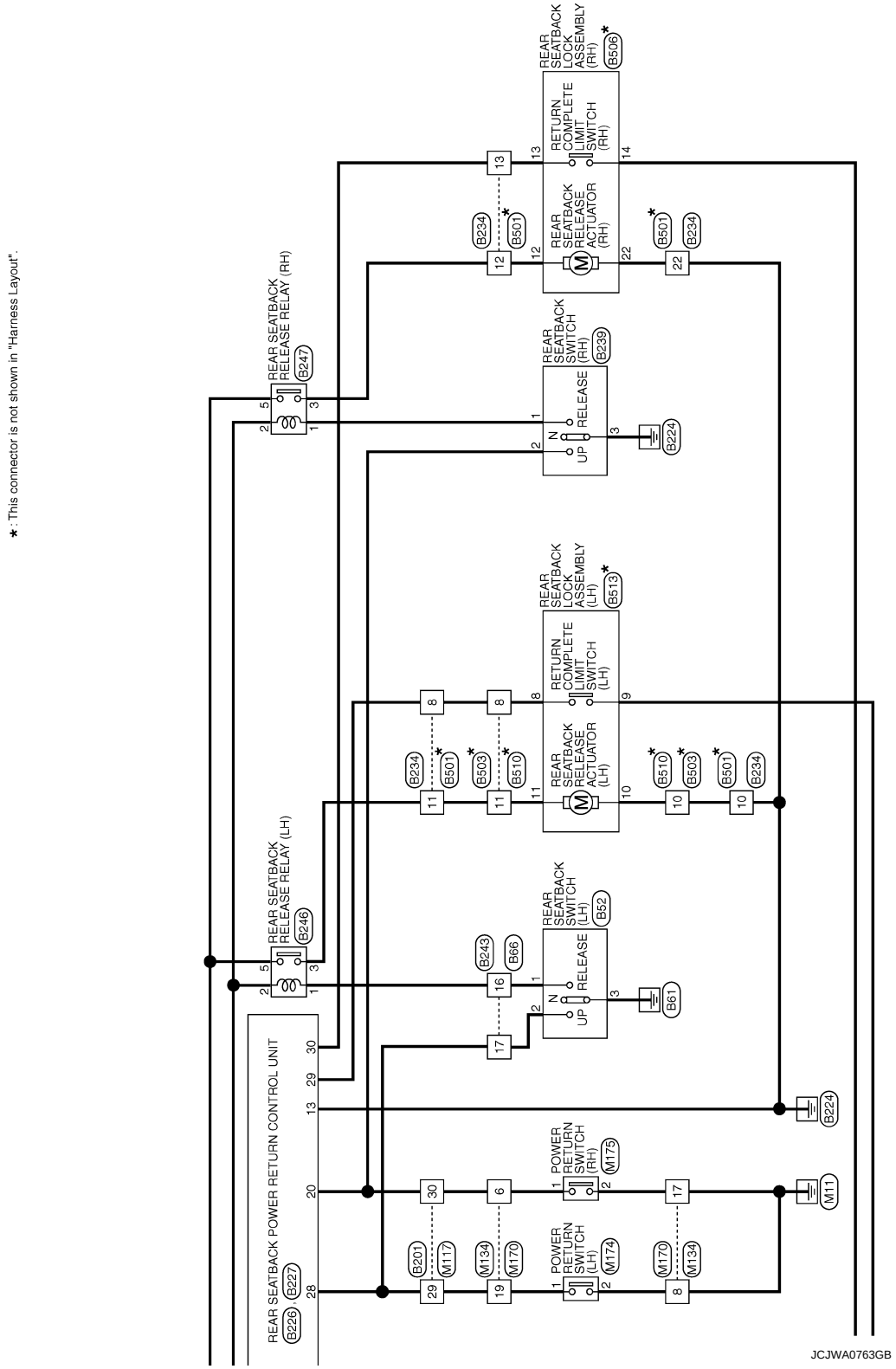
Terminal No. (Wire color)		Description		Condition	Voltage (V) (Approx.)
(+)	(–)	Signal name	Input/ Output		
10 (BR)	Ground	Motor sensor (LH) input signal	Input	When the power return motor (LH) is operated	 JMKIA0070GB
				When the pinch occurs	The above pulse width should be expanded
11 (LG)	Ground	Motor sensor (LH) Power supply	Input	When the power return motor is operated	Battery voltage
13 (B)	Ground	Ground (power)	—	—	0
16 (W)	Ground	Battery power supply (power)	Input	—	Battery voltage
17 (Y)	Ground	Battery power supply (system)	Input	—	Battery voltage
20 (P)	Ground	Power return switch (RH) or rear seatback switch (RH) in UP direction input signal	Input	When pressing the power return switch (RH) or rear seatback switch (RH) in UP direction	0
				Other than the above	5
21 (GR)	Ground	Primary position limit switch (LH) input signal	Input	When the sector gear (LH) is in the initial position (other than low power consumption mode)	Battery voltage
				Other than the above	0
22 (BR)	Ground	Primary position limit switch (RH) input signal	Input	When the sector gear (RH) is in the initial position (other than low power consumption mode)	Battery voltage
				Other than the above	0
23 (BG)	Ground	Ground (limit switch RH)	—	—	0
24 (BR)	Ground	Vehicle speed signal (8-pulse)	Input	When vehicle speed is approx.40 km/h (25MPH)	**NOTE:** Maximum voltage may be 12 V due to specifications (connected units)  SKIA6649J
28 (LG)	Ground	Power return switch (LH) or rear seatback switch in UP direction input signal	Input	When pressing the power return switch (LH) or rear seatback switch in UP direction	0
				Other than the above	5
29 (W)	Ground	Return complete limit switch (LH) input signal	Input	When the rear seatback (LH) is in the return completion position (other than low power consumption mode)	Battery voltage
				Other than the above	0

Terminal No. (Wire color)		Description		Condition	Voltage (V) (Approx.)
(+)	(–)	Signal name	Input/ Output		
30 (R)	Ground	Return complete limit switch (RH) input signal	Input	When the rear seatback (RH) is in the return completion position (other than low power consumption mode)	Battery voltage
				Other than the above	0
31 (L)	Ground	Ground (limit switch LH)	—	—	0
32 (B)	Ground	Ground (system)	—	—	0

Wiring Diagram - REAR SEATBACK POWER RETURN SYSTEM -

INFOID:0000000007457321



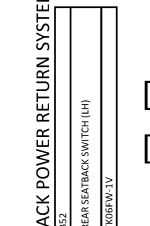

★: This connector is not shown in "Harness Layout".
REAR SEATBACK POWER RETURN CONTROL UNIT
B226, B227
REAR SEATBACK RELEASE RELAY (RH)
B247
REAR SEATBACK RELEASE RELAY (LH)
B246
REAR SEATBACK LOCK ASSEMBLY (RH)
B506
RETURN COMPLETE LIMIT SWITCH (RH)
REAR SEATBACK RELEASE ACTUATOR (RH)
REAR SEATBACK SWITCH (RH)
B239
REAR SEATBACK LOCK ASSEMBLY (LH)
B513
RETURN COMPLETE LIMIT SWITCH (LH)
REAR SEATBACK RELEASE ACTUATOR (LH)
REAR SEATBACK SWITCH (LH)
B52
POWER RETURN SWITCH (RH)
M175
POWER RETURN SWITCH (LH)
M174
RELEASE
UP
N
B224
B61
M11
B201
M117
M134
M170
B234
B501
B503
B510
B243
B66
JCJWA0763GB

REAR SEATBACK POWER RETURN SYSTEM

Connector No.	B52
Connector Name	REAR SEATBACK SWITCH (LH)
Connector Type	TK06FW-3 V

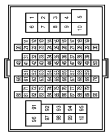
Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	-
2	BG	-
3	B	-

Connector No.	B66
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	-
2	R	-
3	B	-
13	L	-
14	W	-
15	B	-
16	BR	-
17	BG	-
18	P	-

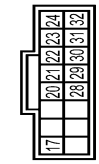
Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	R	-
3	GR	-
4	BG	-
7	LG	-
10	W	-
15	SB	-
16	V	-
17	BR	-
26	BR	-
27	L	-
28	Y	-
29	Y	-
30	GR	-
31	R	-
32	BR	-
33	G	-
51	R	-
52	V	-
55	G	-
56	R	-
57	W	-
58	B	-
59	SHIELD	-
60	LG	-
61	W	-
62	BR	-
63	P	-
64	L	-
65	G	-
66	P	-
67	L	-
68	SHIELD	-
69	V	-
70	Y	-

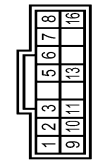
71	SB	-
72	W	-
73	BR	-
75	Y	-
80	V	-
81	SB	-
82	LG	-
83	P	-
84	R	-
85	L	-
86	BG	-
87	L	-
88	P	-
91	V	-
92	R	-
94	R	-
95	SB	-
96	G	-
97	G	-
98	R	-
99	P	-
100	L	-

Connector No.	B226
Connector Name	REAR SEATBACK POWER RETURN CONTROL UNIT
Connector Type	YAA16FW



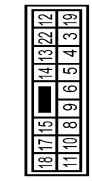
Terminal No.	Color Of Wire	Signal Name [Specification]
17	Y	BAT (SYSTEM)
20	P	FLIP UP SW RH
21	GR	PRIMARY POSITION L/S (LH)
22	BR	PRIMARY POSITION L/S (RH)
23	BG	GND (RH L/S)
24	BR	SPEED 8P
28	LG	FLIP UP SW LH
29	W	RETURN COMPLETE L/S (LH)
30	R	RETURN COMPLETE L/S (RH)
31	L	GND (LH L/S)
32	B	GND (SIGNAL)

Connector No.	B227
Connector Name	REAR SEATBACK POWER RETURN CONTROL UNIT
Connector Type	SEA16FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	GND (RH SENSOR)
2	Y	MOTOR SENSOR (RH)
3	G	POWER SUPPLY (RH SENSOR)
5	GR	BACKWARD
6	L	FORWARD
7	SB	BACKWARD
8	R	FORWARD
9	P	GND (LH SENSOR)
10	BR	MOTOR SENSOR (LH)
11	LG	POWER SUPPLY (LH SENSOR)
13	B	GND (POWER)
16	W	BAT (POWER)

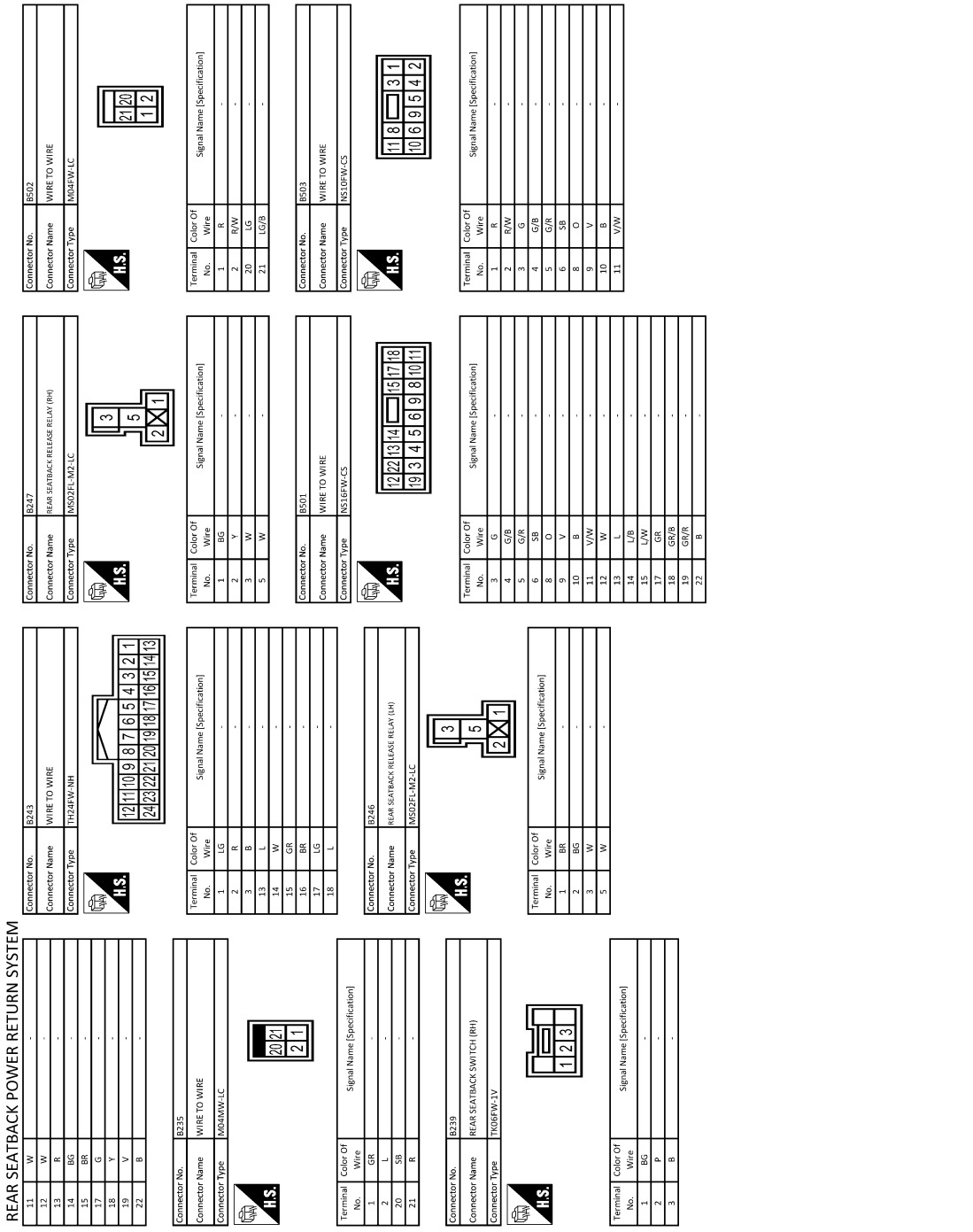
Connector No.	B234
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
3	LG	-
4	BR	-
5	P	-
6	GR	-
8	W	-
9	L	-
10	B	-

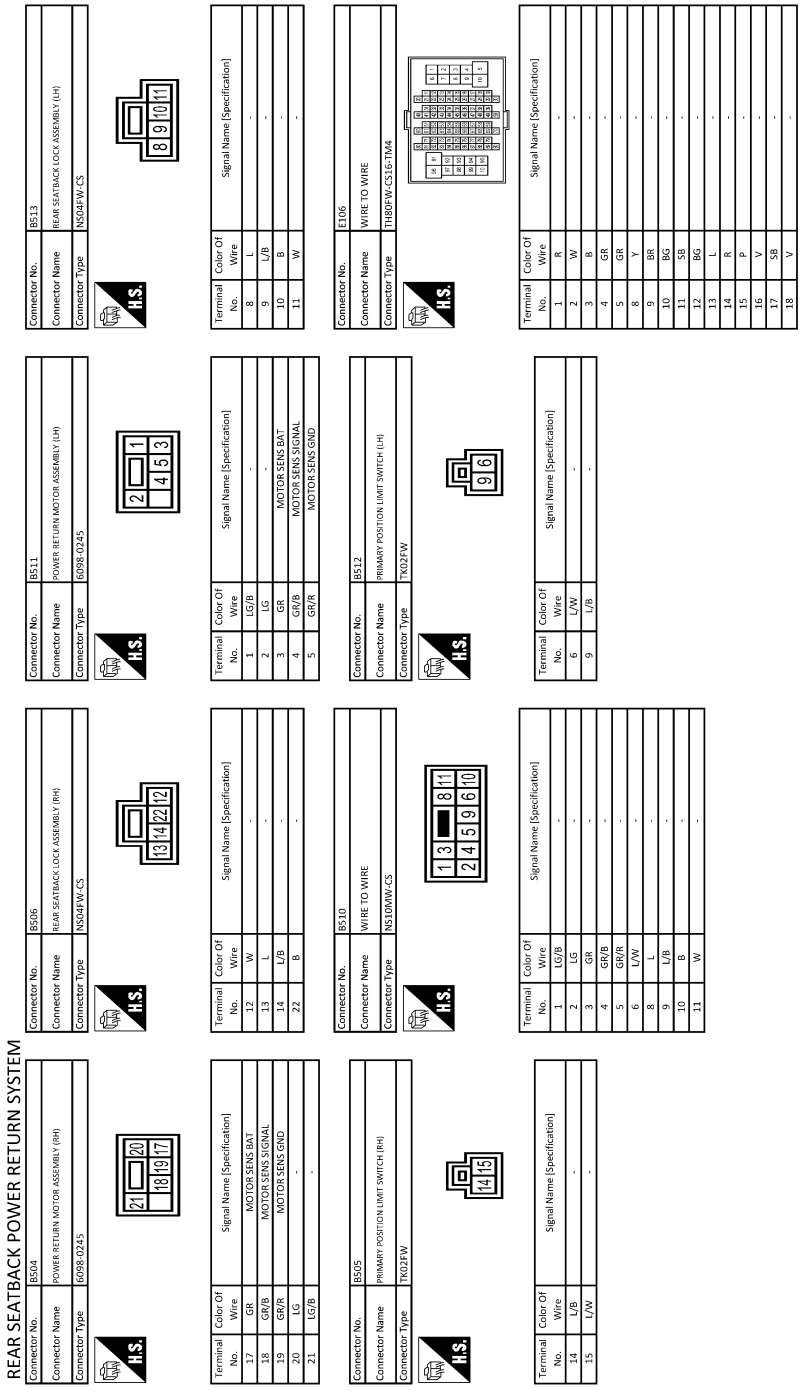
JRJWC9320GB

REAR SEATBACK POWER RETURN SYSTEM



JRJWC9321GB

REAR SEATBACK POWER RETURN SYSTEM

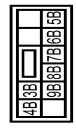


JRJWC9322GB

REAR SEATBACK POWER RETURN SYSTEM

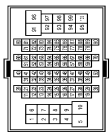
20	BG	-
21	L	-
22	V	-
23	G	-
24	P	-
25	Y	-
26	V	-
27	W	-
28	G	-
31	BG	-
32	W	-
33	B	-
34	R	-
35	G	-
36	SHIELD	-
37	V	-
38	BR	-
39	BG	-
41	W	-
42	G	-
43	BR	-
45	W	-
49	L	-
50	P	-
51	L	-
54	BG	-
57	BR	-
59	W	-
60	LG	-
61	G	-
62	SB	-
63	W	-
64	B	-
65	G	-
66	R	-
67	SHIELD	-
68	Y	-
69	LG	-
70	W	-
71	R	-
72	Y	-
73	B	-
74	BR	- [With ICC]
74	L	- [Without ICC]
75	G	- [With ICC]
75	W	- [Without ICC]
76	W	- [With ICC]
76	Y	- [Without ICC]
77	P	- [Without ICC]
77	R	- [With ICC]
78	BR	- [Without ICC]
78	L	- [With ICC]
79	L	- [Without ICC]
79	Y	- [With ICC]
80	SB	-
81	R	-
82	SB	-
83	BG	-
84	G	-
85	L	-
86	P	-
87	V	-
89	GR	-
90	SHIELD	-
91	W	-
92	Y	-
93	V	-
94	LG	-
95	BG	-
96	P	-
97	R	-
98	SHIELD	-
99	L	-
100	P	-

Connector No.	M2
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS10FW-CS



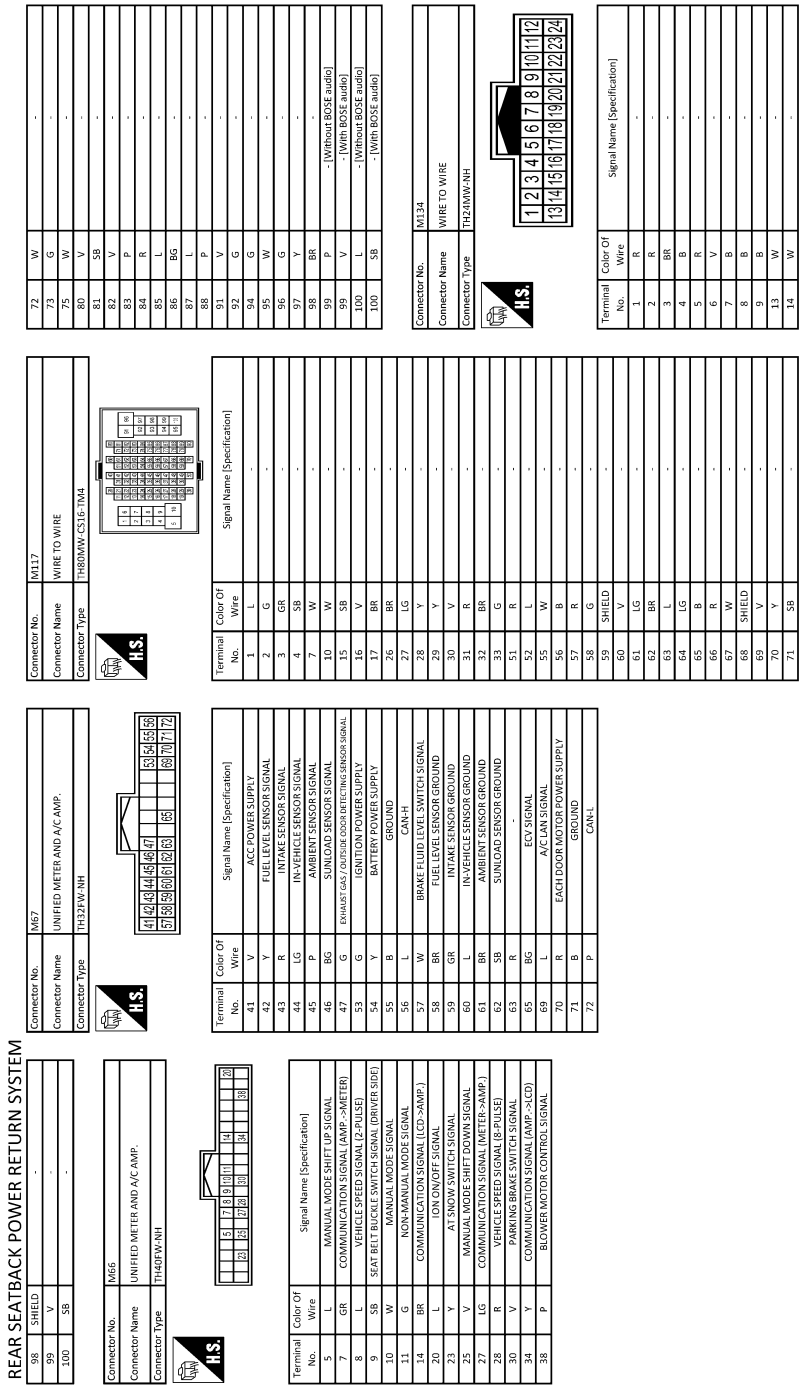
Terminal No.	Color Of Wire	Signal Name [Specification]
3B	P	-
4B	G	-
5B	BG	-
6B	Y	-
7B	P	-
8B	R	-
9B	SB	-

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



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	R	-
3	B	-
4	SHIELD	-
5	G	-
8	Y	-
9	BR	-
10	R	-
11	BR	-
12	BG	-
13	L	-
14	R	-
15	P	-
16	V	-
17	SB	-
18	V	-
20	BG	-
21	L	-
22	W	-
23	P	-
24	BR	-
25	Y	-
26	V	-
27	G	-
28	G	-
31	L	-
32	G	-
33	B	-
34	W	-
35	R	-
36	SHIELD	-
37	V	-
38	BG	-
39	BR	-
41	W	-
42	BG	-
43	BG	-
45	W	-
49	L	-
50	P	-
51	BR	-
54	Y	-
57	G	-
59	W	-
60	L	-
61	G	-
62	SB	-
63	G	-
64	B	-
65	W	-
66	R	-
67	SHIELD	-
68	Y	-
69	GR	-
70	LG	-
71	LG	-
72	Y	-
73	SB	-
74	BR	- [With ICC]
74	L	- [Without ICC]
75	G	-
76	GR	- [Without ICC]
76	W	- [With ICC]
77	P	- [Without ICC]
77	R	- [With ICC]
78	R	- [Without ICC]
79	W	- [Without ICC]
79	Y	- [With ICC]
80	SB	-
81	SB	-
82	SB	-
83	V	-
84	G	-
85	L	-
86	P	-
87	W	-
89	GR	-
90	SHIELD	-
91	W	-
92	Y	-
93	BR	-
94	P	-
95	GR	-
96	W	-
97	L	-

JRJWC9323GB



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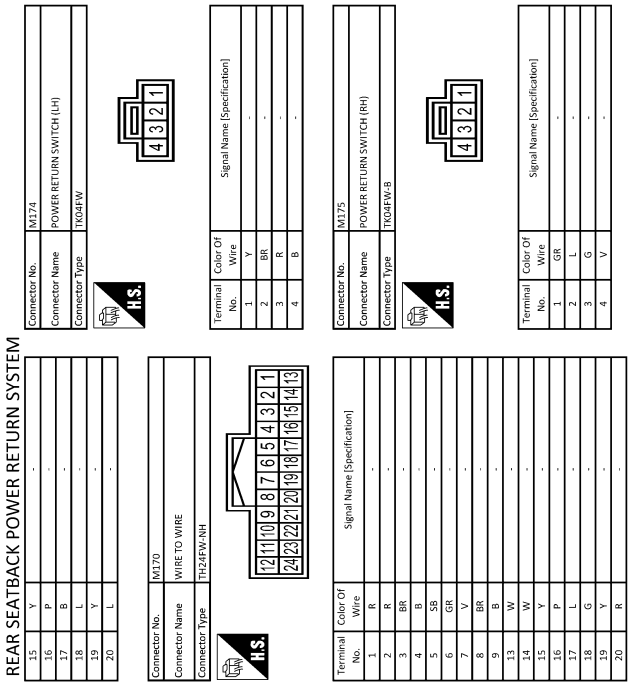


JRJWC9339GB

Fail-safe

INFOID:0000000007457322

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

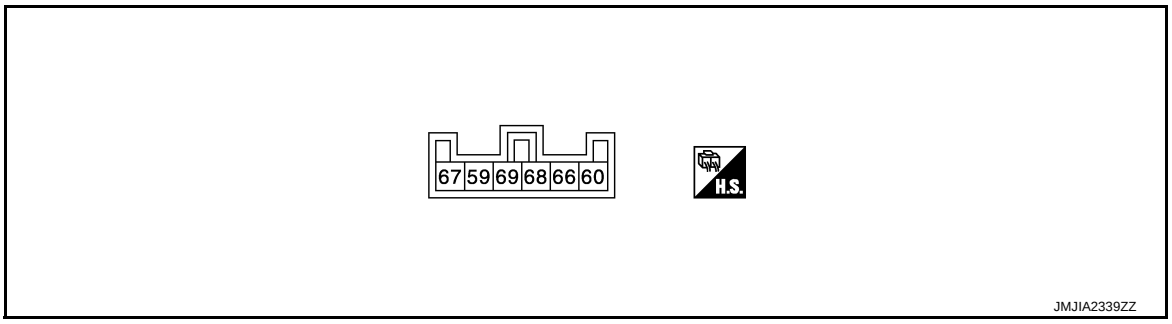
Possible location of malfunction	Diagnosis mode	Corrective action
Return complete limit switch “ON” malfunction	The return completion position cannot be detected	Detect the lock with the rear seatback power return control unit, and then reverse the power return motor
Return complete limit switch “OFF” malfunction	The automatic return cannot be performed because the return completion position is misrecognized	The manual return operation can be performed
Primary position limit switch “ON” malfunction	The initial position of the sector gear cannot be detected	Detect the lock with the rear seatback power return control unit, and then stop the power return motor * If the above condition is repeated for 4 times, stop the subsequent automatic return operation. However, the manual return operation can be performed
Primary position limit switch “OFF” malfunction	The initial position of the sector gear is misrecognized (The sector gear reverse operation cannot be performed)	• Return the sector gear to the initial position if the primary position limit switch is not turned to ON after starting the return (Lock detection) • The manual return operation can be performed
Sensor malfunction (fixed to High or Low)	The motor lock is misrecognized because the pulse does not change	• If the pulse does not change completely after starting the motor operation, return the sector gear to the initial position • The manual return operation can be performed

HEATED SEAT CONTROL UNIT

Reference Value

INFOID:0000000007457323

TERMINAL LAYOUT



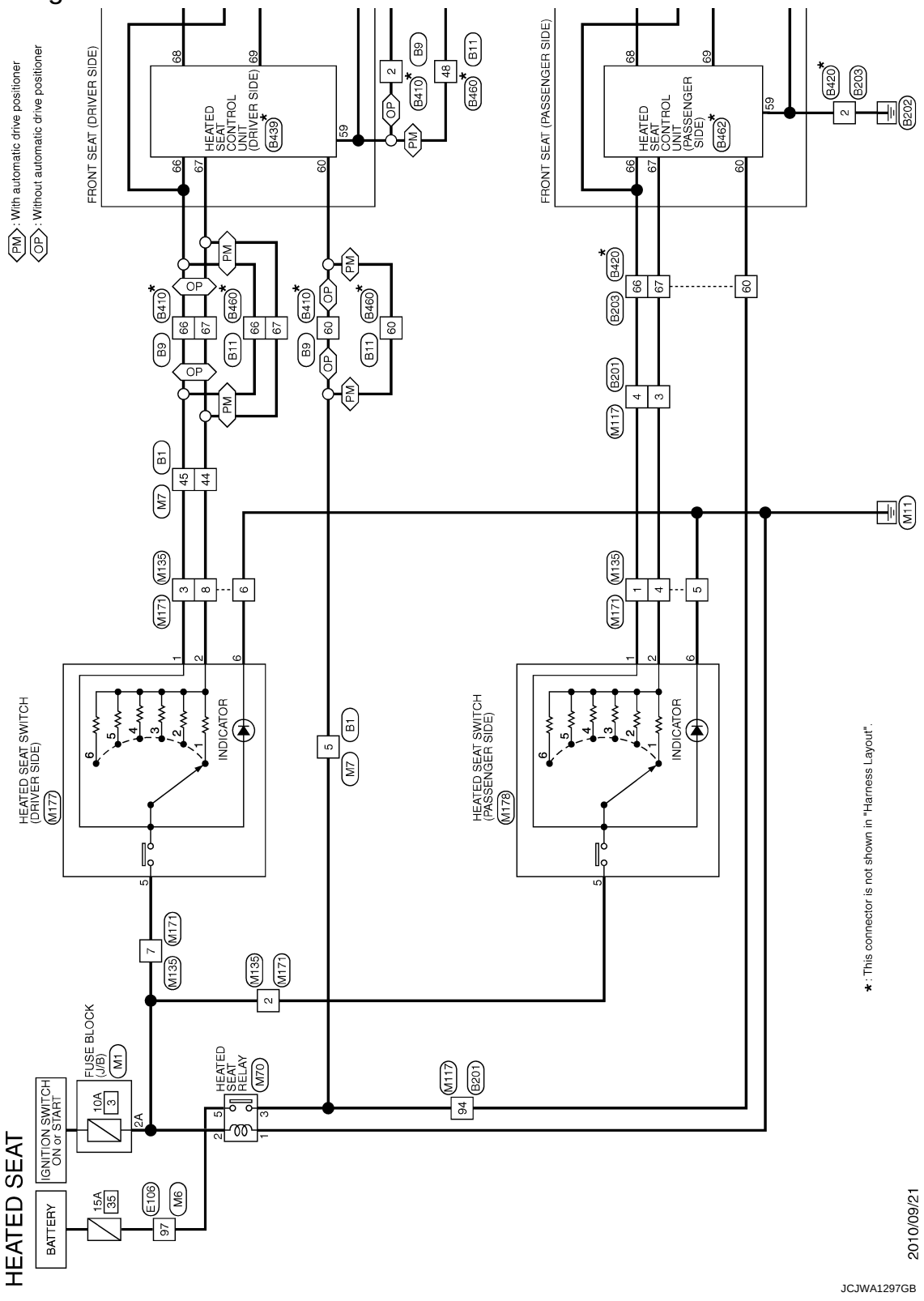
PHYSICAL VALUES

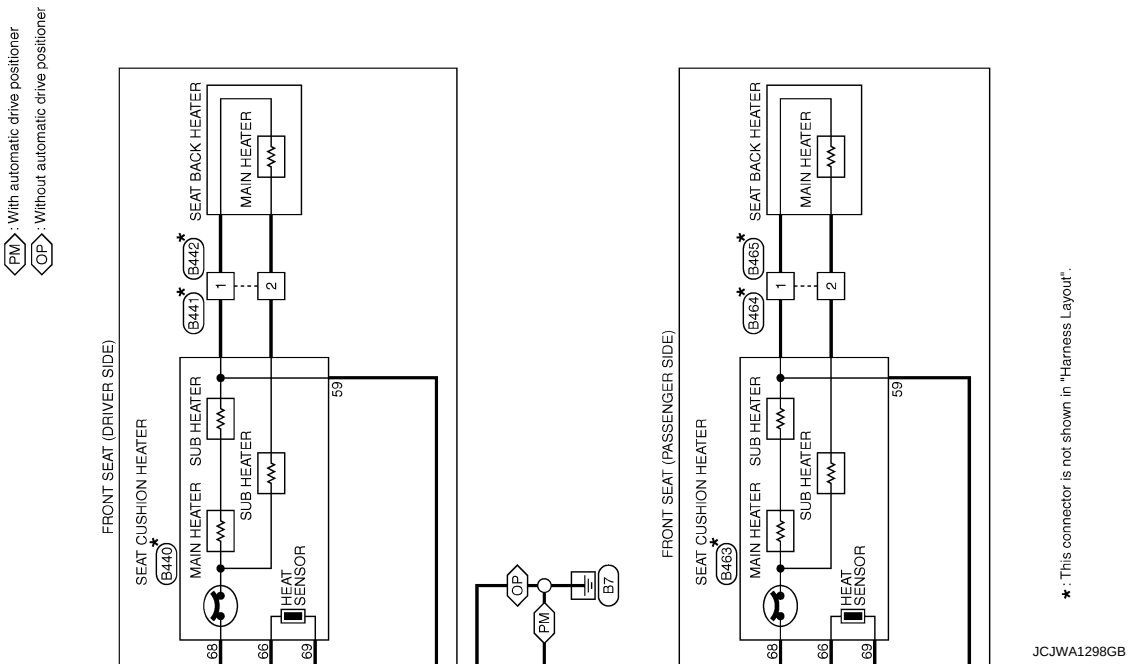
Terminal No. (Wire color)		Description		Condition		Voltage (V) (Approx.)
(+)	(–)	Signal name	Input/ Output			
59 (Y)	Ground	Ground	–	–		0
60 (Y/R)	Ground	IGN power supply	Input	Ignition switch	OFF or ACC	0
					ON	Battery voltage
66 (B)	Ground	Heated seat operation signal	Input	Heated seat	Operate	Battery voltage
					Other than the above	0
67 (L)	Ground	Heated seat switch signal	Input	Heated seat switch	OFF	0
					1 (Min. temperature)	12.24
					2	12.33
					3	12.49
					4	12.63
					5	12.76
					6 (Max. temperature)	12.90
68 (R/W)	Ground	Seat cushion heater power supply	Output	Heated seat	Operate	0 – Battery voltage*
					Other than the above	0
69 (R)	Ground	Heat sensor signal	Input	Heated seat switch	OFF	0
					1 (Min. temperature)	10.87 – 11.02*
					2	10.93 – 11.07*
					3	11.04 – 11.17*
					4	11.13 – 11.26*
					5	11.22 – 11.34*
					6 (Max. temperature)	11.31 – 11.43*

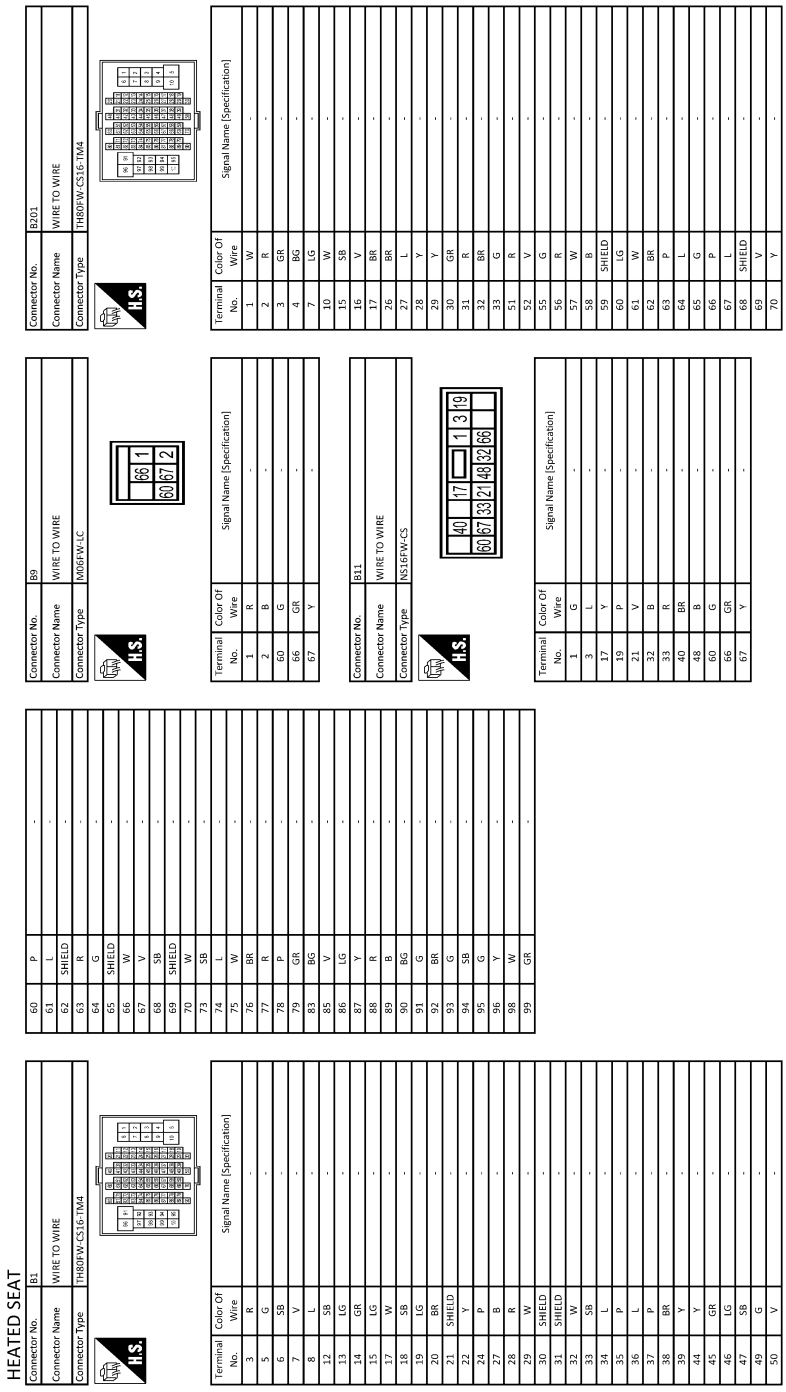
*: Voltage is repeated within the value shown as per the following list depending on heater unit temperature.

Wiring Diagram - HEATED SEAT SYSTEM -

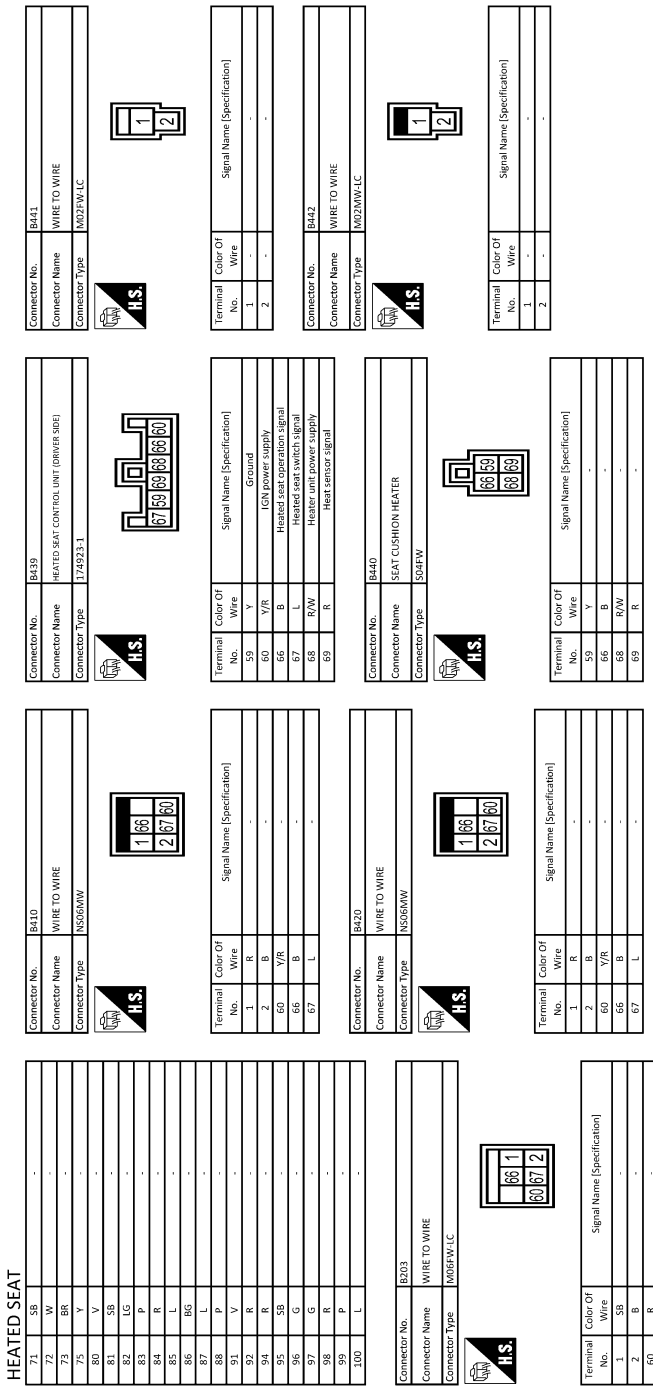
INFOID:0000000007457324



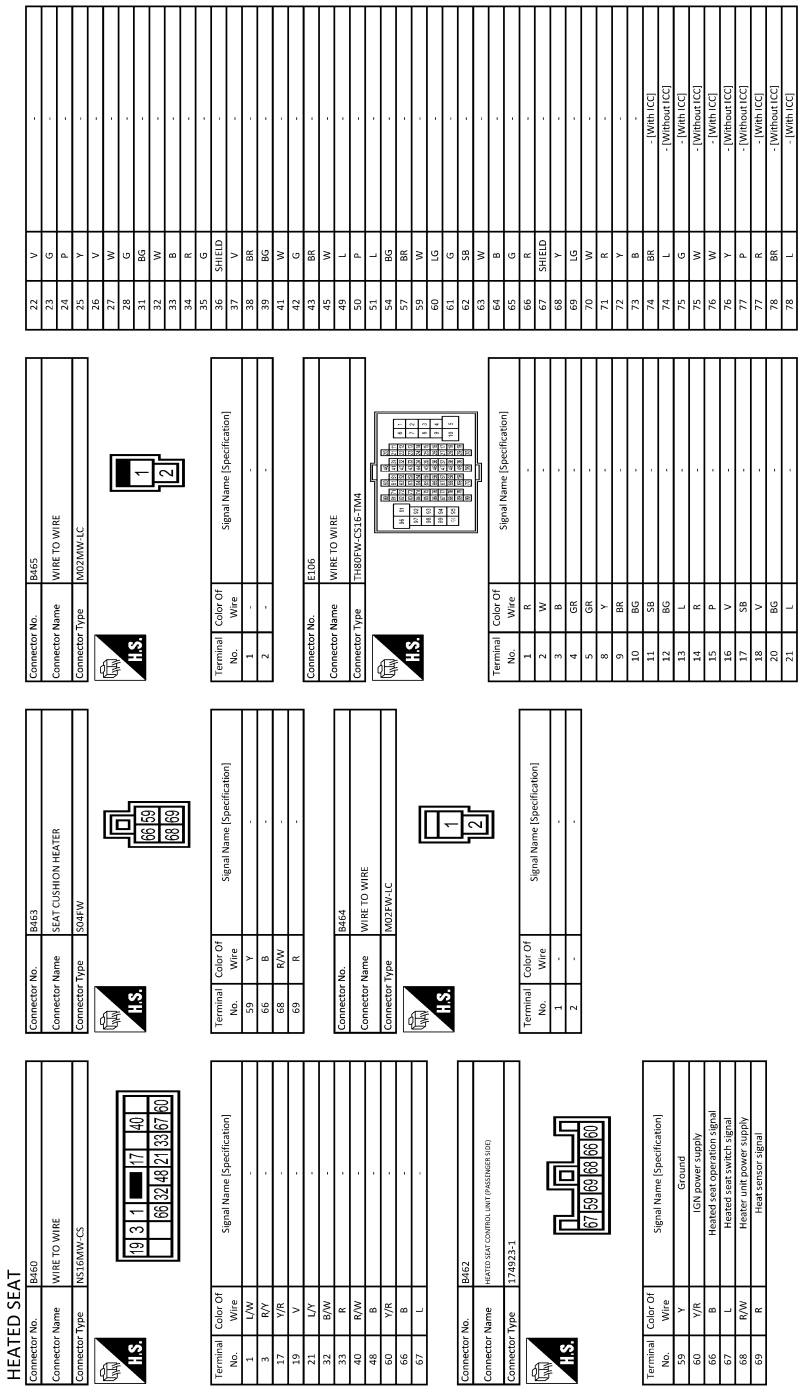

PM : With automatic drive positioner
OP : Without automatic drive positioner
FRONT SEAT (DRIVER SIDE)
SEAT CUSHION HEATER
B440
MAIN HEATER
SUB HEATER
SUB HEATER
HEAT SENSOR
SEAT BACK HEATER
MAIN HEATER
B441
B442
1
2
68
66
69
59
OP
PM
B7
FRONT SEAT (PASSENGER SIDE)
SEAT CUSHION HEATER
B463
MAIN HEATER
SUB HEATER
SUB HEATER
HEAT SENSOR
SEAT BACK HEATER
MAIN HEATER
B464
B465
1
2
68
66
69
59
★: This connector is not shown in "Harness Layout".
JCJWA1298GB



JRJWC9314GB



JRJWC9315GB



JRJWC9316GB

HEATED SEAT

79	L	- [Without ICC]
79	Y	- [With ICC]
80	SB	-
81	R	-
82	SB	-
83	BG	-
84	G	-
85	L	-
86	P	-
87	V	-
89	GR	-
90	SHIELD	-
91	W	-
92	Y	-
93	V	-
94	LG	-
95	BG	-
96	P	-
97	R	-
98	SHIELD	-
99	L	-
100	P	-

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

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1A	GR	-
2A	G	-
3A	L	-
4A	P	-
5A	V	-
6A	Y	-
7A	R	-
8A	L	-

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

H.S.

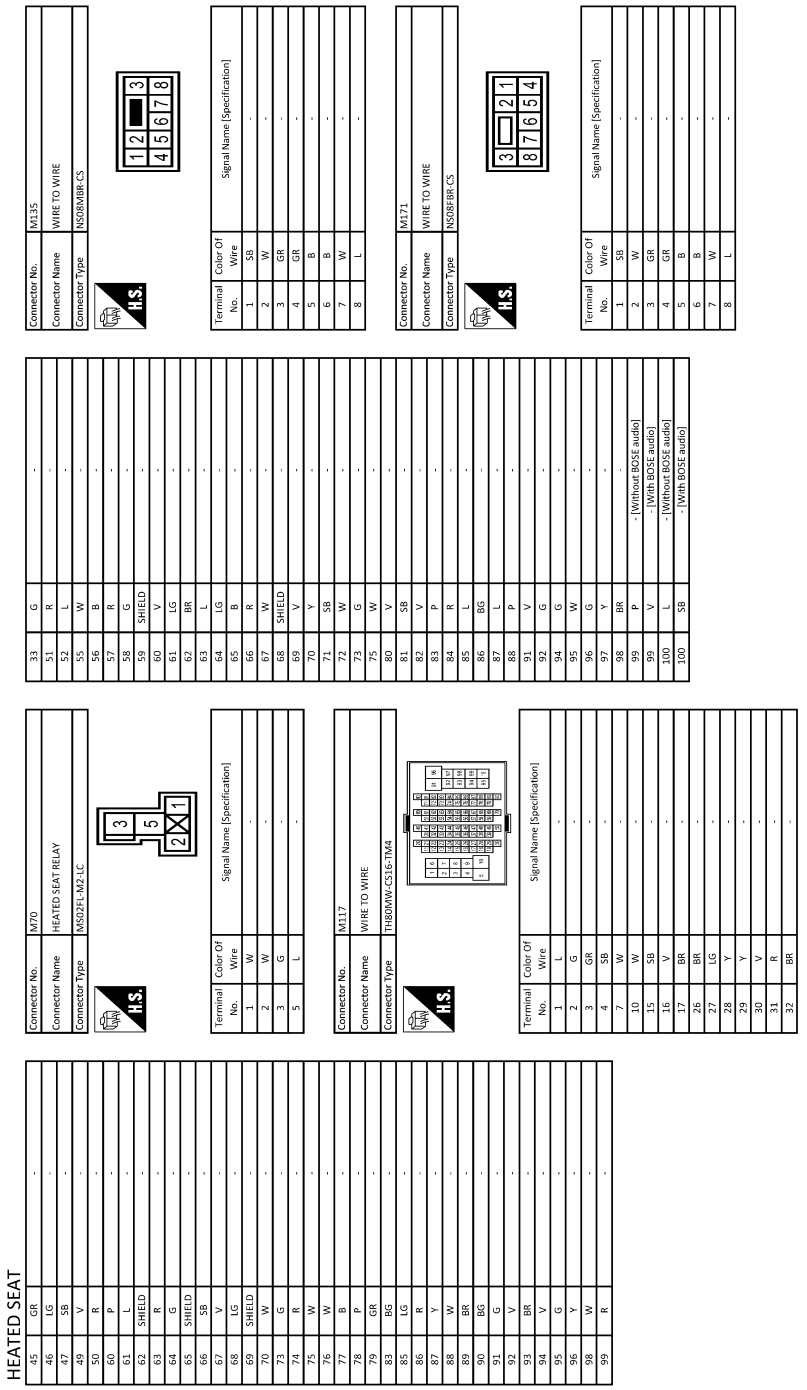
Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	R	-
3	B	-
4	SHIELD	-
5	G	-
8	Y	-
9	BR	-
10	R	-
11	BR	-
12	BG	-
13	L	-
14	R	-
15	P	-
16	V	-
17	SB	-
18	V	-
20	BG	-
21	L	-
22	W	-
23	P	-
24	BR	-
25	Y	-
26	V	-
27	G	-
28	G	-
31	L	-
32	G	-
33	B	-
34	W	-
35	R	-
36	SHIELD	-
37	V	-
38	BG	-
39	BR	-
41	W	-
42	BG	-
43	BG	-
45	W	-
49	L	-
50	P	-
51	BR	-
54	Y	-
57	G	-
59	W	-
60	L	-
61	G	-
62	SB	-
63	G	-
64	B	-
65	W	-
66	R	-
67	SHIELD	-
68	Y	-
69	GR	-
70	LG	-
71	LG	-
72	Y	-
73	SB	-
74	BR	- [With ICC]
74	L	- [Without ICC]
75	G	-
76	GR	- [Without ICC]
76	W	- [With ICC]
77	P	- [Without ICC]
77	R	- [With ICC]
78	L	- [With ICC]
78	R	- [Without ICC]
79	W	- [Without ICC]
79	Y	- [With ICC]
80	SB	-
81	SB	-
82	SB	-
83	V	-
84	G	-
85	L	-
86	P	-
87	W	-
89	GR	-
90	SHIELD	-
91	W	-
92	Y	-
93	BR	-
94	P	-
95	GR	-
96	W	-
97	L	-
98	SHIELD	-
99	V	-
100	SB	-

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

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
3	SB	- [With automatic drive positioner]
3	W	- [Without automatic drive positioner]
5	G	-
6	BG	-
7	W	-
8	B	-
12	SB	-
13	LG	-
14	Y	-
15	G	-
17	W	-
18	SB	-
19	LG	-
20	BR	-
21	SHIELD	-
22	Y	-
24	V	-
27	B	-
28	W	-
29	R	-
30	SHIELD	-
31	L	-
32	P	-
33	SB	-
34	L	-
35	P	-
36	L	-
37	P	-
38	BR	-
39	Y	-
44	L	-

JRJWC9317GB



JRJWC9318GB

HEATED SEAT

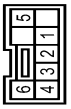
Connector No.	M177
Connector Name	HEATED SEAT SWITCH (DRIVER SIDE)
Connector Type	TK10FW

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	-
2	L	-
3	R	-
4	W	-
5	W	-
6	B	-

Connector No.	M178
Connector Name	HEATED SEAT SWITCH (PASSENGER SIDE)
Connector Type	TK08FBR

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	SB	-
2	GR	-
3	R	-
4	W	-
5	W	-
6	B	-

JRJWC9319GB

SYMPTOM DIAGNOSIS

REAR SEATBACK POWER RETURN SYSTEM DOES NOT OPERATE BOTH SIDES

BOTH SIDES : Diagnosis Procedure

INFOID:0000000007457325

1. CHECK POWER SUPPLY AND GROUND CIRCUIT

Check power supply and ground circuit.
Refer to SE-16, "REAR SEATBACK POWER RETURN CONTROL UNIT : 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 to SE-45, "Component Function Check".

Is the inspection result normal?

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

3. CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

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

LH

LH : Diagnosis Procedure

INFOID:0000000007457326

1. PERFORM POWER RETURN SWITCH AND REAR SEATBACK SWITCH

Perform power return switch and rear seatback switch.

From which power return switch (or rear seatback switch) does the seat return operation occur?

POWER RETURN SWITCH>>GO TO 2.
REAR SEATBACK SWITCH>>GO TO 3.
BOTH SIDES>>GO TO 4.

2. CHECK POWER RETURN SWITCH (LH)

Check power return switch (LH).
Refer to SE-21, "LH : Component Function Check".

Is the inspection result normal?

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

3. CHECK REAR SEATBACK SWITCH (LH)

Check rear seatback switch (LH).
Refer to SE-25, "LH : Component Function Check".

Is the inspection result normal?

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

4. CHECK POWER RETURN MOTOR (LH)

Check power return motor (LH).
Refer to SE-42, "LH : Component Function Check".

Is the inspection result normal?

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

5.CHECK RETURN COMPLETE LIMIT SWITCH (LH)

Check return complete limit switch (LH).
Refer to SE-33, "LH : Component Function Check".

Is the inspection result normal?

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

6.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.

RH

RH : Diagnosis Procedure

INFOID:0000000007457327

1.PERFORM POWER RETURN SWITCH AND REAR SEATBACK SWITCH

Perform power return switch and rear seatback switch.

From which power return switch (or rear seatback switch) does the seat return operation occur?

POWER RETURN SWITCH>>GO TO 2.
REAR SEATBACK SWITCH>>GO TO 3.
BOTH SIDES>>GO TO 4.

2.CHECK POWER RETURN SWITCH (RH)

Check power return switch (RH).
Refer to SE-22, "RH : Component Function Check".

Is the inspection result normal?

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

3.CHECK REAR SEATBACK SWITCH (RH)

Check rear seatback switch (RH).
Refer to SE-26, "RH : Component Function Check".

Is the inspection result normal?

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

4.CHECK POWER RETURN MOTOR (RH)

Check power return motor (RH).
Refer to SE-43, "RH : Component Function Check".

Is the inspection result normal?

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

5.CHECK RETURN COMPLETE LIMIT SWITCH (RH)

Check return complete limit switch (RH).
Refer to SE-34, "RH : Component Function Check".

Is the inspection result normal?

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

6.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.

MALFUNCTION DETECTION BUZZER SOUNDS DURING POWER RETURN MOTOR INVERSE ROTATION

LH

LH : Diagnosis Procedure

INFOID:0000000007457328

1.CHECK RETURN COMPLETE LIMIT SWITCH (LH)

Check return complete limit switch (LH).
Refer to SE-33, "LH : Component Function Check".

Is the inspection result normal?

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

2.CHECK PRIMARY POSITION LIMIT SWITCH (LH)

Check primary position limit switch (LH).
Refer to SE-29, "LH : Component Function Check".

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-42, "LH : Component Function Check".

Is the inspection result normal?

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

4.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

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

RH

RH : Diagnosis Procedure

INFOID:0000000007457329

1.CHECK RETURN COMPLETE LIMIT SWITCH (RH)

Check return complete limit switch (RH).
Refer to SE-34, "RH : Component Function Check".

Is the inspection result normal?

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

2.CHECK PRIMARY POSITION LIMIT SWITCH (RH)

Check primary position limit switch (RH).
Refer to SE-30, "RH : Component Function Check".

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-43, "RH : Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4. CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

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

DOES NOT RETURN BUT MALFUNCTION DETECTION BUZZER SOUNDS

LH

LH : Diagnosis Procedure

INFOID:0000000007457330

1.CHECK PRIMARY POSITION LIMIT SWITCH (LH)

Check primary position limit switch (LH).
Refer to SE-29, "LH : Component Function Check".

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-37, "LH : Component Function Check".

Is the inspection result normal?

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

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

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

RH

RH : Diagnosis Procedure

INFOID:0000000007457331

1.CHECK PRIMARY POSITION LIMIT SWITCH (RH)

Check primary position limit switch (RH).
Refer to SE-29, "LH : Component Function Check".

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-39, "RH : Component Function Check".

Is the inspection result normal?

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

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

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

ANTI-PINCH FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000007457332

1.CHECK MOTOR SENSOR (LH)

Check motor sensor (LH).
Refer to SE-37, "LH : Component Function Check".

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-39, "RH : Component Function Check".

Is the inspection result normal?

YES >> Replace rear seatback power return control unit. Refer to SE-148, "Removal and Installation".
NO >> Repair or replace the malfunctioning parts.

HEATED SEAT DOES NOT OPERATE

BOTH SIDES

BOTH SIDES : Diagnosis Procedure

INFOID:0000000007457333

1.CHECK HEATED SEAT SWITCH POWER SUPPLY

Check heated seat switch power supply.
Refer to SE-18, "HEATED SEAT SWITCH : Diagnosis Procedure".

Is the inspection result normal?

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

2.CHECK HEATED SEAT RELAY

Check heated seat relay.
Refer to SE-51, "Component Function Check".

Is the inspection result normal?

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

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

Check heated seat switch power supply and ground circuit.
Refer to SE-16, "HEATED SEAT CONTROL UNIT : Diagnosis Procedure".

Is the inspection result normal?

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

4.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

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

DRIVER SIDE

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000007457334

1.CHECK HEATED SEAT SWITCH POWER SUPPLY

Check heated seat switch power supply.
Refer to SE-18, "HEATED SEAT SWITCH : Diagnosis Procedure".

Is the inspection result normal?

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

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

Check heated seat switch power supply and ground circuit.
Refer to SE-16, "HEATED SEAT CONTROL UNIT : Diagnosis Procedure".

Is the inspection result normal?

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

3.CHECK HEATED SEAT SWITCH

Check heated seat switch.
Refer to SE-47, "DRIVER SIDE : Component Function Check".

Is the inspection result normal?

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

4.CHECK SEAT CUSHION HEATER

Check seat cushion heater.
Refer to SE-58, "DRIVER SIDE : Component Function Check".

Is the inspection result normal?

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

5.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

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

PASSENGER SIDE

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000007457335

1.CHECK HEATED SEAT SWITCH POWER SUPPLY

Check heated seat switch power supply.
Refer to SE-18, "HEATED SEAT SWITCH : Diagnosis Procedure".

Is the inspection result normal?

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

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

Check heated seat switch power supply and ground circuit.
Refer to SE-16, "HEATED SEAT CONTROL UNIT : Diagnosis Procedure".

Is the inspection result normal?

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

3.CHECK HEATED SEAT SWITCH

Check heated seat switch.
Refer to SE-48, "PASSENGER SIDE : Component Function Check".

Is the inspection result normal?

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

4.CHECK SEAT CUSHION HEATER

Check seat cushion heater.
Refer to SE-59, "PASSENGER SIDE : Component Function Check".

Is the inspection result normal?

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

5.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

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

SEATBACK HEATER ONLY DOES NOT OPERATE

DRIVER SIDE

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000007457336

1.CHECK SEATBACK HEATER

Check seatback heater.
Refer to SE-62, "DRIVER SIDE : Component Function Check".

Is the inspection result normal?

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

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

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

PASSENGER SIDE

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000007457337

1.CHECK SEATBACK HEATER

Check seatback heater.
Refer to SE-62, "PASSENGER SIDE : Component Function Check".

Is the inspection result normal?

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

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

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

CANNOT ADJUST HEATED SEAT TEMPERATURE

DRIVER SIDE

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000007457338

1. CHECK HEATED SEAT SWITCH

Check heated seat switch.
Refer to SE-47, "DRIVER SIDE : Component Function Check".

Is the inspection result normal?

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

2. CHECK HEAT SENSOR

Check heat sensor.
Refer to SE-53, "DRIVER SIDE : Description".

Is the inspection result normal?

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

3. CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".
NO >> Replace heated seat control unit. Refer to SE-149, "Removal and Installation".

PASSENGER SIDE

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000007457339

1. CHECK HEATED SEAT SWITCH

Check heated seat switch.
Refer to SE-48, "PASSENGER SIDE : Component Function Check".

Is the inspection result normal?

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

2. CHECK HEAT SENSOR

Check heat sensor.
Refer to SE-55, "PASSENGER SIDE : Diagnosis Procedure".

Is the inspection result normal?

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

3. CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".
NO >> Replace heated seat control unit. Refer to SE-149, "Removal and Installation".

HEATED SEAT SWITCH INDICATOR DOES NOT TURN ON DRIVER SIDE

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000007457340

1.CHECK HEATED SEAT SWITCH INDICATOR

Check heated seat switch indicator.
Refer to SE-64, "DRIVER SIDE : Component Function Check".

Is the inspection result normal?

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

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

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

PASSENGER SIDE

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000007457341

1.CHECK HEATED SEAT SWITCH INDICATOR

Check heated seat switch indicator.
Refer to SE-65, "PASSENGER SIDE : Component Function Check".

Is the inspection result normal?

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

2.CONFIRM THE OPERATION

Confirm the operation again.

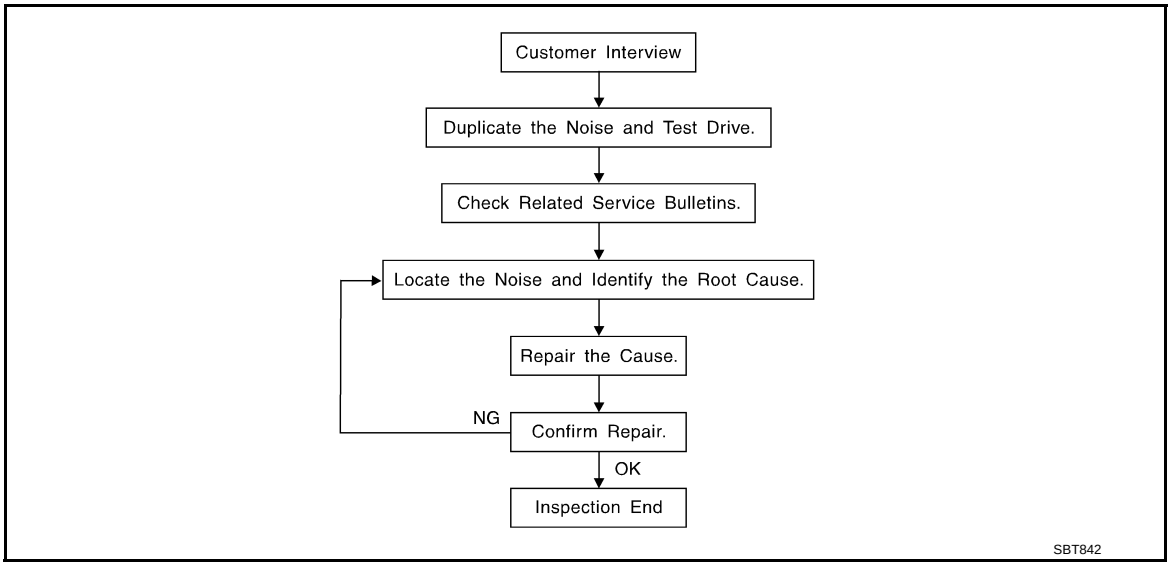
Is the inspection result normal?

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

SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow

INFOID:0000000007457342



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-123, "Diagnostic Worksheet". This information is necessary to duplicate the conditions that exist when the noise occurs.

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

DUPLICATE THE NOISE AND TEST DRIVE

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

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

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

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

CHECK RELATED SERVICE BULLETINS

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

LOCATE THE NOISE AND IDENTIFY THE ROOT CAUSE

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

- Removing the components in the area that you suspect the noise is coming from.
  Do not use too much force when removing clips and fasteners, otherwise clips and fastener can be broken or lost during the repair, resulting in the creation of new noise.
- Tapping or pushing/pulling the component that you suspect is causing the noise.
  Do not tap or push/pull the component with excessive force, otherwise the noise will be eliminated only temporarily.
- Feeling for a vibration with your hand by touching the component(s) that you suspect is (are) causing the noise.
- Placing a piece of paper between components that you suspect are causing the noise.
- Looking for loose components and contact marks.
  Refer to SE-121, "Inspection Procedure".

REPAIR THE CAUSE

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

- Separate components by repositioning or loosening and retightening the component, if possible.
- Insulate components with a suitable insulator such as urethane pads, foam blocks, felt cloth tape or urethane tape. A Nissan Squeak and Rattle Kit (J-43980) is available through your authorized Nissan Parts Department.

CAUTION:
Do not use excessive force as many components are constructed of plastic and may be damaged.
NOTE:
Always check with the Parts Department for the latest parts information.
The following materials are contained in the Nissan Squeak and Rattle Kit (J-43980). Each item can be ordered separately as needed.
URETHANE PADS [1.5 mm (0.059 in) thick]
Insulates connectors, harness, etc.
76268-9E005: 100 × 135 mm (3.94 × 5.31 in)/76884-71L01: 60 × 85 mm (2.36 × 3.35 in)/76884-71L02:15 × 25 mm (0.59 × 0.98 in)
INSULATOR (Foam blocks)
Insulates components from contact. Can be used to fill space behind a panel.
73982-9E000: 45 mm (1.77 in) thick, 50 × 50 mm (1.97 × 1.97 in)/73982-50Y00: 10 mm (0.39 in) thick, 50 × 50 mm (1.97 × 1.97 in)
INSULATOR (Light foam block)
80845-71L00: 30 mm (1.18 in) thick, 30 × 50 mm (1.18 × 1.97in)
FELT CLOTHTAPE
Used to insulate where movement does not occur. Ideal for instrument panel applications.
68370-4B000: 15 × 25 mm (0.59 × 0.98 in) pad/68239-13E00: 5 mm (0.20 in) wide tape roll
The following materials, not found in the kit, can also be used to repair squeaks and rattles.
UHMW (TEFLON) TAPE

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

CONFIRM THE REPAIR

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

Inspection Procedure

INFOID:0000000007457343

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:
   Do not use silicone spray to isolate a squeak or rattle. If you saturate the area with silicone, you will not be able to recheck the repair.

CENTER CONSOLE

Components to pay attention to include:

1. 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:

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

Tapping or moving the components or pressing on them while driving to duplicate the conditions can isolate many of these incidents. You can usually insulate the areas with felt cloth tape or insulator foam blocks from the Nissan Squeak and Rattle Kit (J-43980) to repair the noise.

TRUNK

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

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

Most of these incidents can be repaired by adjusting, securing or 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 seat is in and the load placed on the seat when the noise is present. These conditions should be duplicated when verifying and isolating the cause of the noise.

Cause of seat noise include:

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

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

UNDERHOOD

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

Causes of transmitted under hood 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

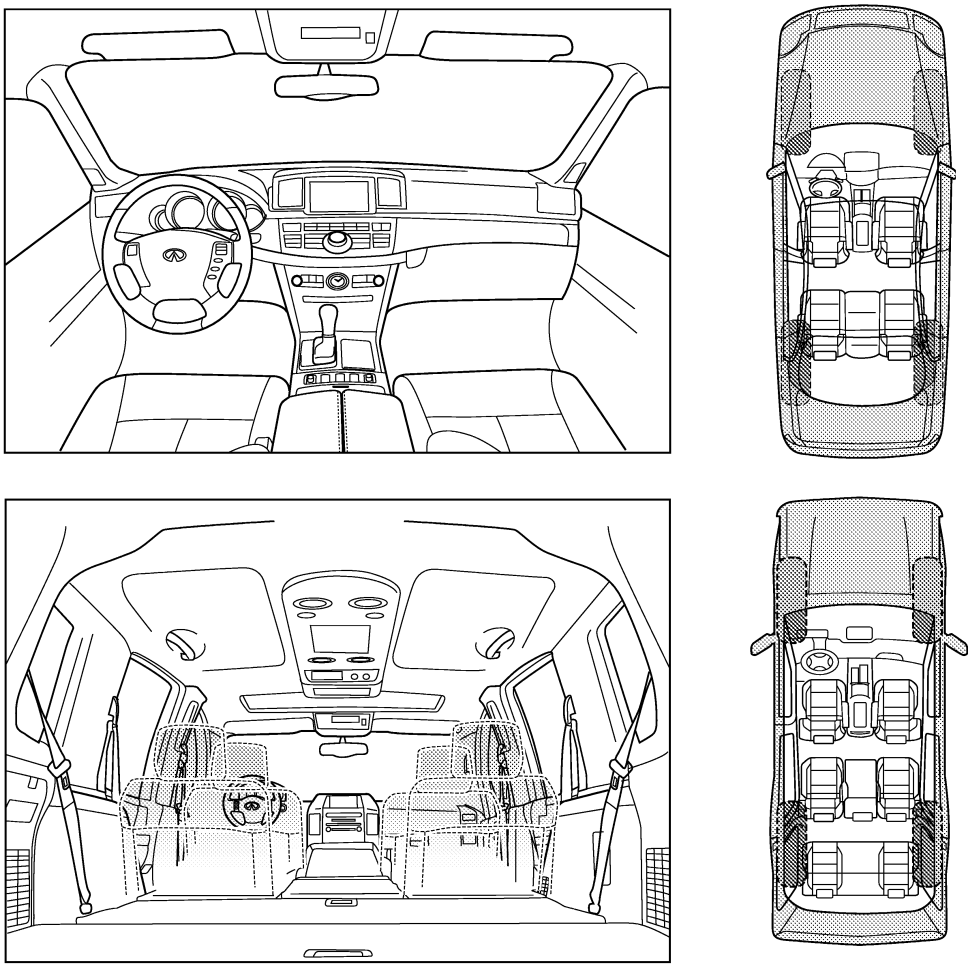
INFOID:0000000007457344

INFINITI

SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

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

I. WHERE DOES THE NOISE COME FROM? (circle the area of the vehicle)
The illustrations are for reference only, and may not reflect the actual configuration of your vehicle.



Continue to page 2 of the worksheet and briefly describe the location of the noise or rattle. In addition, please indicate the conditions which are present when the noise occurs.

PIIB8741E

SQUEAK & RATTLE DIAGNOSTIC WORKSHEET - page 2

Briefly describe the location where the noise occurs:

_____

_____

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

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

III. WHEN DRIVING:

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

IV. WHAT TYPE OF NOISE

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

TO BE COMPLETED BY DEALERSHIP PERSONNEL

Test Drive Notes:

_____

_____

_____

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

VIN: _____ Customer Name: _____

W.O.# _____ Date: _____

This form must be attached to Work Order

PIIB8742E

PRECAUTION

PRECAUTIONS

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

INFOID:0000000007457345

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 Necessary for Steering Wheel Rotation After Battery Disconnection

INFOID:0000000007457346

CAUTION:

Comply with the following cautions to prevent any error and malfunction.

- **Before removing and installing any control units, first turn the ignition switch to the LOCK position, then disconnect both battery cables.**
- **After finishing work, confirm that all control unit connectors are connected properly, then re-connect both battery cables.**
- **Always use CONSULT to perform self-diagnosis as a part of each function inspection after finishing work. If a DTC is detected, perform trouble diagnosis according to self-diagnosis results.**

For vehicle with steering lock unit, if the battery is disconnected or discharged, the steering wheel will lock and cannot be turned.
If turning the steering wheel is required with the battery disconnected or discharged, follow the operation procedure below before starting the repair operation.

OPERATION PROCEDURE

1. Connect both battery cables.
   NOTE:
   Supply power using jumper cables if battery is discharged.
2. Turn the ignition switch to ACC position.
   (At this time, the steering lock will be released.)
3. Disconnect both battery cables. The steering lock will remain released with both battery cables disconnected and the steering wheel can be turned.

4. Perform the necessary repair operation.
5. When the repair work is completed, re-connect both battery cables. With the brake pedal released, turn the ignition switch from ACC position to ON position, then to LOCK position. (The steering wheel will lock when the ignition switch is turned to LOCK position.)
6. Perform self-diagnosis check of all control units using CONSULT.

Service Notice

INFOID:0000000007457347

- When removing or installing various parts, place a cloth or padding onto the vehicle body to prevent scratches.
- Handle trim, molding, instruments, grille, etc. carefully during removing or installing. Be careful not to oil or damage them.
- Apply sealing compound where necessary when installing parts.
- When applying sealing compound, be careful that the sealing compound does not protrude from parts.
- When replacing any metal parts (for example body outer panel, members, etc.), be sure to take rust prevention measures.

Precaution for Work

INFOID:0000000007457348

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

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

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

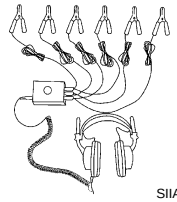
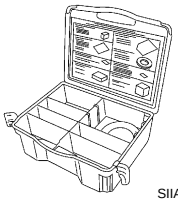
PREPARATION

PREPARATION

Special Service Tool

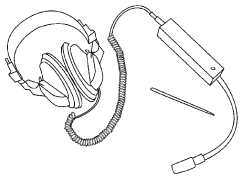
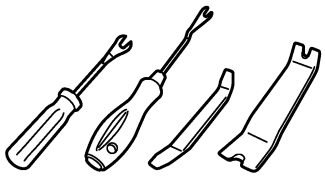
INFOID:0000000007457349

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

Tool number (Kent-Moore No.) Tool name	Description
(J39570) Chassis ear  SIIA0993E	Locates the noise
(J43980) NISSAN Squeak and Rattle Kit  SIIA0994E	Repairs the cause of noise

Commercial Service Tool

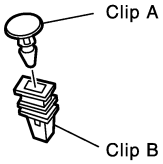
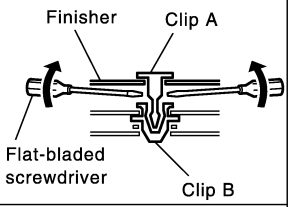
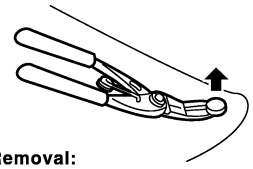
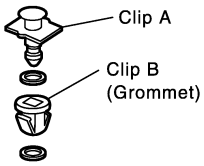
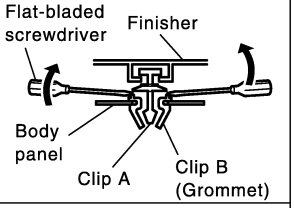
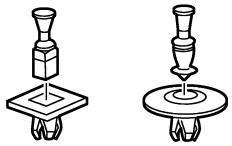
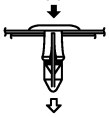
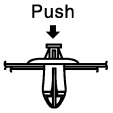
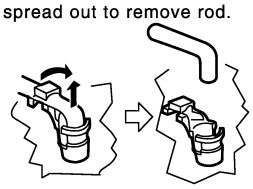
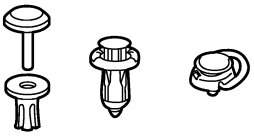
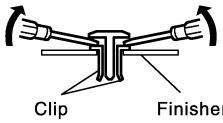
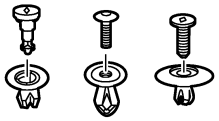
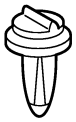
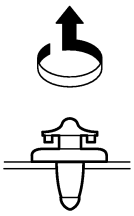
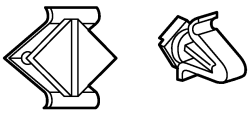
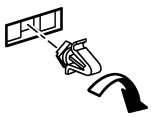
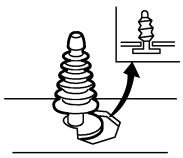
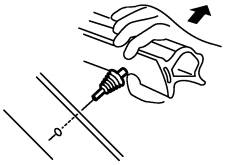
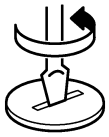
INFOID:0000000007457350

Tool name	Description
Engine ear  SIIA0995E	Locates the noise
Remover tool  JMKIA3050ZZ	Removes the clips, pawls and metal clips

CLIP LIST

Clip List

INFOID:0000000007457351

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

JMJIA3734GB

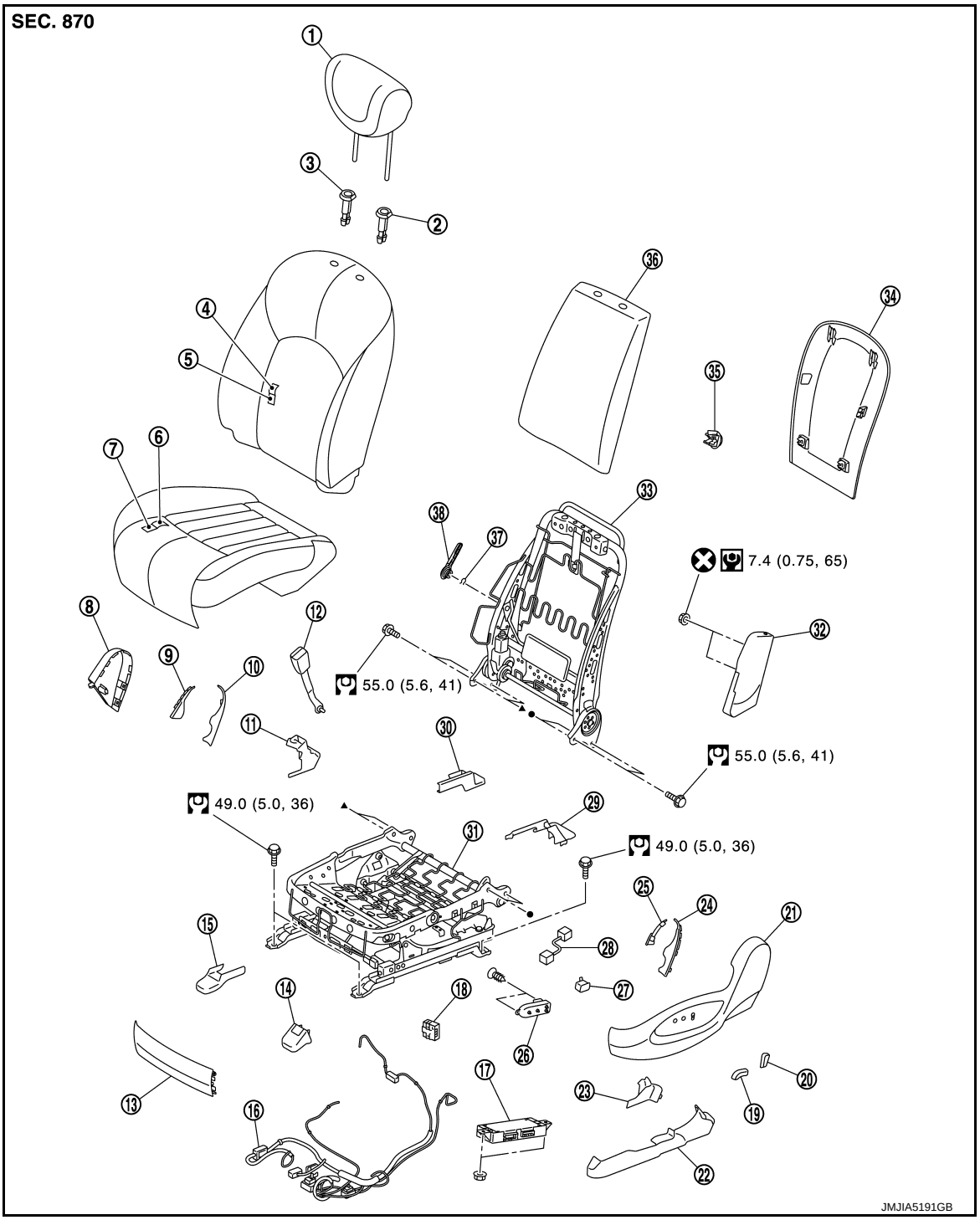
REMOVAL AND INSTALLATION

FRONT SEAT

Exploded View

INFOID:0000000007768652

DRIVER SEAT

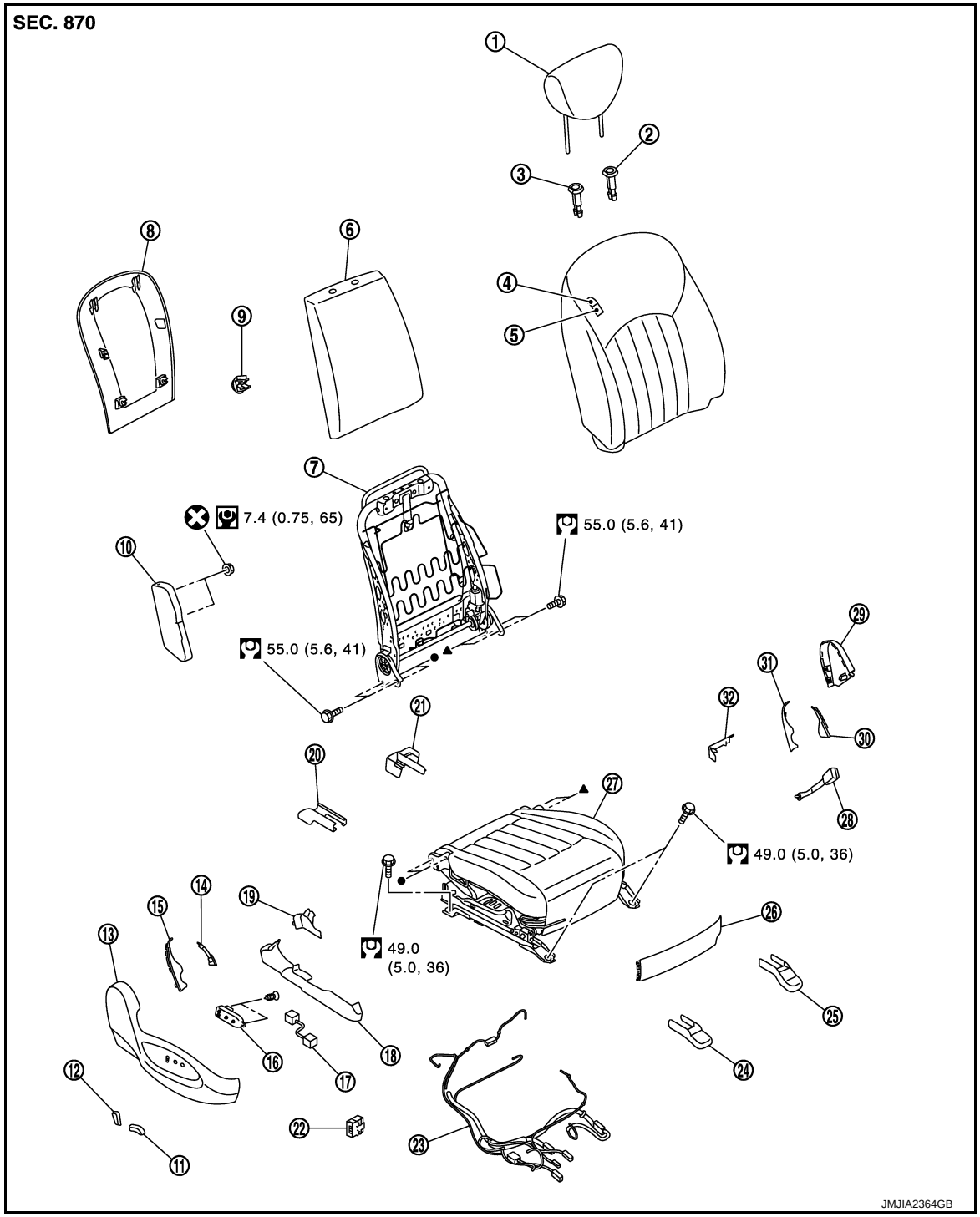


1. Headrest
2. Headrest holder (locked)
3. Headrest holder (free)
4. Seatback trim
5. Seatback pad
6. Seat cushion trim
7. Seat cushion pad
8. Seat cushion inner finisher outside
9. Seat cushion inner finisher inside (front)

10. Seat cushion inner finisher inside (rear)
11. Seat cushion inner lower finisher
12. Seat belt buckle
13. Seat cushion front finisher
14. Front outer slide cover
15. Front inner slide cover
16. Seat harness
17. Driver seat control unit
18. Heated seat control unit
19. Seat slide & lifter switch knob
20. Seat reclining switch knob
21. Seat cushion outer finisher outside
22. Seat cushion outer lower finisher (outside)
23. Seat cushion outer lower finisher (inside)
24. Seat cushion outer finisher inside (rear)
25. Seat cushion outer finisher inside (front)
26. Seat control switch
27. Lumbar support switch
28. Seat control harness
29. Rear outer slide cover
30. Rear inner slide cover
31. Seat cushion frame
32. Side air bag module
33. Seatback frame
34. Seatback board
35. Seatback board clip
36. Seatback silencer
37. Snap ring
38. Manual lumber support lever knob

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

PASSENGER SEAT



1. Headrest
2. Headrest holder (locked)
3. Headrest holder (free)
4. Seatback trim
5. Seatback pad
6. Seatback silencer
7. Seatback frame
8. Seatback board
9. Seatback board clip
10. Side air bag module
11. Seat slide & lifter switch knob
12. Seat reclining switch knob
13. Seat cushion outer finisher outside
14. Seat cushion outer finisher inside (front)
15. Seat cushion outer finisher inside (rear)
16. Seat control switch
17. Seat control harness
18. Seat cushion outer lower finisher (outside)
19. Seat cushion outer lower finisher (inside)
20. Rear outer slide cover
21. Rear inner slide cover
22. Heated seat control unit
23. Seat harness
24. Front outer slide cover

25. Front inner slide cover
26. Seat cushion front finisher
27. Seat cushion assembly
28. Seat belt buckle
29. Seat cushion inner finisher outside
30. Seat cushion inner finisher inside (front)
31. Seat cushion inner finisher inside (rear)
32. Seat cushion inner finisher lower

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

Removal and Installation

INFOID:0000000007768653

REMOVAL

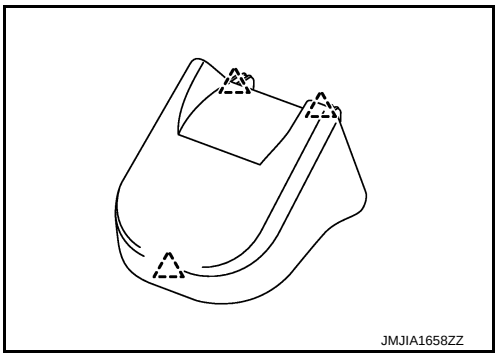
CAUTION:

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

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

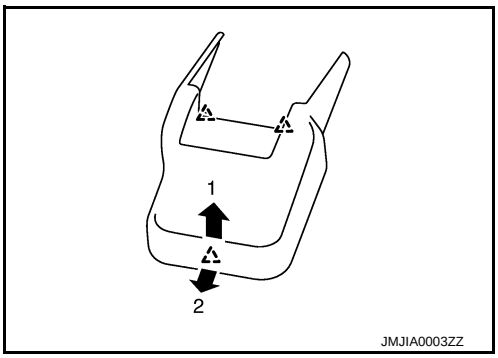
a. Front outer slide cover
- Slide the seat to the rear-most position.
- Pull up the front edge of the front slide cover to release the pawls.
- Slide the front slide cover forward to release the pawls.

: Pawl



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

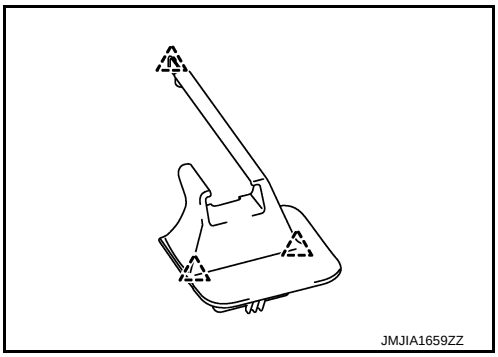
: Pawl



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

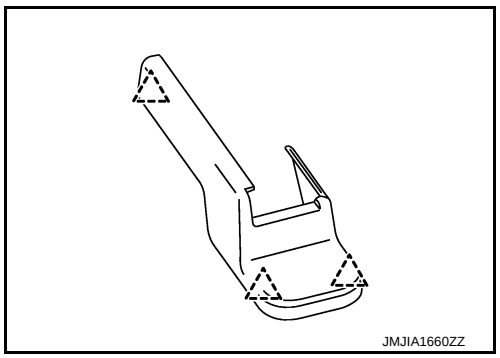
a. Rear outer slide cover
- Slide the seat to the front-most position.
- Pull up the rear edge of the rear outer slide cover to release the pawls.
- Open the front end of the rear outer slide cover to release the pawls.

: Pawl



b. Rear inner slide cover
   - Slide the seat to the front-most position.
   - Pull up the rear edge of the rear inner slide cover to release the pawls.
   - Slide the rear inner slide cover rearward to release the pawls.

   : Pawl


JMJIA1660ZZ

5. Remove the mounting bolts on the rear side of the front seat.
6. Set seatback in a standing position.
7. Disconnect harness connector under the seat and remove harness securing clips.
   CAUTION:
   Before removal, turn ignition switch OFF, disconnect battery negative terminal, and then wait for at least 3 minutes.
8. Remove seat from the vehicle.
   CAUTION:
   - **When removing and installing, use shop cloths to protect parts from damage.**
   - **When removing and installing, 2 workers are required so as to prevent it from dropping.**

INSTALLATION

Install in the reverse order of removal.

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

NOTE:
After installing the front seat, perform additional service when removing battery negative terminal.(Automatic drive positioner model only) Refer to ADP-8, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Description".

Disassembly and Assembly

INFOID:0000000007768654

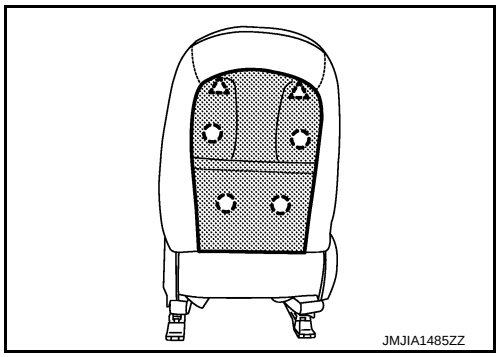
SEATBACK

Disassembly

1. Remove the seatback board.
   - Remove the clips and pawls, and then pull out seatback board.
   - Pull down the seatback board to release the upper pawls.

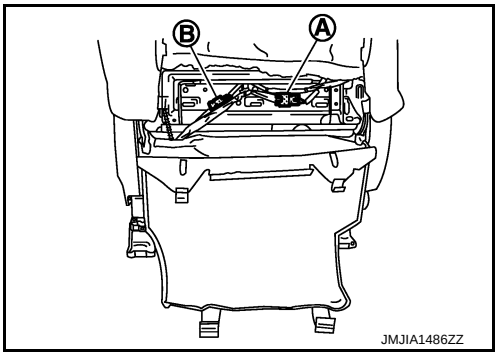
   : Clip

   : Pawl

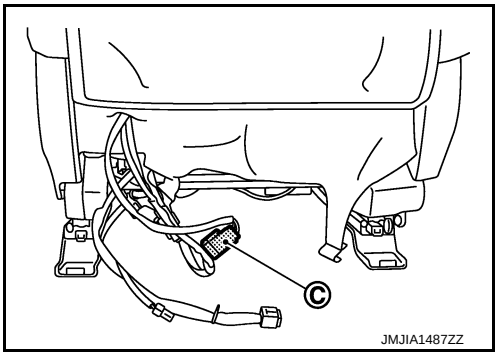

JMJIA1485ZZ

2. Remove the seatback trim retainer and seatback trim band from seat cushion frame.
3. Disconnect the harness connectors and remove the harness clamps.

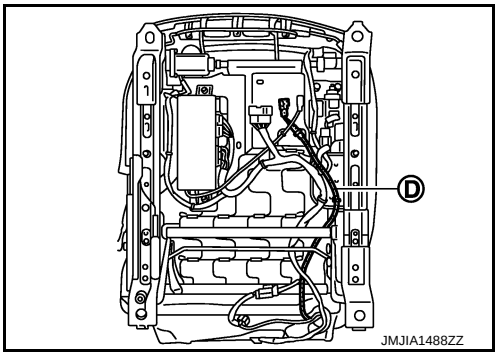
- Disconnect the reclining motor harness connector (A) and lumbar support harness connector (Power lumber support seat only) (B).



- Disconnect the seatback heater seat harness connector (C). (With heater seat only)



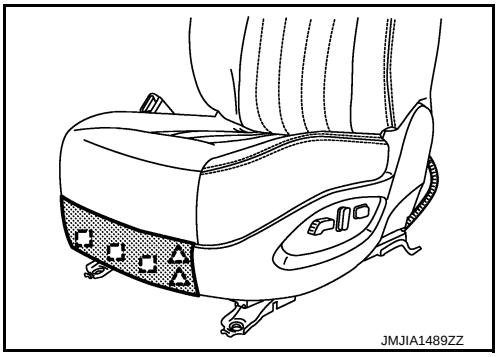
- Remove the harness clamps, and then side air bag module harness (D).



4. Remove the metal clips and pawls, and then pull out seat cushion front finisher.

: Metal clip

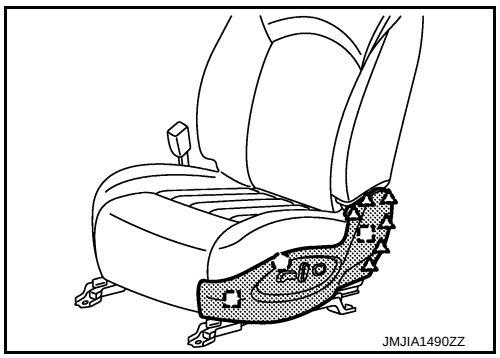
: Pawl



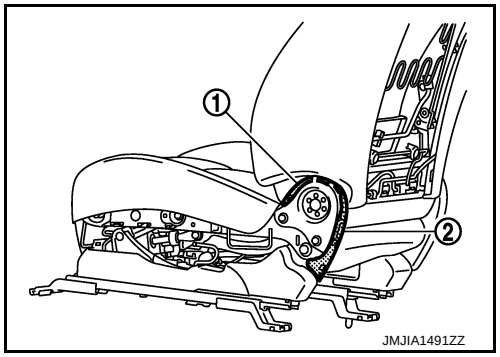
5. Remove the seat cushion outer finisher.

- Remove the seat slide & lifter switch knob and seat reclining switch knob.
- Remove the clips, metal clips and pawls, and then pull out seat cushion outer finisher outside.
- Disconnect the seat slide & lifter, seat reclining and lumbar support switch (Power lumber support seat only) harness connectors.

: Clip
: Metal clip
: Pawl

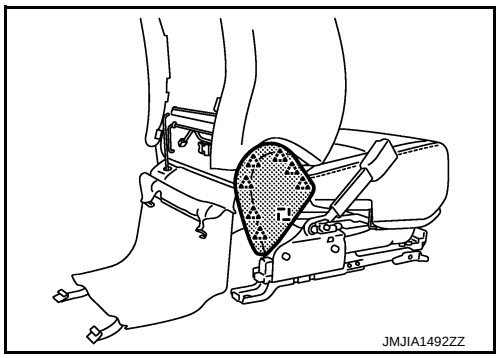


6. Remove the seat cushion outer finisher inside front (1) and rear (2).

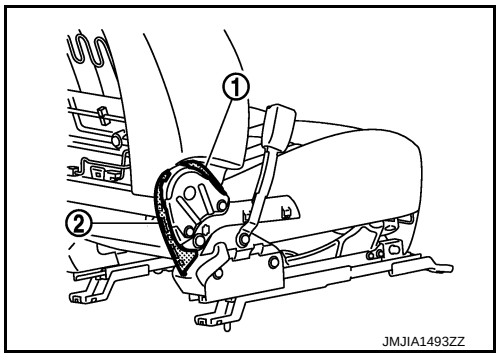


7. Remove the metal clip and pawls, and then pull out seat cushion inner finisher outside.

: Metal clip
: Pawl

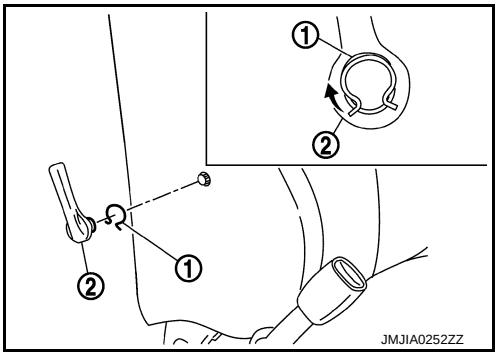


8. Remove the seat cushion inner finisher inside front (1) and rear (2).



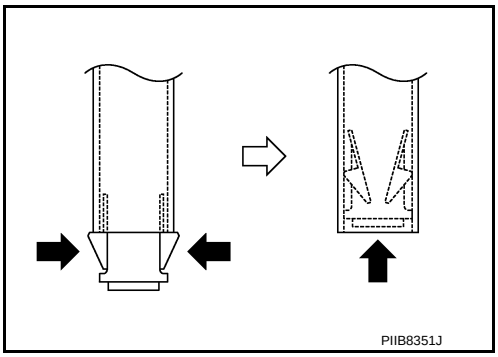
9. Remove the lumber support lever knob. (Manual lumber support seat only)

Pull snap ring (1) upward, and remove lumber support lever knob (2) from seatback frame. Using a hook and pick tool.



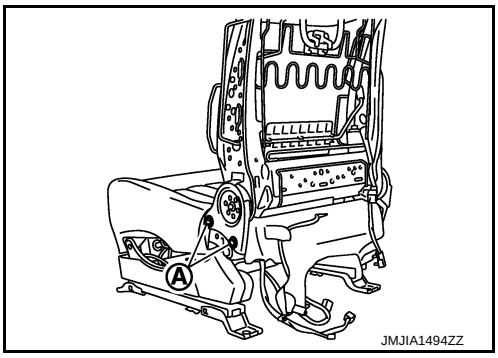
10. Remove the seatback trim and seatback pad.
    - Remove the headrest holder.

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



    - Remove the side air bag module.
    - Remove the seatback trim and seatback pad from the seatback frame.
    - Remove the hog rings, and separate the seatback trim and seatback pad.

11. Remove the seatback silencer.
12. Remove the seatback frame.
    Remove the seatback frame mounting bolts (A) and then remove the seatback frame.



Assembly
Assemble in the reverse order of disassembly.

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

SEAT CUSHION

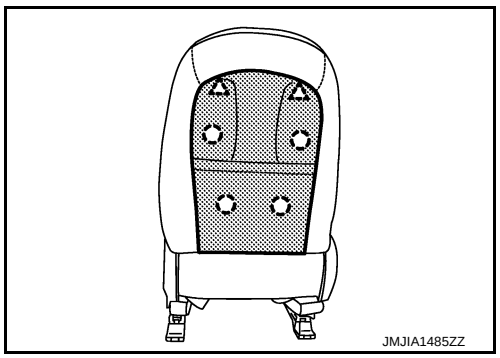
Disassembly

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

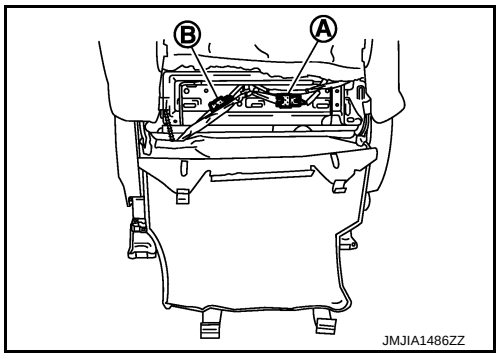
1. Remove the seatback board.
   - Remove the clips and pawls, and then pull out seatback board.
   - Pull down the seatback board to release the upper pawls.

   : Clip

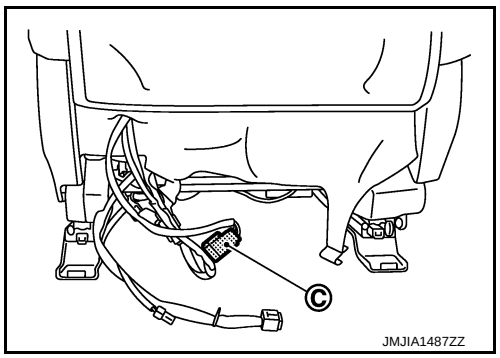
   : Pawl



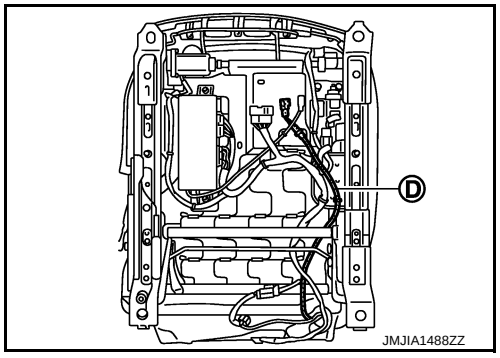
2. Remove the seatback trim retainer and seatback trim band from seat cushion frame.
3. Disconnect the harness connectors and remove the harness clamps.
   - Disconnect the reclining motor harness connector (A) and lumbar support harness connector (B) (Power lumber support seat only).



   - Disconnect the seatback heater seat harness connector (C). (With heater seat only.)



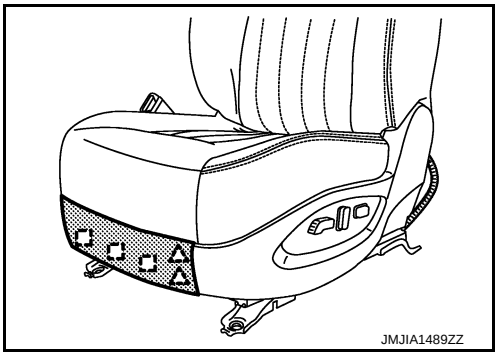
   - Remove the side air bag module harness (D).



4. Remove the metal clips and pawls, and then pull out seat cushion front finisher.

: Metal clip

: Pawl

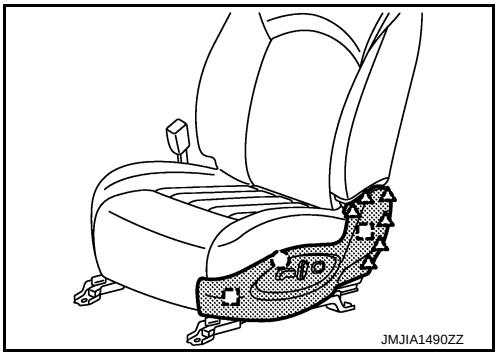


5. Remove the seat cushion outer finisher.
   - Remove the seat slide & lifter switch knob and seat reclining switch knob.
   - Remove the clips, metal clips and pawls, and then pull out seat cushion outer finisher outside.
   - Disconnect the seat slide & lifter, seat reclining and lumbar support switch (Power lumber support seat only) harness connectors.

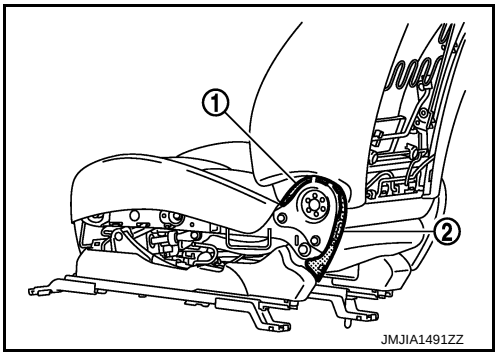
: Clip

: Metal clip

: Pawl



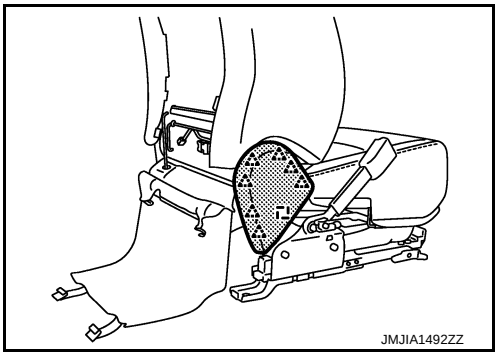
6. Remove the seat cushion outer finisher inside front (1) and rear (2).



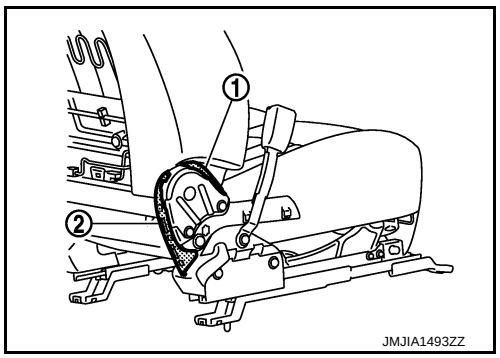
7. Remove the metal clip and pawls, and then pull out seat cushion inner finisher outside.

: Metal clip

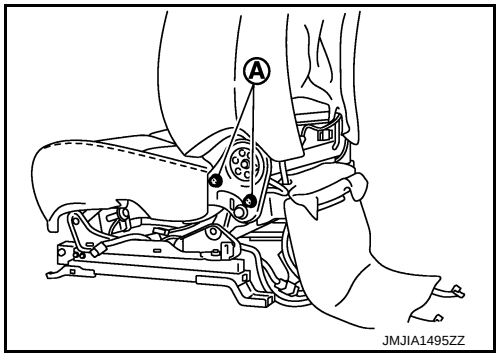
: Pawl



8. Remove the seat cushion inner finisher inside front (1) and rear (2).

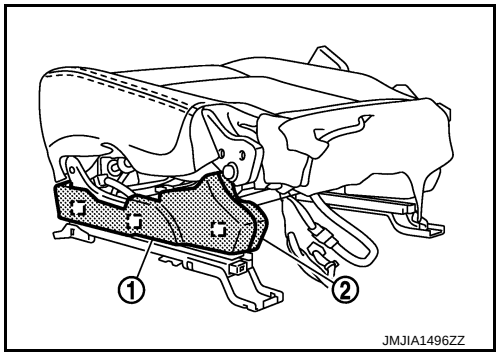


9. Remove the seatback assembly.
Remove the seatback assembly mounting bolts (A).



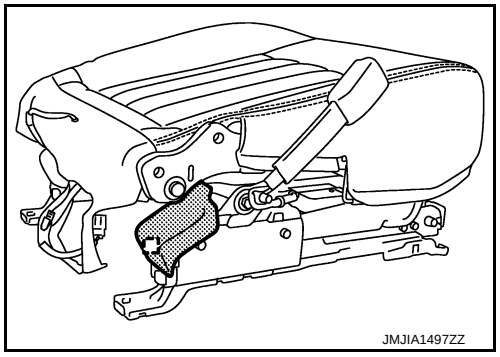
10. Remove the metal clips, and then pull out seat cushion outer lower finisher outside (1) and inside (2).

: Metal clip



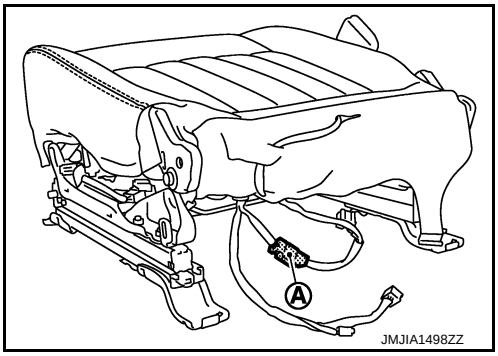
11. Remove the seat cushion inner lower finisher.

: Metal clip



12. Remove the seat cushion trim and seat cushion pad. (Without occupant classification system control unit model)

- Disconnect the seat cushion heater unit harness connector (A).
- Remove the seat cushion trim retainer.
- Remove the hog rings, and separate the seat cushion trim and seat cushion pad.



13. Remove the seat belt buckle. Refer to SB-8, "SEAT BELT BUCKLE : Removal and Installation".
14. Remove the driver seat control unit (with automatic drive positioner seat only). Refer to ADP-221, "Removal and Installation".
15. Remove the heated seat control unit. Refer to SE-149, "Removal and Installation".

Assembly

Assemble in the reverse order of disassembly.

CAUTION:

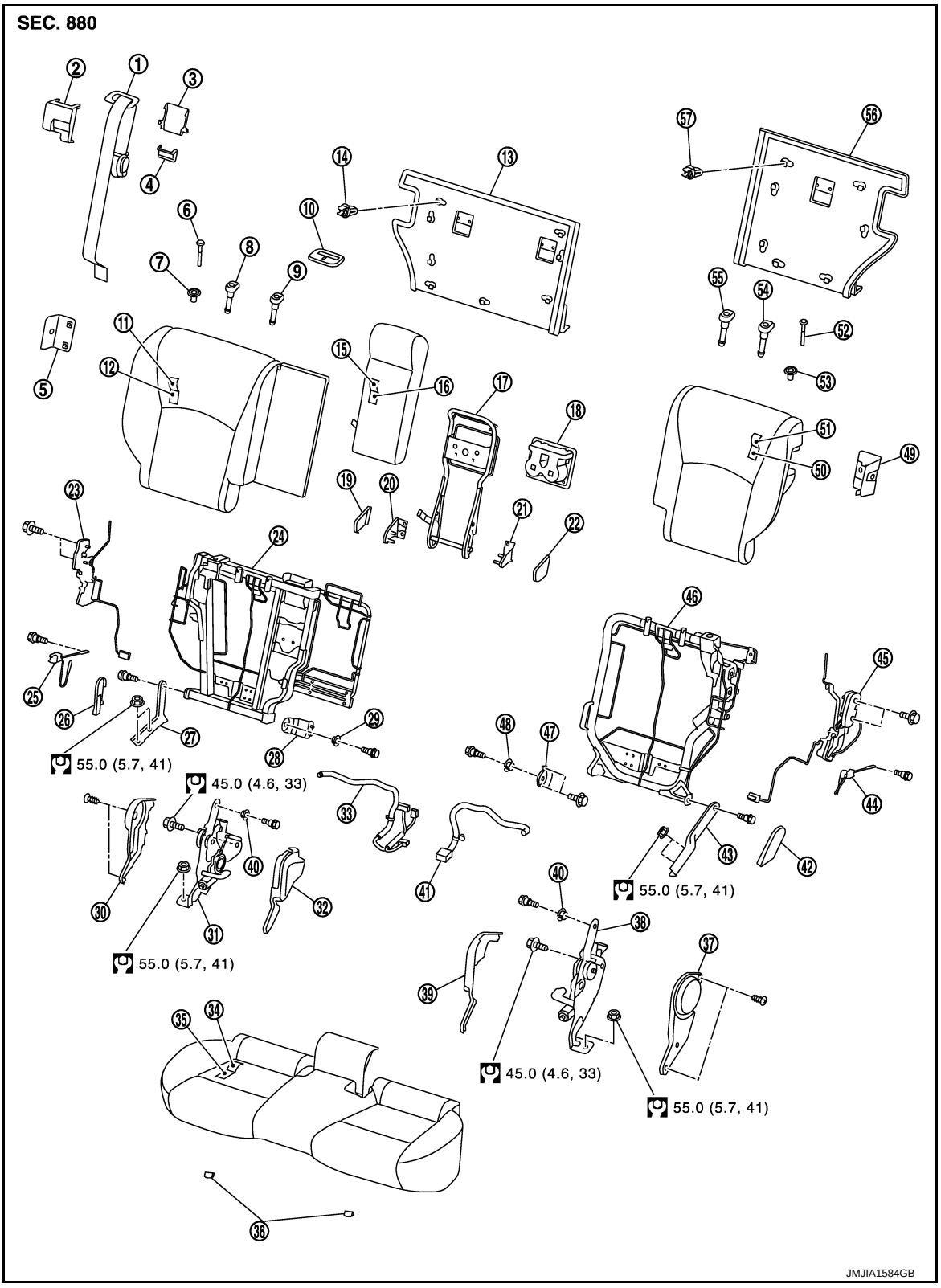
Install the hog rings of seat cushion trim in position, and then securely connect the trim or trim cord with the pad side wire.

REAR SEAT

Exploded View

INFOID:0000000007457355

REAR SEAT



1. Rear center seat belt	2. Center seat belt retractor cover	3. Seat belt guide (upper)
4. Seat belt guide (lower)	5. Rear seatback lock cover (RH)	6. Rear seatback lock knob (RH)
7. Rear seatback lock knob finisher (RH)	8. Headrest holder (free)	9. Headrest holder (locked)
10. Seat belt finisher	11. Rear seatback trim (RH)	12. Rear seatback pad (RH)
13. Rear seatback board (RH)	14. Rear seatback board clip (RH)	15. Armrest trim
16. Armrest pad	17. Armrest frame	18. Cup holder
19. Armrest bracket cover (RH)	20. Armrest bracket (RH)	21. Armrest bracket (LH)
22. Armrest bracket cover (LH)	23. Rear seatback lock assembly (RH)	24. Rear seatback frame (RH)
25. Rear seat belt hook (RH)	26. Rear seatback hinge outer cover (RH)	27. Rear seatback hinge (RH)
28. Rear seatback hinge bracket (RH)	29. Rear seatback hinge bush (RH)	30. Reclining device outer cover (RH)
31. Reclining device assembly (RH)	32. Reclining device inner cover (RH)	33. Rear seat harness (RH)
34. Rear seat cushion trim	35. Rear seat cushion pad	36. Rear seat cushion hook
37. Reclining device outer cover (LH)	38. Reclining device assembly (LH)	39. Reclining device inner cover (LH)
40. Reclining device bush	41. Rear seat harness (LH)	42. Rear seatback hinge outer cover (LH)
43. Rear seatback hinge (LH)	44. Rear seat belt hook (LH)	45. Rear seatback lock assembly (LH)
46. Rear seatback frame (LH)	47. Rear seatback hinge bracket (LH)	48. Rear seatback hinge bush (LH)
49. Rear seatback lock cover (LH)	50. Rear seatback pad (LH)	51. Rear seatback trim (LH)
52. Rear seatback lock knob (LH)	53. Rear seatback lock knob finisher (LH)	54. Headrest holder (locked)
55. Headrest holder (free)	56. Rear seatback board (LH)	57. Rear seatback board clip (LH)

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

Removal and Installation

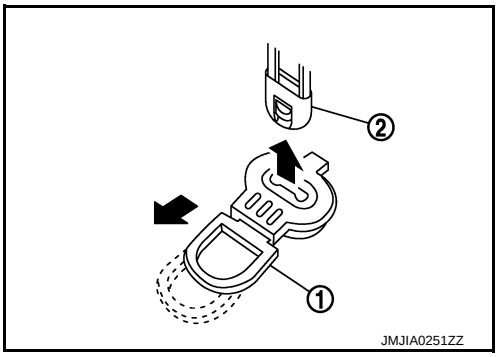
INFOID:0000000007457356

REMOVAL

CAUTION:

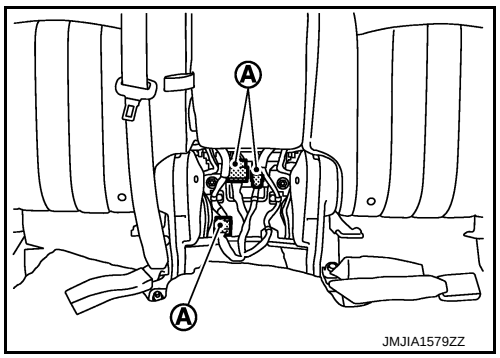
When removing and installing, use shop cloths to protect parts from damage.

1. Remove the seat cushion.
   - Pull the lock lever (1) at the front bottom of the seat cushion forward (1 for each side), and pull the seat cushion upward to release the wire (2) from the seat cushion hook. Then pull the seat cushion forward the remove
   - Remove the seat cushion from vehicle.

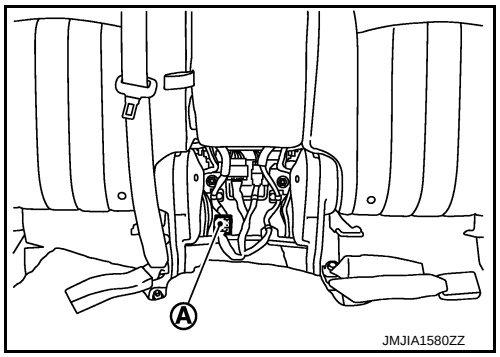


2. Remove the seatback.
   - Remove the luggage floor finisher front LH and RH. Refer to INT-36, "Exploded View".
   - Disconnect the rear seat harness connectors.
   - With power return seat model
     LH seatback

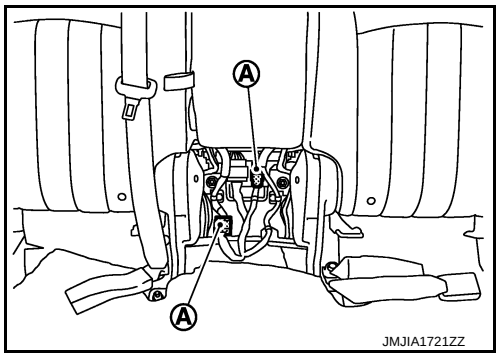
Disconnect the rear seat harness connectors (A).



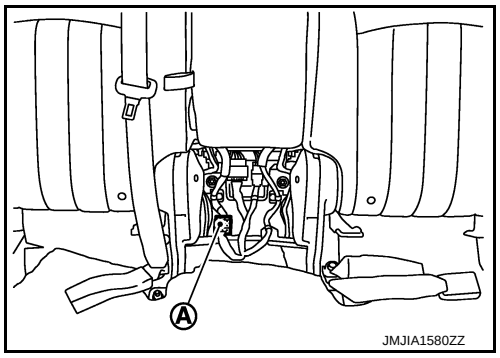
RH seatback
Disconnect the rear seat harness connector (A).



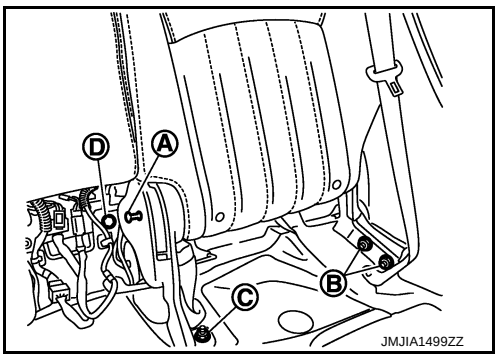
- Without power return seat model
  LH seatback
  Disconnect the rear seat harness connectors (A).



RH seatback
Disconnect the rear seat harness connector (A).

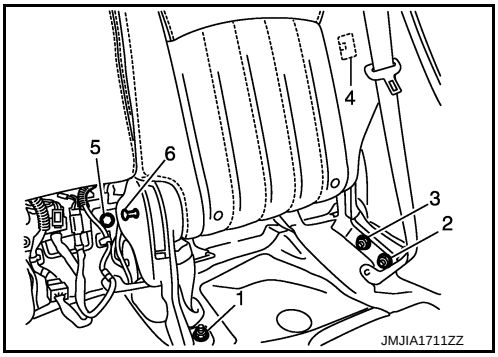


- Push the seatback lock pin (A).
- Remove the seatback mounting nuts (B), (C) and bolt (D).
- Remove the center seat belt anchor bolt. (RH seatback only) Refer to SB-11, "SEAT BELT RETRACTOR : Exploded View".
- Remove the seatback from vehicle.



INSTALLATION

1. Install the rear seatback mounting nuts (1), (2), (3).
2. Lock the seatback striker (4).
3. Install the rear seatback mounting botl (5).
4. Pull the rear seatback lock pin (6).



CAUTION:

- **When removing and installing, use shop cloths to protect parts from damage.**
- **When removing and installing, 2 workers are required so as to prevent it from dropping.**

Disassembly and Assembly

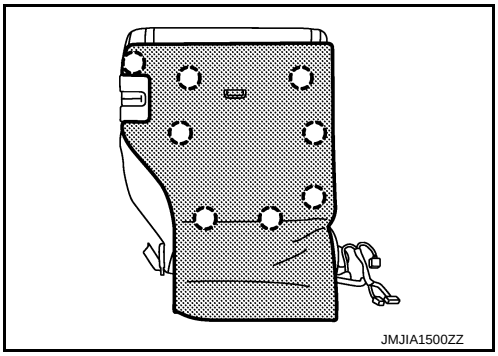
INFOID:0000000007457357

SEATBACK

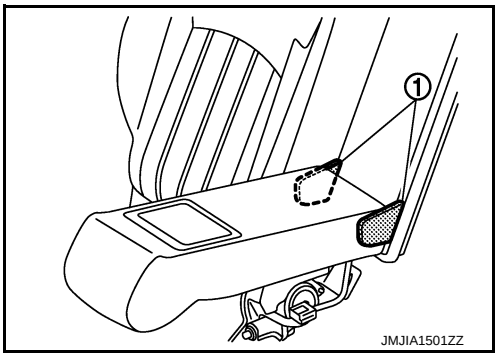
Disassembly

1. Remove the clips, and then pull out seatback board.

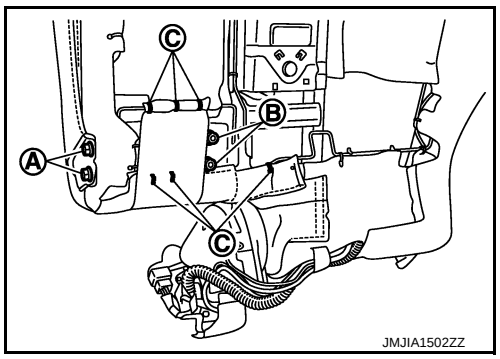
: Clip



2. Remove the armrest.
   - Remove the armrest hinge covers (1).

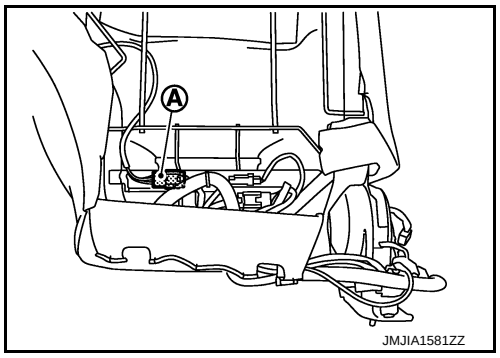


- Remove the arm rest mounting bolts (A), nuts (B) and hog rings (C), and then remove the armrest.

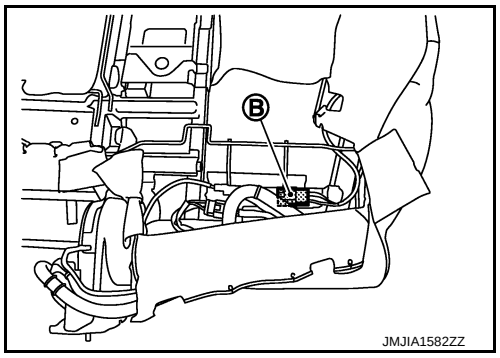


3. Remove the seatback device assembly.
   - Remove the seatback trim fixing hog rings.
   - Disconnect the seatback lock harness connector.

   LH seatback
   Disconnect the seatback lock harness connector (A).

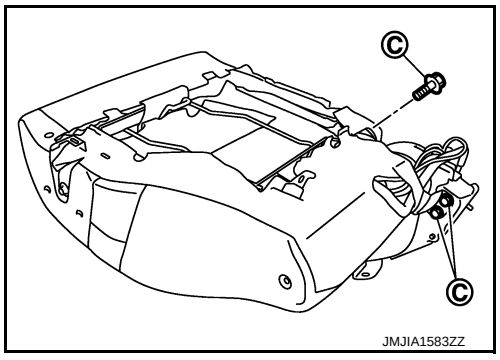


   RH seatback
   Disconnect the seatback lock harness connector (B).

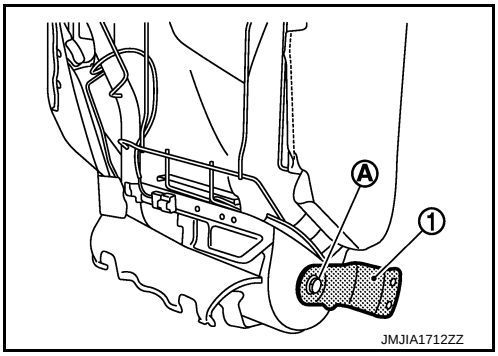


   - Remove the seatback device.

   Remove the seatback device mounting bolts (C).



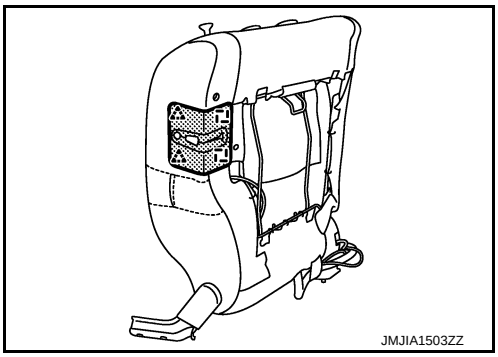
4. Remove the hinge bracket mounting bolt (A), and then remove the hinge bracket (1).



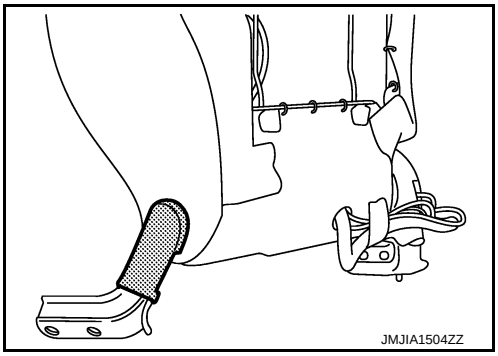
5. Remove the seatback trim and pad.
   - Remove the metal clips and pawls, and then pull out seatback lock cover.

     : Metal clip

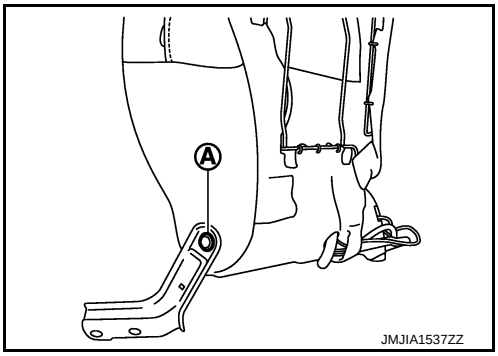
     : Pawl



   - Remove the seatback hinge outer cover.

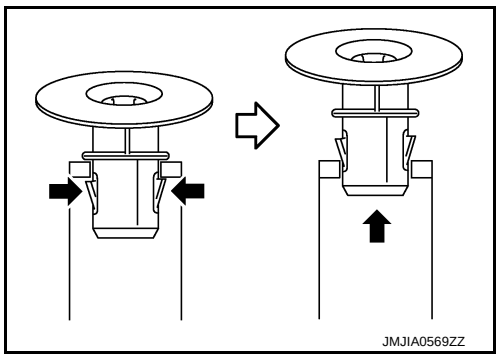


   - Remove the seatback hinge.
     Remove the seatback hinge mounting bolt (A).

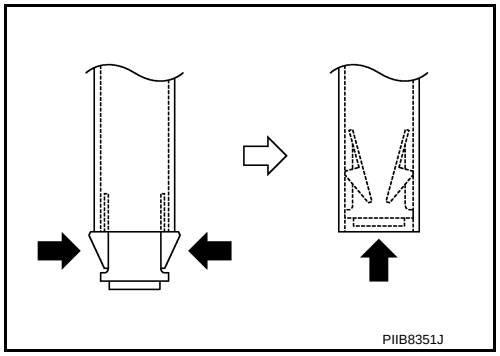


   - Turn seatback lock knob counterclockwise to remove.

- Push the seatback lock knob finisher pawl upward though the seatback pad and the seatback frame to remove it.

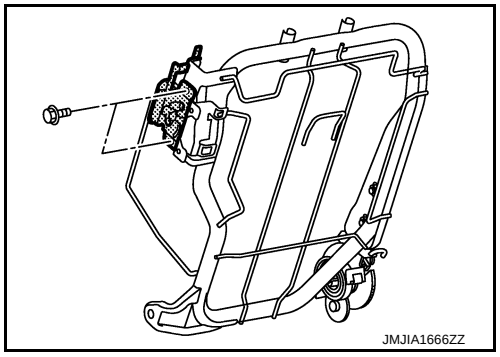


- Remove the headrest holder.
  CAUTION:
  Before installing headrest holder check its orientation. (front/rear and right/left)



- Remove the seatback trim and pad.
- Remove the hog rings to separate the seatback trim and seatback pad.

6. Remove the seatback lock assembly.
   Remove the seatback lock assembly mounting bolts.



7. Remove the rear center seat belt. Refer to SB-11, "SEAT BELT RETRACTOR : Exploded View"

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

SEAT CUSHION

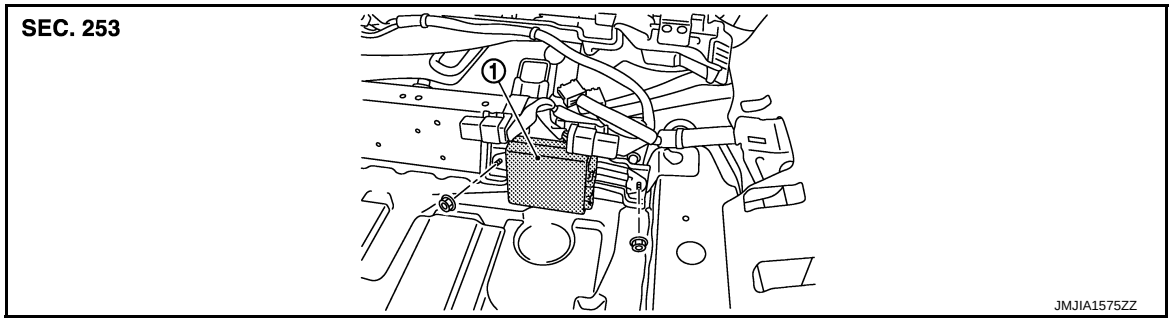
Disassembly
Remove the hog rings to separate the trim and pad.

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

REAR SEAT BACK POWER RETURN CONTROL UNIT

Exploded View

INFOID:0000000007457358



1. Rear seatback power return control unit

Removal and Installation

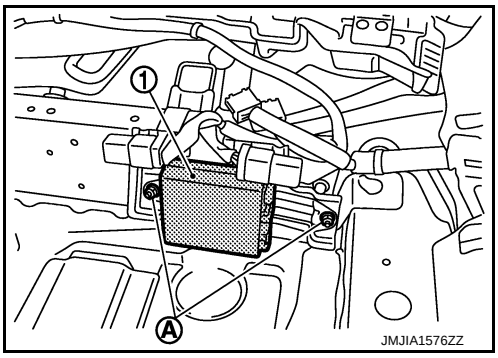
INFOID:0000000007457359

REMOVAL

CAUTION:

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

1. Remove the luggage floor finisher assembly (front). Refer to INT-37, "Removal and Installation".
2. Remove mounting nuts (A).
3. Remove rear seatback power return control unit (1).



INSTALLATION

Install in the reverse order of removal.

CAUTION:

Be sure to clamp the harness to the right place.

HEATED SEAT CONTROL UNIT

Exploded View

INFOID:0000000007457360

Refer to SE-129, "Exploded View".

Removal and Installation

INFOID:0000000007457361

REMOVAL

CAUTION:

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

1. Remove the front seat.
2. Disconnect heated seat control unit connector.
3. Remove the heated seat control unit from the heated seat control unit stay. Refer to SE-132, "Removal and Installation".

INSTALLATION

Install in the reverse order of removal.

CAUTION:

Always clamp the harness to the right place.

POWER SEAT SWITCH

Exploded View

INFOID:0000000007457362

Refer to SE-129, "Exploded View".

Removal and Installation

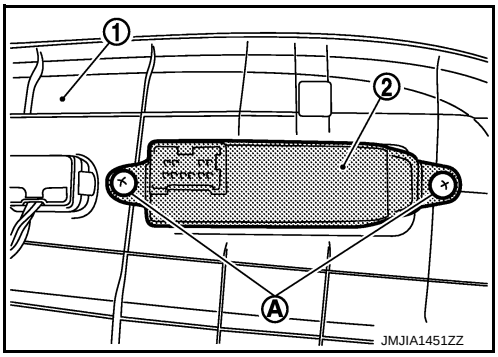
INFOID:0000000007457363

REMOVAL

CAUTION:

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

1. Remove the seat cushion outer finisher (1). Refer to SE-132, "Removal and Installation".
2. Remove the screws (A).
3. Remove the power seat switch (2) from the seat cushion outer finisher.



INSTALLATION

Install in the reverse order of removal.

CAUTION:

Be sure to clamp the harness to the right place.

LUMBAR SUPPORT SWITCH

Exploded View

INFOID:0000000007457364

Refer to SE-129, "Exploded View".

Removal and Installation

INFOID:0000000007457365

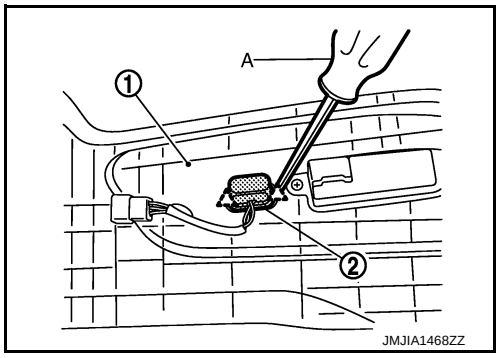
REMOVAL

CAUTION:

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

1. Remove the seat cushion outer finisher (1). Refer to SE-132, "Removal and Installation".
2. Remove the lumbar support switch (2) from the seat cushion outer finisher with remover tool (A).

: Pawl



INSTALLATION

Install in the reverse order of removal.

CAUTION:

Be sure to clamp the harness to the right place.

HEATED SEAT SWITCH

Exploded View

INFOID:0000000007457366

Refer toIP-22, "Exploded View".

Removal and Installation

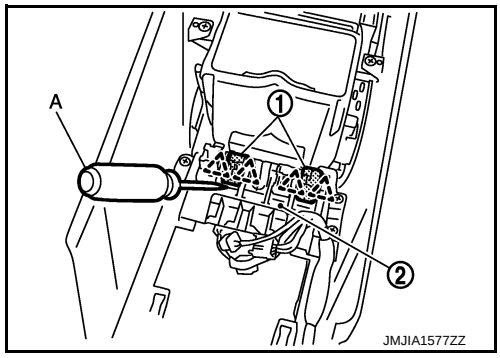
INFOID:0000000007457367

REMOVAL

CAUTION:

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

1. Remove the console body assembly. Refer to IP-23, "Removal and Installation"
2. Remove heated seat switch (1) from switch bracket with remover tool (A).



: Pawl

NOTE:

The same procedure is also performed for passenger side.

INSTALLATION

Install in the reverse order of removal.

POWER RETURN SWITCH

Exploded View

INFOID:0000000007457368

Refer to IP-22, "Exploded View".

Removal and Installation

INFOID:0000000007457369

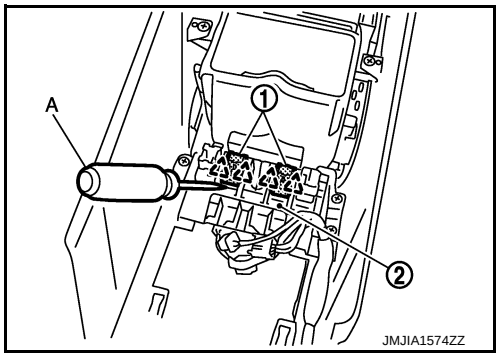
REMOVAL

CAUTION:

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

1. Remove the console body assembly. Refer to IP-23, "Removal and Installation"
2. Remove power return switch (1) from switch bracket with remover tool (A).

: Pawl



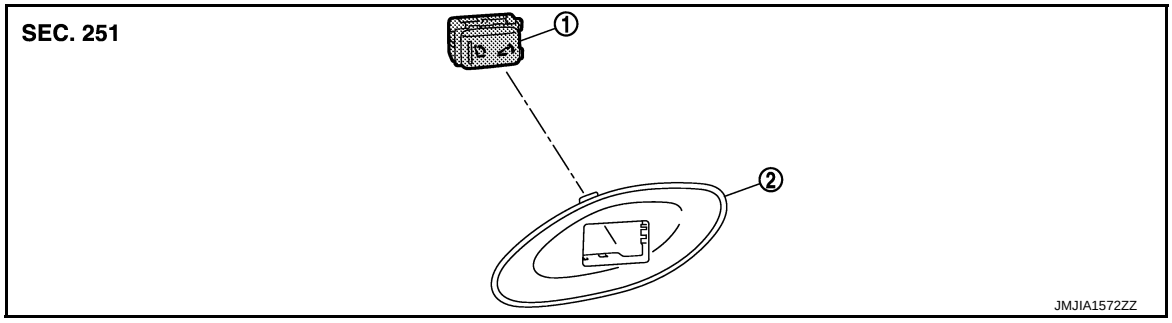
INSTALLATION

Install in the reverse order of removal.

REAR SEATBACK SWITCH

Exploded View

INFOID:0000000007457370



1. Rear seatback switch
2. Luggage side finisher lower escutcheon

Removal and Installation

INFOID:0000000007457371

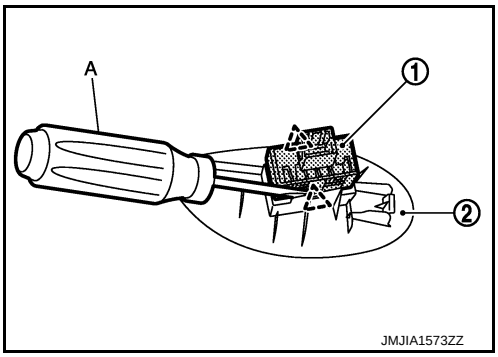
REMOVAL

CAUTION:

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

1. Remove the luggage side finisher lower escutcheon.Refer to INT-37, "Removal and Installation".
2. Remove rear power return switch (1) from luggage side finisher lower escutcheon with remover tool (A).

: Pawl



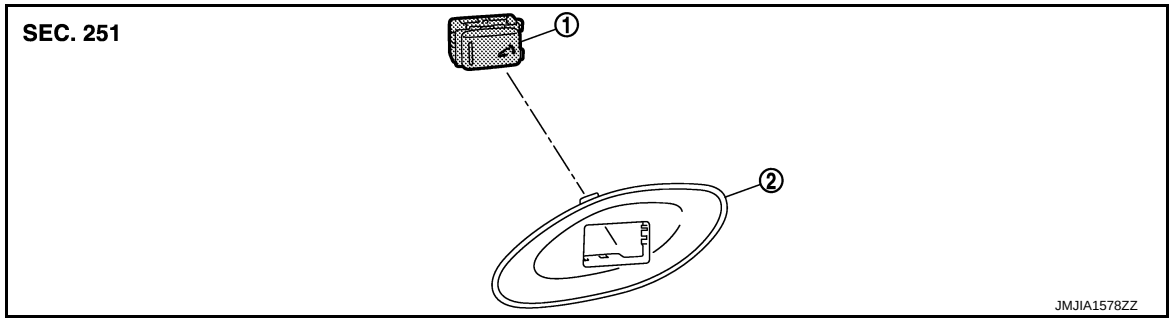
INSTALLATION

Install in the reverse order of removal.

REAR SEATBACK RELEASE SWITCH

Exploded View

INFOID:0000000007457372



1. Rear seatback release switch
2. Luggage side finisher lower escutcheon

Removal and Installation

INFOID:0000000007457373

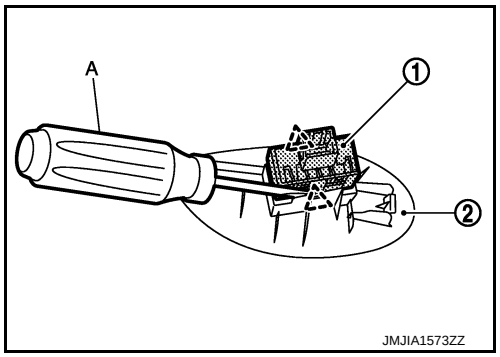
REMOVAL

CAUTION:

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

1. Remove the luggage side finisher lower escutcheon. Refer to INT-37, "Removal and Installation".
2. Remove rear power return switch (1) from luggage side finisher lower escutcheon with remover tool (A).

: Pawl



INSTALLATION

Install in the reverse order of removal.