# SECTION SE
# SEAT

## CONTENTS

# BASIC INSPECTION

## DIAGNOSIS AND REPAIR WORK FLOW

### WorkFlow

INFOID:0000000012173675

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:0000000012173676

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

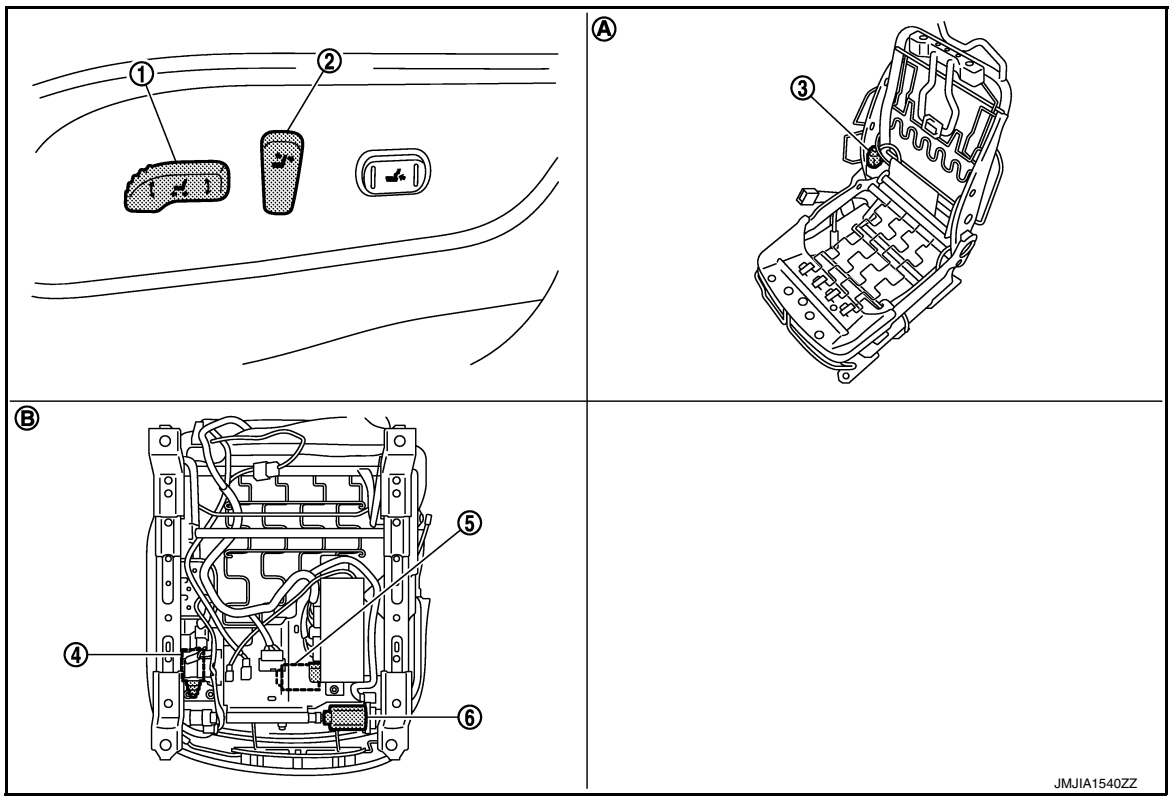
SLIDING OPERATION
While operating the sliding switch located in power seat switch, sliding motor operates and makes possible the seat front and back position adjustment.

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:0000000012173677




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

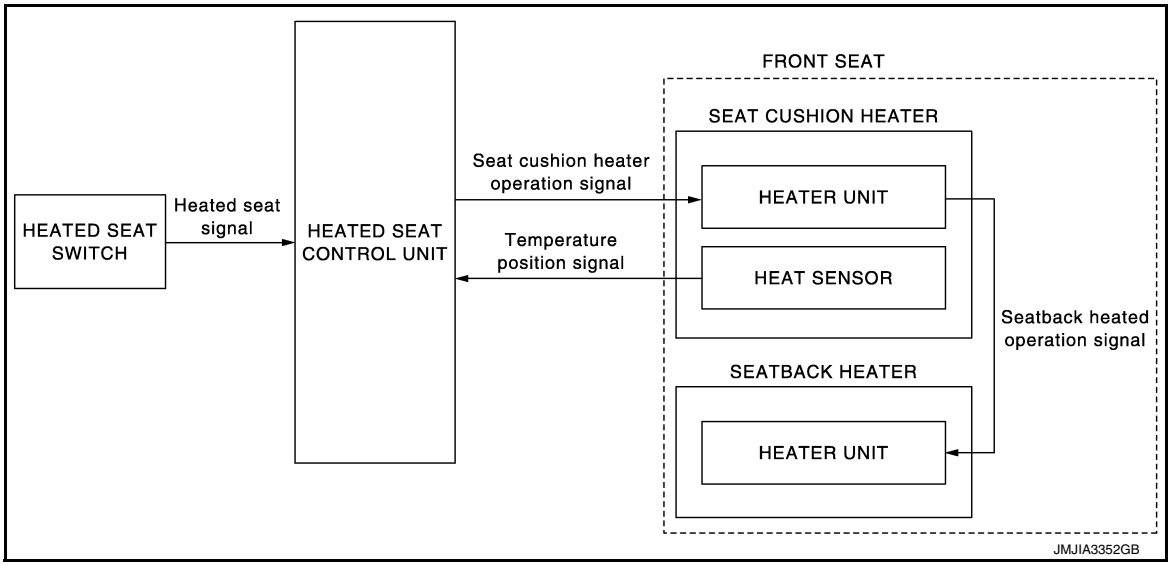
INFOID:0000000012173678

| 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:0000000012173679




## System Description

INFOID:0000000012173680

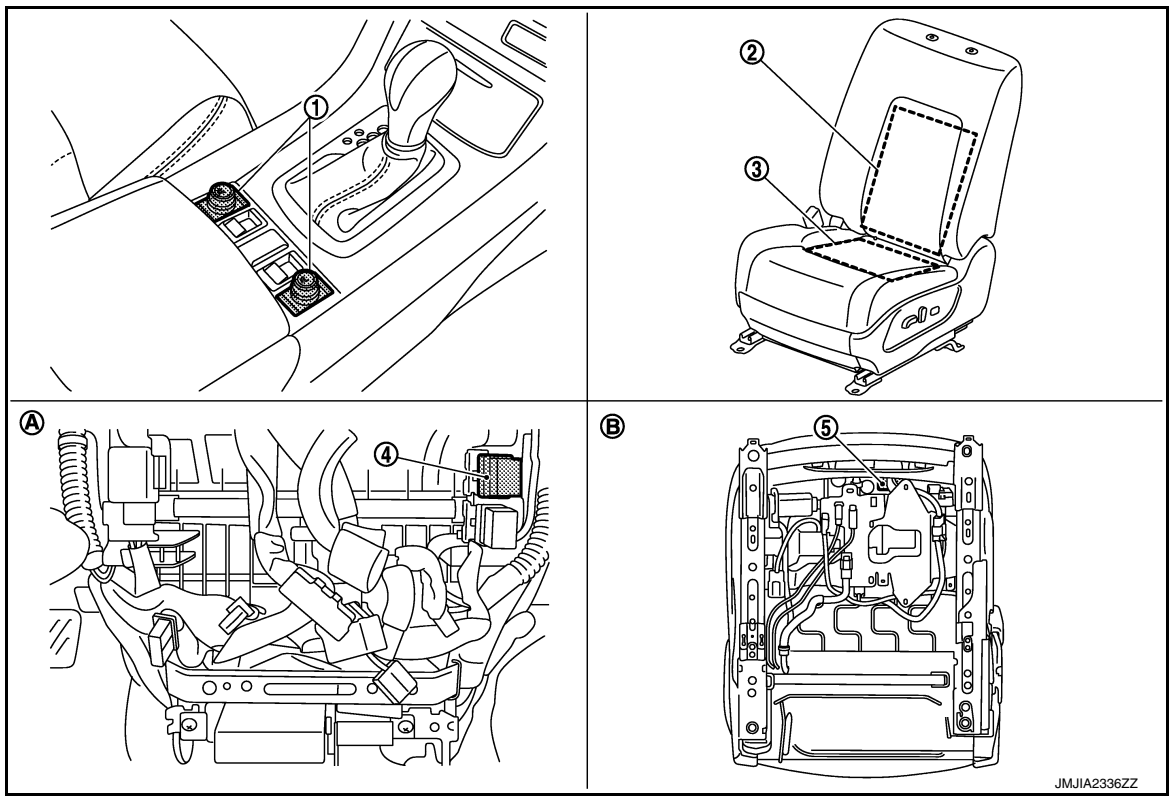
- Heated seat is activated by heated seat switch while ignition switch is ON, and has the function to warm seat cushion and seatback.
- Heated seat equips the 6-stage temperature adjustment function that adjusts temperature by operating heated seat switch to the optimal position.
- Heated seat equips 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:0000000012173681




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:0000000012173682

| Item | Function |
|---|---|
| Heated seat switch | • Adjusts heated seat temperature and deactivates heated seat<br>• Equips indicator that indicates the operating condition |
| Seat cushion heater | • Warms seat cushion<br>• 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

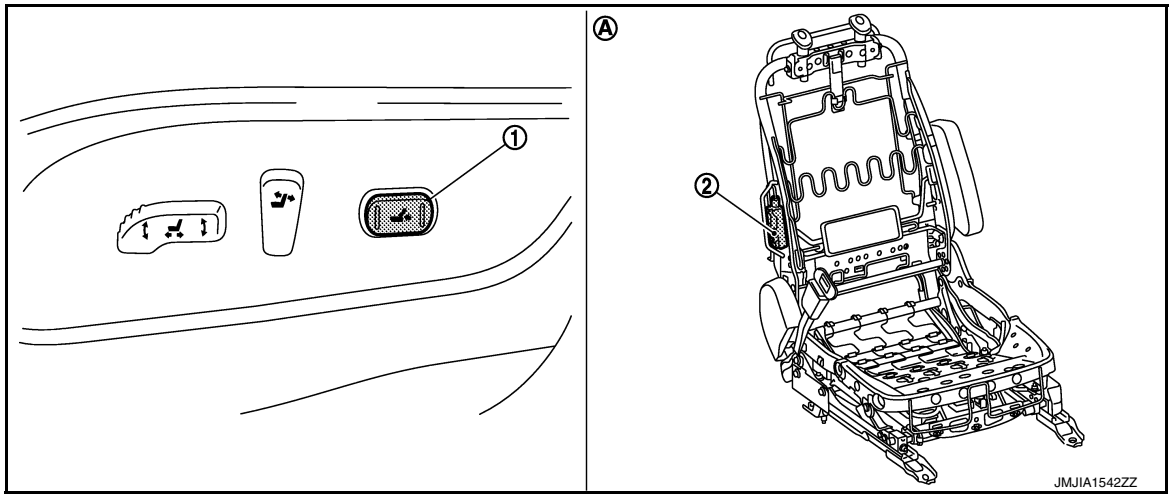
## System Description

INFOID:0000000012173683

- 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:0000000012173684




1. Lumbar support switch
2. Lumbar support motor

A. View with seat back pad is removed

## Component Description

INFOID:0000000012173685

| 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

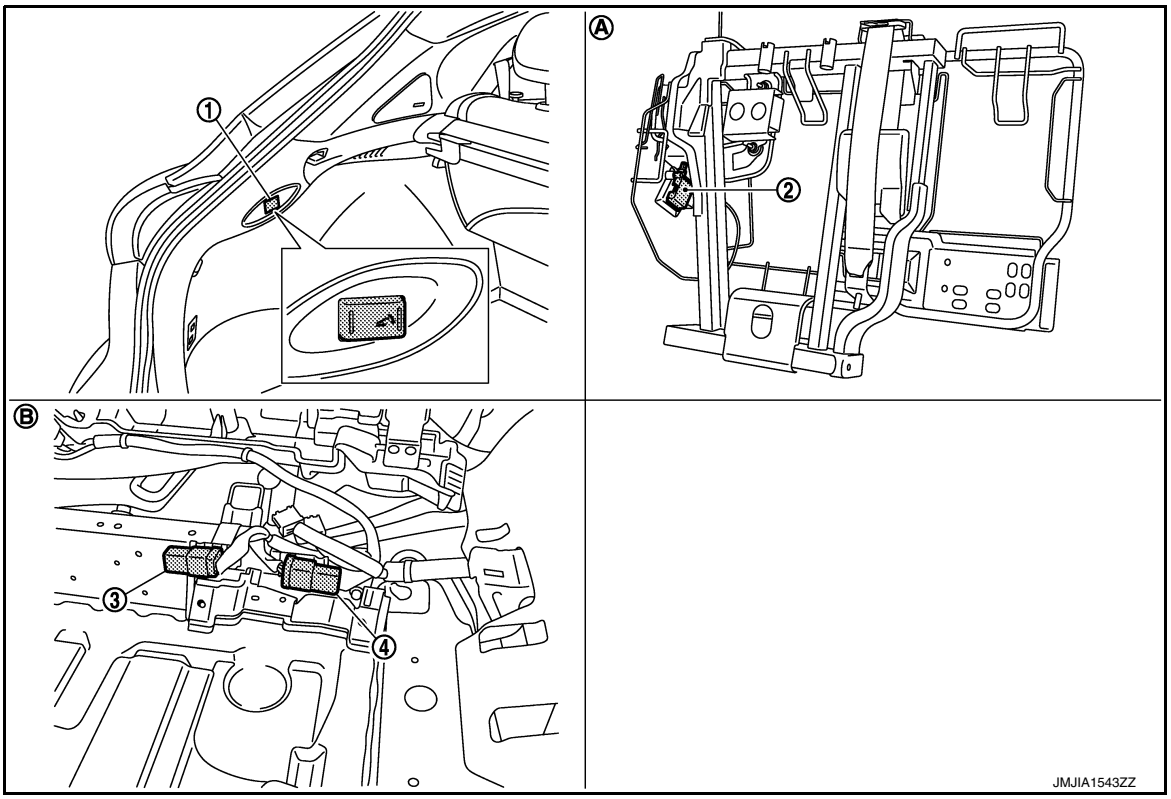
## System Description

INFOID:0000000012173686

- 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:0000000012173687




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

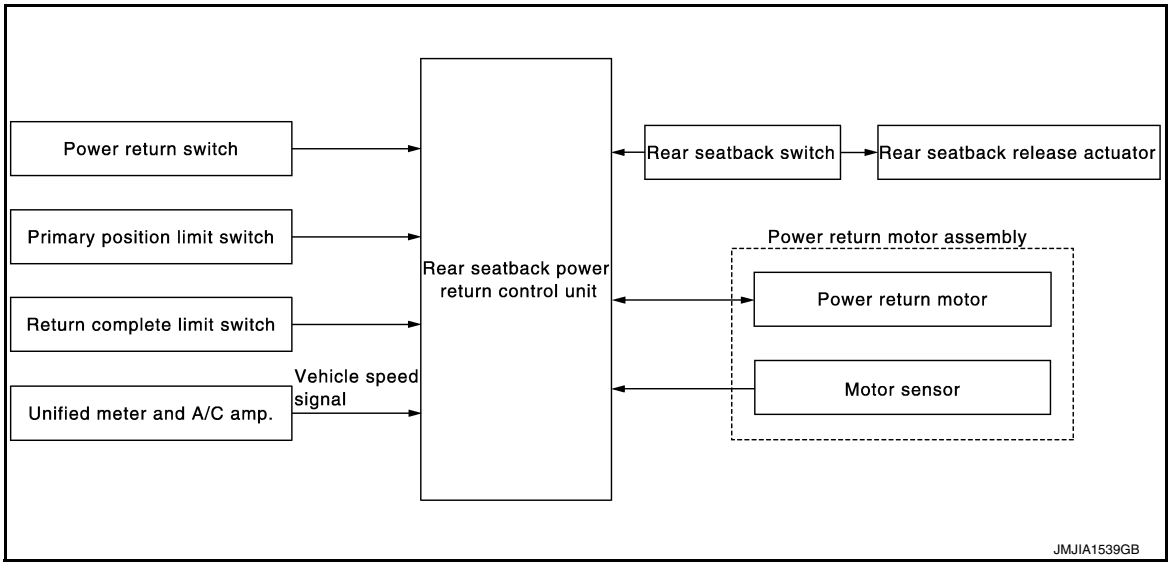
INFOID:0000000012173688

| 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:0000000012173689




## System Description

INFOID:0000000012173690

### 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

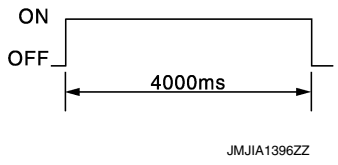
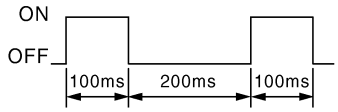
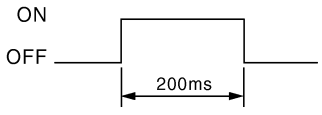
If any of the following conditions are satisfied, the low power consumption mode is released.

- 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.

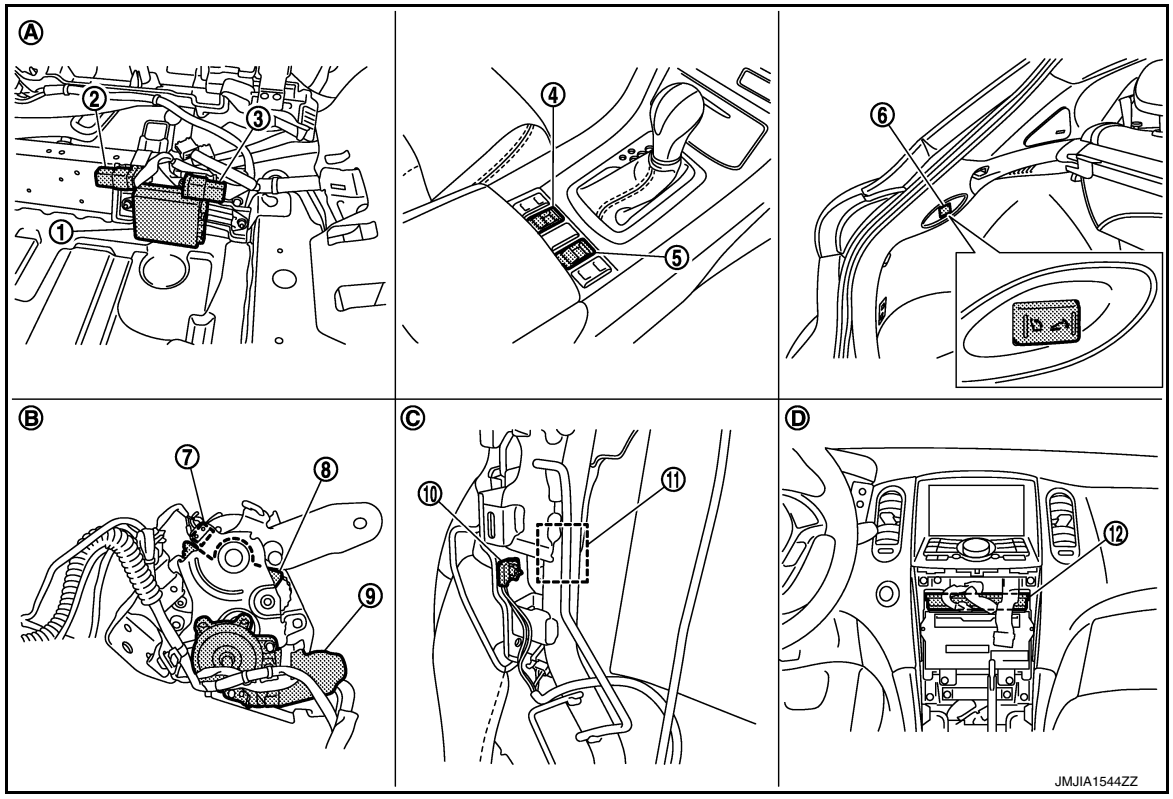
- Turn the power supply of primary position limit switch and return complete limit switch to OFF
- Turn the power supply of the motor sensor to OFF when the power return motor is not operated

## 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:0000000012173691




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:0000000012173692

| 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:0000000012173693

#### 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:0000000012173694

#### 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:0000000012173695

## 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:0000000012173696

Switch that performs the return operation.

### LH : Component Function Check

INFOID:0000000012173697

#### 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:0000000012173698

#### 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:0000000012173699

## 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:0000000012173700

Switch that performs the return operation.

# RH : Component Function Check

INFOID:0000000012173701

## 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:0000000012173702

## 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:0000000012173703

## 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:0000000012173704

Switch that performs the return operation or release operation.

### LH : Component Function Check

INFOID:0000000012173705

#### 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:0000000012173706

#### 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:0000000012173707

## 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:0000000012173708

Switch that performs the return operation or release operation.

# RH : Component Function Check

INFOID:0000000012173709

## 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:0000000012173710

## 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:0000000012173711

## 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:0000000012173712

Detect the initial position of sector gear (LH).

### LH : Component Function Check

INFOID:0000000012173713

#### 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:0000000012173714

#### 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:0000000012173715

### 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:0000000012173716

Detect the initial position of sector gear (RH).

## RH : Component Function Check

INFOID:0000000012173717

### 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:0000000012173718

### 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:0000000012173719

## 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:0000000012173720

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

### LH : Component Function Check

INFOID:0000000012173721

#### 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:0000000012173722

#### 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:0000000012173723

## 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:0000000012173724

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

# RH : Component Function Check

INFOID:0000000012173725

## 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:0000000012173726

### 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:0000000012173727

## 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:0000000012173728

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

### LH : Component Function Check

INFOID:0000000012173729

#### 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?

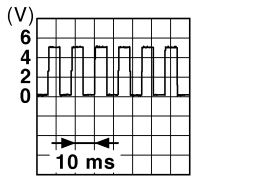
YES >> Motor sensor (LH) is OK.
NO >> Refer to SE-37, "LH : Diagnosis Procedure".

### LH : Diagnosis Procedure

INFOID:0000000012173730

#### 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:0000000012173731

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

## RH : Component Function Check

INFOID:0000000012173732

## 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?

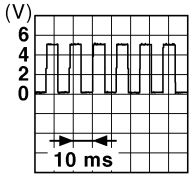
YES >> Motor sensor (RH) is OK.
NO >> Refer to SE-39, "RH : Diagnosis Procedure".

## RH : Diagnosis Procedure

INFOID:0000000012173733

## 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:0000000012173734

Operate the rear seatback.

### LH : Component Function Check

INFOID:0000000012173735

#### 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:0000000012173736

#### 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:0000000012173737

Operate the rear seatback.

## RH : Component Function Check

INFOID:0000000012173738

### 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:0000000012173739

### 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:0000000012173740

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

## Component Function Check

INFOID:0000000012173741

### 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:0000000012173742

### 1.CHECK VEHICLE SPEED OPERATION

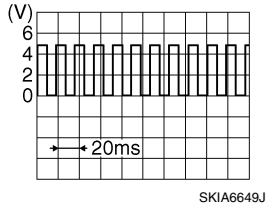
1. Check speed meter operate normally.

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:0000000012173743

Adjusts heated seat temperature and deactivates heated seat.

### DRIVER SIDE : Component Function Check

INFOID:0000000012173744

#### 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:0000000012173745

#### 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:0000000012173746

## 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:0000000012173747

Adjusts heated seat temperature and deactivates heated seat.

# PASSENGER SIDE : Component Function Check

INFOID:0000000012173748

## 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:0000000012173749

## 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:0000000012173750

## 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:0000000012173751

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

## Component Function Check

INFOID:0000000012173752

### 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:0000000012173753

### 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

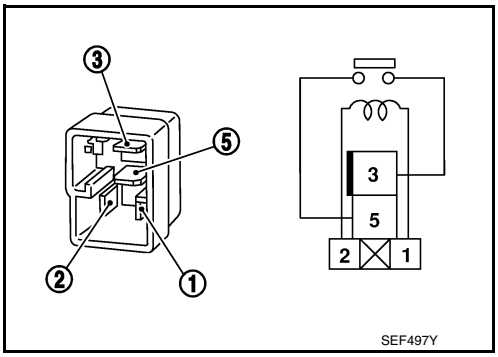
# Component Inspection

INFOID:0000000012173754

## 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:0000000012173755

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

### DRIVER SIDE : Component Function Check

INFOID:0000000012173756

#### 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:0000000012173757

#### 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:0000000012173758

## 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:0000000012173759

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

### PASSENGER SIDE : Component Function Check

INFOID:0000000012173760

#### 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:0000000012173761

#### 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:0000000012173762

### 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:0000000012173763

Warms the seat cushion.

### DRIVER SIDE : Component Function Check

INFOID:0000000012173764

#### 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:0000000012173765

#### 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 to SE-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:0000000012173766

## 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:0000000012173767

Warms the seat cushion.

# PASSENGER SIDE : Component Function Check

INFOID:0000000012173768

## 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:0000000012173769

## 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:0000000012173770

### 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:0000000012173771

Warms the seat back heater.

### DRIVER SIDE : Component Function Check

INFOID:0000000012173772

#### 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:0000000012173773

#### 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:0000000012173774

Warms the seat back heater.

### PASSENGER SIDE : Component Function Check

INFOID:0000000012173775

#### 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:0000000012173776

#### 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:0000000012173777

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

### DRIVER SIDE : Component Function Check

INFOID:0000000012173778

#### 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:0000000012173779

#### 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:0000000012173780

#### 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:0000000012173781

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

## PASSENGER SIDE : Component Function Check

INFOID:0000000012173782

### 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:0000000012173783

### 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:0000000012173784

### 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.

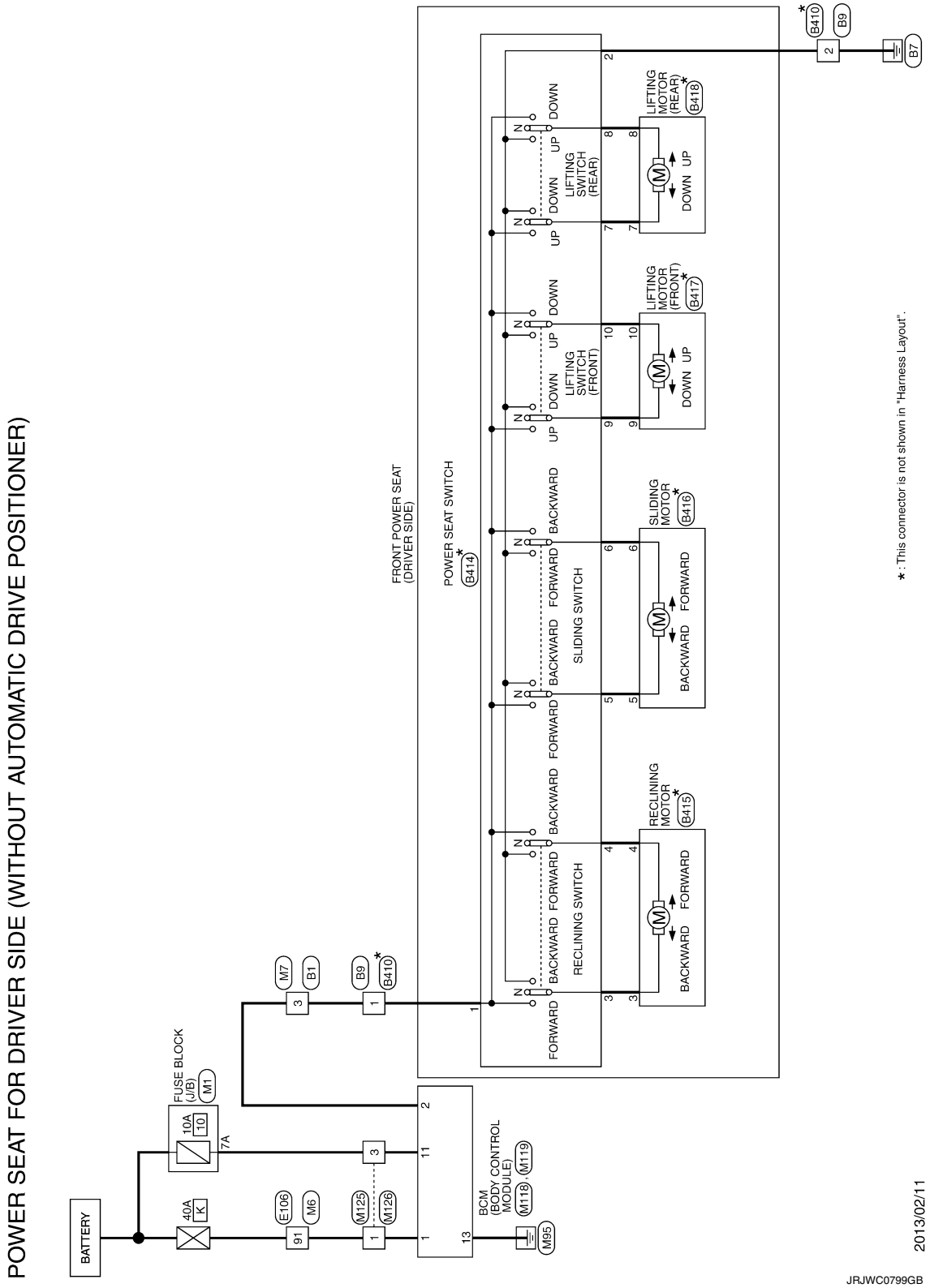
Is the inspection result normal?

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) -

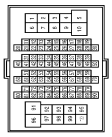
INFOID:0000000012173785



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 | – |
| 11 | V | – |
| 12 | SB | – |
| 13 | LG | – |
| 14 | GR | – |
| 15 | LG | – |
| 16 | R | – |
| 17 | W | – |
| 18 | SB | – |
| 19 | LG | – |
| 20 | BR | – |
| 21 | SHIELD | – |
| 22 | Y | – |
| 24 | P | – |
| 25 | G | – |
| 26 | Y | – |
| 27 | B | – [With NAVI] |
| 27 | BR | – [Without NAVI] |
| 28 | R | – [With NAVI] |
| 28 | W | – [Without NAVI] |
| 29 | L | – [Without NAVI] |
| 29 | W | – [With NAVI] |
| 30 | SHIELD | – |
| 31 | L | – [With around view monitor] |
| 31 | SHIELD | – [Without around view monitor] |
| 32 | P | – [With NAVI] [Without Blind Spot Warning] |
| 32 | W | – [Without NAVI] [Without Blind Spot Warning] |
| 32 | Y | – [With NAVI] [With Blind Spot Warning] |
| 33 | SB | – |
| 34 | L | – |
| 35 | P | – |
| 36 | L | – |
| 37 | P | – |
| 38 | P | – |
| 39 | Y | – |
| 40 | SB | – |
| 44 | Y | – |
| 45 | GR | – |
| 46 | LG | – |
| 47 | SB | – |
| 48 | BG | – |
| 49 | R | – |
| 50 | L | – |
| 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 | Y | – |
| 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 | – |
| 59 | B | – |
| 60 | G | – |
| 66 | GR | – |
| 67 | Y | – |

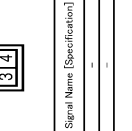
| Connector No. | B410 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | NS06MW |

H.S.

| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1 | R | – |
| 2 | B | – |
| 59 | Y/R | – |
| 60 | B | – |
| 66 | 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 | – |

JRJWD2721GB

POWER SEAT FOR DRIVER SIDE (WITHOUT AUTOMATIC DRIVE POSITIONER)

| Connector No. | B416 |
|---|---|
| Connector Name | SLIDING MOTOR |
| Connector Type | 6098-0239 |

H.S.


| 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.


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

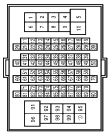
| Connector No. | B418 |
|---|---|
| Connector Name | LIFTING MOTOR (REAR) |
| Connector Type | NS02FW-CS |

H.S.


| 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 |

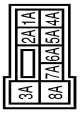
H.S.



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

JRJWD2722GB

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 | – [With NAVI] |
| 1 | Y | – [Without NAVI] |
| 2 | B | – [Without NAVI] |
| 2 | R | – [With NAVI] |
| 3 | B | – [With NAVI] |
| 3 | G | – [Without NAVI] |
| 4 | SHIELD | – |
| 5 | G | – |
| 6 | R | – |
| 7 | W | – |
| 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 | – |

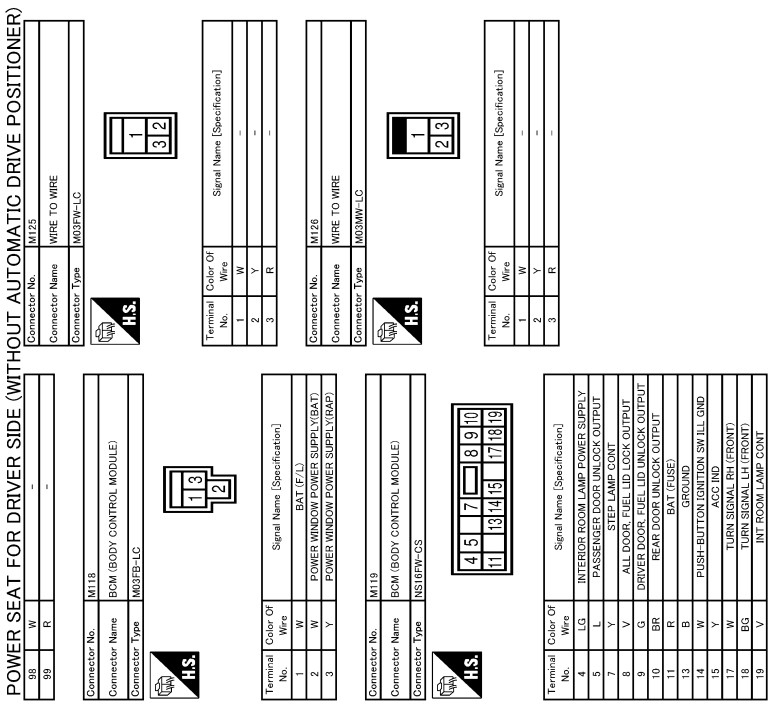
| Connector No. | M7 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80MW-CS16-TM4 |

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 | – |
| 11 | V | – |
| 12 | SB | – |
| 13 | LG | – |
| 14 | Y | – |
| 15 | G | – |
| 16 | R | – |
| 17 | W | – |
| 18 | SB | – |
| 19 | LG | – |
| 20 | BR | – |
| 21 | SHIELD | – |
| 22 | Y | – |
| 24 | V | – |
| 25 | G | – |
| 26 | Y | – |
| 27 | B | – [With NAVI] |
| 27 | R | – [Without NAVI] |
| 28 | W | – |
| 29 | B | – [Without NAVI] |
| 29 | R | – [With NAVI] |
| 30 | SHIELD | – |
| 31 | L | – |
| 32 | P | – [Without Blind Spot Warning] |
| 32 | Y | – [With Blind Spot Warning] |
| 33 | SB | – |
| 34 | L | – |
| 35 | P | – |
| 36 | L | – |
| 37 | P | – |
| 38 | P | – |
| 39 | Y | – |
| 40 | SB | – |
| 44 | L | – |
| 45 | GR | – |
| 46 | LG | – |
| 47 | SB | – |
| 48 | BG | – |
| 49 | R | – |
| 50 | L | – |
| 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 | – |

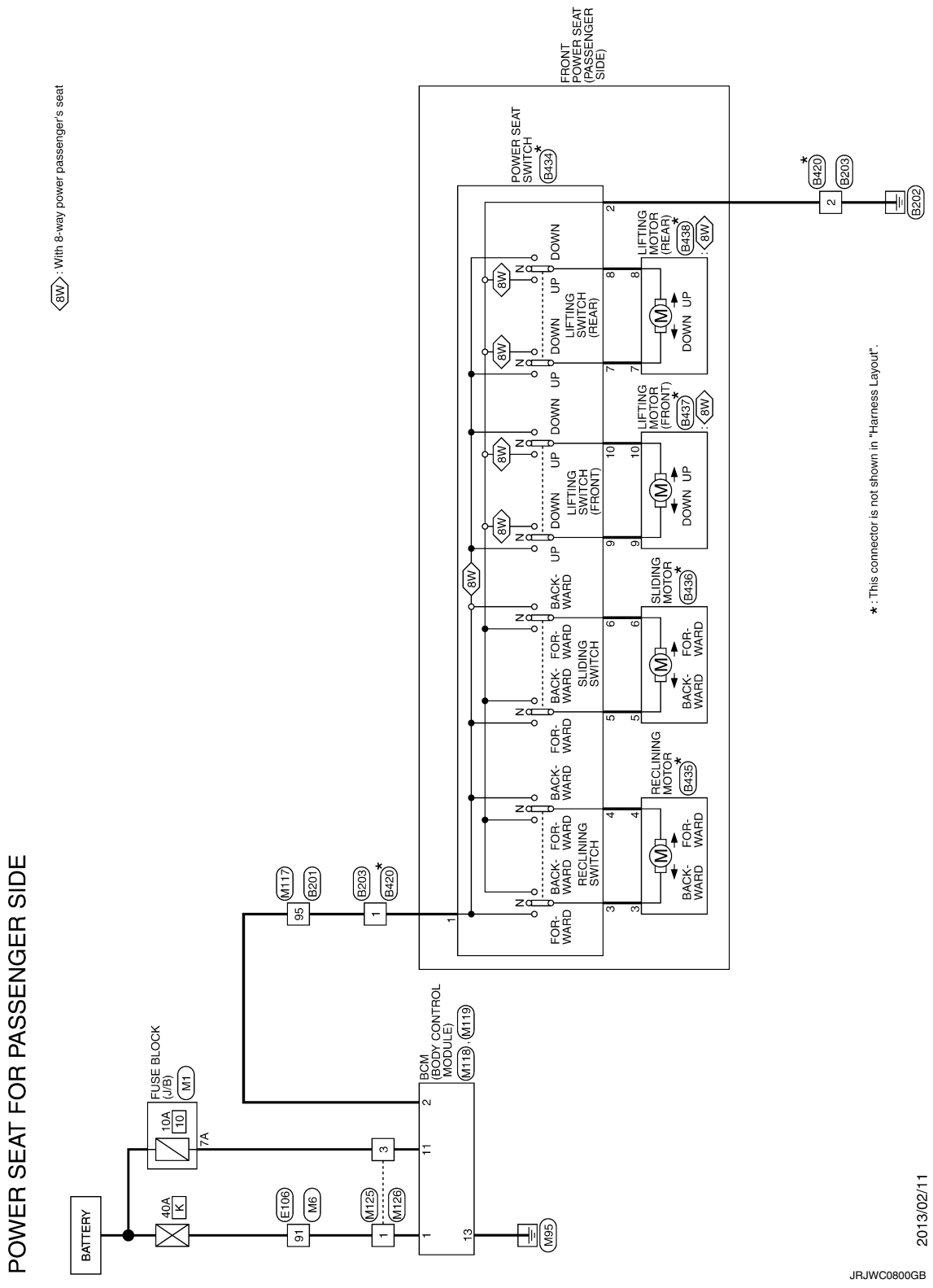
JRJWD2723GB

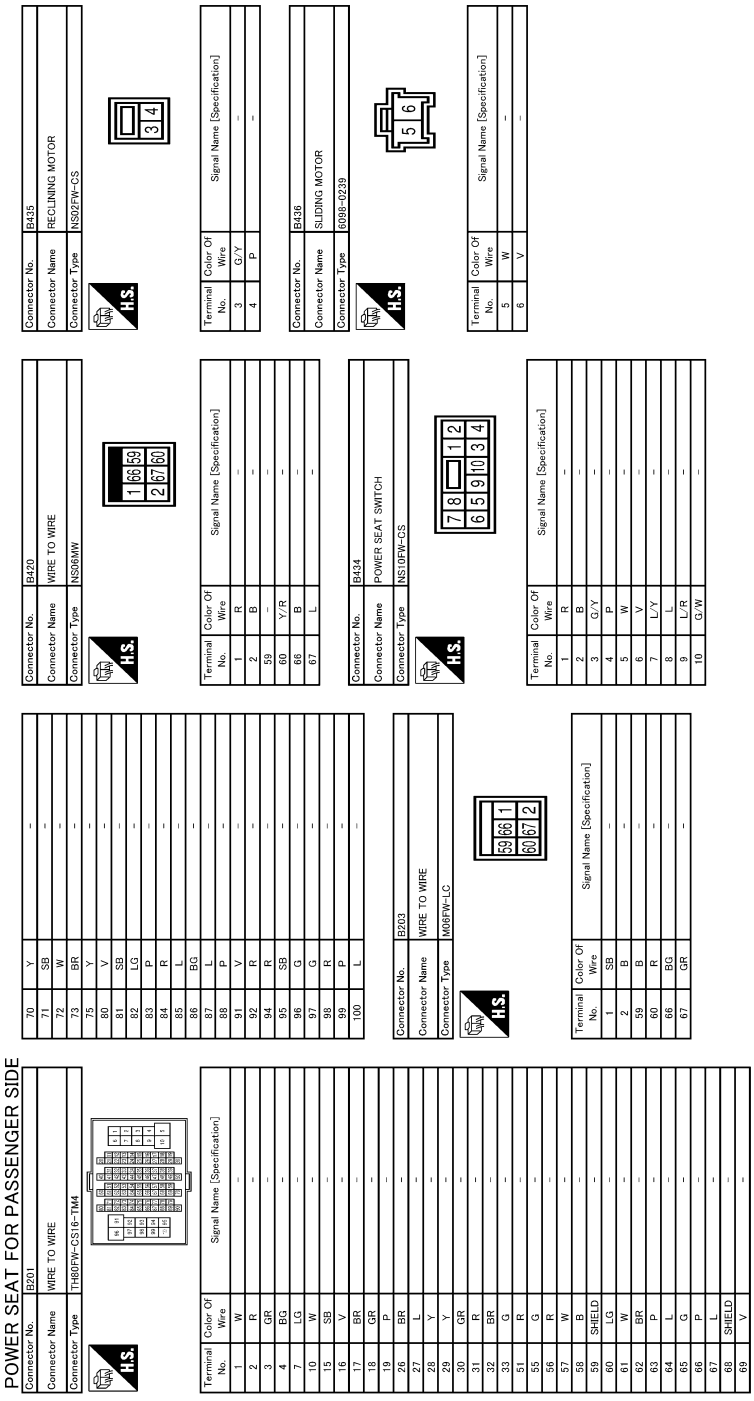



JRJWD2724GB

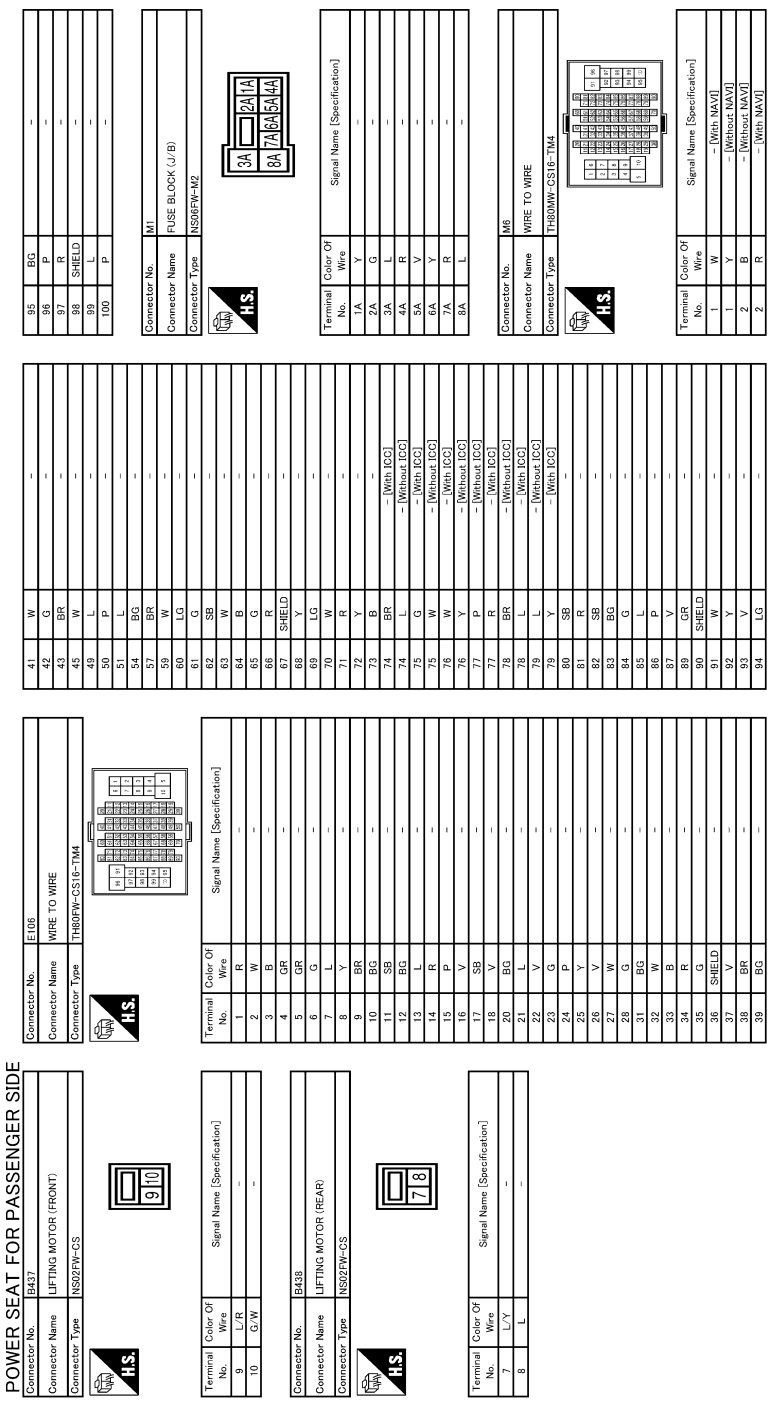
## Wiring Diagram - POWER SEAT FOR PASSENGER SIDE -

INFOID:0000000012173786






JRJWD2725GB



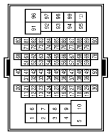

JRJWD2726GB

POWER SEAT FOR PASSENGER SIDE

| | | |
|---|---|---|
| 3 | B | – [With NAVI] |
| 3 | G | – [Without NAVI] |
| 4 | SHIELD | – |
| 5 | G | – |
| 6 | R | – |
| 7 | W | – |
| 8 | Y | – |
| 9 | BR | – |
| 10 | R | – |
| 11 | BR | – |
| 12 | BG | – |
| 13 | L | – |
| 14 | R | – |
| 15 | P | – |
| 16 | V | – |
| 17 | SB | – |
| 18 | Y | – |
| 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. | M117 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80MW-CS16-TM4 |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1 | L | – |
| 2 | G | – |
| 3 | GR | – |
| 4 | SB | – |
| 7 | W | – |
| 10 | W | – |
| 15 | SB | – |
| 16 | V | – |
| 17 | BR | – |
| 18 | GR | – |
| 19 | W | – |
| 26 | BR | – |
| 27 | LG | – |
| 28 | Y | – |
| 29 | Y | – |
| 30 | V | – |
| 31 | R | – |
| 32 | BR | – |
| 33 | G | – |
| 51 | R | – |
| 55 | W | – |
| 56 | B | – |
| 57 | R | – |
| 58 | G | – |
| 59 | SHIELD | – |
| 60 | V | – |
| 61 | LG | – |
| 62 | BR | – |
| 63 | L | – |
| 64 | LG | – |
| 65 | B | – |
| 66 | R | – |
| 67 | W | – |
| 68 | SHIELD | – |
| 69 | V | – |
| 70 | Y | – |

| | | |
|---|---|---|
| 71 | SB | – |
| 72 | W | – |
| 73 | G | – |
| 75 | W | – |
| 80 | V | – |
| 81 | SB | – |
| 82 | V | – |
| 83 | P | – |
| 84 | R | – |
| 85 | L | – |
| 86 | BG | – |
| 87 | L | – |
| 88 | P | – |
| 91 | V | – |
| 92 | G | – |
| 94 | G | – |
| 95 | W | – |
| 96 | G | – |
| 97 | Y | – |
| 98 | BR | – |
| 99 | P | – [Without BOSE system] |
| 99 | V | – [With BOSE system] |
| 100 | L | – [Without BOSE system] |
| 100 | SB | – [With BOSE system] |

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

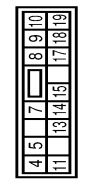
| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1 | W | BAT (F/L) |
| 2 | W | POWER WINDOW POWER SUPPLY(BAT) |
| 3 | Y | POWER WINDOW POWER SUPPLY(RAP) |

JRJWD2727GB

POWER SEAT FOR PASSENGER SIDE

| 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 (F-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 |

| Connector No. | M125 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | M03FW-LC |

H.S.

| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1 | W | - |
| 2 | Y | - |
| 3 | R | - |

| Connector No. | M126 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | M03MW-LC |

H.S.

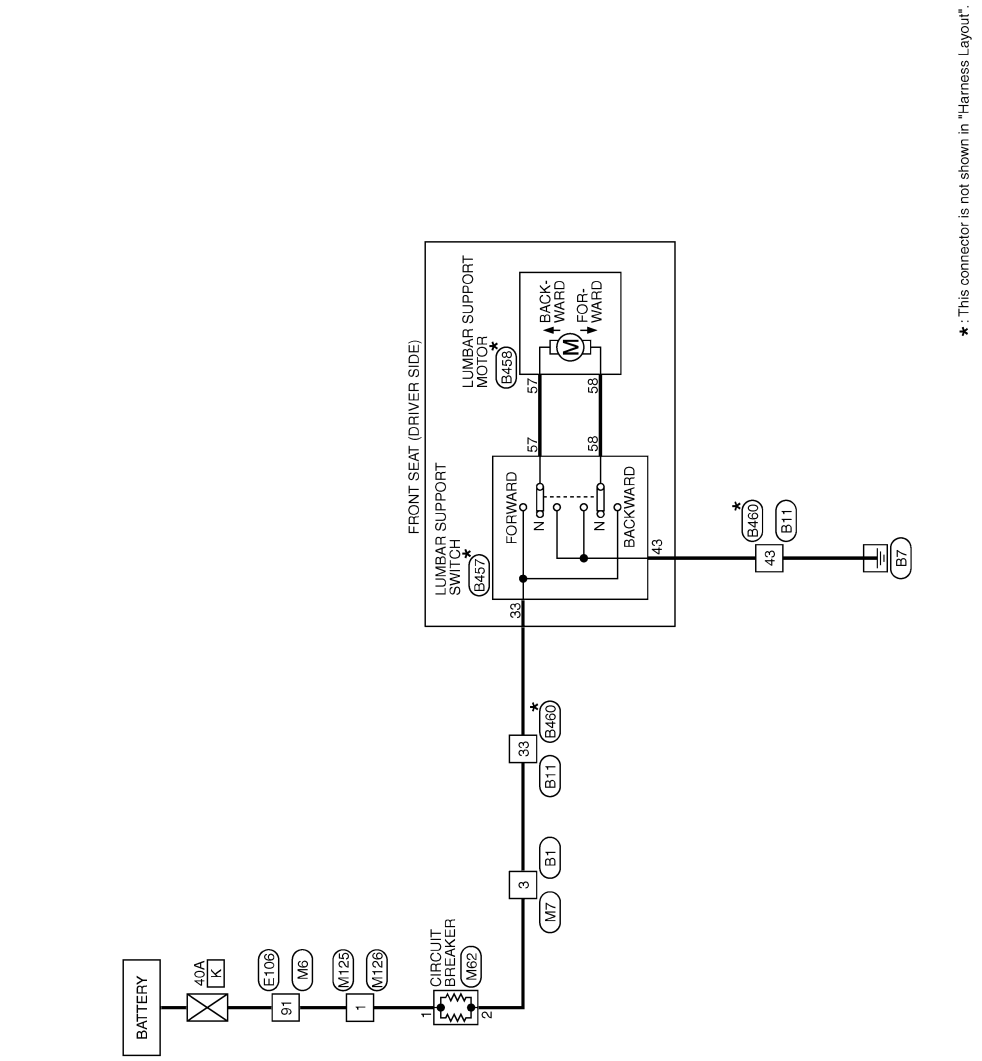
| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1 | W | - |
| 2 | Y | - |
| 3 | R | - |

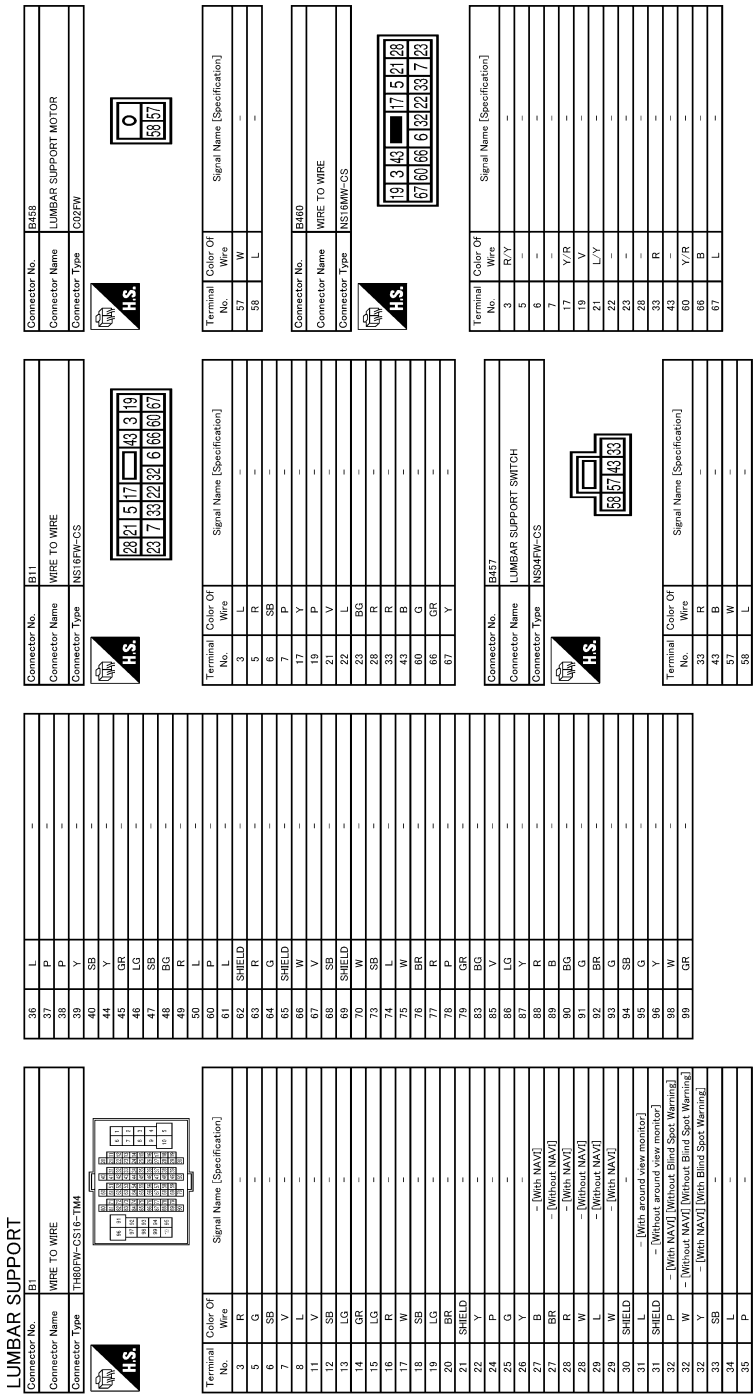
JRJWD2728GB

# LUMBAR SUPPORT

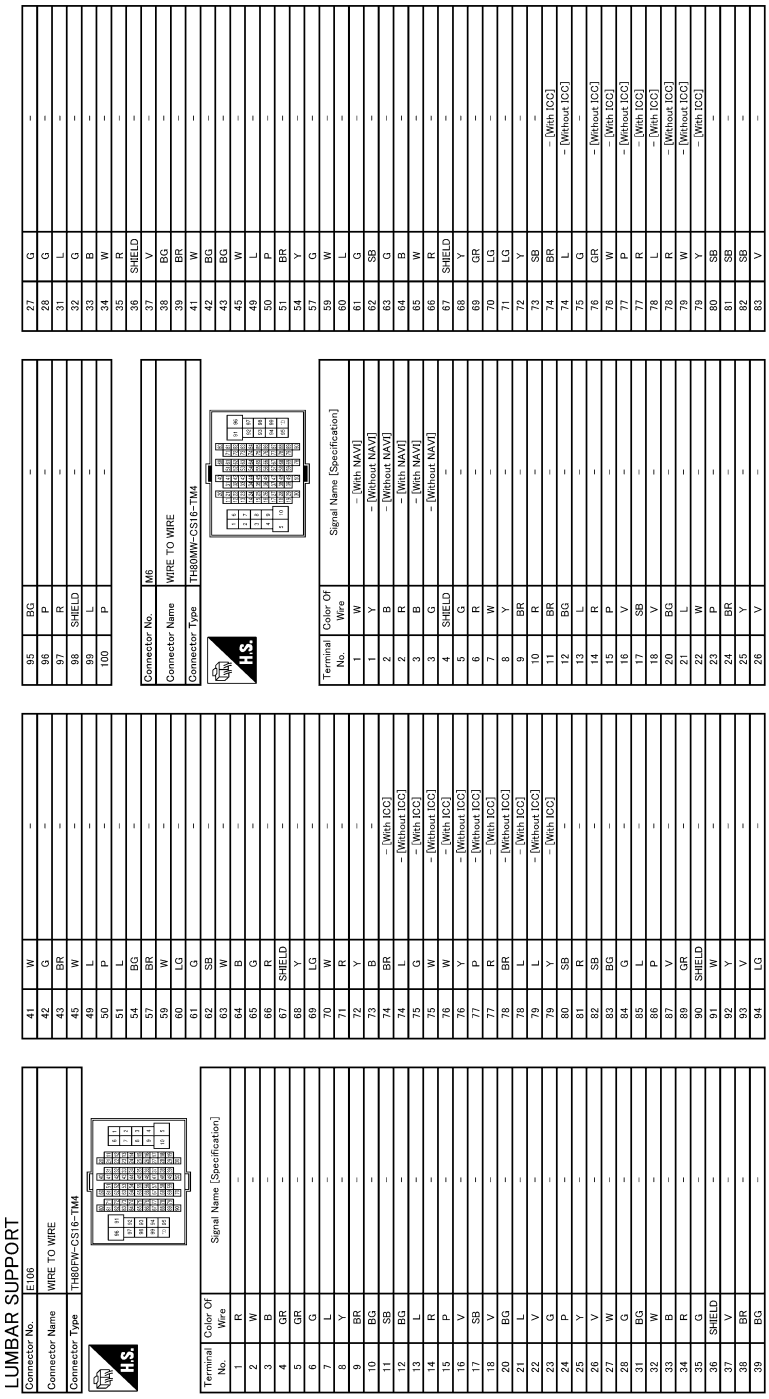
## Wiring Diagram - LUMBAR SUPPORT SYSTEM -

INFOID:0000000012173787

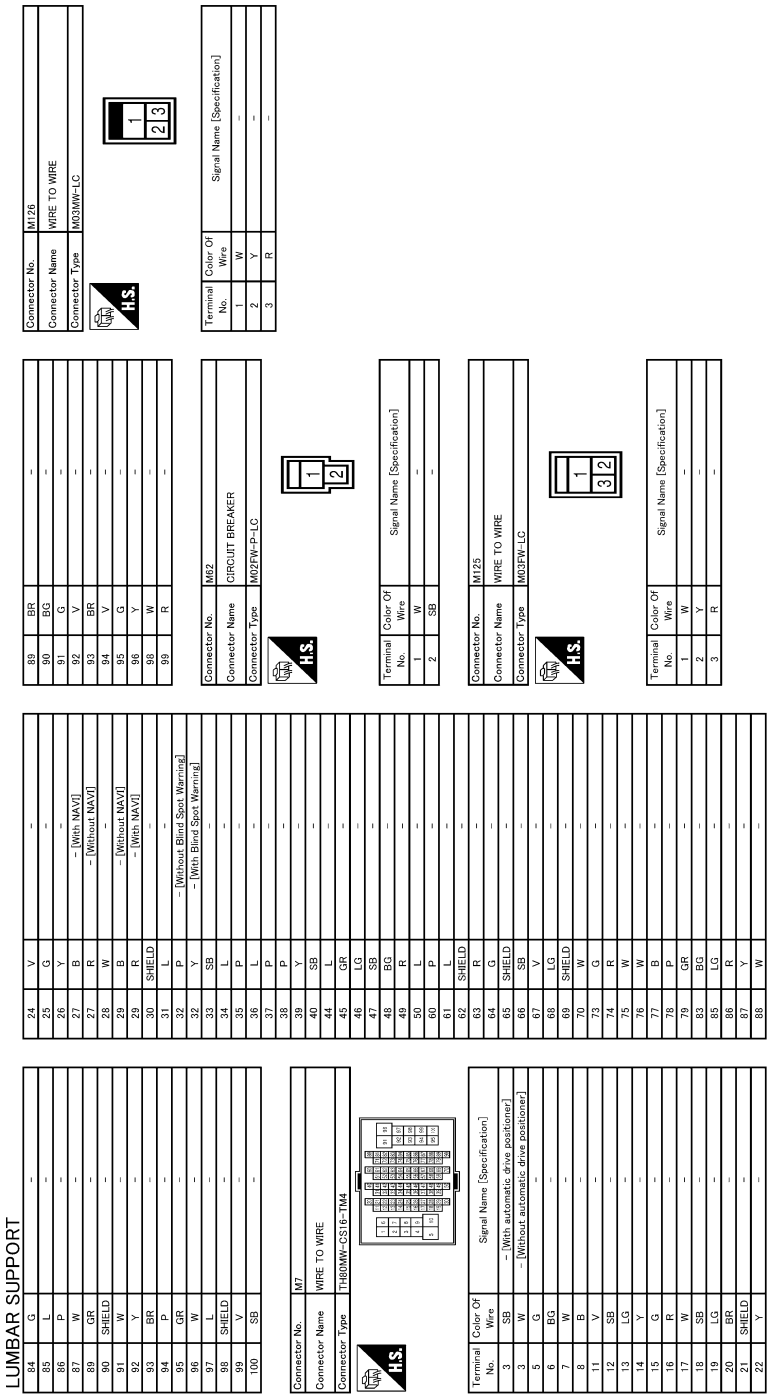





JRJWD2729GB




JRJWD2730GB

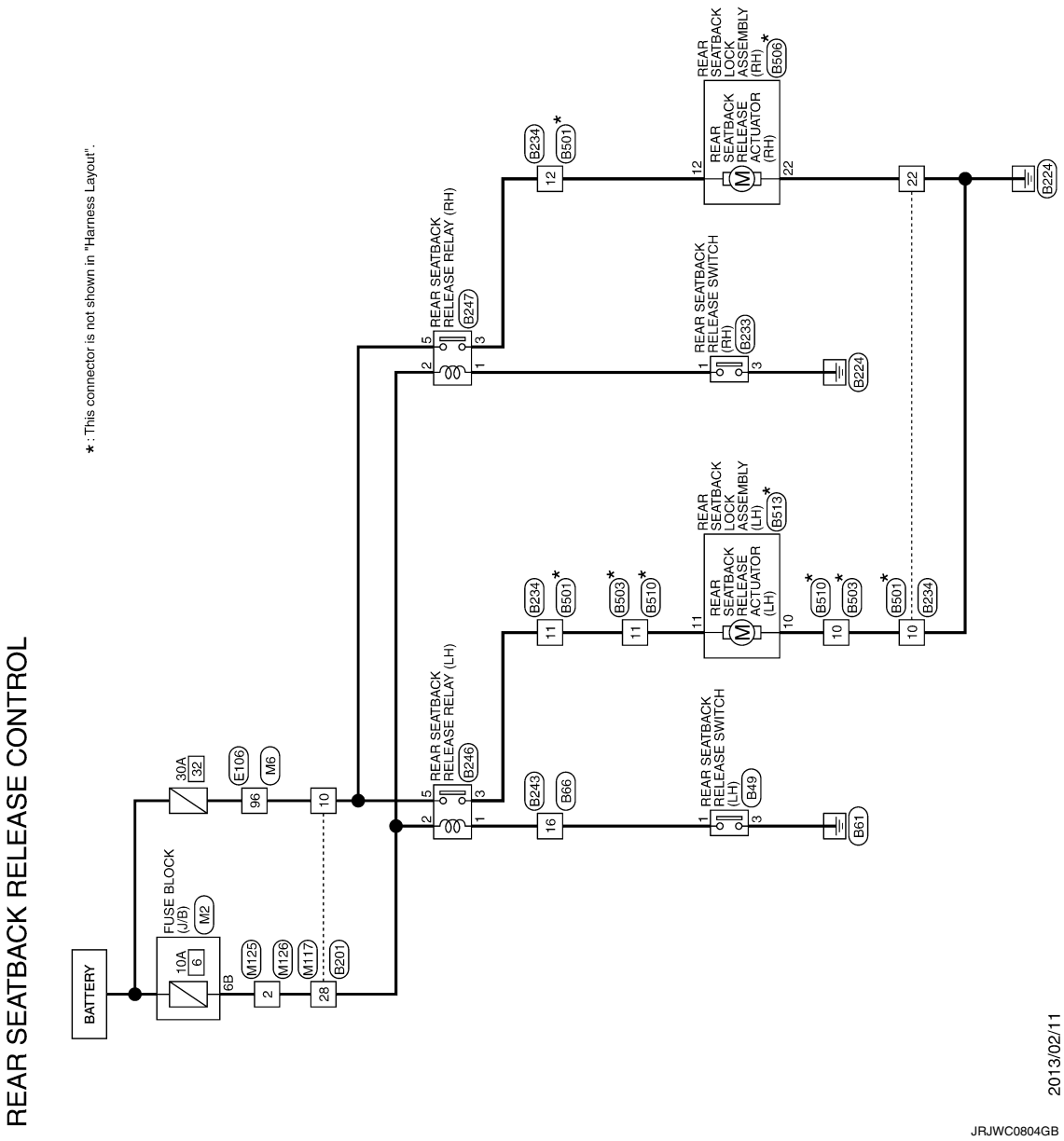


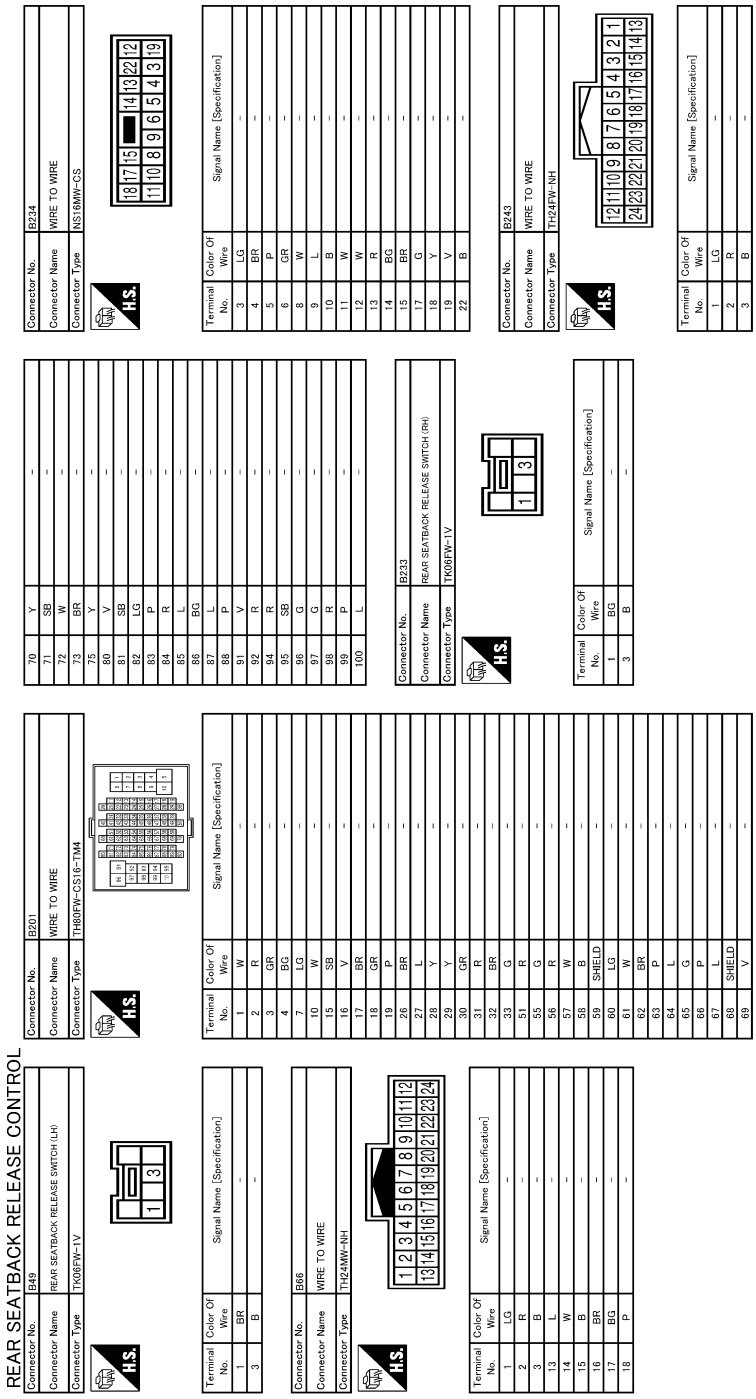

JRJWD2731GB

# REAR SEATBACK RELEASE CONTROL

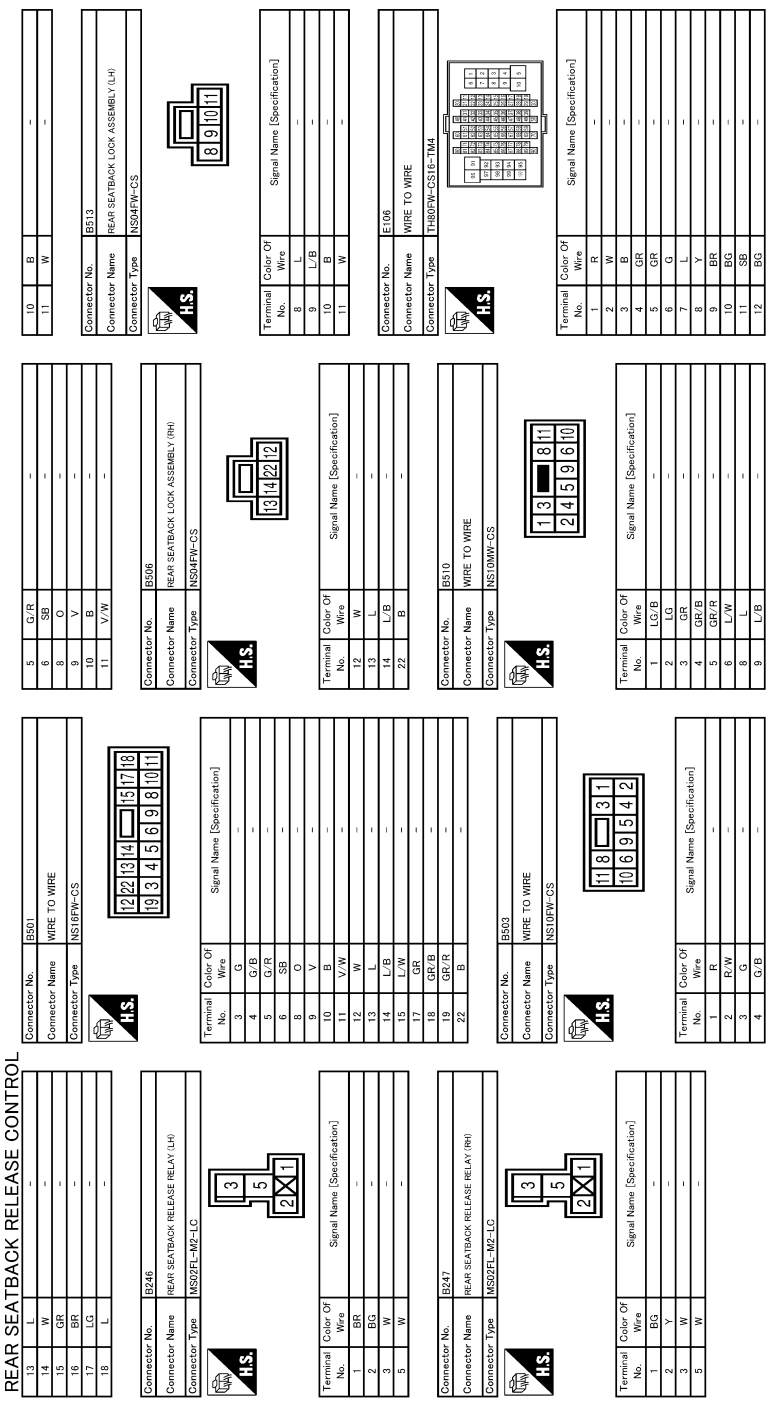
## Wiring Diagram - REAR SEATBACK RELEASE CONTROL -

INFOID:0000000012173788

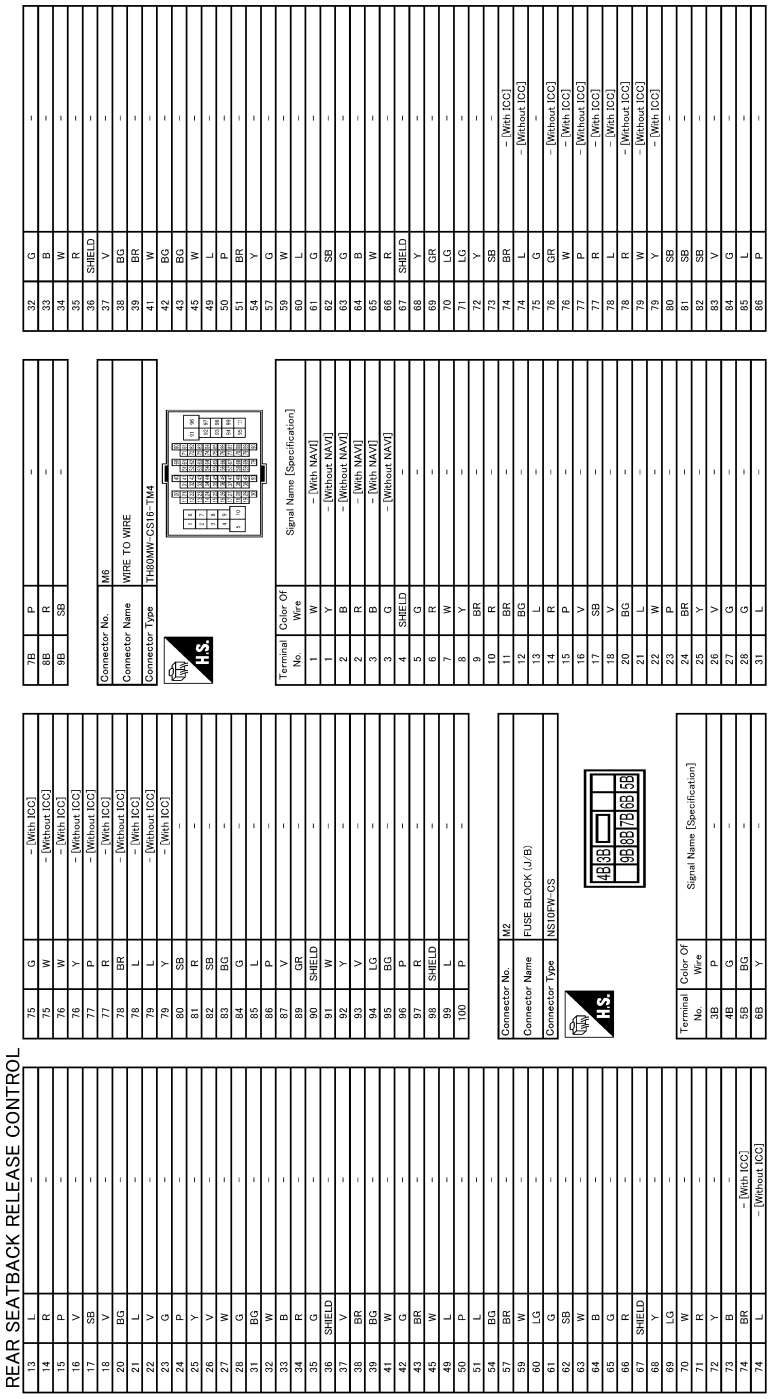




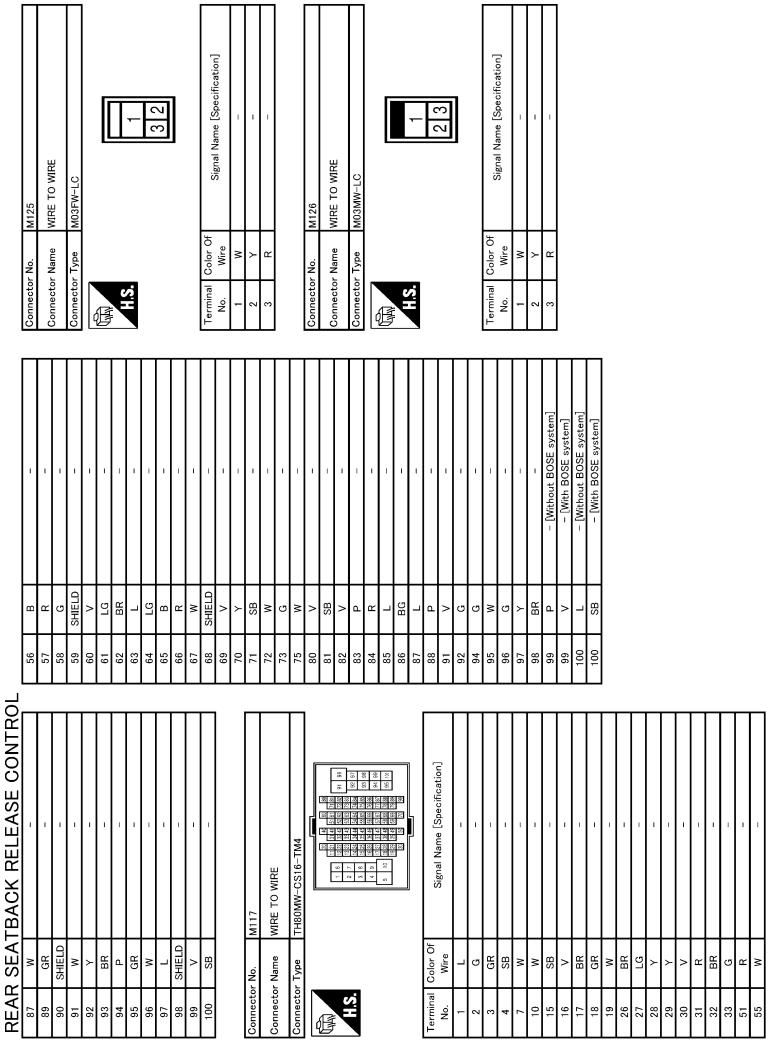

JRJWD2748GB




JRJWD2749GB




JRJWD2750GB




JRJWD2751GB

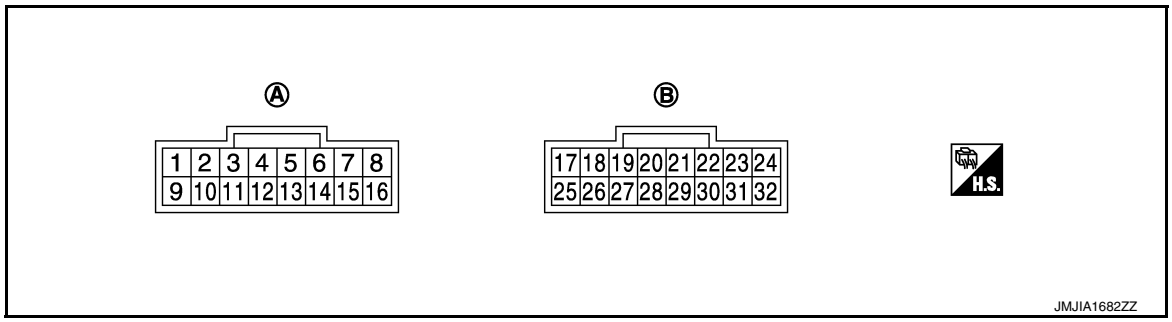
# ECU DIAGNOSIS INFORMATION

## REAR SEAT BACK POWER RETURN CONTROL UNIT

### Reference Value

INFOID:0000000012173789

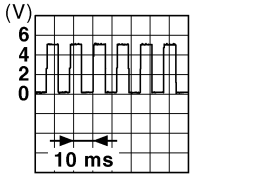
TERMINAL LAYOUT

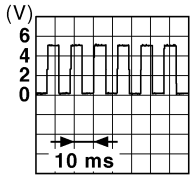
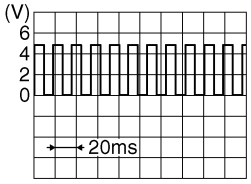



A. B227 B. B226

PHYSICAL VALUES

Rear seat back power return control unit

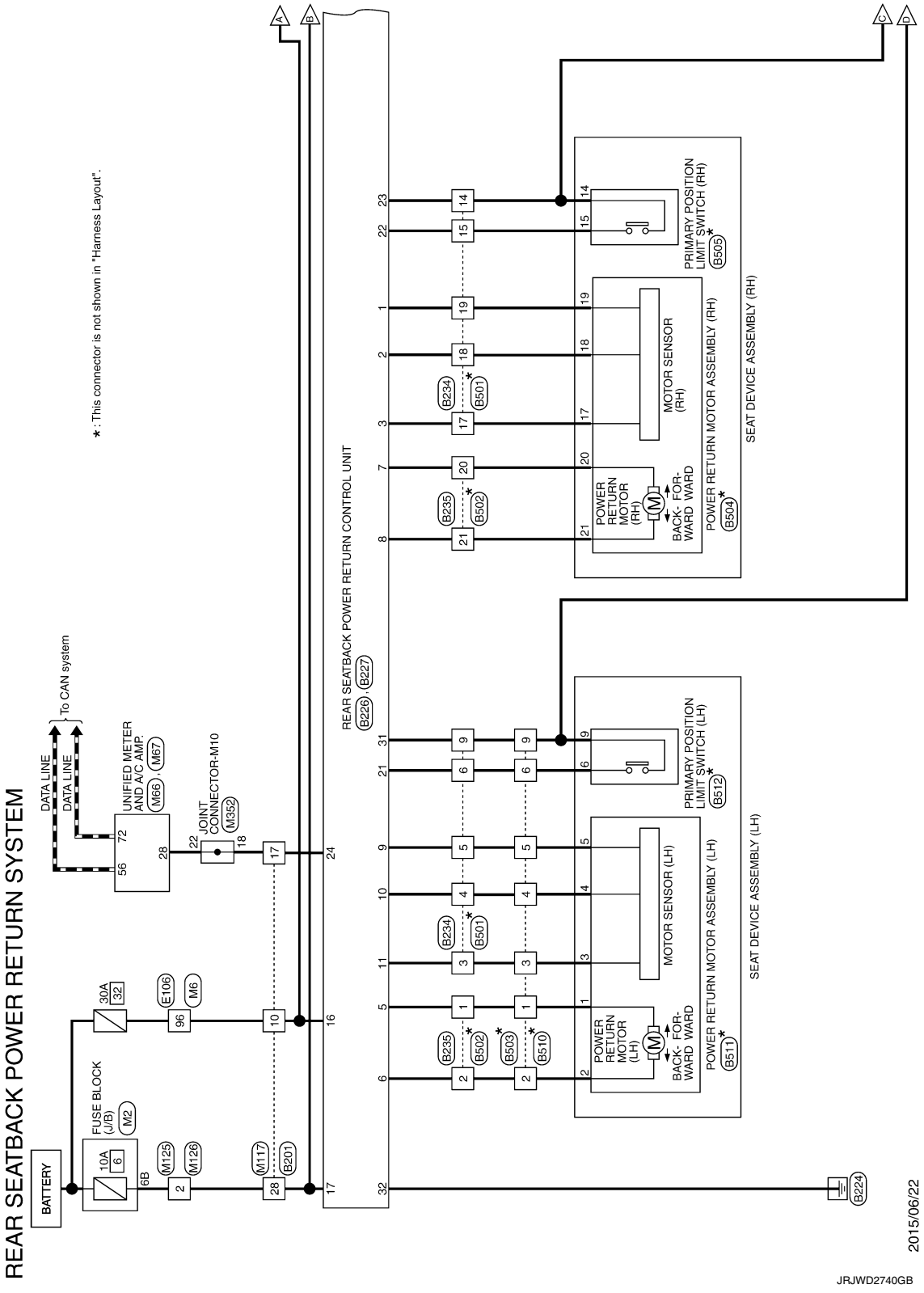
| Terminal No. (Wire color) | | Description | | Condition | Voltage (V) (Approx.) |
|---|---|---|---|---|---|
| (+) | (–) | Signal name | Input/ Output | | |
| 1 (V) | Ground | Ground (Motor sensor RH) | — | — | 0 |
| 2 (Y) | Ground | Motor sensor (RH) input signal | Input | When the power return motor (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 |

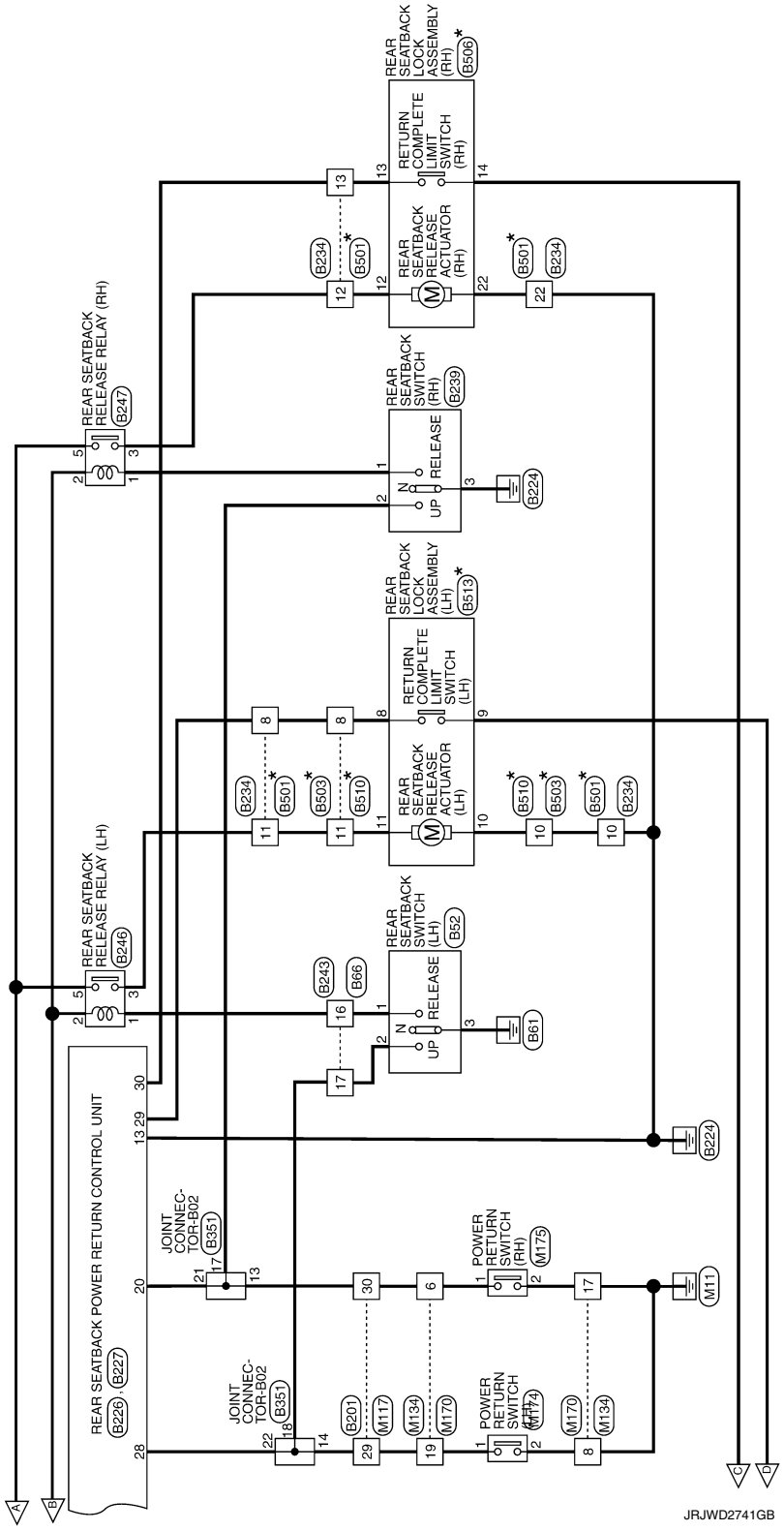
| Terminal No. (Wire color) | | Description | | Condition | Voltage (V) (Approx.) |
|---|---|---|---|---|---|
| (+) | (–) | Signal name | Input/ Output | | |
| 10 (BR) | Ground | Motor sensor (LH) input signal | Input | When the power return motor (LH) is operated |   JMKIA0070GB |
| | | | | When the 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 |

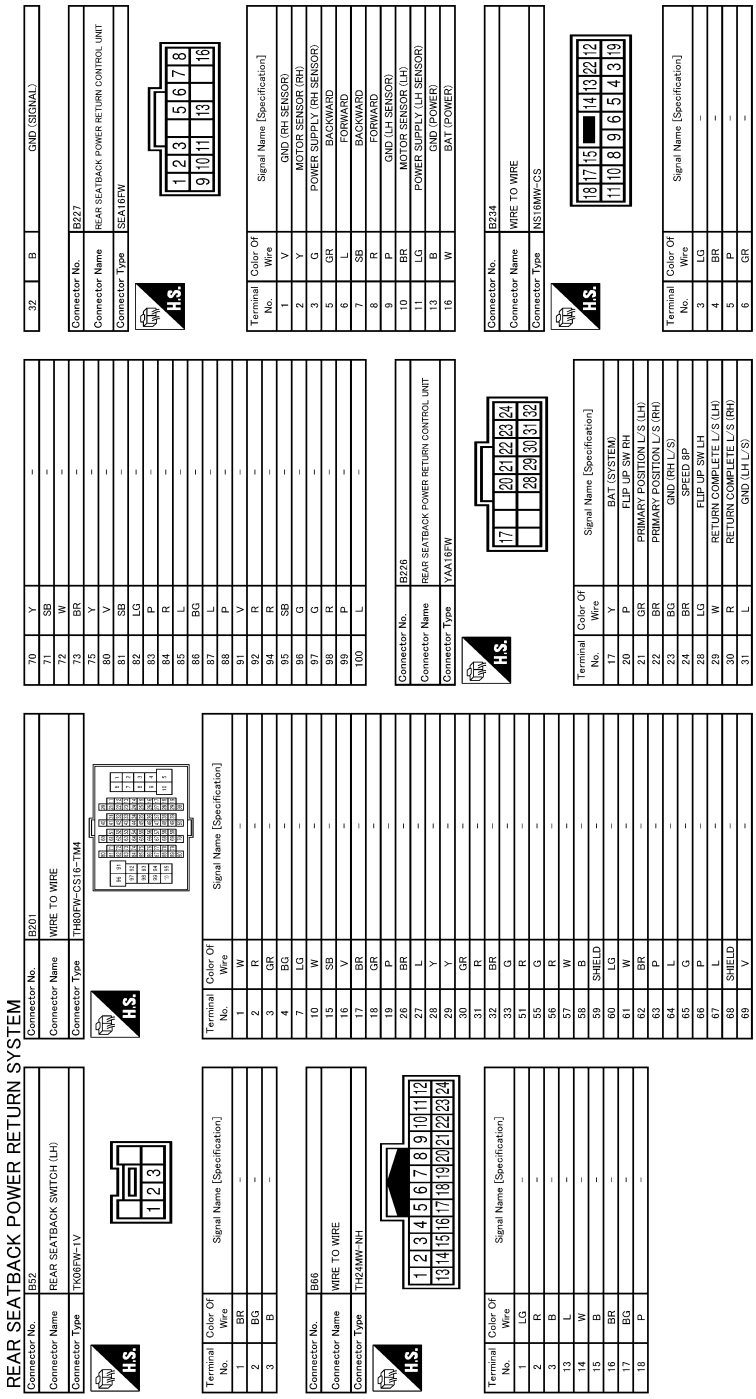
| Terminal No. (Wire color) | | Description | | Condition | Voltage (V) (Approx.) |
|---|---|---|---|---|---|
| (+) | (–) | Signal name | Input/ Output | | |
| 30 (R) | Ground | Return complete limit switch (RH) input signal | Input | When the rear seatback (RH) is in the return completion position (other 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 -

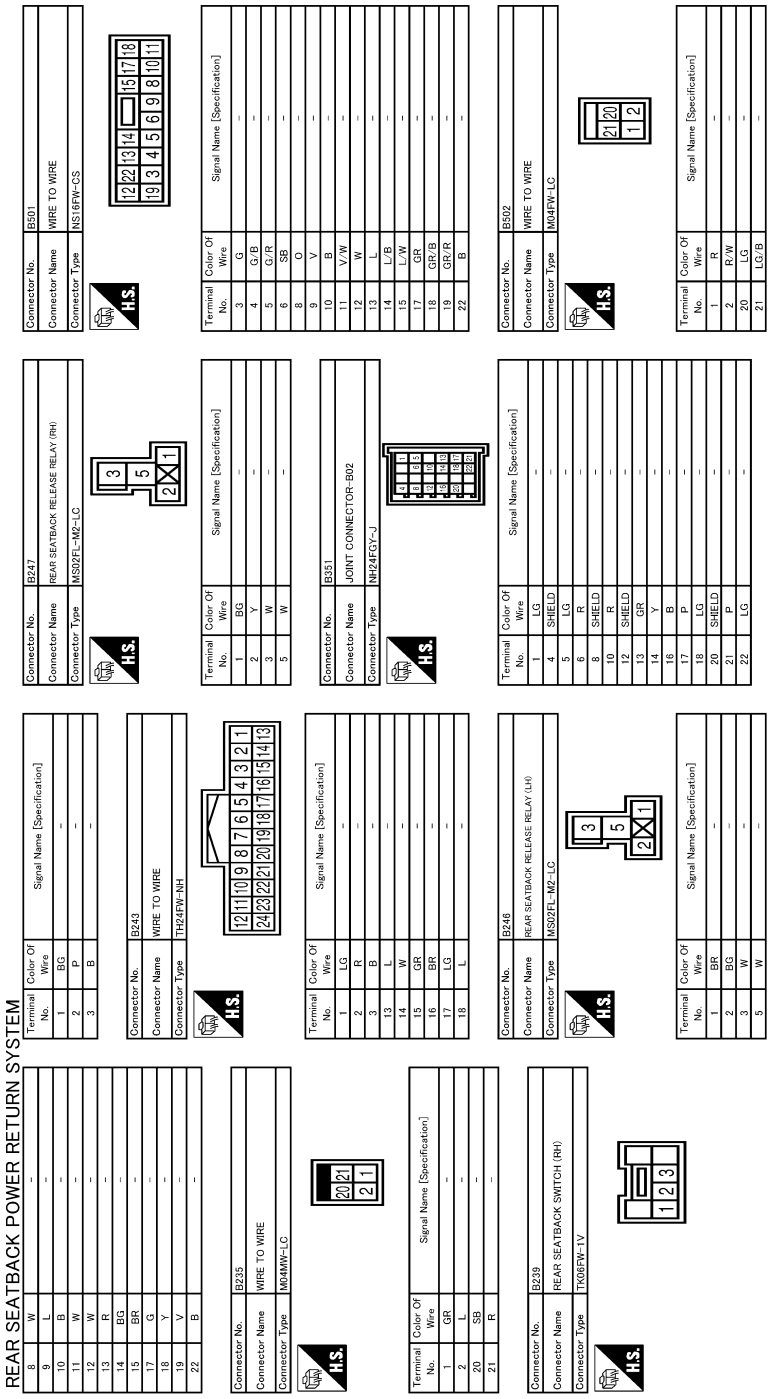
INFOID:0000000012173790




REAR SEATBACK LOCK ASSEMBLY (RH) B506
RETURN COMPLETE LIMIT SWITCH (RH)
REAR SEATBACK RELEASE ACTUATOR (RH)
REAR SEATBACK RELEASE RELAY (RH) B247
REAR SEATBACK SWITCH (RH) B239
RELEASE
UP
N
REAR SEATBACK LOCK ASSEMBLY (LH) B513
RETURN COMPLETE LIMIT SWITCH (LH)
REAR SEATBACK RELEASE ACTUATOR (LH)
REAR SEATBACK RELEASE RELAY (LH) B246
REAR SEATBACK SWITCH (LH) B52
REAR SEATBACK POWER RETURN CONTROL UNIT
B226 B227
JOINT CONNEC-TOR-B02 B351
POWER RETURN SWITCH (RH) M175
POWER RETURN SWITCH (LH) M174
B224 B61 M11
JRJWD2741GB

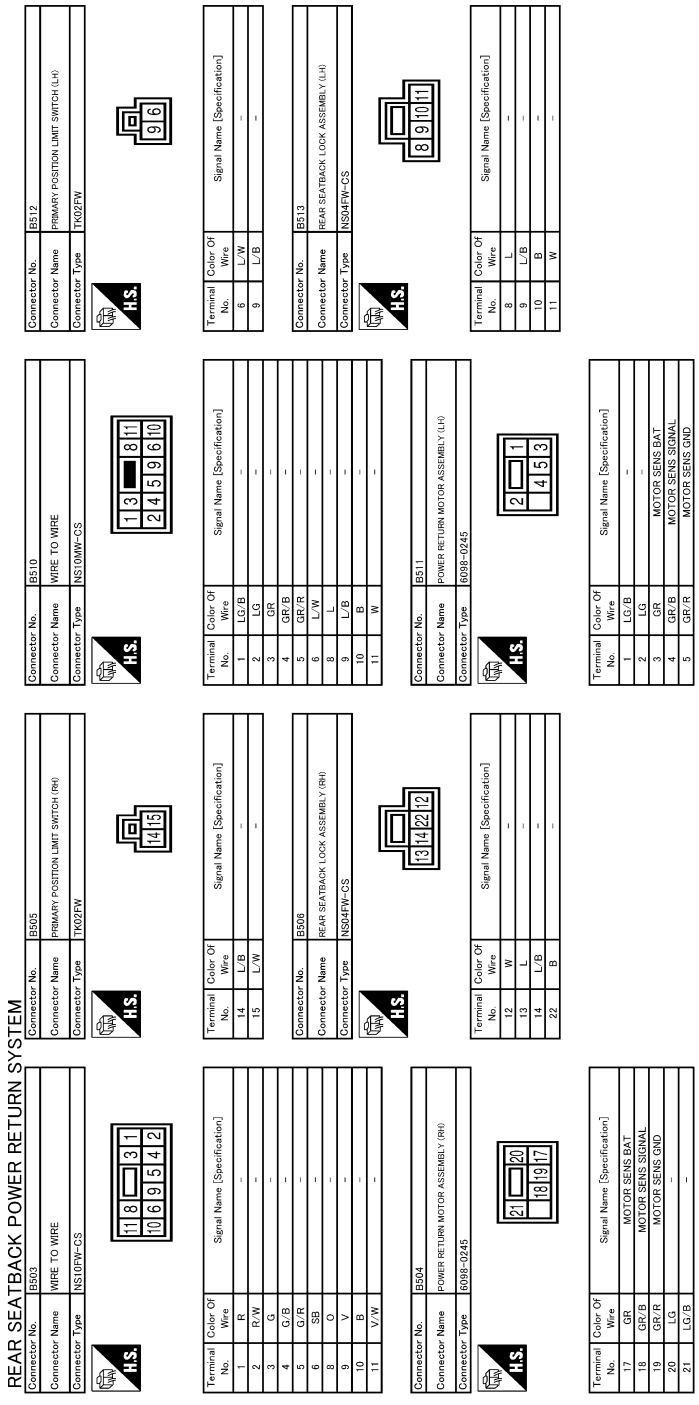



JRJWD2742GB

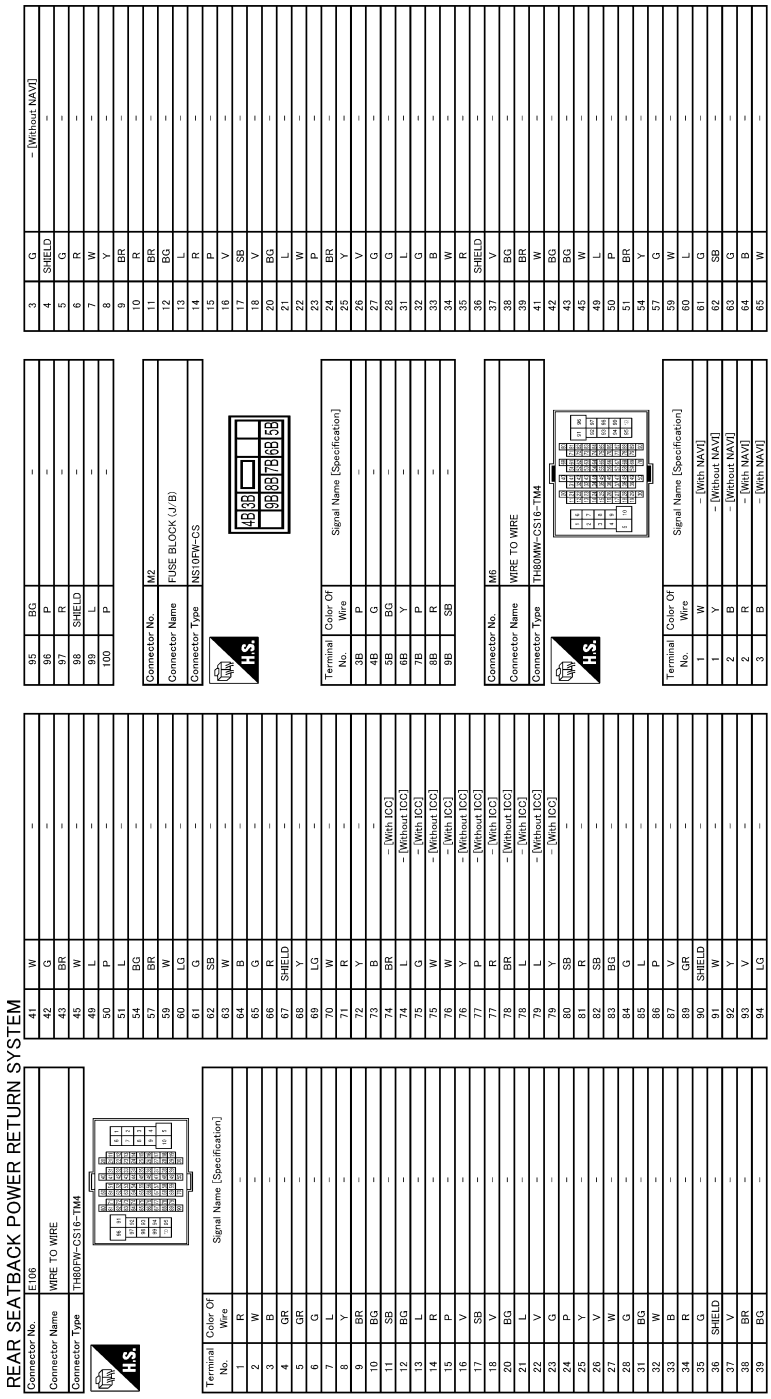



JRJWD2743GB

REAR SEATBACK POWER RETURN SYSTEM




JRJWD2744GB

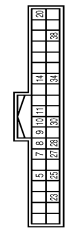



JRJWD2745GB

REAR SEATBACK POWER RETURN SYSTEM

| | | |
|---|---|---|
| 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. | M66 |
| Connector Name | UNIFIED METER AND A/C AMP. |
| Connector Type | TH40FW-NH |



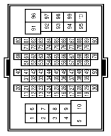
| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 5 | L | MANUAL MODE SHIFT UP SIGNAL |
| 7 | GR | COMMUNICATION SIGNAL (AMP.->METER) |
| 8 | L | VEHICLE SPEED SIGNAL (2-PULSE) |
| 9 | SB | SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE) |
| 10 | W | MANUAL MODE SIGNAL |
| 11 | G | NON-MANUAL MODE SIGNAL |
| 14 | BR | COMMUNICATION SIGNAL (LCD->AMP.) |
| 20 | L | IGN ON/OFF SIGNAL |
| 23 | Y | AT SNOW SWITCH SIGNAL |
| 25 | V | MANUAL MODE SHIFT DOWN SIGNAL |
| 27 | LG | COMMUNICATION SIGNAL (METER->AMP.) |
| 28 | R | VEHICLE SPEED SIGNAL (8-PULSE) |
| 30 | V | PARKING BRAKE SWITCH SIGNAL |
| 34 | Y | COMMUNICATION SIGNAL (AMP.->LCD) |
| 38 | P | BLOWER MOTOR CONTROL SIGNAL |

| | |
|---|---|
| Connector No. | M67 |
| Connector Name | UNIFIED METER AND A/C AMP. |
| Connector Type | TH32FW-NH |



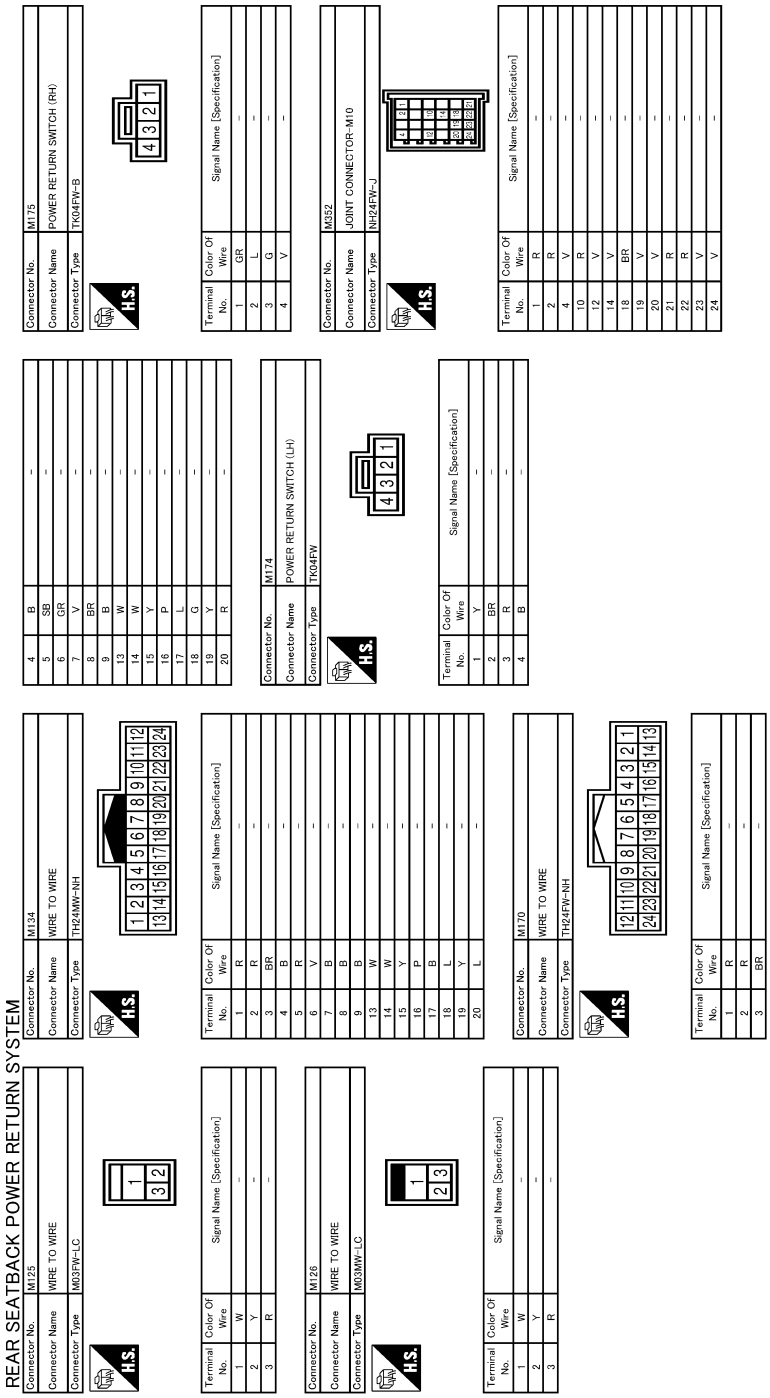
| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 41 | V | ACC POWER SUPPLY |
| 42 | Y | FUEL LEVEL SENSOR SIGNAL |
| 43 | R | INTAKE SENSOR SIGNAL |
| 44 | LG | IN-VEHICLE SENSOR SIGNAL |
| 45 | P | AMBIENT SENSOR SIGNAL |
| 46 | BG | SUNLOAD SENSOR SIGNAL |
| 47 | G | EXHAUST GAS / OUTSIDE ODOR DETECTING SENSOR SIGNAL |
| 53 | G | IGNITION POWER SUPPLY |
| 54 | Y | BATTERY POWER SUPPLY |
| 55 | B | GROUND |
| 56 | L | CAN-H |
| 57 | W | BRAKE FLUID LEVEL SWITCH SIGNAL |
| 58 | BR | FUEL LEVEL SENSOR GROUND |
| 59 | GR | INTAKE SENSOR GROUND |
| 60 | L | IN-VEHICLE SENSOR GROUND |
| 61 | BR | AMBIENT SENSOR GROUND |
| 62 | SB | SUNLOAD SENSOR GROUND |
| 63 | R | – |
| 65 | BG | ECV SIGNAL |
| 69 | L | A/C LAN SIGNAL |
| 70 | R | EACH DOOR MOTOR POWER SUPPLY |
| 71 | B | GROUND |
| 72 | P | CAN-L |

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



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1 | L | – |
| 2 | G | – |
| 3 | GR | – |
| 4 | SB | – |
| 7 | W | – |
| 10 | W | – |
| 15 | SB | – |
| 16 | V | – |
| 17 | BR | – |
| 18 | GR | – |
| 19 | W | – |
| 26 | BR | – |
| 27 | LG | – |
| 28 | Y | – |
| 29 | Y | – |
| 30 | V | – |
| 31 | R | – |
| 32 | BR | – |
| 33 | G | – |
| 51 | R | – |
| 55 | W | – |
| 56 | B | – |
| 57 | R | – |
| 58 | G | – |
| 59 | SHIELD | – |
| 60 | V | – |
| 61 | LG | – |
| 62 | BR | – |
| 63 | L | – |
| 64 | LG | – |
| 65 | B | – |
| 66 | R | – |
| 67 | W | – |
| 68 | SHIELD | – |
| 69 | V | – |
| 70 | Y | – |
| 71 | SB | – |
| 72 | W | – |
| 73 | G | – |
| 75 | W | – |
| 80 | V | – |
| 81 | SB | – |
| 82 | V | – |
| 83 | P | – |
| 84 | R | – |
| 85 | L | – |
| 86 | BG | – |
| 87 | L | – |
| 88 | P | – |
| 91 | V | – |
| 92 | G | – |
| 94 | G | – |
| 95 | W | – |
| 96 | G | – |
| 97 | Y | – |
| 98 | BR | – |
| 99 | P | – [Without BOSE system]<br>– [With BOSE system] |
| 99 | V | – |
| 100 | L | – [Without BOSE system]<br>– [With BOSE system] |
| 100 | SB | – |

JRJWD2746GB




JRJWD2747GB

## Fail-safe

*INFOID:0000000012173791*

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

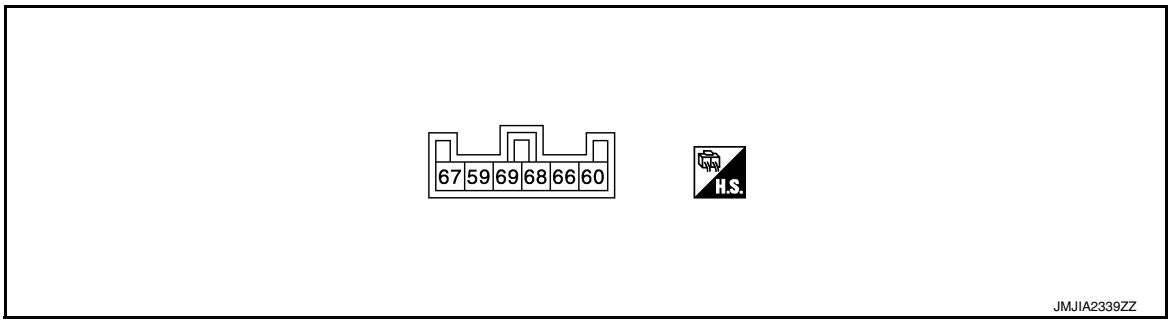
| Possible location of malfunction | Diagnosis mode | Corrective action |
|---|---|---|
| Return complete limit switch “ON” malfunction | The return completion position cannot be detected | Detect the lock with the rear seatback power return control unit, and then reverse the power return motor |
| Return complete limit switch “OFF” malfunction | The automatic return cannot be performed because the return completion position is mis-recognized | 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<br>* 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 mis-recognized<br>(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)<br>• The manual return operation can be performed |
| Sensor malfunction (fixed to High or Low) | The motor lock is mis-recognized 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<br>• The manual return operation can be performed |

# HEATED SEAT CONTROL UNIT

## Reference Value

INFOID:0000000012173792

### TERMINAL LAYOUT



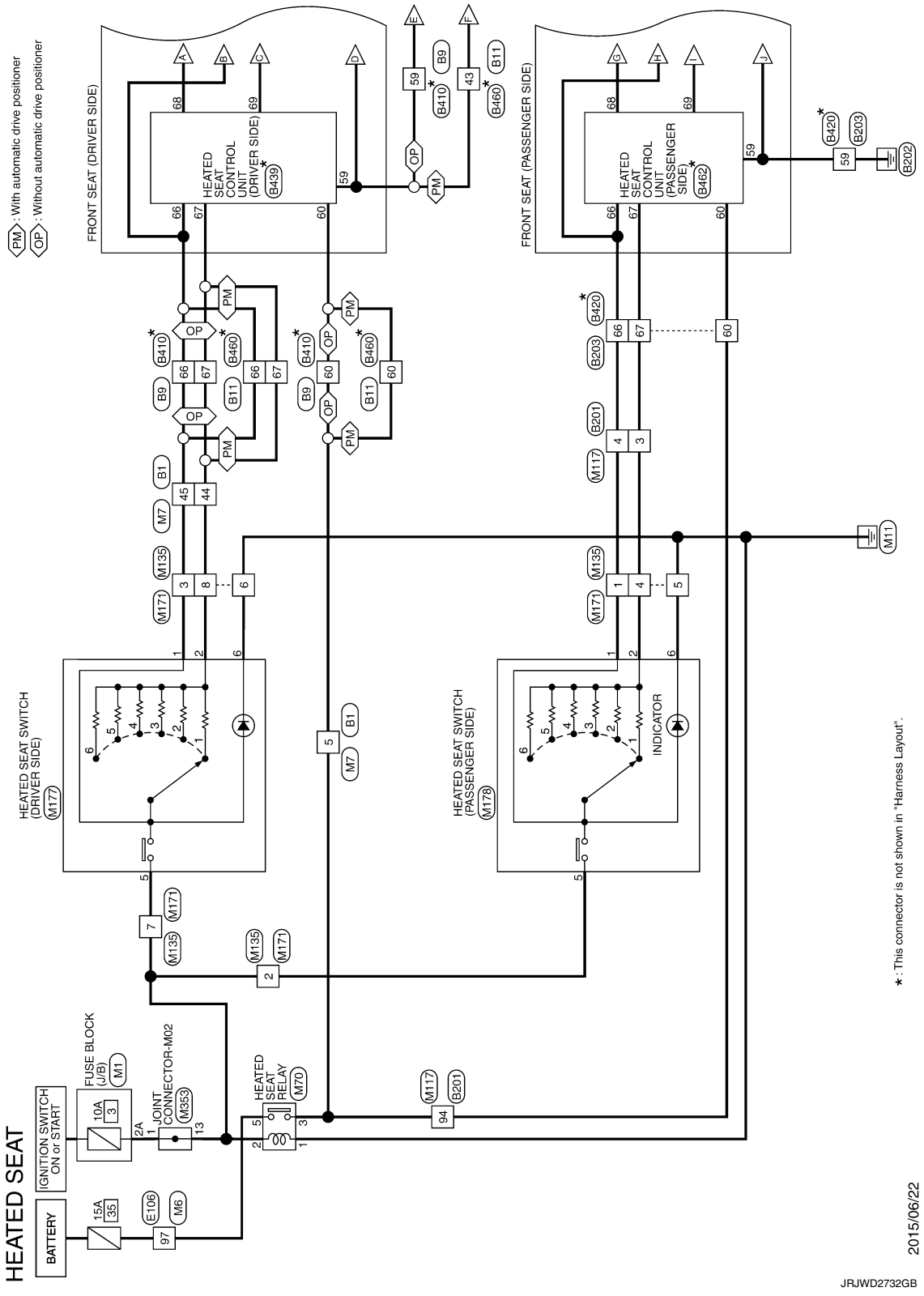

### PHYSICAL VALUES

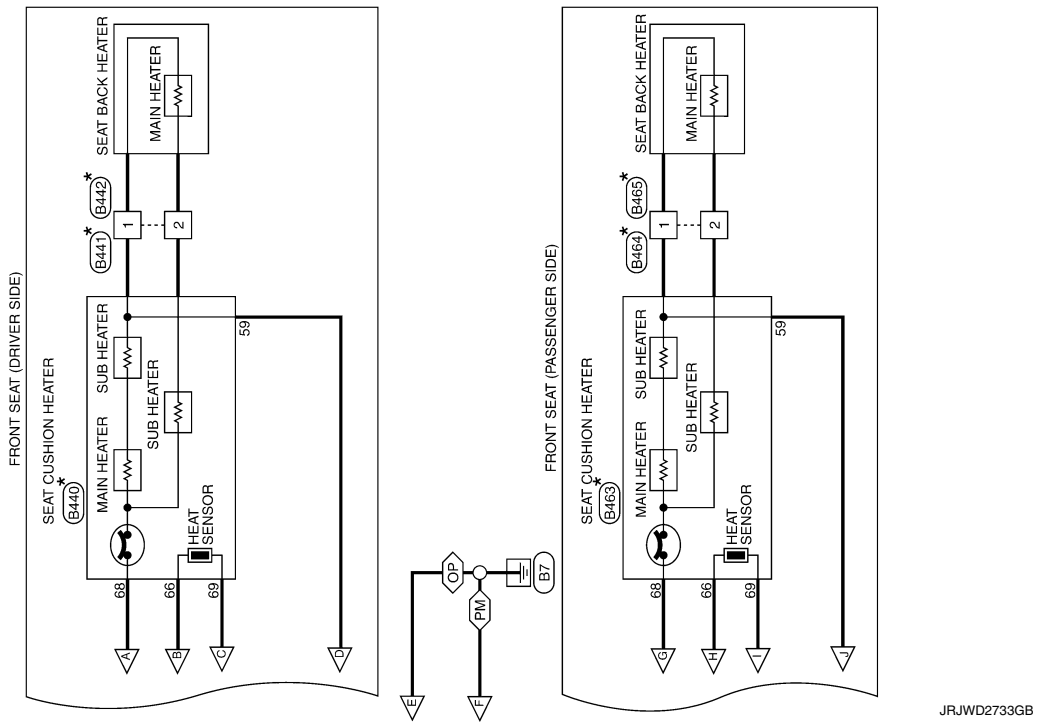
| Terminal No. (Wire color) | | Description | | Condition | | Voltage (V) (Approx.) |
|---|---|---|---|---|---|---|
| (+) | (–) | Signal name | Input/ Output | | | |
| 59 (Y) | Ground | Ground | – | – | | 0 |
| 60 (Y/R) | Ground | IGN power supply | Input | Ignition switch | OFF or ACC | 0 |
| | | | | | 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* |

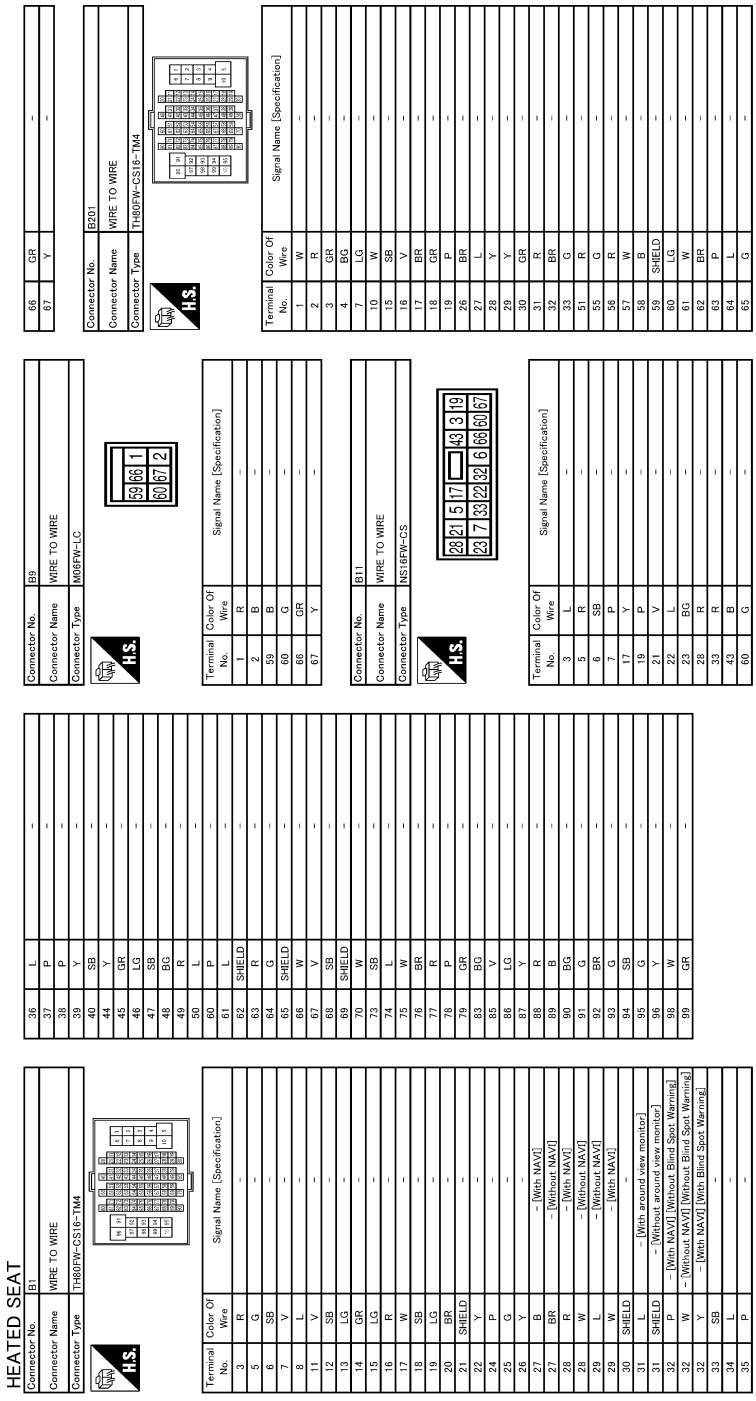
*: Voltage is repeated within the value shown as per the following list depending on heater unit temperature.

## Wiring Diagram - HEATED SEAT SYSTEM -

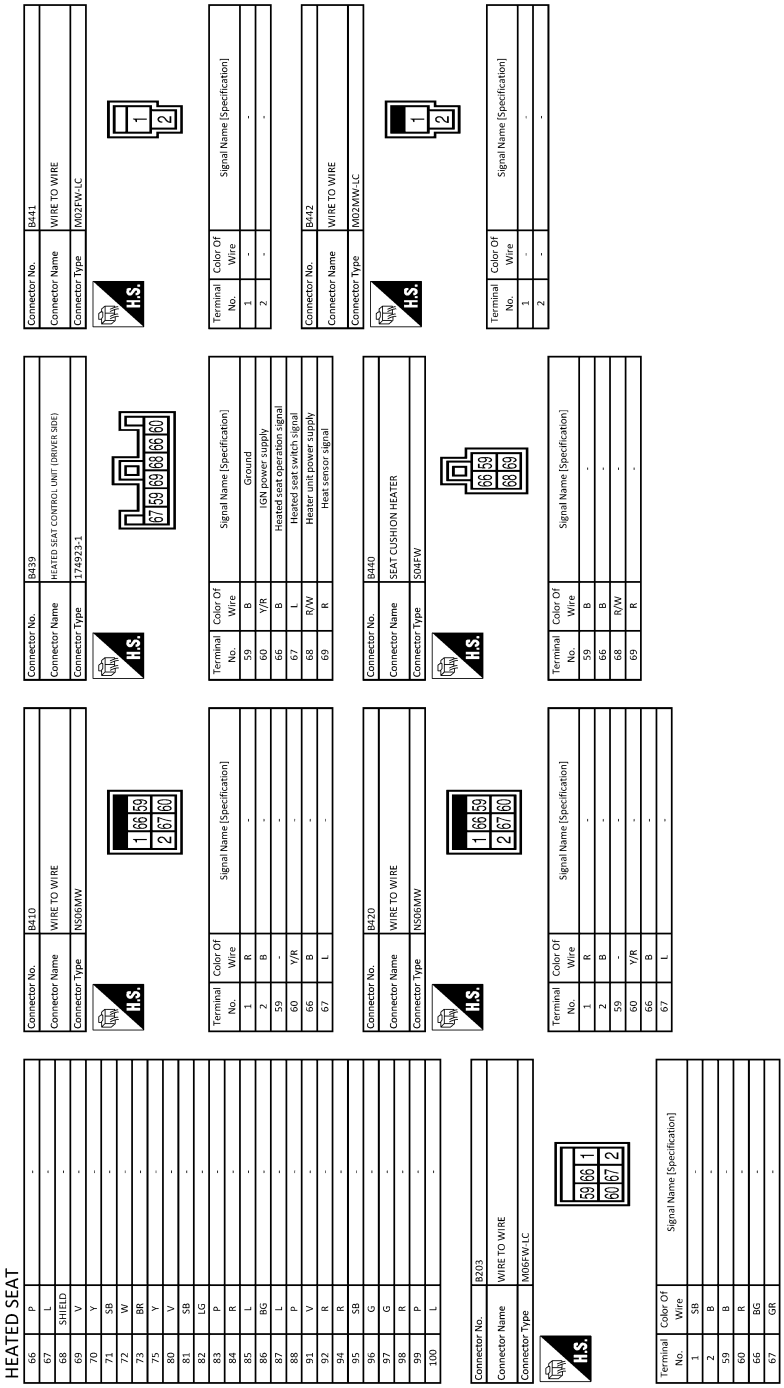
INFOID:0000000012173793



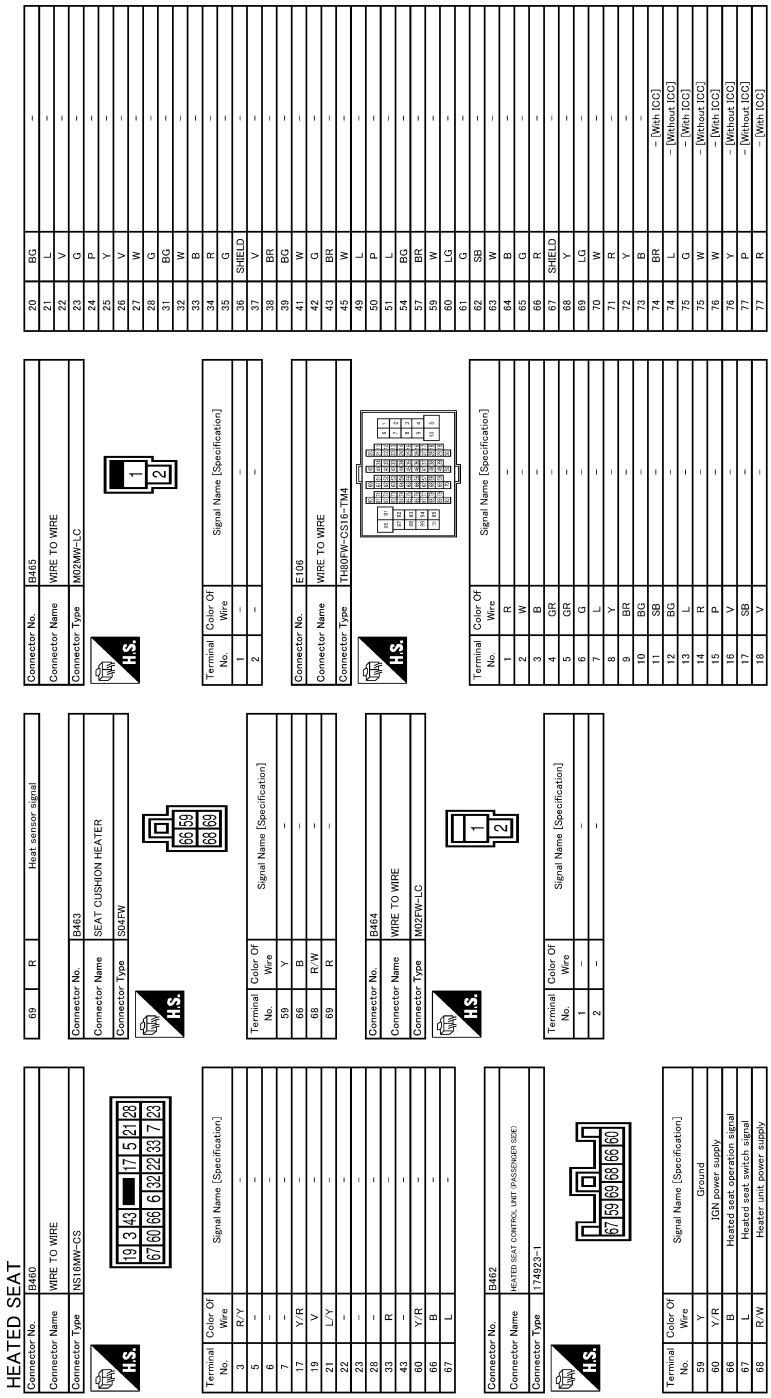

FRONT SEAT (DRIVER SIDE)
SEAT CUSHION HEATER
B440
MAIN HEATER
SUB HEATER
SUB HEATER
HEAT SENSOR
SEAT BACK HEATER
MAIN HEATER
B442
B441
1
2
59
68
66
69
A
B
C
D
OP
PM
B7
E
F
FRONT SEAT (PASSENGER SIDE)
SEAT CUSHION HEATER
B463
MAIN HEATER
SUB HEATER
SUB HEATER
HEAT SENSOR
SEAT BACK HEATER
MAIN HEATER
B465
B464
1
2
59
68
66
69
G
H
I
J
JRJWD2733GB




JRJWD2734GB




JRJWD4947GB

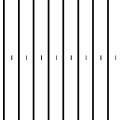



JRJWD2736GB

HEATED SEAT

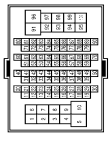
| | | |
|---|---|---|
| 78 | BR | – [Without ICC] |
| 78 | L | – [With ICC] |
| 79 | L | – [Without ICC] |
| 79 | Y | – [With ICC] |
| 80 | SB | – |
| 81 | R | – |
| 82 | SB | – |
| 83 | BG | – |
| 84 | G | – |
| 85 | L | – |
| 86 | P | – |
| 87 | V | – |
| 89 | GR | – |
| 90 | SHIELD | – |
| 91 | W | – |
| 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 |




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

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

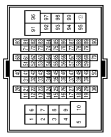


| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1 | W | – [With NAVI] |
| 1 | Y | – [Without NAVI] |
| 2 | B | – [Without NAVI] |
| 2 | R | – [With NAVI] |
| 3 | B | – [With NAVI] |
| 3 | G | – [Without NAVI] |
| 4 | SHIELD | – |
| 5 | G | – |
| 6 | R | – |
| 7 | W | – |
| 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 | V | – |
| 92 | Y | – |

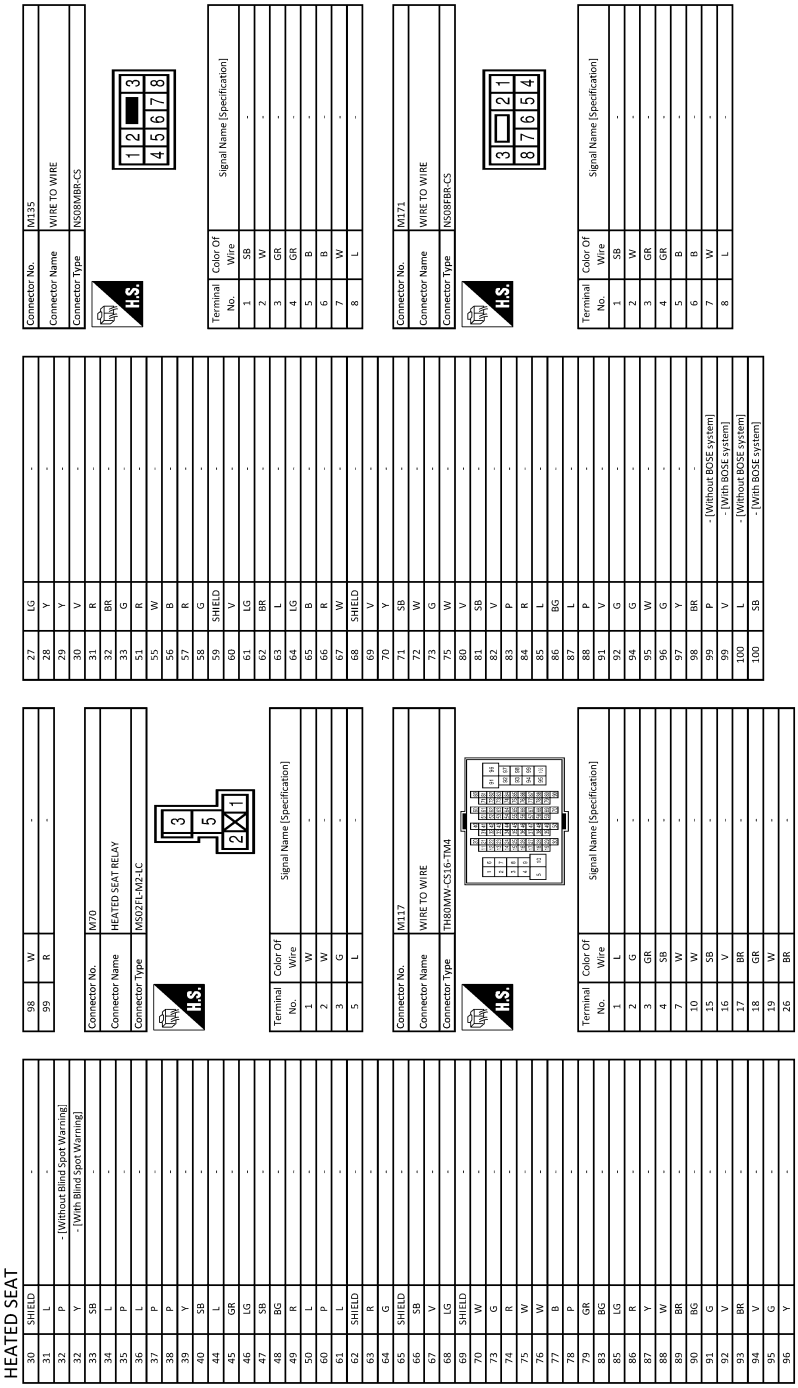
| | | |
|---|---|---|
| 93 | BR | – |
| 94 | P | – |
| 95 | GR | – |
| 96 | W | – |
| 97 | L | – |
| 98 | SHIELD | – |
| 99 | V | – |
| 100 | SB | – |

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



| 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 | – |
| 11 | V | – |
| 12 | SB | – |
| 13 | LG | – |
| 14 | Y | – |
| 15 | G | – |
| 16 | R | – |
| 17 | W | – |
| 18 | SB | – |
| 19 | LG | – |
| 20 | BR | – |
| 21 | SHIELD | – |
| 22 | Y | – |
| 24 | V | – |
| 25 | G | – |
| 26 | Y | – |
| 27 | B | – [With NAVI] |
| 27 | R | – [Without NAVI] |
| 28 | W | – |
| 29 | B | – [Without NAVI] |
| 29 | R | – [With NAVI] |

JRJWD2737GB

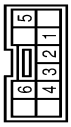



JRJWD4948GB

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 |

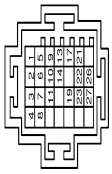
H.S.




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

| Connector No. | M353 |
|---|---|
| Connector Name | JOINT CONNECTOR-M02 |
| Connector Type | SGA28FDGY-J |

H.S.




| Terminal No. | Color Of Wire | Signal Name [Specification] |
|---|---|---|
| 1 | G | - |
| 2 | R | - [Without BOSE system] |
| 2 | V | - [With BOSE system] |
| 3 | V | - |
| 4 | BG | - |
| 5 | G | - |
| 6 | R | - |
| 7 | V | - |
| 8 | BG | - |
| 9 | G | - |
| 10 | R | - |
| 11 | V | - |
| 13 | W | - |
| 14 | R | - |
| 17 | W | - |
| 19 | V | - |
| 21 | W | - |
| 22 | R | - |
| 23 | V | - |
| 26 | R | - |
| 27 | G | - |

JRJWD4949GB

# SYMPTOM DIAGNOSIS

## REAR SEATBACK POWER RETURN SYSTEM DOES NOT OPERATE BOTH SIDES

### BOTH SIDES : Diagnosis Procedure

INFOID:0000000012173794

**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:0000000012173795

**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:0000000012173796

## 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:0000000012173797

#### 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:0000000012173798

#### 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:0000000012173799

#### 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:0000000012173800

#### 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:0000000012173801

### 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:0000000012173802

#### 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:0000000012173803

#### 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:0000000012173804

## 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:0000000012173805

#### 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:0000000012173806

#### 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:0000000012173807

**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:0000000012173808

**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:0000000012173809

#### 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:0000000012173810

#### 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.

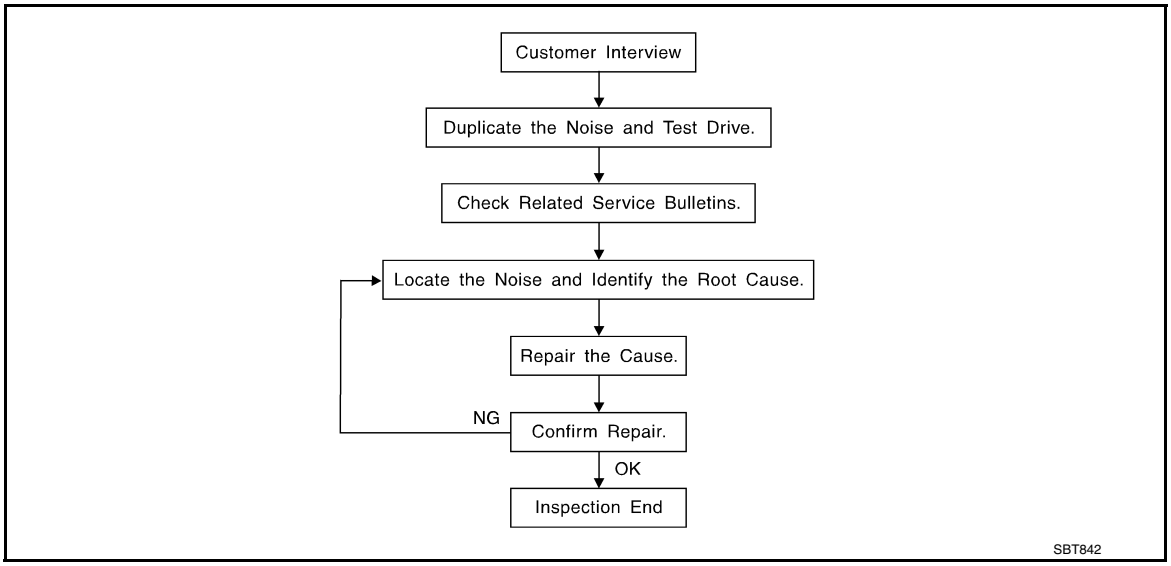
Is the inspection result normal?

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

# SQUEAK AND RATTLE TROUBLE DIAGNOSES

## Work Flow

INFOID:0000000012173811




### 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-50397) 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-50397). 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:0000000012173812

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-50397) to repair the noise.

### TRUNK

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

1. Trunk lid 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

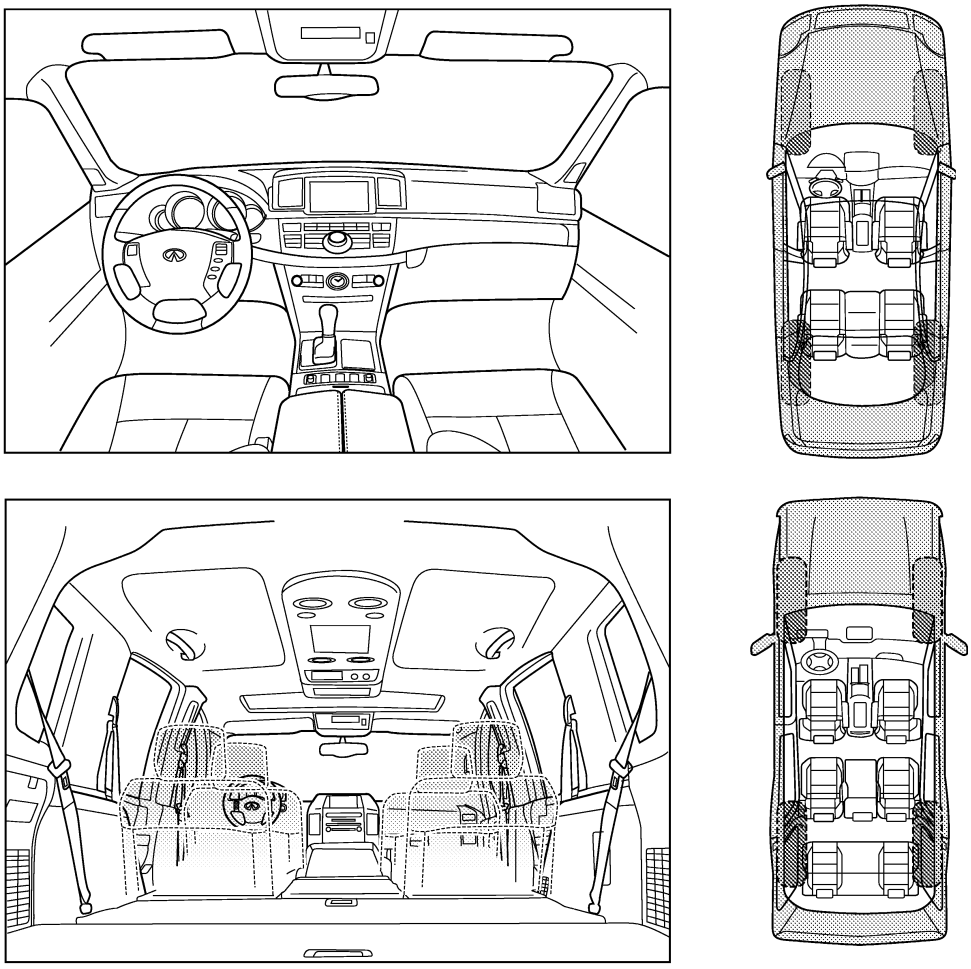
INFOID:0000000012173813

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:0000000012173814

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, it is recommended that all maintenance and repair be performed by an authorized NISSAN/INFINITI dealer.**
- **Improper repair, 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 or batteries, and wait at least 3 minutes before performing any service.**

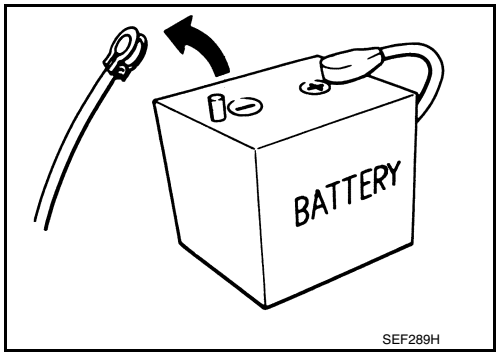
### Precautions for Removing Battery Terminal

INFOID:0000000012735009

When disconnecting the battery terminal, pay attention to the following.

- Always use a 12V battery as power source.
- Never disconnect battery terminal while engine is running.
- When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.
- For vehicles with the engine listed below, remove the battery terminal after a lapse of the specified time:

| | | | |
|---|---|---|---|
| BR08DE | : 4 minutes | YD25DDTi | : 2 minutes |
| D4D engine | : 20 minutes | YS23DDT | : 4 minutes |
| HRA2DDT | : 12 minutes | YS23DDTT | : 4 minutes |
| K9K engine | : 4 minutes | ZD30DDTi | : 60 seconds |
| M9R engine | : 4 minutes | ZD30DDTT | : 60 seconds |
| R9M engine | : 4 minutes | | |
| V9X engine | : 4 minutes | | |




**NOTE:**

ECU may be active for several tens of seconds after the ignition switch is turned OFF. If the battery terminal is removed before ECU stops, then a DTC detection error or ECU data corruption may occur.

- After high-load driving, if the vehicle is equipped with the V9X engine, turn the ignition switch OFF and wait for at least 15 minutes to remove the battery terminal.

**NOTE:**

  - Turbocharger cooling pump may operate in a few minutes after the ignition switch is turned OFF.
  - Example of high-load driving
  - Driving for 30 minutes or more at 140 km/h (86 MPH) or more.
  - Driving for 30 minutes or more on a steep slope.
- For vehicles with the 2-batteries, be sure to connect the main battery and the sub battery before turning ON the ignition switch.
  **NOTE:**
  If the ignition switch is turned ON with any one of the terminals of main battery and sub battery disconnected, then DTC may be detected.
- After installing the 12V battery, always check "Self Diagnosis Result" of all ECUs and erase DTC.
  **NOTE:**
  The removal of 12V battery may cause a DTC detection error.

## Service Notice

*INFOID:0000000012173816*

- 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:0000000012173817*

- 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.

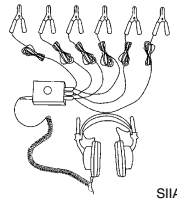
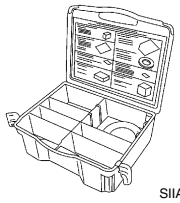
# PREPARATION

## PREPARATION

### Special Service Tool

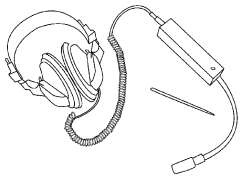
INFOID:0000000012173818

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

| Tool number<br>(Kent-Moore No.)<br>Tool name | Description |
|---|---|
| (J-39570)<br>Chassis ear<br>  <br>SIIA0993E | Locates the noise |
| (J-50397)<br>NISSAN Squeak and Rattle Kit<br>  <br>SIIA0994E | Repairs the cause of noise |

### Commercial Service Tool

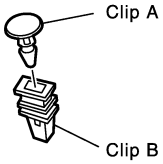
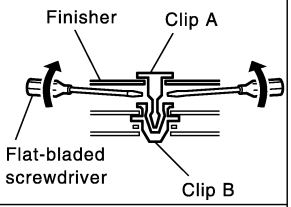
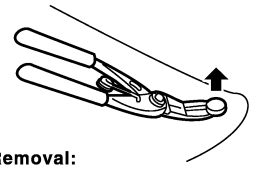
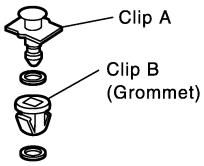
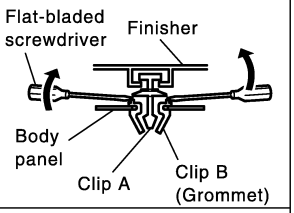
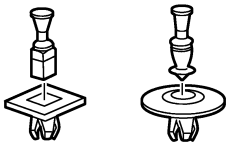
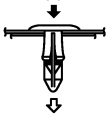
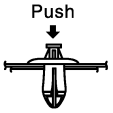
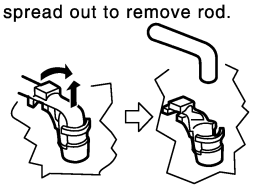
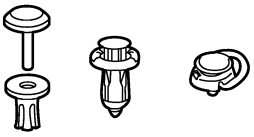
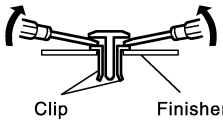
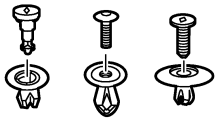
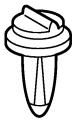
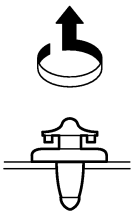
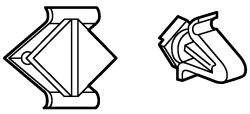
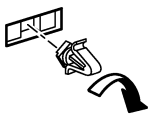
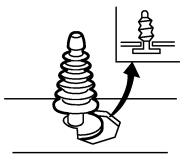
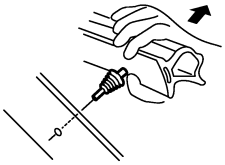
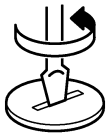
INFOID:0000000012173819

| Tool name | Description |
|---|---|
| Engine ear<br>  <br>SIIA0995E | Locates the noise |

# CLIP LIST

## Clip List

INFOID:0000000012173820

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

JMJIA3734GB

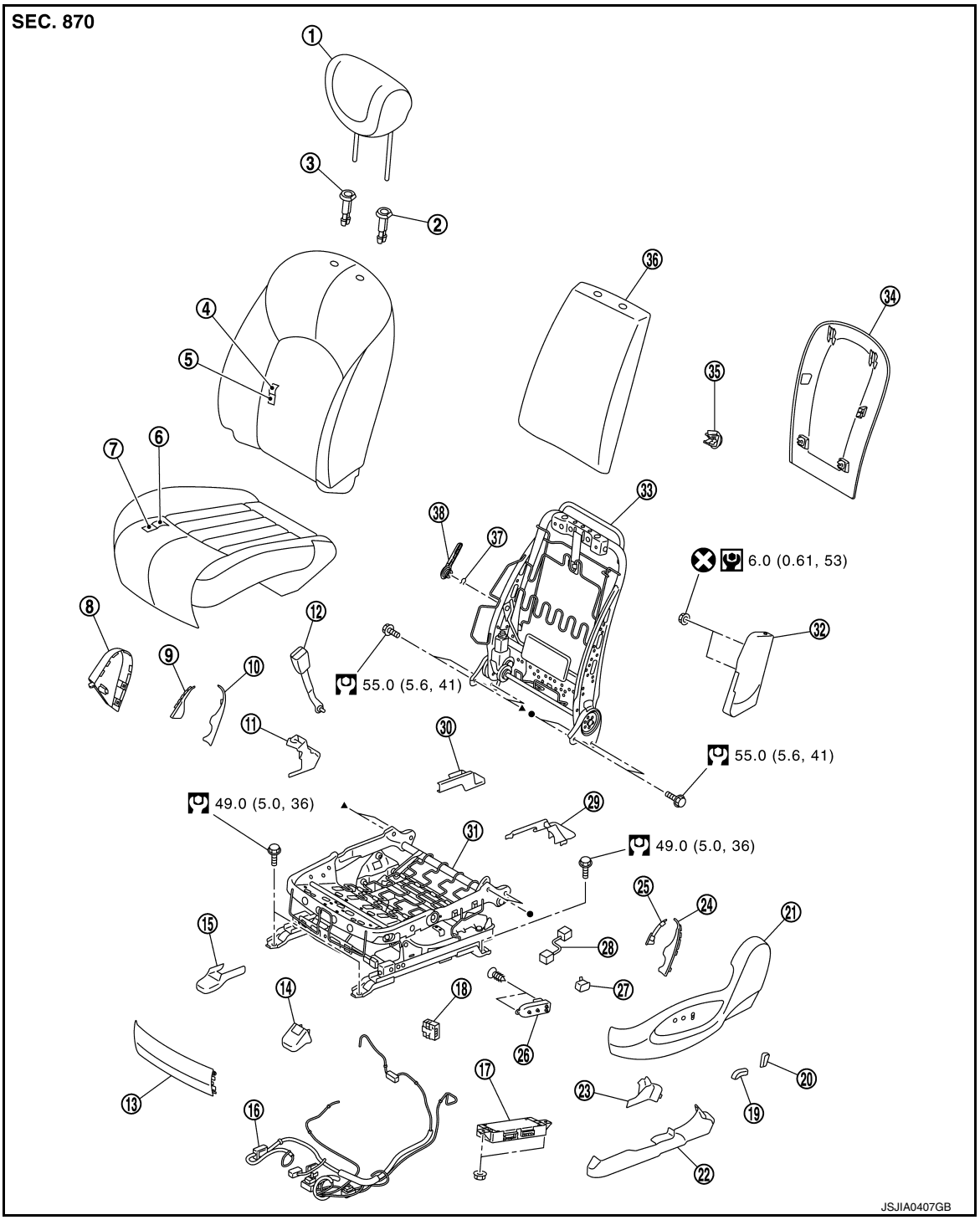
# REMOVAL AND INSTALLATION

## FRONT SEAT

### Exploded View

INFOID:0000000012173821

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

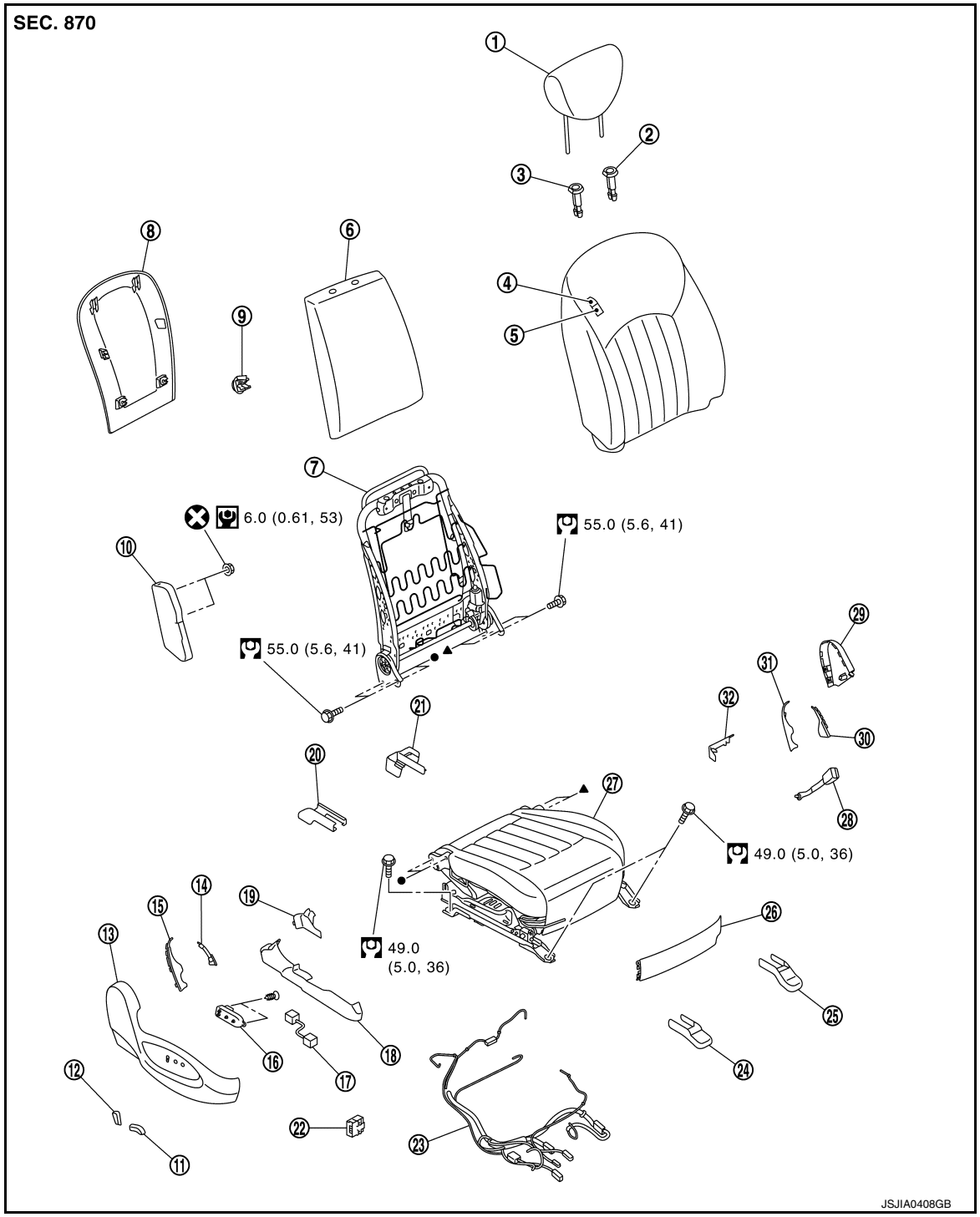
: Always replace after every disassembly.

: N·m (kg-m, ft-lb)

: N·m (kg-m, in-lb)

●, ▲ : Indicates that the part is connected at points with same symbol in actual vehicle.

## 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

: Always replace after every disassembly.

: N·m (kg-m, ft-lb)

: N·m (kg-m, in-lb)

●, ▲ : Indicates that the part is connected at points with same symbol in actual vehicle

## Removal and Installation

INFOID:0000000012173822

### REMOVAL

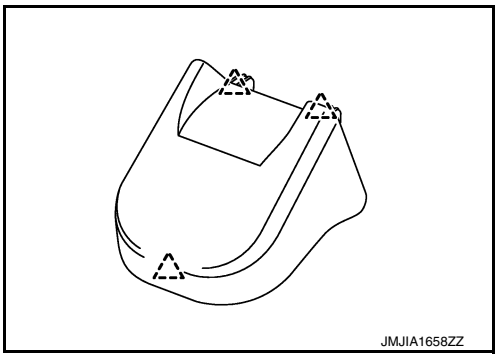
**CAUTION:**

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

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

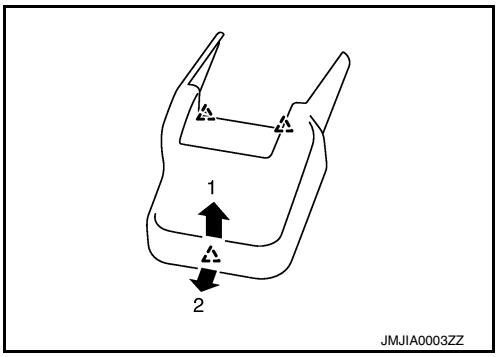
a. Front outer slide cover
- Slide the seat to the rear-most position.
- Pull up the front edge of the front slide cover to release the pawls.
- Slide the front slide cover forward to release the pawls.

: Pawl


JMJIA1658ZZ

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

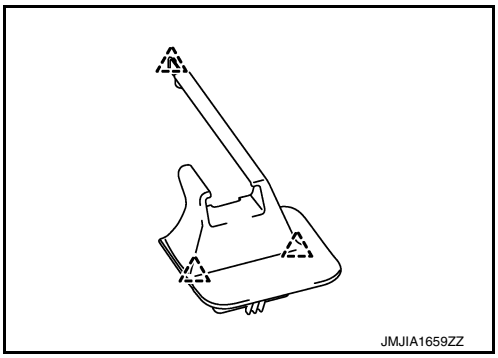


JMJIA0003ZZ

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

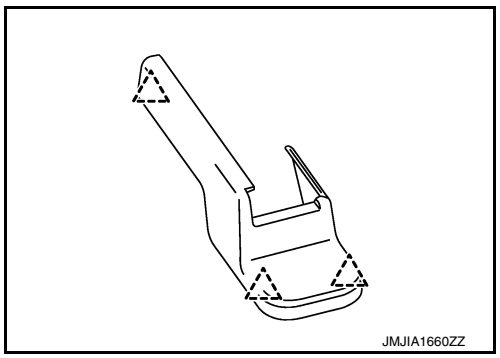
a. Rear outer slide cover
- Slide the seat to the front-most position.
- Pull up the rear edge of the rear outer slide cover to release the pawls.
- Open the front end of the rear outer slide cover to release the pawls.

: Pawl


JMJIA1659ZZ

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:0000000012173823

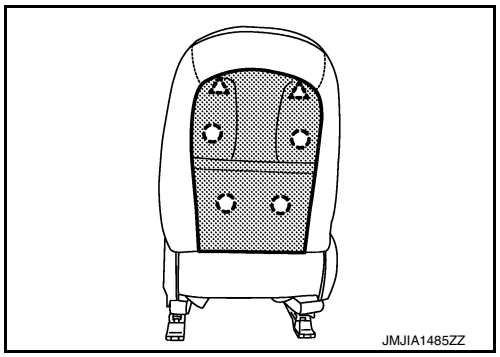
### SEATBACK

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.

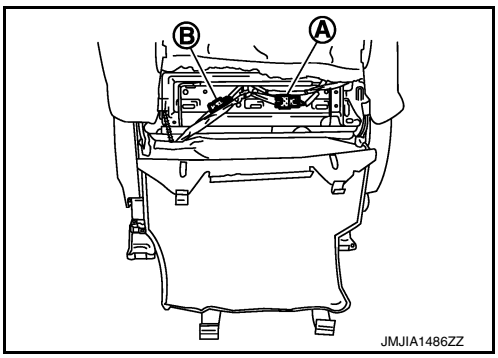
   : Clip

   : Pawl

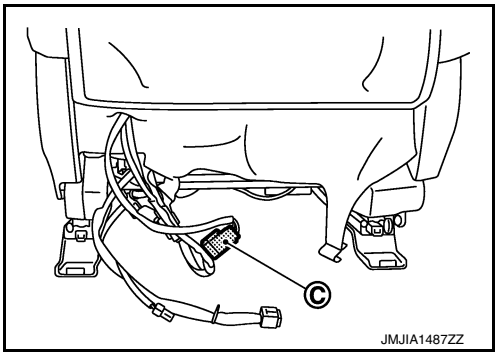

JMJIA1485ZZ

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

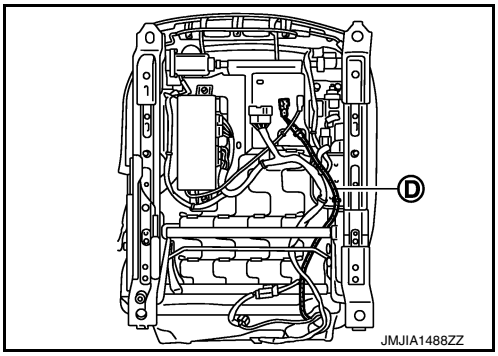
- Disconnect the reclining motor harness connector (A) and lumbar support harness connector (Power lumber support seat only) (B).




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



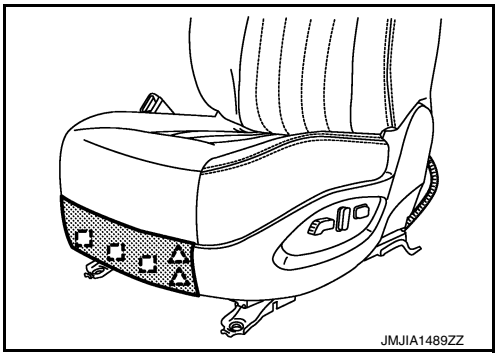

- Remove the harness clamps, and then side air bag module harness (D).




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

: Pawl

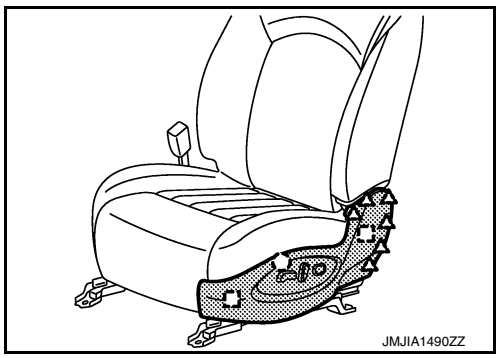
: Metal clip



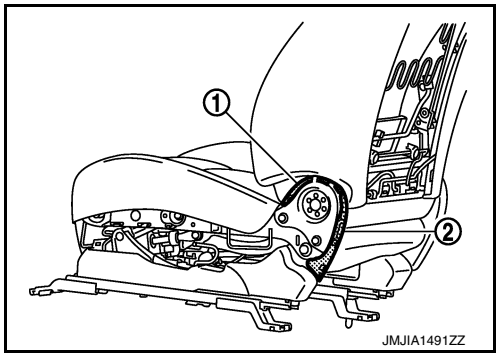

5. Remove the seat cushion outer finisher.

- 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
: Pawl
: Metal clip

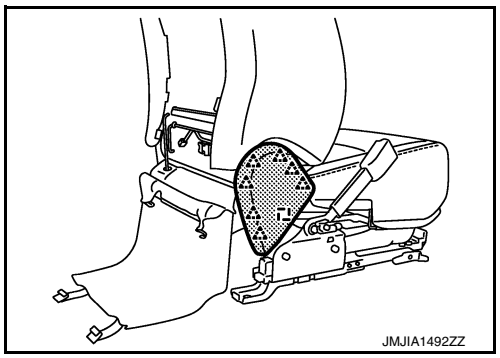



6. Remove the seat cushion outer finisher inside front (1) and rear (2).

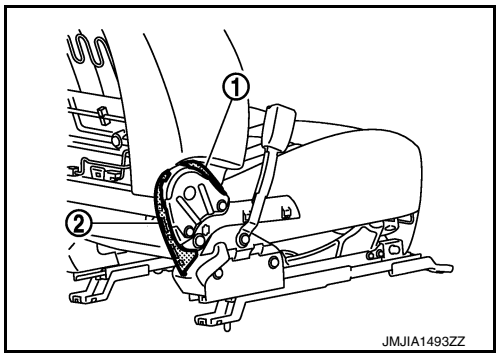



7. Remove the metal clip and pawls, and then pull out seat cushion inner finisher outside.

: Pawl
: Metal clip

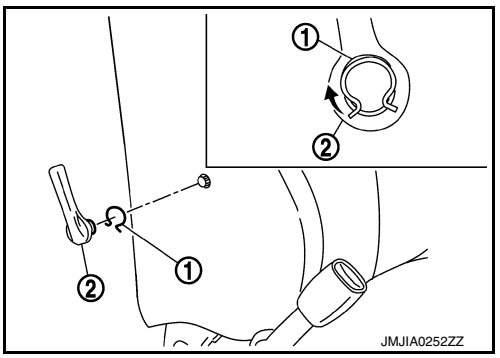



8. Remove the seat cushion inner finisher inside front (1) and rear (2).



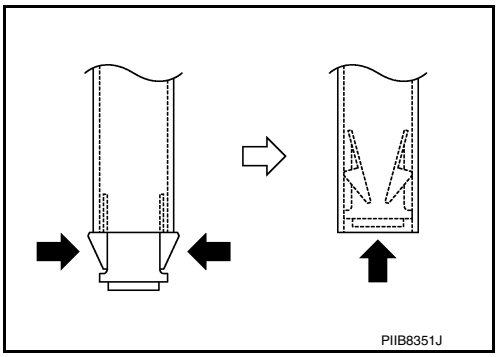

9. Remove the lumber support lever knob. (Manual lumber support seat only)

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



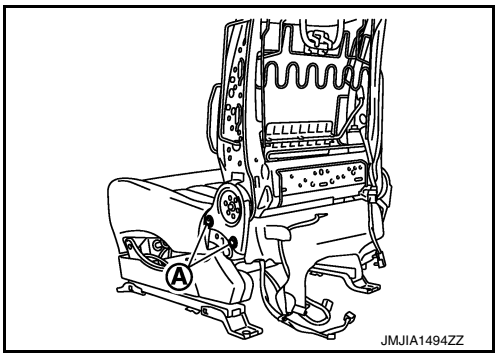

10. Remove the seatback trim and seatback pad.
    - Remove the headrest holder.

    **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

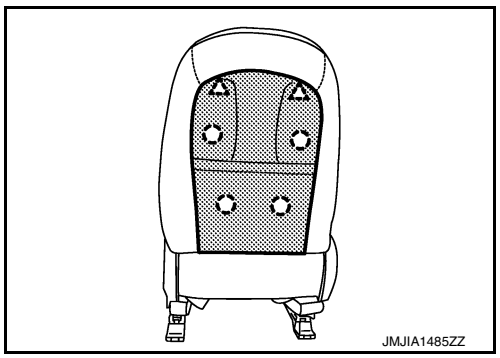
Disassembly

**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.**

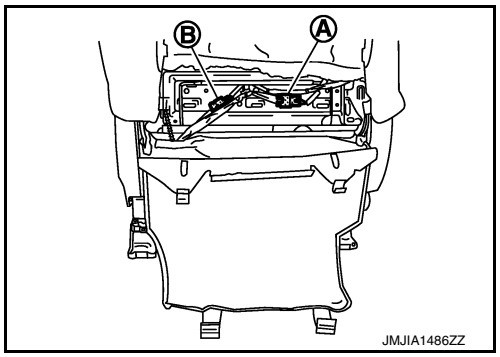
1. Remove the seatback board.
   - Remove the clips and pawls, and then pull out seatback board.
   - Pull down the seatback board to release the upper pawls.

   : Clip

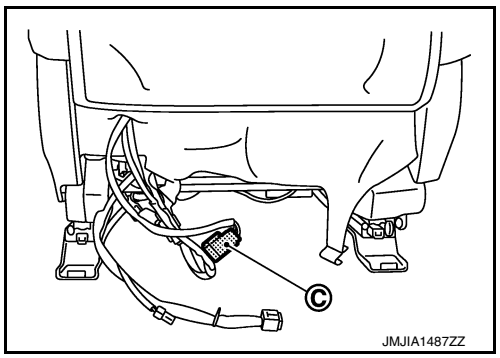
   : Pawl



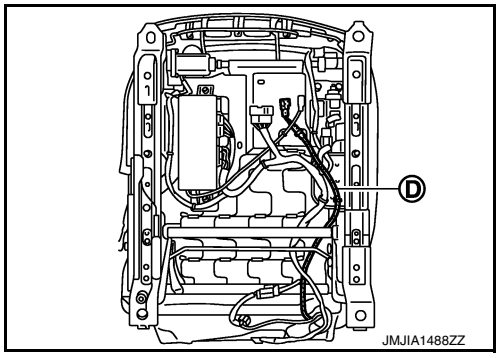

2. Remove the seatback trim retainer and seatback trim band from seat cushion frame.
3. Disconnect the harness connectors and remove the harness clamps.
   - Disconnect the reclining motor harness connector (A) and lumbar support harness connector (B) (Power lumber support seat only).




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

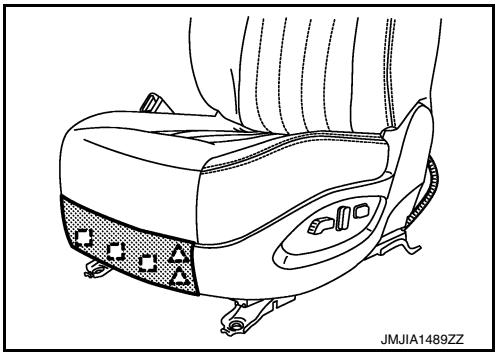



   - Remove the side air bag module harness (D).



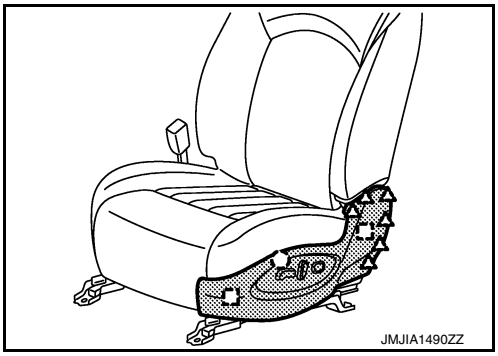
4. Remove the metal clips and pawls, and then pull out seat cushion front finisher.

: Pawl
: Metal clip

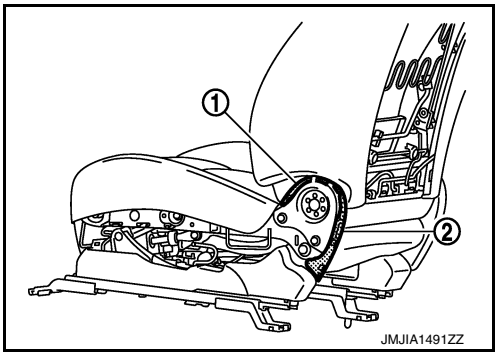

JMJIA1489ZZ

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
: Pawl
: Metal clip


JMJIA1490ZZ

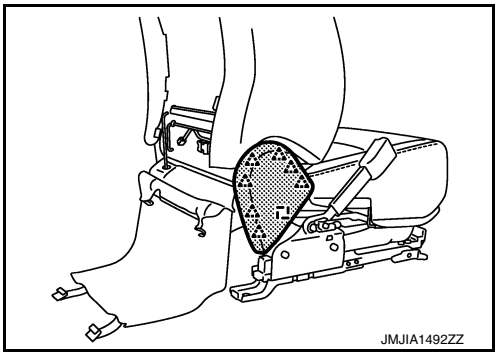
6. Remove the seat cushion outer finisher inside front (1) and rear (2).



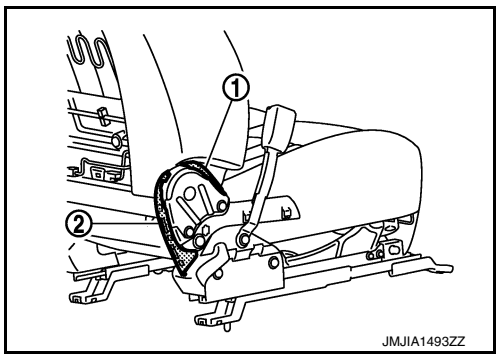
JMJIA1491ZZ

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

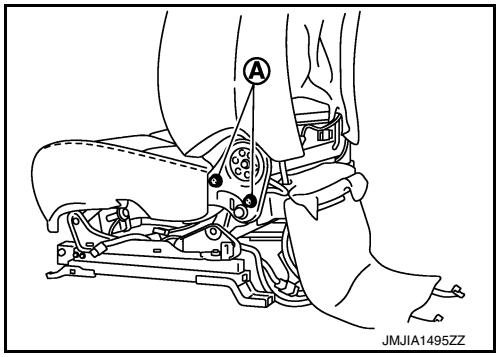
: Pawl
: Metal clip


JMJIA1492ZZ

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

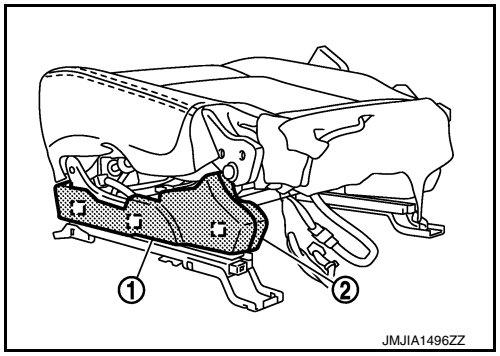



9. Remove the seatback assembly.
Remove the seatback assembly mounting bolts (A).



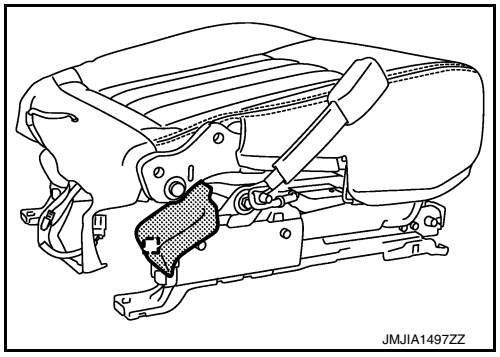

10. Remove the metal clips, and then pull out seat cushion outer lower finisher outside (1) and inside (2).

: Metal clip



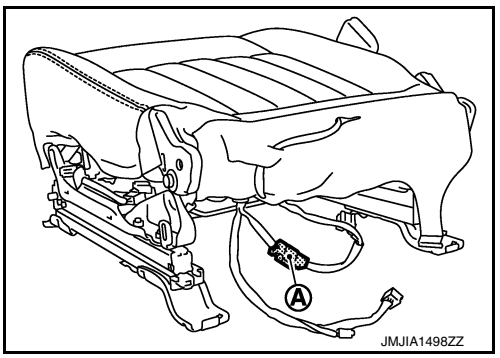

11. Remove the seat cushion inner lower finisher.

: 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:**

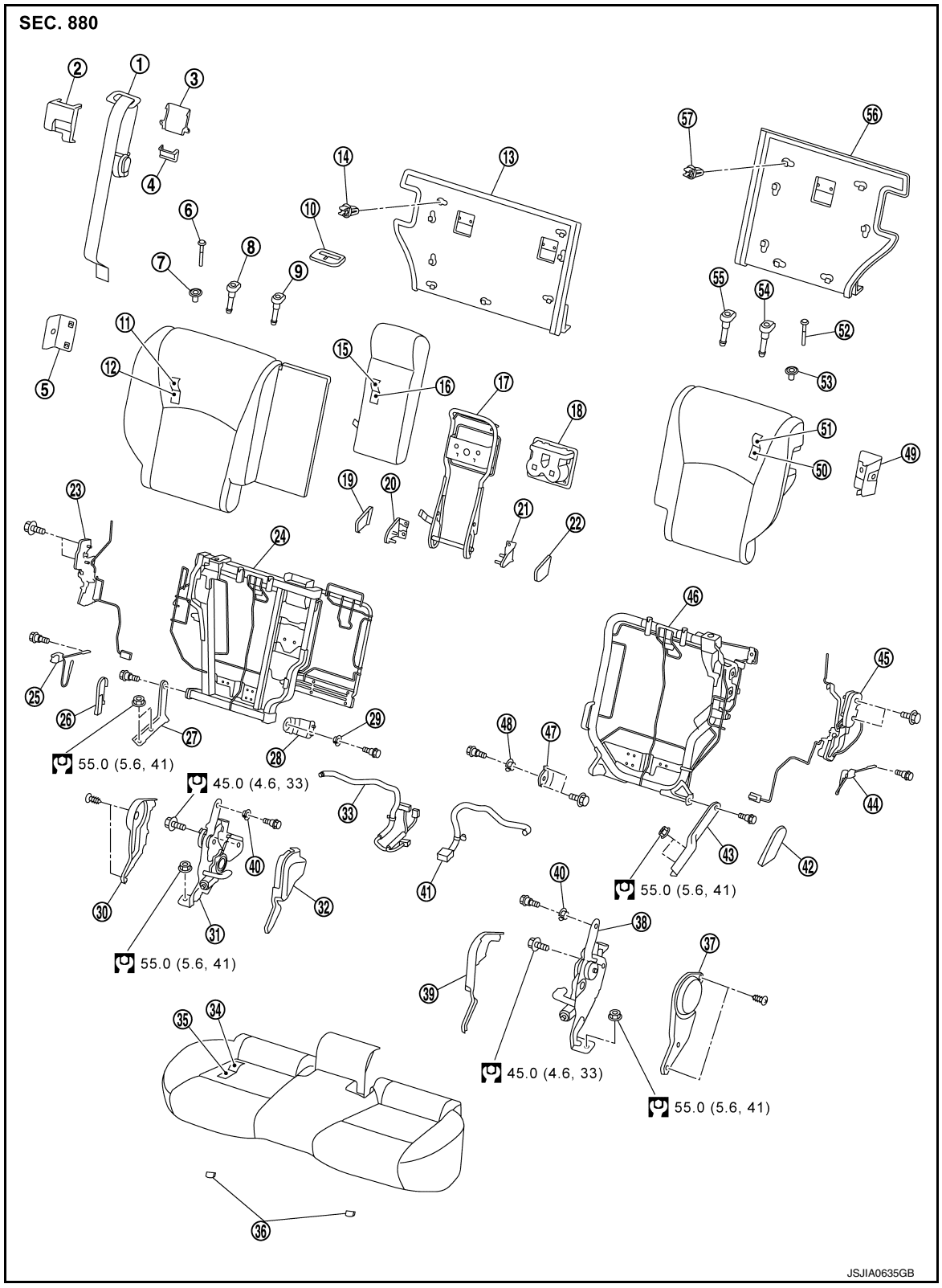
**Install the hog rings of seat cushion trim in position, and then securely connect the trim or trim cord with the pad side wire.**

# REAR SEAT

## Exploded View

INFOID:0000000012173824

### 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

: N·m (kg-m, ft-lb)

## Removal and Installation

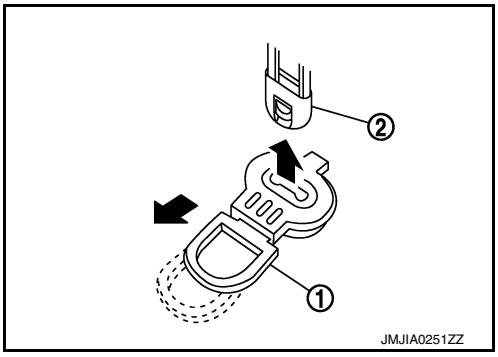
INFOID:0000000012173825

### REMOVAL

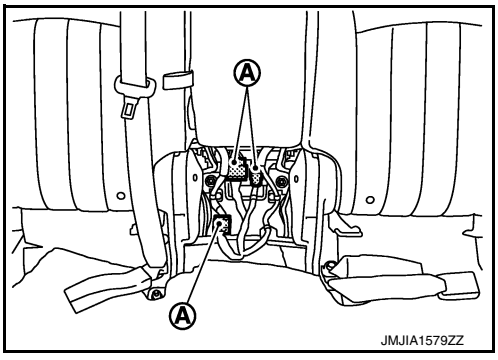
**CAUTION:**

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

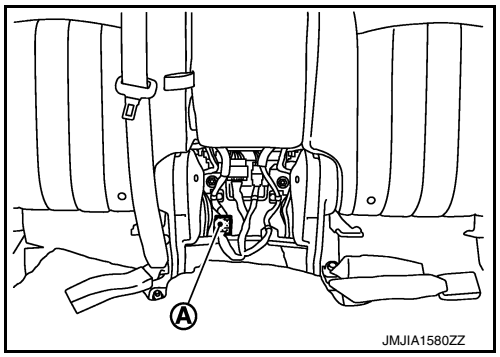
1. Remove the seat cushion.
   - Pull the lock lever (1) at the front bottom of the seat cushion forward (1 for each side), and pull the seat cushion upward to release the wire (2) from the seat cushion hook. Then pull the seat cushion forward the remove
   - Remove the seat cushion from vehicle.



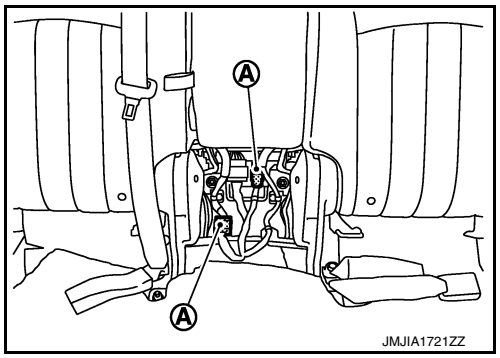

2. Remove the seatback.
   - Remove the luggage floor finisher front LH and RH. Refer to INT-33, "Exploded View".
   - Disconnect the rear seat harness connectors.
   - With power return seat model
     LH seatback
     Disconnect the rear seat harness connectors (A).



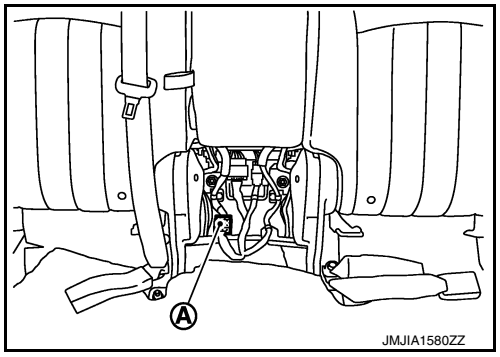
RH seatback
Disconnect the rear seat harness connector (A).



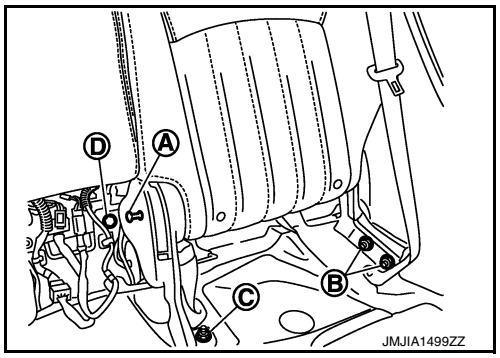

- Without power return seat model
  LH seatback
  Disconnect the rear seat harness connectors (A).




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

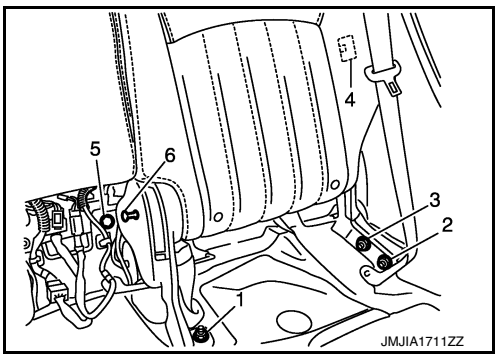



- Push the seatback lock pin (A).
- Remove the seatback mounting nuts (B), (C) and bolt (D).
- Remove the center seat belt anchor bolt. (RH seatback only)
  Refer to SB-11, "SEAT BELT RETRACTOR : Exploded View".
- Remove the seatback from vehicle.




INSTALLATION

1. Install the rear seatback mounting nuts (1), (2), (3).
2. Lock the seatback striker (4).
3. Install the rear seatback mounting bolt (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

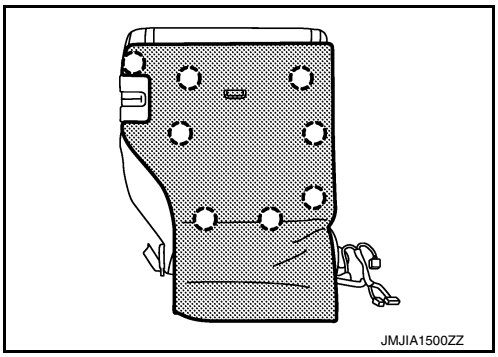
*INFOID:0000000012173826*

### SEATBACK

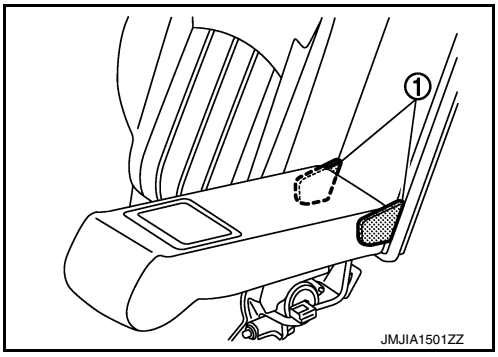
Disassembly

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

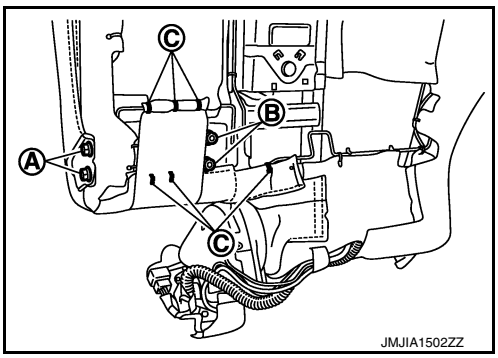
: Clip




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

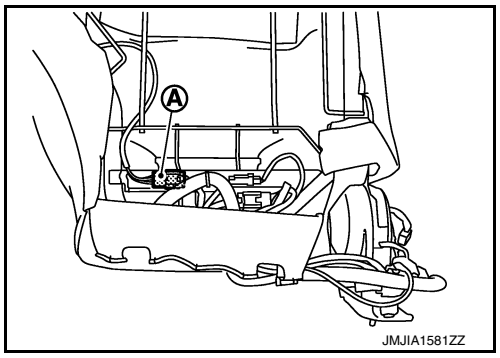



   - Remove the arm rest mounting bolts (A), nuts (B) and hog rings (C), and then remove the armrest.

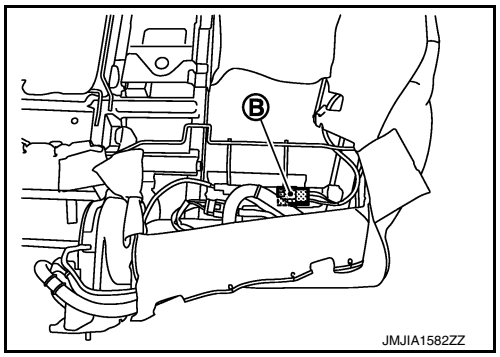


3. Remove the seatback device assembly.
   - Remove the seatback trim fixing hog rings.
   - Disconnect the seatback lock harness connector.

   LH seatback
   Disconnect the seatback lock harness connector (A).

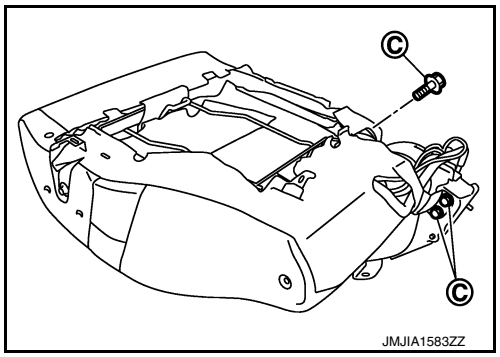



   RH seatback
   Disconnect the seatback lock harness connector (B).

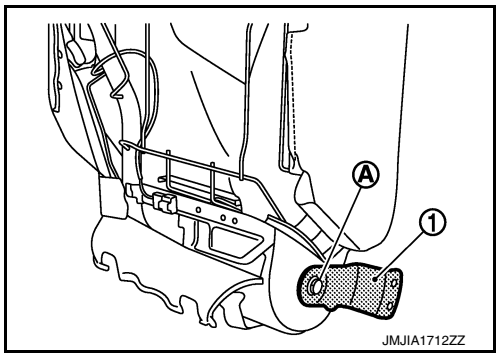



   - Remove the seatback device.

   Remove the seatback device mounting bolts (C).



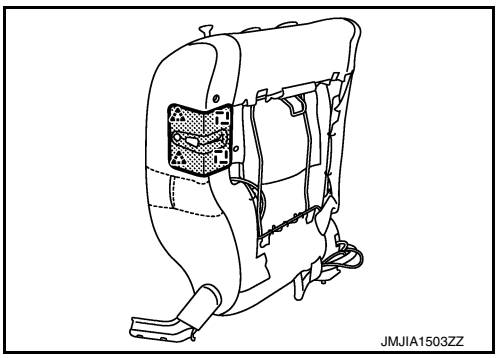

4. Remove the hinge bracket mounting bolt (A), and then remove the hinge bracket (1).



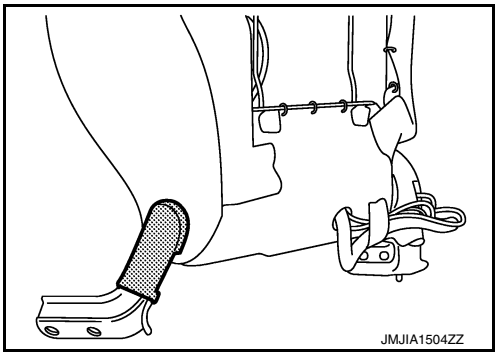

5. Remove the seatback trim and pad.

- Remove the metal clips and pawls, and then pull out seatback lock cover.

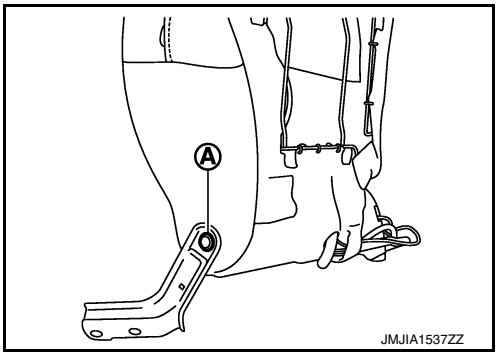
: Pawl
: Metal clip



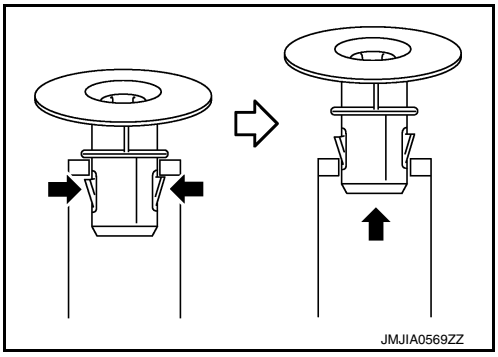

- Remove the seatback hinge outer cover.




- Remove the seatback hinge.
  Remove the seatback hinge mounting bolt (A).

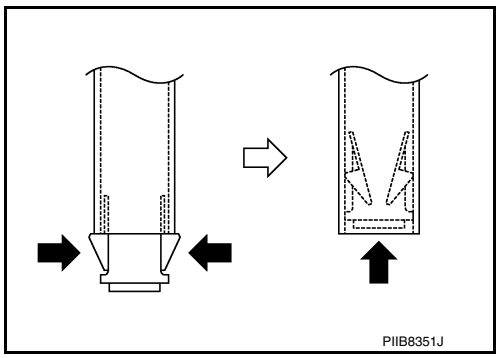



- Turn seatback lock knob counterclockwise to remove.
- Push the seatback lock knob finisher pawl upward though the seatback pad and the seatback frame to remove it.



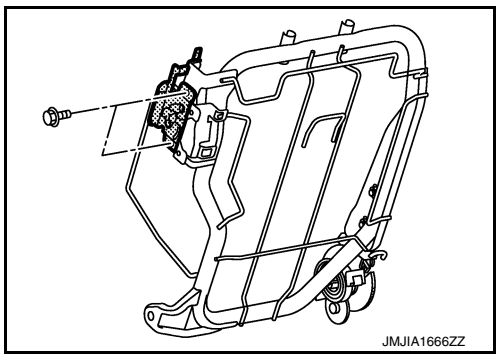
- Remove the headrest holder.

**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.

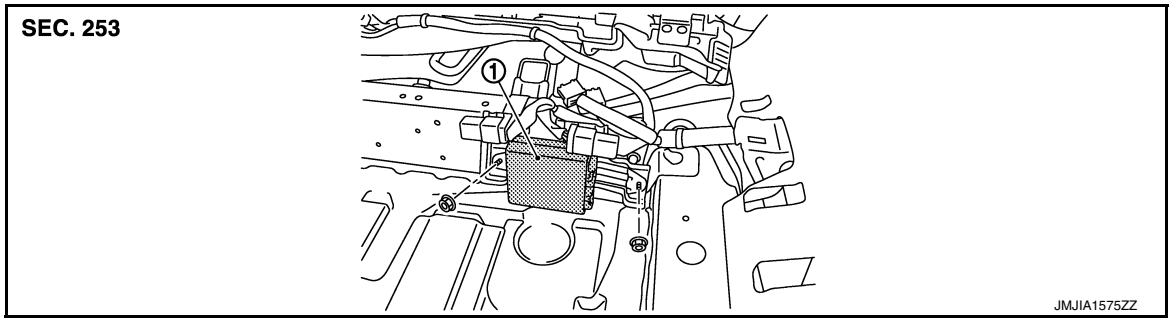
Assembly
Assemble in the reverse order of disassembly.

**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:0000000012173827




1. Rear seatback power return control unit

## Removal and Installation

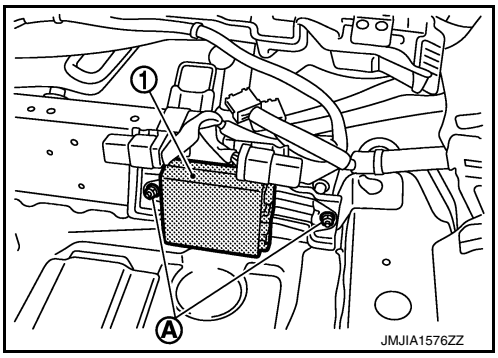
INFOID:0000000012173828

### 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-34, "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:0000000012173829

Refer to SE-129, "Exploded View".

## Removal and Installation

INFOID:0000000012173830

### 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:0000000012173831

Refer to SE-129, "Exploded View".

## Removal and Installation

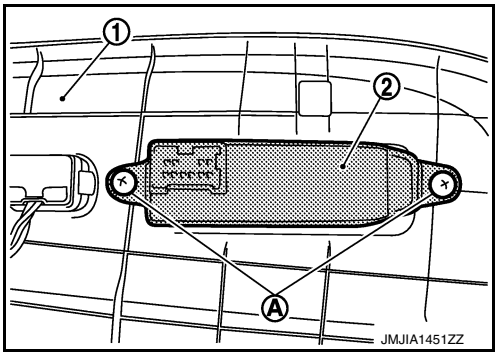
INFOID:0000000012173832

### 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:0000000012173833

Refer to SE-129, "Exploded View".

## Removal and Installation

INFOID:0000000012173834

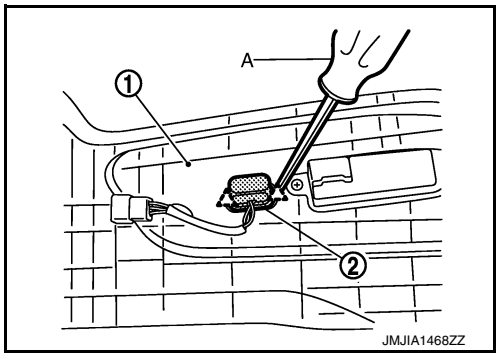
### REMOVAL

**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:0000000012173835

Refer toIP-23, "Exploded View".

## Removal and Installation

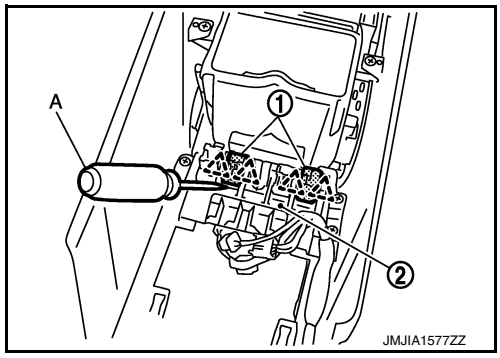
INFOID:0000000012173836

### REMOVAL

**CAUTION:**

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

1. Remove the console body assembly. Refer to IP-24, "Removal and Installation".
2. Remove heated seat switch (1) from switch bracket (2) 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:0000000012173837

Refer to IP-23, "Exploded View".

## Removal and Installation

INFOID:0000000012173838

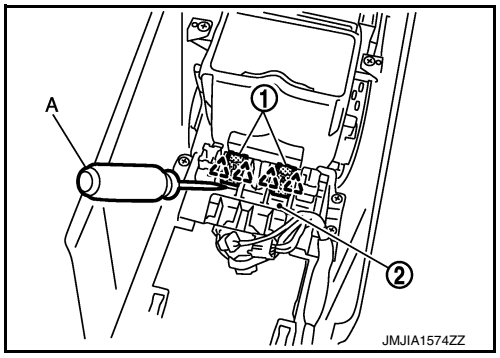
### REMOVAL

**CAUTION:**

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

1. Remove the console body assembly. Refer to IP-24, "Removal and Installation".
2. Remove power return switch (1) from switch bracket (2) with remover tool (A).

: Pawl



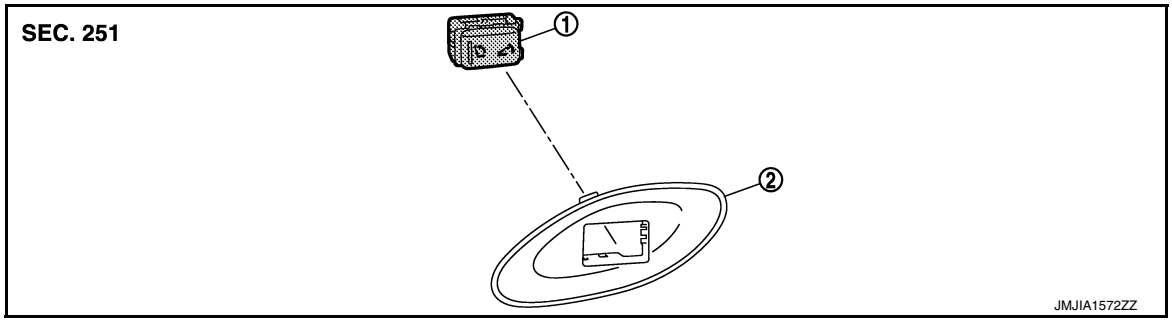

### INSTALLATION

Install in the reverse order of removal.

# REAR SEATBACK SWITCH

## Exploded View

INFOID:0000000012173839




1. Rear seatback switch
2. Luggage side finisher lower escutcheon

## Removal and Installation

INFOID:0000000012173840

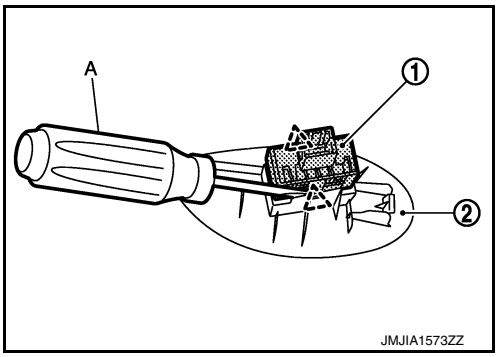
### REMOVAL

**CAUTION:**

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

1. Remove the luggage side finisher lower escutcheon. Refer to INT-34, "Removal and Installation".
2. Remove rear power return switch (1) from luggage side finisher lower escutcheon (2) with remover tool (A).

: Pawl



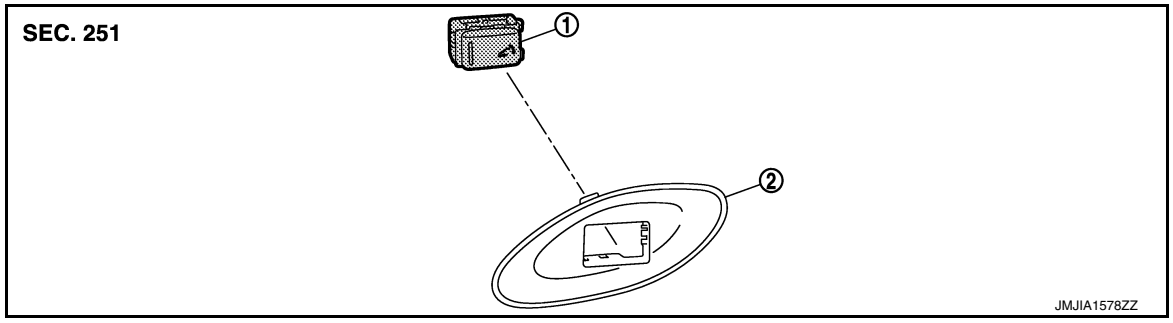

### INSTALLATION

Install in the reverse order of removal.

# REAR SEATBACK RELEASE SWITCH

## Exploded View

INFOID:0000000012173841




1. Rear seatback release switch
2. Luggage side finisher lower escutcheon

## Removal and Installation

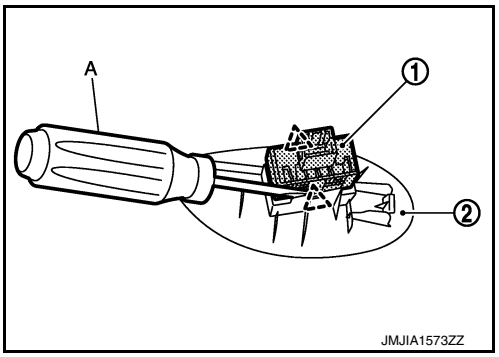
INFOID:0000000012173842

### 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-34, "Removal and Installation".
2. Remove rear power return switch (1) from luggage side finisher lower escutcheon (2) with remover tool (A).




: Pawl

### INSTALLATION

Install in the reverse order of removal.