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#### **DIAGNOSIS AND REPAIR WORK FLOW**

## < BASIC INSPECTION > **BASIC INSPECTION** Α DIAGNOSIS AND REPAIR WORK FLOW WorkFlow INFOID:00000000009064876 **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. D >> GO TO 2. $2.\mathsf{REPRODUCE}$ THE MALFUNCTION INFORMATION Е Check the malfunction on the vehicle that the customer describes. Inspect the relation of the symptoms and the condition when the symptoms occur. F >> GO TO 3. ${f 3.}$ 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. Н >> GO TO 4. f 4.IDENTIFY THE MALFUNCTIONING PARTS WITH "COMPONENT DIAGNOSIS" Perform the diagnosis with "Component diagnosis" of the applicable system. >> GO TO 5. SE ${f 5}$ . REPAIR OR REPLACE THE MALFUNCTIONING PARTS Repair or replace the specified malfunctioning parts. K >> 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? M YES >> INSPECTION END NO >> GO TO 3. N

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## SYSTEM DESCRIPTION

## **POWER SEAT**

## System Description

INFOID:0000000009064877

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**

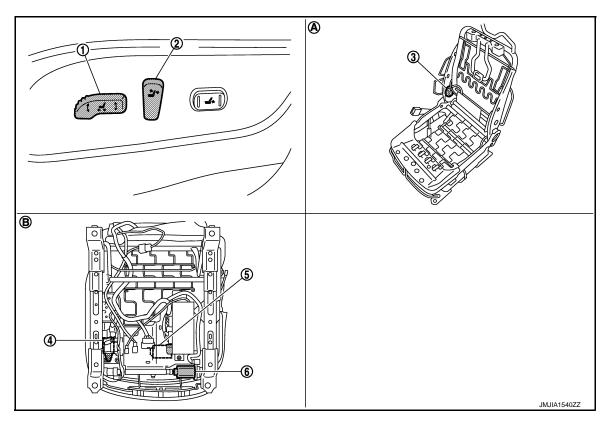
While operating the reclining switch located in power seat switch, reclining motor operates and makes possible the seat back forward and backward position adjustment.

#### 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:0000000009064878



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

## **POWER SEAT**

## < SYSTEM DESCRIPTION >

## **Component Description**

INFOID:0000000009064879

Item	Function		
ВСМ	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		

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#### **HEATED SEAT**

### System Diagram

INFOID:0000000009064880 FRONT SEAT **SEAT CUSHION HEATER** Seat cushion heater operation signal **HEATER UNIT** Heated seat **HEATED SEAT** signal **HEATED SEAT** Temperature **SWITCH** CONTROL UNIT position signal HEAT SENSOR Seatback heated operation signal SEATBACK HEATER HEATER UNIT

## System Description

INFOID:00000000009064881

JMJIA3352GB

- 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 seat-back.
- 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

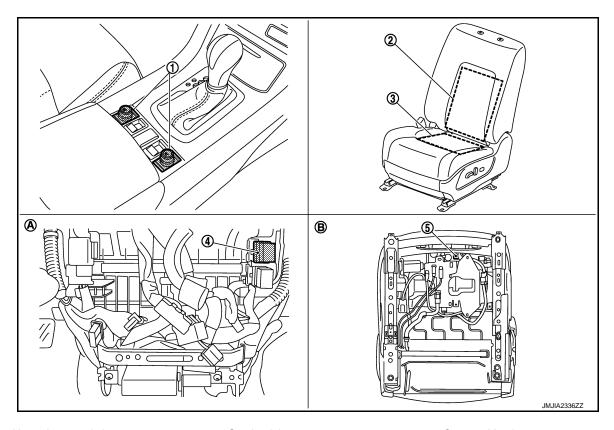
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- Heated seat switch
- 4. Heated seat relay
- Behind cluster lid C
- Seatback heater
- 5. Heated seat control unit
- В. Backside of seat cushion

Seat cushion heater

## **Component Description**

INFOID:0000000009064883

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

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## **LUMBAR SUPPORT**

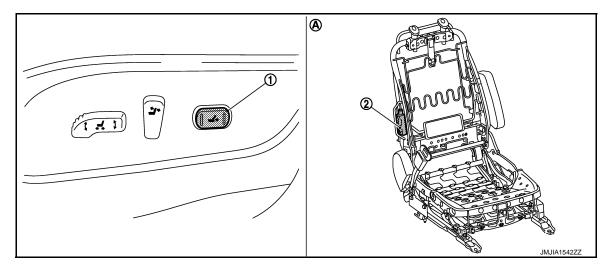
## System Description

- 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**

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INFOID:00000000009064884



- 1. Lumbar support switch
- 2. Lumbar support motor
- A. View with seat back pad is removed

## **Component Description**

INFOID:00000000009064886

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

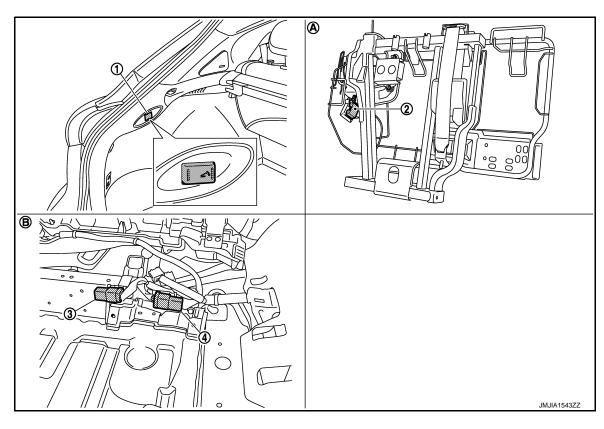
#### < SYSTEM DESCRIPTION >

## REAR SEATBACK RELEASE CONTROL

## System Description

- 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**



- 1. Rear seatback release switch (LH)
- 4. Rear seatback release relay (RH)
- A. In seatback

- 2. Rear seatback release actuator (RH) 3. Rear seatback release relay (LH)
- B. Behind of rear seat (RH)

## **Component Description**

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	

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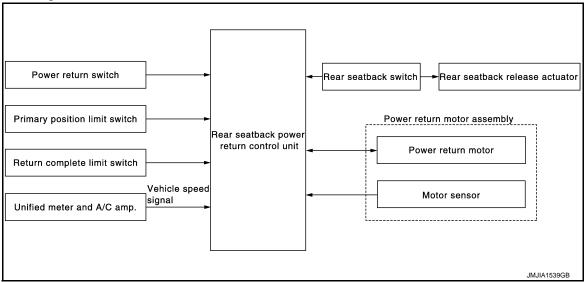
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### REAR SEATBACK POWER RETURN SYSTEM

### System Diagram

INFOID:0000000009064890



## System Description

INFOID:0000000009064891

#### 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	$OFF \to ON$	ON

#### < SYSTEM DESCRIPTION >

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	Return completion position	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

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#### < SYSTEM DESCRIPTION >

#### NOTE:

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

#### POWER CONSUMPTION CONTROL SYSTEM

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

#### Low Power Consumption Mode

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

- Power return switch 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.

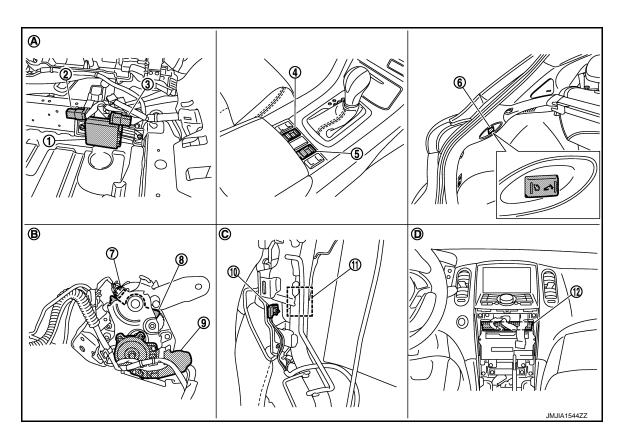
- Turn the power supply of primary position limit switch and return complete limit switch to OFF
- Turn the power supply of the motor sensor to OFF when the power return motor is not operated

#### BUZZER OPERATION PATTERN AND ORDER OF PRIORITY

Operation type	Sound pattern	Priority
Malfunction	ON OFF 4000ms JMJIA1396ZZ	1
Return operation completed	ON OFF 100ms 200ms 100ms JMJIA1395ZZ	2
Start return operation	ON OFF	3

#### < SYSTEM DESCRIPTION >

## **Component Parts Location**



- Rear seatback power return control unit
- 4. Power return switch (LH)
- 7. Primary position limit switch (RH)
- 10. Return complete limit switch (LH)
- A. Behind of rear seat (RH)
- D. Behind cluster lid C

- 2. Rear seatback release relay (LH)
- 5. Power return switch (RH)
- 8. Sector gear (RH)
- 11. Rear seatback release actuator (LH) 12.
- B. In seat device

- 3. Rear seatback release relay (RH)
- 6. Rear seatback switch (LH)
- 9. Power return motor assembly (RH)
  - 2. Unified meter and A/C amp.
- C. View with seatback pad is removed

**Component Description** 

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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

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## DTC/CIRCUIT DIAGNOSIS

# POWER SUPPLY AND GROUND CIRCUIT REAR SEATBACK POWER RETURN CONTROL UNIT

## REAR SEATBACK POWER RETURN CONTROL UNIT: Diagnosis Procedure

INFOID:00000000009064894

## 1. CHECK FUSE

Check that the following fuses are not fusing.

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

- 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.

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

#### 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			Continuity	
Connector	Terminal	Ground	Continuity	
B226	32	- Ground	Existed	
B227	13		Existed	

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

#### HEATED SEAT CONTROL UNIT

## **HEATED SEAT CONTROL UNIT: Diagnosis Procedure**

INFOID:0000000009064895

## 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?

#### < DTC/CIRCUIT DIAGNOSIS >

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.

(+) Heated seat control unit			(-)	Voltage (V) (Approx.)
Connector Terminal			(Approx.)	
Driver side	B439	60	Cround	Dattan, voltana
Passenger side	B462	- 60	Ground	Battery voltage

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 3.

## ${f 3.}$ CHECK HEATED SEAT CONTROL UNIT POWER SUPPLY CIRCUIT 1

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

Heated seat control unit			Heated s	Continuity		
Con	nector	Terminal	Connector Terminal		Continuity	
Driver side	B439	60	M70	2	Existed	
Passenger side	B462	60	IVI7O	3	Existed	

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

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

#### 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.

(+) Heated seat control unit		(-) Condi		dition	Voltage (V) (Approx.)	
Conr	nector	Terminal				(* 155. 57.1)
Driver side	B439				ON	Battery voltage
Driver side	D439		Ground	Heated seat	OFF	0
Passenger side B462		Giodila	switch	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

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#### < DTC/CIRCUIT DIAGNOSIS >

- 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 s	Continuity		
Con	nector	Terminal	Connector Terminal		Continuity	
Driver side	B439	66	M177	1	Existed	
Passenger side	B462	00	M178	ı	LXISIGU	

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

	Heated seat control unit		Continuity		
Co	nnector	Terminal	Ground	Continuity	
Driver side	B439	- 66	Ground	Not existed	
Passenger side	B462	- 00		Not existed	

#### 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 <u>SE-48</u>, "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 <u>SE-152, "Removal and Installation"</u>.

## 7.CHECK HEATED SEAT CONTROL UNIT GROUND CIRCUIT

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

Heated seat control unit				Continuity	
Connector		Terminal	Ground	Continuity	
Driver side	B439	50	Giouna	Exists	
Passenger side	B462	59		EXISIS	

#### 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**

## 1. CHECK FUSE

Check that the following fuse is not blown.

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

#### < DTC/CIRCUIT DIAGNOSIS >

#### 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			(11 - /	
Driver side	M177	5	Ground	Rattory voltage
Passenger side	M178	5	Giodila	Battery voltage

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 3.

## ${f 3.}$ 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 blo	Continuity	
Con	nector	Terminal	Connector Terminal		Continuity
Driver side	M177	F	M1	2A	Existed
Passenger side	M178	3	IVII	ZA	Existed

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

Heated seat switch  Connector Terminal			Continuity	
		Terminal	Ground	Continuity
Driver side	M177	5	Giouria	Not existed
Passenger side	M178	3		INOL EXISTED

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

### 4.CHECK FUSE BLOCK (J/B)

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

Fuse bl	(+) Fuse block (J/B)		Voltage (V) (Approx.)
Connector	Terminal		(11 - 7
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".

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>> INSPECTION END

#### < DTC/CIRCUIT DIAGNOSIS >

LH: Description

### POWER RETURN SWITCH

LH

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Switch that performs the return operation.

## LH: Component Function Check

INFOID:00000000009064898

## 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 to SE-21, "LH: Diagnosis Procedure".

## LH: Diagnosis Procedure

INFOID:0000000009064899

## 1.CHECK REAR SEATBACK POWER RETURN CONTROL UNIT INPUT SIGNAL

Turn ignition switch OFF.

- 2. Disconnect power return switch (LH) connector.
- 3. Check voltage between power return switch (LH) harness connector and ground.

(+) Power return switch (LH)		(-)	Voltage (V) (Approx.)	
Connector	Terminal		(* PP. 5/11)	
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 pow	Rear seatback power return control unit		Power return switch (LH)	
Connector	Terminal	Connector	Terminal	Continuity
B226	28	M174	1	Existed

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

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

#### Is the inspection result normal?

YES >> Replace rear seatback power return control unit. Refer to <u>SE-148, "Removal and Installation"</u>.

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)			Continuity
Connector	Terminal	Ground	Continuity
M174	2		Existed

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#### < DTC/CIRCUIT DIAGNOSIS >

#### 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 to SE-22, "LH: Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace power return switch (LH). Refer to <u>SE-153, "Removal and Installation"</u>.

#### CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

#### >> INSPECTION END

### LH : Component Inspection

INFOID:0000000009064900

## 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	
Ter	minal	Condition	Continuity	
1	2	Power return switch (LH) is pressed	Existed	
ı	2	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 <u>SE-153, "Removal and Installation"</u>.

RH

## RH : Description

INFOID:0000000009064901

Switch that performs the return operation.

## RH: Component Function Check

INFOID:0000000009064902

## 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 to SE-22, "RH: Diagnosis Procedure".

### RH: Diagnosis Procedure

INFOID:0000000009064903

## 1. CHECK REAR SEATBACK POWER RETURN CONTROL UNIT INPUT SIGNAL

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

(+) Power return switch (RH)		(-)	Voltage (V) (Approx.)	
Connector	Terminal		(, 4, 1, 2, 1, 1)	
M175	1	Ground	5	

#### < DTC/CIRCUIT DIAGNOSIS >

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

## 2.check power return switch (RH) circuit

Disconnect rear seatback power return control unit connector.

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		
B226	20	M175	1	Existed

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

Rear seatback power return control unit			Continuity
Connector	Terminal	Ground	Continuity
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.

## ${f 3.}$ CHECK POWER RETURN SWITCH (RH) GROUND CIRCUIT

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

Power return switch (RH)			Continuity
Connector	Terminal	Ground	Continuity
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 to SE-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".

#### CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

#### >> INSPECTION END

## **RH**: Component Inspection

## 1. CHECK POWER RETURN SWITCH (RH)

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

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

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### < DTC/CIRCUIT DIAGNOSIS >

#### Is the inspection result normal?

YES >> Power return switch (RH) is OK.

NO >> Replace power return switch (RH). Refer to <u>SE-153, "Removal and Installation"</u>.

#### < DTC/CIRCUIT DIAGNOSIS >

## REAR SEATBACK SWITCH

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LH: Description INFOID:0000000009064905 В

Switch that performs the return operation or release operation.

### LH: Component Function Check

## 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

## 1. CHECK REAR SEATBACK POWER RETURN CONTROL UNIT INPUT SIGNAL

Turn ignition switch OFF.

2. Disconnect rear seatback switch (LH) connector.

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

(+)  Rear seatback switch (LH)		(–)	Voltage (V) (Approx.)
Connector	Terminal		(/ (pprox.)
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

Disconnect rear seatback power return control unit connector.

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

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

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

Rear seatback power return control unit			Continuity
Connector	Terminal	Ground	Continuity
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)			Continuity
Connector	Terminal	Ground	Continuity
B52	3		Existed

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#### < DTC/CIRCUIT DIAGNOSIS >

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

## f 4.CHECK REAR SEATBACK SWITCH (LH)

Check rear seatback switch (LH).

Refer to SE-26, "LH: Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace rear seatback switch (LH). Refer to <u>SE-155, "Removal and Installation"</u>.

#### CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

#### >> INSPECTION END

### LH : Component Inspection

INFOID:0000000009064908

## 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	
Terr	minal	Condition	Continuity	
2	3	Rear seatback switch (LH) is pressed in UP direction	Existed	
	3	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 <u>SE-155, "Removal and Installation"</u>.

RH

### **RH**: Description

INFOID:0000000009064909

Switch that performs the return operation or release operation.

## RH: Component Function Check

INFOID:0000000009064910

## 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 to SE-26, "RH: Diagnosis Procedure".

## RH: Diagnosis Procedure

INFOID:0000000009064911

## 1. CHECK REAR SEATBACK POWER RETURN CONTROL UNIT INPUT SIGNAL

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

#### < DTC/CIRCUIT DIAGNOSIS >

(+)			V-16 0.0
Rear seatback switch (RH)		(–)	Voltage (V) (Approx.)
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 pow	Rear seatback power return control unit		Rear seatback switch (RH)	
Connector	Terminal	Connector	Terminal	Continuity
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			Continuity
Connector	Terminal	Ground	Continuity
B226	20		Not existed

#### Is the inspection result normal?

YES >> Replace rear seatback power return control unit. Refer to <u>SE-148, "Removal and Installation"</u>.

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)			Continuity
Connector	Terminal	Ground	Continuity
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 to SE-27, "RH: Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace rear seatback switch (RH). Refer to <u>SE-154</u>, "Removal and Installation".

#### 5. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

#### >> INSPECTION END

## **RH**: Component Inspection

## 1. CHECK REAR SEATBACK SWITCH (RH)

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

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#### < DTC/CIRCUIT DIAGNOSIS >

Rear seatbac	ck switch (RH)	Condition	Continuity
Terr	minal	Condition	Continuity
2	3	Rear seatback switch (RH) is pressed in UP direction	Existed
2	3	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 <u>SE-154, "Removal and Installation"</u>.

#### < DTC/CIRCUIT DIAGNOSIS >

### PRIMARY POSITION LIMIT SWITCH

LH

LH: Description

Detect the initial position of sector gear (LH).

LH: Component Function Check

## 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 <u>SE-29</u>, "LH: <u>Diagnosis Procedure"</u>.

### LH: Diagnosis Procedure

## 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)	
Primary position limit switch (LH)		(–)	Voltage (V) (Approx.)	
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

Disconnect rear seatback power return control unit connector.

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	Continuity
B226	21	B512	6	Existed

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

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

#### Is the inspection result normal?

YES >> Replace rear seatback power return control unit. Refer to <u>SE-148, "Removal and Installation"</u>.

NO >> Repair or replace harness.

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

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

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#### < DTC/CIRCUIT DIAGNOSIS >

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

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

Rear seatback pow	er return control unit		Continuity
Connector	Terminal	Ground	Continuity
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 <u>SE-141</u>, "Exploded View".

## 5. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

### LH: Component Inspection

INFOID:00000000009064916

#### COMPONENT INSPECTION

## 1. CHECK PRIMARY POSITION LIMIT SWITCH (LH)

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

Primary position limit switch (LH)		Condition	Continuity	
Terr	minal	Conducti	Continuity	
6	0	Primary position limit switch (LH) is pressed	Existed	
	9	Primary position limit switch (LH) is released	Not existed	

#### Is the inspection result normal?

YES >> Primary position limit switch (LH) is OK.

>> Replace primary position limit switch (LH) [seat device assembly (LH)]. Refer to <u>SE-141.</u> "Exploded View".

RH

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RH: Description

INFOID:0000000009064917

Detect the initial position of sector gear (RH).

### RH: Component Function Check

INFOID:0000000009064918

### 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?

#### < DTC/CIRCUIT DIAGNOSIS >

YES >> Primary position limit switch (RH) is OK.

NO >> Refer to <u>SE-31</u>, "RH: <u>Diagnosis Procedure"</u>.

### **RH**: Diagnosis Procedure

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## 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.

(	+)		Valle ve (V)
Primary position limit switch (RH)		(–)	Voltage (V) (Approx.)
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 pow	er return control unit	Primary position limit switch (RH)		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B226	22	B505	15	Existed

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

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

#### Is the inspection result normal?

YES >> Replace rear seatback power return control unit. Refer to <u>SE-148, "Removal and Installation"</u>.

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	Continuity
B226	23	B505	14	Existed

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

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

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

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#### < DTC/CIRCUIT DIAGNOSIS >

## 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 <u>SE-141, "Exploded View"</u>.

## 5. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

#### >> INSPECTION END

### **RH**: Component Inspection

INFOID:00000000009064920

#### COMPONENT INSPECTION

## 1. CHECK PRIMARY POSITION LIMIT SWITCH (RH)

- 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	
Terr	minal	Condition	Continuity	
14	15	Primary position limit switch (RH) is pressed	Existed	
14	15	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 <u>SE-141.</u> "Exploded View".

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#### < DTC/CIRCUIT DIAGNOSIS >

## RETURN COMPLETE LIMIT SWITCH

LH

LH: Description

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

## LH: Component Function Check

#### INFOID:00000000009064922

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## 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 <u>SE-33</u>, "LH: <u>Diagnosis Procedure"</u>.

### LH: Diagnosis Procedure

## INFOID:0000000009064923

## 1. CHECK REAR SEATBACK POWER RETURN CONTROL UNIT INPUT SIGNAL

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.

(	(+)		\\altaga \\\	
Rear seatback lock assembly (LH)		(–)	Voltage (V) (Approx.)	
Connector	Terminal		(11 /	
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

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

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

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

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

#### Is the inspection result normal?

YES >> Replace rear seatback power return control unit. Refer to <u>SE-148, "Removal and Installation"</u>.

NO >> Repair or replace harness.

## 3.check return complete limit switch (LH) ground circuit

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

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#### < DTC/CIRCUIT DIAGNOSIS >

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

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

Rear seatback pow	er return control unit		Continuity
Connector	Terminal	Ground	Continuity
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 <u>SE-141</u>, "Exploded View".

## 5. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

### LH: Component Inspection

INFOID:0000000009064924

#### COMPONENT INSPECTION

## 1. CHECK RETURN COMPLETE LIMIT SWITCH (LH)

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

Rear seatback lock assembly (LH)		Condition	Continuity
Teri	minal	Condition	Continuity
0	0	Return complete limit switch (LH) is pressed	Existed
O	9	Return complete limit switch (LH) is released	Not existed

#### Is the inspection result normal?

YES >> Return complete limit switch (LH) is OK.

>> Replace return complete limit switch (LH) [rear seatback lock assembly (LH)]. Refer to <u>SE-141.</u> "Exploded View".

RH

NO

### RH: Description

INFOID:0000000009064925

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

## RH: Component Function Check

#### INFOID:0000000009064926

## 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?

#### < DTC/CIRCUIT DIAGNOSIS >

YES >> Return complete limit switch (RH) is OK.

NO >> Refer to <u>SE-35</u>, "RH: <u>Diagnosis Procedure"</u>.

### **RH**: Diagnosis Procedure

INFOID:0000000009064927

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## 1. CHECK REAR SEATBACK POWER RETURN CONTROL UNIT INPUT SIGNAL

1. Turn ignition switch OFF.

- Disconnect rear seatback lock assembly (RH) connector.
- 3. Check voltage between rear seatback lock assembly (RH) harness connector and ground.

(+) Rear seatback lock assembly (RH)		(–)	Voltage (V) (Approx.)
Connector	Terminal		(, 44, 2,)
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 pow	er return control unit	Rear seatback lock assembly (RH)		n control unit Rear seatback lock		Continuity
Connector	Terminal	Connector	Terminal	Continuity		
B226	30	B506	13	Existed		

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

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

#### Is the inspection result normal?

YES >> Replace rear seatback power return control unit. Refer to <u>SE-148, "Removal and Installation"</u>.

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

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

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

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

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#### < DTC/CIRCUIT DIAGNOSIS >

## 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 <u>SE-141</u>, "Exploded View".

## 5. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

#### >> INSPECTION END

### **RH**: Component Inspection

INFOID:0000000009064928

#### COMPONENT INSPECTION

## 1. CHECK RETURN COMPLETE LIMIT SWITCH (RH)

- 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 <u>SE-141.</u> "Exploded View".

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LH

LH: Description

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INFOID:0000000009064930

INFOID:00000000009064931

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

## LH: Component Function Check

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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?

1. CHECK FUNCTION

YES >> Motor sensor (LH) is OK.

NO >> Refer to <u>SE-37</u>, "LH: <u>Diagnosis Procedure"</u>.

## LH: Diagnosis Procedure

## 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.

(+) Rear seatback power return control unit		(-)	Condition	Voltage (V) (Approx.)
Connector	Terminal			(дрргох.)
B227	10	Ground	During the power return motor (LH) operation	(V) 6 4 2 0 JMKIA0070GB  The above pulse width should be
			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

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

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

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

Rear seatback pow	er return control unit		Continuity	
Connector	Connector Terminal		Continuity	
B227	10		Not existed	

#### Is the inspection result normal?

#### < DTC/CIRCUIT DIAGNOSIS >

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.

	(+) Power return motor assembly (LH)		Condition	Voltage (V)
Connector	Terminal			(Approx.)
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.
- 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 pow	er return control unit		Continuity
Connector Terminal		Ground	Continuity
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.

## ${f 5.}$ CHECK MOTOR SENSOR (LH) GROUND CIRCUIT 1

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

Rear seatback pow	Rear seatback power return control unit		Power return motor assembly (LH)		
Connector	Terminal	Connector Terminal		Continuity	
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

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

Rear seatback pow	er return control unit		Continuity
Connector	Connector Terminal		Continuity
B227	9		Existed

#### Is the inspection result normal?

YES >> Replace motor sensor (LH) [seat device assembly (LH)]. Refer to SE-141, "Exploded View".

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

#### < DTC/CIRCUIT DIAGNOSIS >

## 7.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

#### >> INSPECTION END

RH

RH: Description

INFOID:0000000009064932

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

## RH: Component Function Check

## 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.

>> Refer to SE-39, "RH: Diagnosis Procedure". NO

## RH: Diagnosis Procedure

## 1. CHECK MOTOR SENSOR (RH) OUTPUT SIGNAL

Turn ignition switch OFF.

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

(+)  Rear seatback power return control unit		(–) Condition		Voltage (V) (Approx.)
Connector	Terminal			(Αρρίολ.)
B227	2	Ground	During the power return motor (RH) operation	(V) 6 4 2 0 10 ms 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 pow	er return control unit Power return motor assembly (RH)  Continuity		Power return motor assembly (RH)	
Connector	Terminal	Connector Terminal		Continuity
B227	2	B504	18	Existed

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

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#### < DTC/CIRCUIT DIAGNOSIS >

Rear seatback pow	er return control unit		Continuity
Connector	Connector Terminal		Continuity
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.
- Check voltage power return motor assembly (RH) harness connector and ground.

(	+)			V-16 () ()
Power return motor assembly (RH)		(–)	Condition	Voltage (V) (Approx.)
Connector	Terminal			( ) 1 - /
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 pow	Rear seatback power return control unit		Power return motor assembly (RH)		
Connector	Terminal	Connector Terminal		Continuity	
B227	3	B504	17	Existed	

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

Rear seatback pow	er return control unit		Continuity
Connector	Connector Terminal		Continuity
B227	3		Not existed

#### Is the inspection result normal?

YES >> Replace rear seatback power return control unit. Refer to <a href="SE-148">SE-148</a>, "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.
- 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		Continuity
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.

#### < DTC/CIRCUIT DIAGNOSIS >

Rear seatback pow	er return control unit		Continuity	
Connector	Terminal	Ground	Continuity	
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 <u>SE-148</u>, "Removal and Installation".

# 7. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

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#### **POWER RETURN MOTOR**

#### < DTC/CIRCUIT DIAGNOSIS >

### POWER RETURN MOTOR

LH

LH: Description

Operate the rear seatback.

LH: Component Function Check

INFOID:0000000009064936

### 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 <u>SE-42, "LH : Diagnosis Procedure"</u>.

## LH: Diagnosis Procedure

INFOID:0000000009064937

## 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.

Power return motor  Connector	r assembly (LH)  Terminal	(–)	Condition	Voltage (V) (Approx.)			
	1		During the power return motor (LH) reverse operation  Other than the above	Battery voltage			
B511	Ground 2	Ground	Ground	Ground	Ground	During the power return motor (LH) return op-	
			eration	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 <u>SE-141</u>. <u>"Exploded View"</u>.

NO >> GO TO 2.

## 2.CHECK POWER RETURN MOTOR (LH) CIRCUIT

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

Rear seatback pow	er return control unit	Power return motor assembly (LH)		Continuity	
Connector	Terminal	Connector Terminal		Continuity	
B227	5	B511	1	Existed	
DZZI	6	5 5511	2	LXISIEU	

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

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

#### Is the inspection result normal?

#### **POWER RETURN MOTOR**

#### < DTC/CIRCUIT DIAGNOSIS >

YES >> Replace rear seatback power return control unit. Refer to <u>SE-148</u>. "Removal and Installation".

NO >> Repair or replace harness.

RH

RH: Description

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Operate the rear seatback.

RH: Component Function Check

INFOID:00000000009064939

### 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 <u>SE-43</u>, "RH : <u>Diagnosis Procedure"</u>.

## RH: Diagnosis Procedure

INFOID:00000000009064940

## 1. CHECK POWER RETURN MOTOR (RH) INPUT SIGNAL

Turn ignition switch OFF.

2. Check voltage between power return motor assembly (RH) harness connector and ground.

(+) Power return motor assembly (RH)		(–)	Condition	Voltage (V) (Approx.)
Connector	Terminal			, , ,
	20		During the power return motor (RH) reverse operation	Battery voltage
B504		Ground	Other than the above	0
2004	21	Giodila	During the power return motor (RH) return operation	Battery voltage
		†	Other than the above	0

#### Is the inspection result normal?

2.CHECK POWER RETURN MOTOR (RH) CIRCUIT

YES >> Replace power return motor assembly (RH) [seat device assembly (RH)]. Refer to <u>SE-141</u>, "Exploded View".

NO >> GO TO 2.

 Disconnect rear seatback power return control unit connector and power return motor assembly (RH) connector.

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

Rear seatback power	r return control unit	Power return motor assembly (RH)		Continuity
Connector	Terminal	Connector Terminal		Continuity
B227	7	B504	20	Existed
DZZI	8	5304	21	LAISIEU

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

Rear seatback pow	er return control unit		Continuity	
Connector	Terminal	Ground	Continuity	
B227	7	Giodila	Not existed	
	8		Not existed	

#### Is the inspection result normal?

### **POWER RETURN MOTOR**

### < DTC/CIRCUIT DIAGNOSIS >

>> Repair or replace harness.

NO

YES >> Replace rear seatback power return control unit. Refer to <u>SE-148. "Removal and Installation"</u>.

#### **VEHICLE SPEED SIGNAL CIRCUIT**

#### < DTC/CIRCUIT DIAGNOSIS >

## VEHICLE SPEED SIGNAL CIRCUIT

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

## Component Function Check

## 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 <u>SE-45</u>, "<u>Diagnosis Procedure</u>".

## Diagnosis Procedure

## 1. CHECK VEHICLE SPEED OPERATION

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.

	(+) Rear seatback power return control unit		Condition	Voltage (V) (Approx.)	
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)  (V) 6 4 2 0  *** *20ms  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 pow	Rear seatback power return control unit		Unified meter and A/C amp.	
Connector	Terminal	Connector Terminal		Continuity
B226	24	M66	28	Existed

<sup>4.</sup> Check continuity between rear seatback power return control unit harness connector and ground.

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### **VEHICLE SPEED SIGNAL CIRCUIT**

### < DTC/CIRCUIT DIAGNOSIS >

Rear seatback pow	er return control unit		Continuity
Connector	Terminal	Ground	Continuity
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

#### < DTC/CIRCUIT DIAGNOSIS >

## **HEATED SEAT SWITCH**

**DRIVER SIDE** 

DRIVER SIDE : Description

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Adjusts heated seat temperature and deactivates heated seat.

DRIVER SIDE: Component Function Check

INFOID:00000000009064945

## 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 <u>SE-47</u>, "<u>DRIVER SIDE</u>: <u>Diagnosis Procedure</u>".

## DRIVER SIDE: Diagnosis Procedure

INFOID:0000000009064946

## 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.

(+) Heated seat control unit		(–) Condition		on	Voltage (V) (Approx.)
Connector	Terminal				()
				OFF	0
				1 (Min. temperature)	12.24
			Ground Heated seat switch position	2	12.33
B439	67	Ground		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

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

Check continuity between heated seat switch harness connector and ground.

Heated s	eat switch		Continuity
Connector	Connector Terminal		Continuity
M177	2		Not existed

#### Is the inspection result normal?

#### < DTC/CIRCUIT DIAGNOSIS >

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 <u>SE-152, "Removal and Installation"</u>.

### 4. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-42, "Intermittent Incident".

#### >> INSPECTION END

## DRIVER SIDE : Component Inspection

INFOID:0000000009064947

## 1. CHECK FRONT HEATED SEAT SWITCH

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

-	eat switch ninal	Condition		Resistance (KΩ) (Approx.)
	1		ON	0
			OFF	∞
			1 (Min. temperature)	2.400
5	5 2	Heated seat switch position	2	1.800
3			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

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INFOID:0000000009064949

INFOID:0000000009064950

Adjusts heated seat temperature and deactivates heated seat.

### PASSENGER SIDE: Component Function Check

## 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 <u>SE-48</u>, "<u>PASSENGER SIDE</u>: <u>Diagnosis Procedure</u>".

### PASSENGER SIDE: Diagnosis Procedure

## 1. CHECK HEATED SEAT CONTROL UNIT INPUT SIGNAL

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#### < DTC/CIRCUIT DIAGNOSIS >

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

(+) Heated seat control unit		(-)	Condi	tion	Voltage (V) (Approx.)
Connector	Terminal				( .pp. 5)
				OFF	0
				1 (Min. temperature)	12.24
				2	12.33
B462	67	Ground	Heated seat switch position	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

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

Heated s	eat switch	Heated sea	t control unit	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M178	2	B462	67	Existed

Check continuity between heated seat switch harness connector and ground.

Heated s	eat switch		Continuity
Connector	Terminal	Ground	Not existed
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

 ${f 1}$  .CHECK FRONT HEATED SEAT SWITCH

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### < DTC/CIRCUIT DIAGNOSIS >

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

	Heated seat switch Terminal		Condition	
	1		ON	0
			OFF	∞
	5 2	Heated seat switch position	1 (Min. temperature)	2.400
5			2	1.800
5			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 <u>SE-152</u>, "Removal and Installation".

### **HEATED SEAT RELAY**

#### < DTC/CIRCUIT DIAGNOSIS >

### **HEATED SEAT RELAY**

Description INFOID:0000000009064952

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

## Component Function Check

## 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.

>> Refer to SE-51, "Diagnosis Procedure" NO

## Diagnosis Procedure

## 1. CHECK HEATED SEAT RELAY POWER SUPPLY

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

	+)		V (6 0 0)	
Heated seat relay		(–)	Voltage (V) (Approx.)	
Connector	Terminal		(11 - /	
M70	2	Ground	Battery voltage	

#### Is the inspection result normal?

>> GO TO 3. YES

NO >> GO TO 2.

## 2.CHECK HEATED SEAT RELAY POWER SUPPLY CIRCUIT

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

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

Check continuity between heated seat relay terminal connector and ground.

Heated	seat relay		Continuity
Connector	Connector Terminal		Continuity
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

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

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#### **HEATED SEAT RELAY**

#### < DTC/CIRCUIT DIAGNOSIS >

Heated s	Heated seat relay		Continuity
Connector	Terminal	Ground	Existed
M70	1		LAISIGU

#### 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:0000000009064955

## 1. CHECK HEATED SEAT RELAY

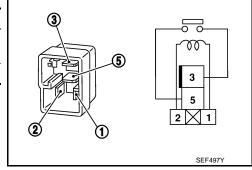
- 1. Turn ignition switch OFF.
- 2. Disconnect heated seat relay.
- 3. Check continuity between heated seat relay terminals.

Terr	minal	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.



**DRIVER SIDE** 

DRIVER SIDE: Description

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INFOID:0000000009064957

INFOID:0000000009064958

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

DRIVER SIDE : Component Function Check

## 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

## 1. CHECK HEAT SENSOR INPUT SIGNAL

1. Turn ignition switch ON.

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

(+ Heated seat		(-)	Condition	Voltage (V) (Approx.)
Connector	Terminal			( + + )
			OFF	0
		69 Ground	1 (Min. temperature)	10.87 – 11.02
			2	10.93 – 11.07
B439	69		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

Turn ignition switch OFF.

- Disconnect heated seat control unit connector and seat cushion heater connector.
- Check continuity between heated seat control unit harness connector and seat cushion heater harness connector.

Heated sea	t control unit	Seat cush	nion heater	Continuity
Connector	Terminal	Connector	Terminal	Continuity
B439	69	B440	69	Existed

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

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

#### Is the inspection result normal?

#### < DTC/CIRCUIT DIAGNOSIS >

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.

(+) Seat cushion heater		(-)	Voltage (V) (Approx.)
Connector	Terminal		(11 - 7
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.
- Check continuity between heated seat control unit harness connector and seat cushion heater harness connector.

Heated s	eat switch	Seat cush	nion heater	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M177	1	B440	66	Existed

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

Heated s	Heated seat switch		Continuity
Connector	Terminal	Ground	Not existed
M177	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-54, "DRIVER SIDE: Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace seat cushion heater. Refer to <u>SE-129, "Exploded View"</u>.

### 6.CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-42, "Intermittent Incident".

#### >> INSPECTION END

### **DRIVER SIDE: Component Inspection**

## 1. CHECK HEAT SENSOR

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

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#### < DTC/CIRCUIT DIAGNOSIS >

Seat cushion heater		0	Resistance
Terr	minal	Condition	(KΩ) (Approx.)
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 <u>SE-129</u>, "Exploded View".

#### PASSENGER SIDE

PASSENGER SIDE : Description

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

### PASSENGER SIDE : Component Function Check

### 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 <u>SE-51</u>, "<u>Diagnosis Procedure</u>"

## PASSENGER SIDE : Diagnosis Procedure

## 1. CHECK HEAT SENSOR INPUT SIGNAL

1. Turn ignition switch ON.

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

	(+) Heated seat control unit		Condition	Voltage (V) (Approx.)
Connector	Terminal			(/ (pprox.)
			OFF	0
	B462 69		1 (Min. temperature)	10.87 – 11.02
			2	10.93 – 11.07
B462		Ground	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

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

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Revision: 2013 March **SE-55** 2014 QX50

#### < DTC/CIRCUIT DIAGNOSIS >

Heated sea	t control unit	Seat cush	nion heater	Continuity
Connector	Terminal	Connector	Terminal	Continuity
B462	69	B463	69	Existed

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

Heated seat control unit			Continuity
Connector	Terminal	Ground	Continuity
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.
- Check voltage between seat cushion heater harness connector and ground.

(+) Seat cushion heater		(-)	Voltage (V) (Approx.)	
Connector	Connector Terminal		(дриох.)	
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.
- Check continuity between heated seat control unit harness connector and seat cushion heater harness connector.

Heated s	eat switch	Seat cush	nion heater	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M178	1	B463	66	Existed

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

Heated s	eat switch		Continuity
Connector	Terminal	Ground	Not existed
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 <u>SE-129, "Exploded View"</u>.

#### 6.CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-42, "Intermittent Incident".

#### < DTC/CIRCUIT DIAGNOSIS >

>> INSPECTION END

## PASSENGER SIDE: Component Inspection

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## 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		0 100	Resistance
Terr	minal	Condition	(K $\Omega$ ) (Approx.)
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 <u>SE-129</u>, "Exploded View".

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#### < DTC/CIRCUIT DIAGNOSIS >

### SEAT CUSHION HEATER

**DRIVER SIDE** 

DRIVER SIDE : Description

INFOID:0000000009064964

Warms the seat cushion.

DRIVER SIDE: Component Function Check

INFOID:0000000009064965

## 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:00000000009064966

## 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.

	+) nion heater	(–)	Condition		Voltage (V) (Approx.)
Connector	Terminal				( ) [
B440	68	Ground	Heated seat	Operated	0 – Battery voltage
D440	00	Giouna	nealed Seal	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.
- Disconnect heated seat control unit connector.
- Check continuity between seat cushion heater harness connector and heated seat control unit harness connector.

Seat cush	nion heater	Heated sea	t control unit	Continuity
Connector	Terminal	Connector	Terminal	Continuity
B440	68	B439	68	Existed

Check continuity between seat cushion heater harness connector and ground.

Seat cush	nion heater		Continuity
Connector	Terminal	Ground	Continuity
B440	68		Not existed

#### Is the inspection result normal?

YES >> Replace heated seat control unit. Refer to <u>SE-149</u>, "Removal and Installation".

NO >> Repair or replace harness.

## 3.check seat cushion heater

#### < DTC/CIRCUIT DIAGNOSIS >

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".

f 4.CHECK SEAT CUSHION HEATER GROUND CIRCUIT

Check continuity between seat cushion heater harness connector and ground.

Seat cust	nion heater		Continuity	
Connector	Terminal	Ground	Continuity	
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

- 1. CHECK SEAT CUSHION HEATER 1. Turn ignition switch OFF.
- Disconnect seat cushion heater connector and seatback heater connector.
- Check resistance between seat cushion heater terminals as follows.

Seat cushion heater			Resistance
Terr	minal	Condition	$(\Omega)$ (Approx.)
59	68	When heat sensor temperature is 20°C (68°F)	2.6 – 3.0

Resistance value changes according to temperature.

#### Is the inspection result normal?

YES >> INSPECTION END

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

#### PASSENGER SIDE

Warms the seat cushion.

PASSENGER SIDE: Description

## PASSENGER SIDE: Component Function Check

## CHECK SEAT CUSHION HEATER FUNCTION

Check that heated seat warms to preset temperature when operating heated seat switch to the optimal posi-

#### Is the inspection result normal?

Revision: 2013 March

YES >> Seat cushion heater function is OK.

>> Refer to SE-59, "PASSENGER SIDE: Diagnosis Procedure". NO

## PASSENGER SIDE : Diagnosis Procedure

## ${f 1}$ .CHECK FRONT SEAT CUSHION HEATER INPUT SIGNAL

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#### < DTC/CIRCUIT DIAGNOSIS >

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

	(+) Seat cushion heater		Condition		Voltage (V) (Approx.)
Connector	Terminal				(, tpp:ox.)
B463	68	Ground	Heated seat	Operated	0 – Battery voltage
Б403	08	Giodila	i leateu seat	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.
- Disconnect heated seat control unit connector.
- Check continuity between seat cushion heater harness connector and heated seat control unit harness connector.

Seat cush	nion heater	Heated sea	t control unit	Continuity
Connector	Terminal	Connector	Terminal	Continuity
B463	68	B462	68	Existed

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

Seat cush	nion heater		Continuity
Connector	Terminal	Ground	Continuity
B463	68		Not existed

#### Is the inspection result normal?

YES >> Replace heated seat control unit. Refer to <u>SE-149</u>, "Removal and Installation".

NO >> Repair or replace harness.

## 3.CHECK SEAT CUSHION HEATER

Check seat cushion heater.

Refer to SE-61, "PASSENGER SIDE: Component Inspection".

### Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace seat cushion heater. Refer to <u>SE-129</u>, "Exploded View".

## f 4 .CHECK SEAT CUSHION HEATER GROUND CIRCUIT

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

Seat cush	nion heater		Continuity
Connector	Terminal	Ground	Continuity
B463	59		Existed

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

## 5. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

#### < DTC/CIRCUIT DIAGNOSIS >

Refer to GI-42, "Intermittent Incident".

#### >> INSPECTION END

## PASSENGER SIDE: Component Inspection

#### INFOID:00000000009064971

## 1. CHECK SEAT CUSHION HEATER

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

Seat cush	nion heater	O an alistic an	Resistance
Terr	ninal	Condition	(Ω) (Approx.)
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?

>> INSPECTION END YES

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

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### **SEATBACK HEATER**

#### < DTC/CIRCUIT DIAGNOSIS >

## SEATBACK HEATER

**DRIVER SIDE** 

DRIVER SIDE : Description

INFOID:0000000009064972

Warms the seat back heater.

DRIVER SIDE: Component Function Check

INFOID:0000000009064973

### 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:00000000009064974

### 1. CHECK SEATBACK HEATER

1. Turn ignition switch OFF.

- 2. Disconnect seatback heater connector.
- Check resistance between seatback heater terminals.

	Seatback heater		O I''	Resistance
Connector	Terr	minal	Condition	$(\Omega)$ (Approx.)
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 <u>SE-129</u>, "Exploded View".

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

#### PASSENGER SIDE

PASSENGER SIDE: Description

INFOID:0000000009064975

Warms the seat back heater.

## PASSENGER SIDE: Component Function Check

INFOID:0000000009064976

## ${f 1}$ .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 <u>SE-62, "PASSENGER SIDE : Diagnosis Procedure"</u>.

### PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000009064977

## 1. CHECK SEATBACK HEATER

- Turn ignition switch OFF.
- Disconnect seatback heater connector.
- Check resistance between seatback heater terminals.

### **SEATBACK HEATER**

### < DTC/CIRCUIT DIAGNOSIS >

	Seatback heater		0	Resistance
Connector	Terr	minal	Condition	(Ω) (Approx.)
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 <u>SE-129, "Exploded View"</u>.
- NO >> Replace seatback heater. Refer to <u>SE-129, "Exploded View"</u>.

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### **HEATED SEAT SWITCH INDICATOR**

#### < DTC/CIRCUIT DIAGNOSIS >

### HEATED SEAT SWITCH INDICATOR

**DRIVER SIDE** 

DRIVER SIDE : Description

INFOID:00000000009064978

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

DRIVER SIDE: Component Function Check

INFOID:0000000009064979

### ${f 1}$ .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 <u>SE-64, "DRIVER SIDE : Diagnosis Procedure"</u>.

## DRIVER SIDE: Diagnosis Procedure

INFOID:0000000009064980

## 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 s	eat switch		Continuity
Connector	Terminal	Ground	Continuity
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 <u>SE-152, "Removal and Installation"</u>.

## 3. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-42, "Intermittent Incident".

#### >> INSPECTION END

## **DRIVER SIDE: Component Inspection**

INFOID:0000000009064981

## 1. CHECK HEATED SEAT SWITCH

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

Heated s	eat switch	
Terr	ninal	Continuity
(+)*	(-)*	
5	6	Existed
6	5	Not existed

### **HEATED SEAT SWITCH INDICATOR**

#### < DTC/CIRCUIT DIAGNOSIS >

*For a digital tester.	
NOTE:	A
• Use a tester that can perform LED (light-emitting diode) measurement.	
<ul> <li>The polarity (+ and –) reverses when checking using an analog tester.</li> <li>Is the inspection result normal?</li> </ul>	
YES >> INSPECTION END	В
NO >> Replace heated seat switch. Refer to <u>SE-152</u> . "Removal and Ins	tallation".
PASSENGER SIDE	C
PASSENGER SIDE : Description	INFOID:0000000009064982
Illuminates the indicator that indicates the operating status of heated seat.	D
PASSENGER SIDE : Component Function Check	INFOID:000000009064983
1.CHECK FUNCTION	Е
Check that the related indicator lamp illuminates when heated seat switch is	turned ON.
Is the inspection result normal?	F
YES >> Heated seat switch indicator function is OK. NO >> Refer to <u>SE-65</u> , " <u>PASSENGER SIDE</u> : <u>Diagnosis Procedure</u> ".	
	G
PASSENGER SIDE : Diagnosis Procedure	INFOID:000000009064984
1. CHECK HEATED SEAT SWITCH INDICATOR GROUND CIRCUIT	——— Н
1. Turn ignition switch OFF	
<ol> <li>Disconnect heated seat switch connector.</li> <li>Check continuity between heated seat switch harness connector and groups.</li> </ol>	ound.
	1
Heated seat switch	Continuity
Connector Terminal Ground	SE
M178 6	Existed
Is the inspection result normal?  YES >> GO TO 2.	
1 E.3 33 (3() 1() /	I/
NO >> Repair or replace harness.	K
	K
NO >> Repair or replace harness.  2.CHECK HEATED SEAT SWITCH  Check heated seat switch.	K
NO >> Repair or replace harness.  2.CHECK HEATED SEAT SWITCH	L
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.	L
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 Inspection".	L
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 Ins.  3.CHECK INTERMITTENT INCIDENT	L
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 Inspection".	tallation".
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 Instance of SE-152."  Check INTERMITTENT INCIDENT  Check intermittent incident.	M tallation".
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 Ins.  3.CHECK INTERMITTENT INCIDENT  Check intermittent incident. Refer to GI-42, "Intermittent Incident".	tallation".

- 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.

Revision: 2013 March **SE-65** 2014 QX50

### **HEATED SEAT SWITCH INDICATOR**

#### < DTC/CIRCUIT DIAGNOSIS >

Heated s	eat switch	
Teri	minal	Continuity
(+)*	(-)*	
5	6	Existed
6	5	Not existed

<sup>\*</sup>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?

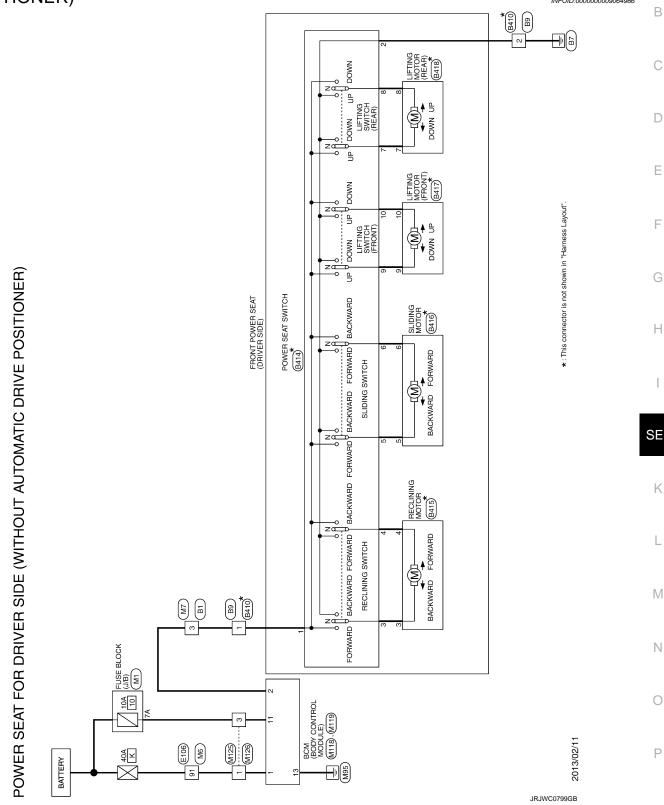
YES >> Heated seat switch is OK.

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

## **POWER SEAT**

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

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	Commercior Type INSTOPW.CS	H.S. [4 ] 6   5   109	Terminal Color Of Signal Name (Specification) No. Wire	2 B -	5 W		-	9 L/R .		Connector No. B415	Connector Name RECLINING MOTOR	Connector Type NS02FW-CS	_			ان. ان.		Terminal Color Of Circus Name (Securification)	Wire	3 G/Y -	1				
o.	Corrector Type MOSEW-LC	H.S. 66 672	Terminal Color Of Signal Name [Specification] No. Wire	2 B · · · · · · · · · · · · · · · · · ·	66 GR -		Connector No. B410	Connector Name WIRE TO WIRE	Connector Type NS06MW	-		1 66	2 67 60		Terminal Color Of Signal Name [Specification]	H	2 B	<b>B</b>	. L						
HOUT AUTOMATIC	iσ	66 SB	₩	++	79 GR -	H	} >-	88 89 89 B	BG	92 BR	o 8		> 3	F											
SEAT FOR B1 WIRE TO WIRE	Connector Type   TH80FW-CS16-TM4	0 0 0 0	Terminal Color Of Signal Name [Specification] No. Wire 3 R	H	8	12 SB -	GR	15 LG	18 SB -	20 BR -	SHIELD	24 P	27 B .		SHIELD	M	33 SB -	35 P	Н	37 P	Α.	+	45 GK -	Н	49 G 50 V

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## **POWER SEAT**

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ONER   State   Colored	
Corrector Name   Corr	S
Corrector Na.    Earling   Connector Na.   B416	
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Revision: 2013 March **SE-69** 2014 QX50

POWER 9	POWER SEAT FOR DRIVER SIDE	WIT	HOU	DRIVER SIDE (WITHOUT AUTOMATIC DRIVE POSITIONER)	TIONE	æ				
onnector No.	M6	43	3 BG		86	SHIELD		45	GR	
Connector Name	WIRE TO WIRE	4	Н		66	>		46	FG	
		49	+		9	SB		47	SB	
Connector Type	TH80MW-CS16-TM4	200	+					49	> 0	
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9 BR		72	H		ო	W	<ul> <li>[Without automatic drive positioner]</li> </ul>	- 22	В	
10 R		73	H	-	2	9		78	Ь	-
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		91	1 W		34	٦				
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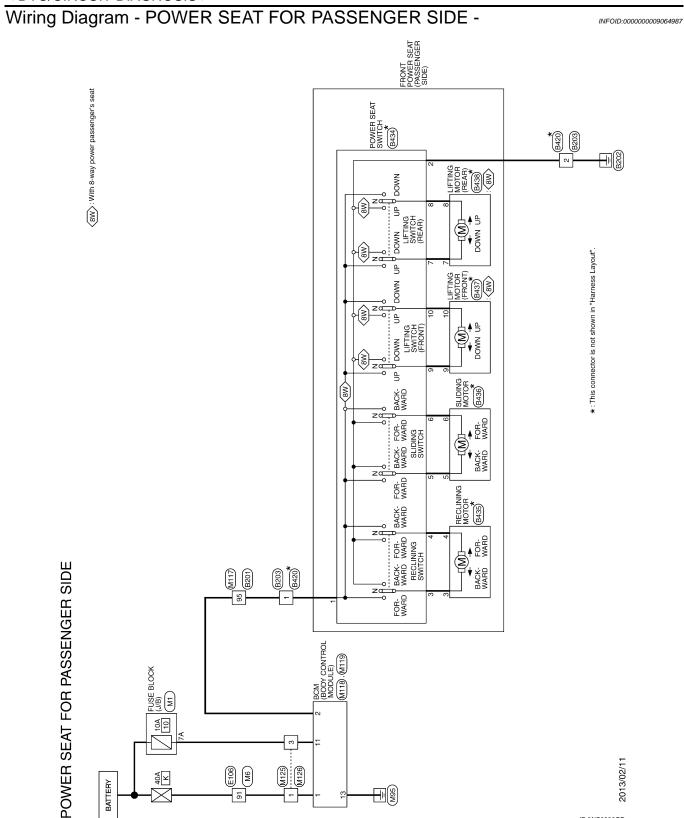
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	-	Connector Name RECLINING MOTOR	Connector Type NS02FW-CS							# 10 T	_			Terminal Color Of Size (Size (		200	5	- A P			Connector No DASE	-1	Connector Name SLIDING MOTOR		Connector Type 6098-0239												No. Wire signal Name [specification]	2011	, M	^ 9		I																																						
		Connector Name WIRE TO WIRE	Connector Type NS06MW	1			<b> </b>				7 6/1 60			Terminal Color Of Sizzed Name (Sizzed)		0	+	-	60 Y/R	α					Connector No. B434	The state of the s	Connector Name POWER SEAL SWITCH	Connector Type NS10FW_CS	and the same and t				7 8 7		6 5 9 10 3 4					Terminal Color Of	No Wire Signal Name [Specification]		$\dashv$	2 B -	┝	t	:::	^ 0			t	+	_																											
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60	. B201	WIRE TO WIRE	TH80FW-CS16-TM4				1				Ь			[military]	organia regime [observatoria				GR -	BG .			- M								L	GR .	α					= 0			, a	'					- 6							 CHER			· ·	SB																						
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Revision: 2013 March SE-73 2014 QX50

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PASSENGER SIDE	Τ	Connector Name WIRE TO WIRE	Connector Type TH80FW-CS16-TM4			111	Ę	Ш			Terminal Color Of Signal Name (Specification)	е	٦ -		3 В	4 GR -	5 GR -	Н	9 BR -	10 BG -	11 SB -	Н		Н		> 60	200	f	7		23 6 -	24 P	25 Y	> :	+	$\dashv$	31 BG -	32 W	ď		× **		36 SHIELD -	>	. 8	
GER	T										Signal Name (Specification)	IIcationij						PE4P)	NA)			ſ	Īī	<u> </u>	8	1			Signal Name [Specification]																	

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### **POWER SEAT**

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Revision: 2013 March SE-75 2014 QX50

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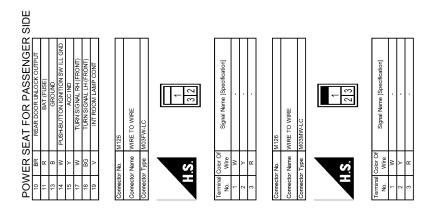
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Wiring Diagram - LUMBAR SUPPORT SYSTEM -

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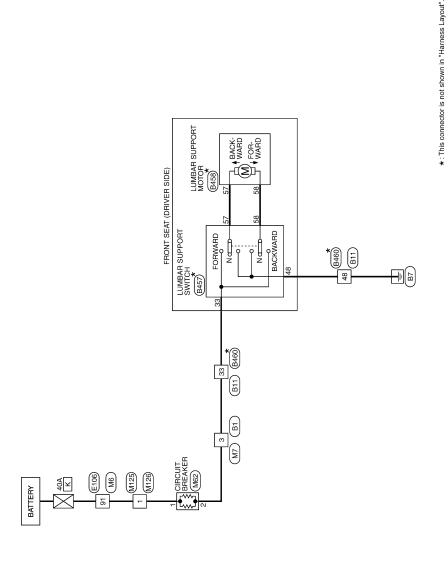
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**LUMBAR SUPPORT** 

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27		96	>		Connec	tor Name	Connector Name   LUMBAR SUPPURI SWITCH	Terminal Color Of	Г
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Revision: 2013 March SE-79 2014 QX50

	Connector No. M126	Connector Name TO WIRE	П	Connector Type M03MW-LC					<u>د</u> د	2.3			펼	I W		. 22	1											ſ					7											
	Connector No. M62	Connector Name CIRCLIIT BREAKER	. І	Connector Type M02FW-P-LC	٠		I			7			Terminal Color Of   Signal Name [Specification]	1		┨		Connector No. M125	Connector Name   WIRE TO WIRE		Connector Type M03FW-LC				U E	3 5	]		Terminal Color Of   Signal Name [Specification]		M >-	H												
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ABAR SUPPORT		BR -		GR -			SHIELD -		BS			Connector No. M7	Connector Name WIRE TO WIRE	TH80MW-CS16-TM4			8	2 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	S S S S S S S S S S S S S S S S S S S			<u> </u>	Signal Name [Specification]	SB - [With automatic drive positioner]	W - [Without automatic drive positioner]		BG -			- SB	13 [6	. 0		SB		BR	SHIELD -		В		30   SHIELD   -	+	$\dashv$	34 L

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Α Wiring Diagram - REAR SEATBACK RELEASE CONTROL -INFOID:0000000009064989 В C D Е F \*: This connector is not shown in "Harness Layout". RELEASE RELAY (RH) REAR SEATBACK RELEASE SWITCH (RH) Н B224 SE Κ RELEASE RELAY (LH) REAR SEATBACK RELEASE CONTROL T REAR SEATBACK
| RELEASE SWITCH
| (LH)
| B49 L B243 Bee M FUSE BLOCK (J/B) Ν MIZB BZO1 0 2013/02/11 Р

**SE-81** Revision: 2013 March 2014 QX50

REAR SEATBACK RELEASE CONTROL	30L						
Connector No. B49	Connector No.	B201	72	۸		Connector No.	o. B234
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COMPECTOR NAME   REAR SEALBACK SWITCH (LH)	Connector Name		75	>		Cormector IN	ame wire 10 wire
Connector Type TK06FW-1V	Connector Type	TH80FW-CS16-TM4	80	٨	-	Connector Type	/pe NS16MW-CS
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3 B	2 R	,	95	SB		4	BR -
	3 GR		8	ပ		2	
	4 BG		26	9		9	GR -
Connector No. B66	7 16		86	ď		89	
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Connector Name WIRE TO WIRE	15 SB		100	_	4	10	
Connector Type TH24MW-NH	16 V					1	
1	17 BR					12	
	26 BR		Come	Connector No.	B233	13	
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	> 80		Come	Connector Name	REAR SEATBACK SWITCH (RH)	╀	200
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Corrector No. B613 Corrector Name Renk SextBack LOCK ASSEMBLY LUII Corrector Type NSO4FV/CS  H.S.	Terminal Color Of   Signal Name [Specification]   Na.   Wires   Signal Name [Specification]   Signal Name   Signal Name   Specification]   Signal Name   S	Terminal Color Col   Signal Name (Specification)   N.   Wine   N
6 SB	H.S.	Terminal Color Off Signal Name [Specification]  1 LG/B  3 GR/B  5 GR/B  6 L/W  9 U/B  11 W
ROL   Corrector No.   B501   Corrector Name   WIRE TO WIRE   Corrector Type   NS16FW-CS	Terminal Color Of Signal Name (Specification)	Corrector No.   BS03
REAR SEATBACK RELEASE CONTROL   13   L	Terminal Color Of Signal Name (Specification)  No. Write  2 BS  3 W  5 W  Corrector No. R247  Corrector Name RAM SEATSACK RELEASE RELAY(RW)  Corrector Type MS022-LA3-LC	1   Signal Name   Specification

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Corrector Name   Corr	REAR SE	REAR SEATBACK RELEASE CONTROL	TRO TRO	SHIELD	<u>-</u>		Connector No.		M126
Mile	╛		8	5			Connector		/1126
MITT   Name			69	_	_		Commondor		TO MIDE
Military	L		70	_			Connector		VIRE TO WIRE
Name to whee   Name	1		7	Ü.			Connector	d CA	ADBAWK-I C
MITT   15   15   15   15   15   15   15			2	5 5				2	
Theolywer Cast Grand	ortor No	M4147	i g				_	•	
H.S.	2		2 1	1				•	
THEOMAN-CSIG-TM4   Signal Name [Specification]   Terminal Color of Name   Signal Name [Specification]   Signal Name [Specification]   Terminal Color of Name	ector Nam		2 8	5 /			_		Ŀ
The Bown V-Stife TM4   Signal Name   Specification   Speci		╛	98	1					
Signal Name   Specification    Signal Name   Specification    Signal Name   Specification    No. Wire   No.	ector Type		81	S			Ę	,	c
Signal Name [Specification]   Signal Name [Specification]   Specification   Signal Name [Specification]   Signal Name [Speci			82	_			•	3	2 3
Signal Name   Specification    Specification    Signal Name   Specification    Specificatio	•	999	83	Ľ					
Signal Name [Specification]   Signal Name [Specification]   No. wire   No.		3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	84	ľ					
Signal Name   Specification			i d	1			A	20	
Signal Name [Specification]   Sign		1 11 11 11 11 11 11 11 11 11 11 11 11 1	es S	_			lermina	500	Signal Name [Specification]
Signal Name [Specification]   Sign	<b>⊘</b>	F 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	98	ĕ				Wire	figure and charge and
Signal Name [Specification]   Sign	è		87	Ľ			-	۸	
Signal Name [Specification]   92   G			88	ш.			2	<b>&gt;</b>	
Signal Name   Specification   94   G   C			6	ľ			e	2	
Signal Name (Specification)   34   G   G	2	0.0	8				,		
Wife Control of Contro	inal Color		35	7					
CGR   SGR   W     CGR   SGR   W     SGR   SGR   SGR     SGR   SGR   SGR   SGR     SGR   SGR   SGR   SGR     SGR   SGR   SGR   SGR     SGR   SGR   SGR   SGR   SGR     SGR   SGR   SGR   SGR   SGR     SGR   SGR   SGR   SGR   SGR   SGR     SGR   SGR   SGR   SGR   SGR   SGR   SGR     SGR   SGR   SGR   SGR   SGR   SGR   SGR     SGR   SGR   SGR   SGR   SGR   SGR   SGR   SGR     SGR	┥		95 45	_					
C   C   C   C	_	•	92	5					
GR         97         Y           SB         P         P           W         99         P           W         99         P           SB         P         100         L           V         100         SB         R           V         Y         Corrector No.         MT25           V         Y         Corrector No.         WRE T.           R         R         R         R           R         R         R         R           B         R         R         R           C         R         R         R           B         R         R         R           C         R         R         R           C         R         R         R           B         R         R         R           C         R         R         R           C         R         R         R           C         R         R         R           D         R         R         R           D         R         R         R           D         R         R         R <td>-</td> <td></td> <td>96</td> <td>9</td> <td></td> <td></td> <td></td> <td></td> <td></td>	-		96	9					
SS   SS   SS   SS   SS   SS   SS   S	H		97						
W   September	t		å	ā					
W   W   SB   P   P     SB   C   C   C     V   V   V   C     V   V   V     V   V   V     V   V	+		8	+		L			
SB   100   V   100   SB   100   V   100   SB   SB   SB   SB   SB   SB   SB			86	_		USE audio]			
V   V   Cornector No.   I   V   V   V   V   V   V   V   V   V		-	66			SE audio]			
V   V   Corrector No.   M.25     ER     Corrector No.   M.25     V   Corrector Name   WIRE T     V   Corrector Name   WIRE T	L		100	L		OSE audio]			
BR	>		100	L		SE audiol			
ER   Cornector No.   M125	+			4					
LG   Cornector No.   M125     Y   Cornector Name   WIRE 1     V   Cornector Type   M03FW     V   Wire   Wire     V   Wire     V   Wire	+								
1.6   Cornector No.   M725	+								
Y   Corrector Name   WINE T			Connec	tor No.	M125				
Y   Corrector Name   WHRE1     R   R     Corrector Type   MOSFW     R   R     Corrector Type   MOSFW     R   R     Corrector Type   MOSFW     R   R     Corrector Of     No.   Wire   R     L   R     R     L   R     R     L   R     R     R   R     R     R   R     R     R   R	\ -				_				
V   Corrector Type   MOSFW     BR                       W   W	Ł		Connec	tor Nan					
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No.	+		50	2	7				
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C   C   C   C   C   C   C   C   C   C	_	-		1	<u> </u>	П			
No.	F			1					
W	H								
E	ŀ		`	Ė		T			
R   R   C   C   C   C   C   C   C   C	+		•	2		2			
C   C   C   C   C   C   C   C   C   C	4			l	2	1			
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SYHELD   Terminal Color Of   Terminal Color	L	•							
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1	T		2	3 %		Specification]			
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1	-		-	s					
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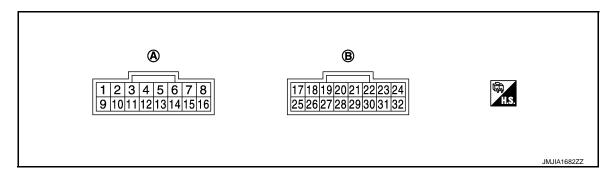
< ECU DIAGNOSIS INFORMATION >

# **ECU DIAGNOSIS INFORMATION**

## REAR SEAT BACK POWER RETURN CONTROL UNIT

Reference Value

**TERMINAL LAYOUT** 



A. B227

B. B226

#### PHYSICAL VALUES

Rear seat back power return control unit

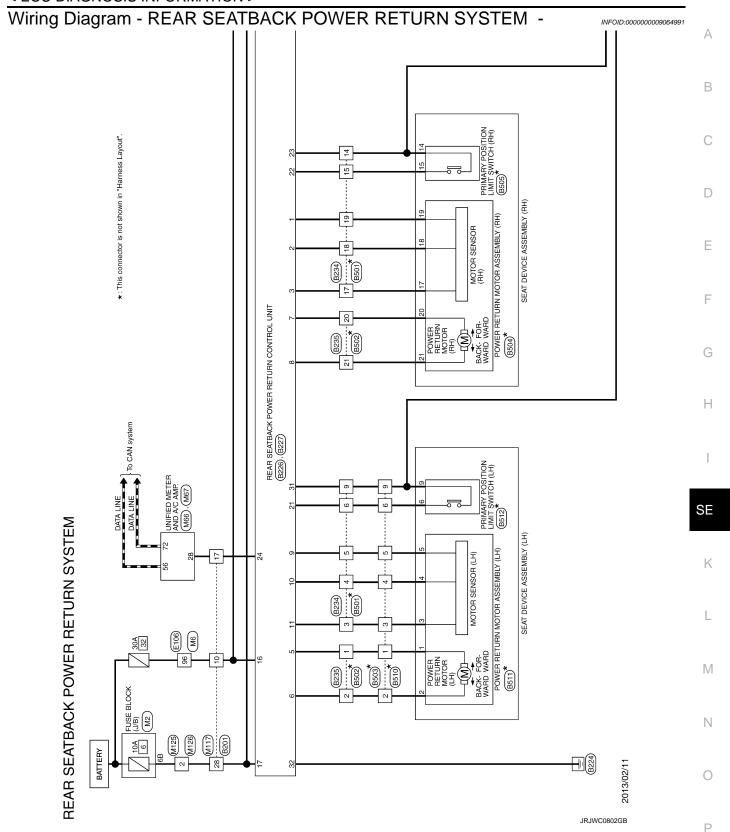
	ninal No. re color)	Description		Condition	Voltage (V)
(+)	(-)	Signal name	Input/ Output	Condition	(Approx.)
1 (V)	Ground	Ground (Motor sensor RH)	_	_	0
2 (Y)	Ground	Motor sensor (RH) input signal	Input	When the power return motor (RH) is operated	(V) 6 4 2 0 10 ms
				When the pinch occurs	The above 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) back- ward signal	Output	When the power return motor (LH) performs reverse operation	Battery voltage
(GIV)		waru signai		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
(L)		waru signai		Other than the above	0
7 (SB)	Ground	Power return motor (RH) back- ward signal	Output	When the power return motor (RH) performs reverse operation	Battery voltage
(36)		waru signai		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
(11)		wara signal		Other than the above	0
9 (P)	Ground	Ground (Motor sensor LH)	_	_	0

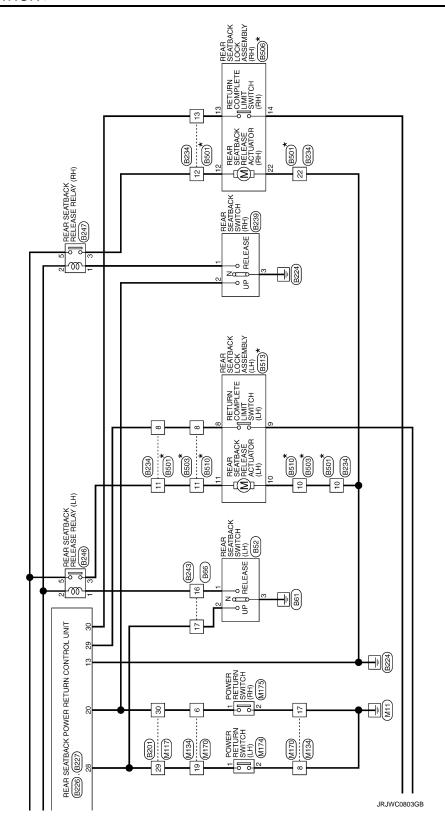
### < ECU DIAGNOSIS INFORMATION >

	ninal No. re color)	Description		Condition	Voltage (V)
(+)	(-)	Signal name	Input/ Output	Condition	(Approx.)
10 (BR)	Ground	Motor sensor (LH) input signal	Input	When the power return motor (LH) is operated	(V) 6 4 2 0 10 ms
				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	Input	When pressing the power return switch (RH) or rear seatback switch (RH) in UP direction	0
		UP direction input signal		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)  (V) 6 4 2 0 + 20ms 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  Other than the above	0
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

### < ECU DIAGNOSIS INFORMATION >

	ninal No. re color)	Description		Condition	Voltage (V)
(+)	(-)	Signal name	Input/ Output	Condition	(Approx.)
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





### < ECU DIAGNOSIS INFORMATION >

	B201         72         W         -         Connector No.	me         WIRE TO WIRE         73         BR         .         Compector Name         REARSEATBACK POWER RETURN CONTROL.	TH80FW-CS16-TM4 80		d 88		- BB 98	87	- B	Signal Name [Specification]	22 TA V VIII VIII VIII VIII VIII VIII VIII		NO		10 dd 800	99 P	- 100		- 10 BR	- Connector No.   B226   11   LG	Connector Name REAR SEATBACK POWER RETURN CONTROL 13	UNIT 16 W	Connector Type   YAA16FW	In Connection No. 1	COLINECTOR						Terminal Color Of Signal Name (Specification)	No. Wire	17 Y SYSTEM)		21 RP PRINTER DATE OF Transmission Collection Collection	23 BG GND (RHL/S)	24 BR SPEED 8P 3	P - 28 LG FLIP DFSWLH 4 BR .	W RETURN COMPLETE L/S (LH) 5	30 R RETURN COMPLETE L/S (RH)	31 L (SMD (H LS) 8 W	32 8	
RN SYSTEM	Connector No.	Connector Name	Connector Type			Ě	ŽĮ.			lerminal Color Of	+	- 0	2 0	$^{+}$	+	+	15 SB	╀	H	26 BR	27 L	788	+	2 G	38 ×	+	+	H	H	Г	28 B	┑	4	M 60	+	3 2	99	99	7 L9	68 SHELD	> 2	71 V0	+
щÌ	Connector No. B52	Connector Name REAR SEATBACK SWITCH (LH)	Connector Type TK06FW-1V	•		пŀ	1.3.			I erminal Color Of Signal Name [Specification]			$^{+}$	1		Connector No B66	000	Connector Name WIRE TO WIRE	Connector Type TH24MW-NH				11913111111111	12444510	13 14 15 10 16 17 10 16 1			No. Wire Signal Name [Specification]	H		3 B	13 L	+	20 62	+	3 a	1						

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REAR SEATBACK POWER RETURN SYSTEM	RN SYSTEM				
11 W	Connector No. B243	Connector No.	B247	Connector No. B502	
12 W -	CF LCCCC		A DECEMBER OF THE PROPERTY OF	LEGIST	
13 R	Comector Name   WIRE   O WIRE	Connector Nam	MEAN SEATBACK RELEASE RELAT (RT)	Connector Name   WIRE   O WIRE	
14 BG -	Connector Type TH24FW-NH	Connector Type	Connector Type MS02FL-M2-LC	Connector Type M04FW-LC	
15 BR -					
17 6		_	c		
18 Y -			3	Ī	
19 V -			4	21 20	
22 B -	321	SHV	1	ر ا	
	1817/16/15/14/13		2×1		
Connector No. 18235					
	Terminal Color Of	Terminal Color Of	L	Terminal Color Of	
Connector Name WIRE TO WIRE	No. Wire Signal Name [Specification]	No. Wire	Signal Name [Specification]	No. Wire Signal Name [Specification]	lion]
Connector Type M04MW-LC	1 LG	۲		α.	
	2 R	2 Y		2 R/W	
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	+	+		f	
	ľ	-		1	
50.21	+				
7	+				
	$\dashv$	Connector No.	B501	Connector No. B503	
	17 LG -	Connector Nam	Connector Name   WIRE TO WIRE	Connector Name WIRE TO WIRE	
	18 L -				
a		Connector Type	Connector Type NS16FW-CS	Connector Type NS10FW-CS	
Olginal Iwalino					
1 GR -	Connector No. B246	_			
Н	Compared Name DEAD SEATER OF LEASE DELIANCE HIS			Ī	
_			12 22 13 14	118	
21 R -	Connector Type MS02FL-M2-LC	SEV.	193456981011	106 9 5 4 2	
					-
Commondes No. 1990	~				
- 1	Į	3			
Connector Name REAR SEATBACK SWITCH (RH)	2	lerminal Color Of	Signal Name [Specification]	Signal Name [Specification]	lion]
T. T		+	10	+	
		+		+	
		4 G/B		9	
		$\dashv$		┥	
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		8	•	- SB 9	
	1 BR	6		. 0 8	
	2 BG -	10 B		> 6	
	3 W	11 V/W		10 B	
	H	12 W	•	- 11 V/W	
Terminal Color Of		+		1	
No Wire Signal Name [Specification]		14 I /B			
1 86		t			
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+		18 GR/B			
┨		19 GR			
		22 00			
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SEMBLY (LH)		peofilication)	В
B513 REAR SEATBACK LOCK ASSEMBLY (L!) NSOAFW-CS	8 9 10 11	Signal Name (Specification)  E106  WIRE TO WIRE  THEOFW.CS16.TM4  CHARTON (Specification)  Signal Name (Specification)	С
Cornector No. B513 Cornector Name REAR SEA/TBA Cornector Type NSO4FW-CS	H.S.	Terminal   Color Old	D
Y(LH)		ton]	Е
BB11 POWER RETURN MOTOR ASSEMBLY (LH) 6098-0245	2 4 5 3	Signal Name (Specification)  MOTOR SENS BAT  MOTOR SENS GIGNAL  FRAMARY POSITION LAMT SWITCH(LL/H)  TKGZFW  Signal Name (Specification)	F
9 o	H.S.		G
Connector No. Connector Nan Connector Typ		Terminal Color   No. Wir   No. Wir   No. Wir   No. Wir   No. Wir   No. Cornector No. Cornector No. No. Wir   No. W	Н
BSO6 PREAT SEATBACK LOCK ASSEMBLY (PH) NSO4PW-CS	13 14 22 12	Signal Name (Specification)  W.CS  1 3 m 8 11  2 4 5 9 6 10  Signal Name (Specification)	I
		WIRE T	SE
V SYSTEM Connector No. Connector Name Connector Type	H.S.	Terminal Color Of Wire   13	К
REAR SEATBACK POWER RETURN SYSTEM Connector Name   BEGGA   Connector Name   Connector Name	<u>8 17</u>	NS BAT NS GND NTCH (8t)	L
ATBACK POWER RI BSG4 POWER RETURN MOTOR ASSEMBLY (RH) 6096-0245	21 20 18 19 17	Signal Name (Specification)  MOTOR SENS BAT  MOTOR SENS GAWL  MOTOR SENS GAWL  MOTOR SENS GAWL  TKOZEW  Signal Name (Specification)  Signal Name (Specification)	M
REAR SEATBAC Connector No. B504 Connector Name POWER RETI Connector Type 6098-0245	H.S.	Terminal Color Of Terminal Col	N
			0
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		ı																ı					- [With ICC]	- [Without ICC]		- [Without ICC]	- [With ICC]	- [Without ICC]	- [with ICC]	- [Without ICC]	- [Without ICC]	- [With ICC]	-						-	-		-			-				
	BG	^	_	<u>a</u>	CH CH	>	ဟ	*	_	9	SB	ŋ	В	W	~	SHIELD	<b>\</b>	GR	PI	97	٨	SB	BR	_	o j	GR	>	2 0		u 02	<b>*</b>	<b>×</b>	SB	SB	SB	>	ŋ	_	Ь	*	GR	SHIELD	W	Υ	BR	Ъ	GR	Μ	_
	43	45	49	209	۲,	\$	22	29	09	61	62	63	64	92	99	29	89	69	20	71	72	73	74	74	75	9/	76	11	78	78	79	79	80	81	82	83	84	85	86	87	88	06	91	92	93	94	92	96	97
	M6	L CONTRACTOR CONTRACTO	WIRE TO WIRE	TH80MW-CS16-TM4		19	x 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		4 3				Signal Name (Specification)	oignal varne [opecinication]											•								-									•		•					
	Connector No.		or Name	Connector Type		7	•	Ī	Ĕ	į			Terminal Color Of	Wire	M	œ	а	SHELD	ŋ	>	BR	œ	BR	BG	_	ĸ	٠ :	> 8	3 >	. g	-	Μ	۵	BR	>	>	၅	ŋ	٦	ŋ	80	W	ď	SHIELD	۸	BG	BR	Μ	BG
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	ঠ	L	8	ŏ		_		_		7			ř		Ш	Н	_	_	_	L	Ш		Ш	_		_	_	_	_	_	_	ш	ш	Ш	Ш	Ц	Ш	_		Н	Ш	ш	ш	Ш		ш	Н	ш	ш
	- [Without ICC]	78 L - [With ICC]	79 L - [Without ICC]	Y - [With ICC]	87	, «		BG		H	- d 98	^		90 SHIELD -	91 W   -	92 Y	- \ \ 88	- FG - FG		- d 96	П	98 SHIELD -		100 P		ſ	Connector No. M2	Connector Name FUSE BLOCK (J/B)	Connector Type NS40EW_CS	٦.			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		96 H9 H7 H8 H6 1			la O	Wire	-		5B BG -	- A 89	78 P .	_	H			
	- [Without ICC]	L - [With ICC]	L - [Without ICC]	Y - [With ICC]	87	<u> </u>	SB	BG	9	7	<u>a</u>	^	GR -	SHIELD	M	<b>*</b>	_ ^	97	BG	۵	ď	SHIELD	Г	4		ſ	Connector No. M2	Connector Name FUSE BLOCK (J/B)	Connector Type NS40FW-CS	٦.	•			*					Wire	-	9	BG		Ь	Я	H			
	- [Without ICC]	L - [With ICC]	L - [Without ICC]	Y - [With ICC]	85	<u> </u>	82 SB	83 BG	9	7	<u>a</u>	^	GR -	- 80 SHIELD	- 91 W	<b>*</b>	_ ^	97	BG	۵	ď	SHIELD	Г	4			Connector No.	Connector Name	T	٦.					The second secon			Terminal Color Of	No. Wire	3B	4B G	5B BG		78 P	8B R	H	- [Without ICC]	- [Without ICC]	- [With ICC]
AR SEATBACK POWER RETURN SYSTEM	- [Without ICC]	78 L - [With ICC]	L - [Without ICC]	79 Y [With ICC]	85		82 SB	. 83 BG	9	BG	- B	^	R - 89 GR	- 80 SHIELD	SHIELD - 91   W	92 Y	- 93 V	BG - 108	. 95 BG	a 96	BR - 97 R	- 98 SHELD	Г	- 100	٦ -		BR - Connector No.	Connector Name	G Connector Type	٦.					SHIELD	*		W - Terminal Color Of	R No. Wire	- 3B	B 4B G	BR - [With ICC] 5B BG	L   6B Y	G - [With ICC] 7B P	W - [Without ICC] 8B R	9B	Υ	Ь	œ

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### < ECU DIAGNOSIS INFORMATION >

73 G	
Corrector No. M117  Corrector Name Wife TO WIRE  Corrector Type TH80MW-CST6-TM4  Terminal Color Of Signal Name (Specification)  1	
APPENDENT   Corrector No.   M67   M67	S
REAR SEATBACK POWER RETURN   100   58   V   V   V   V   V   V   V   V   V	
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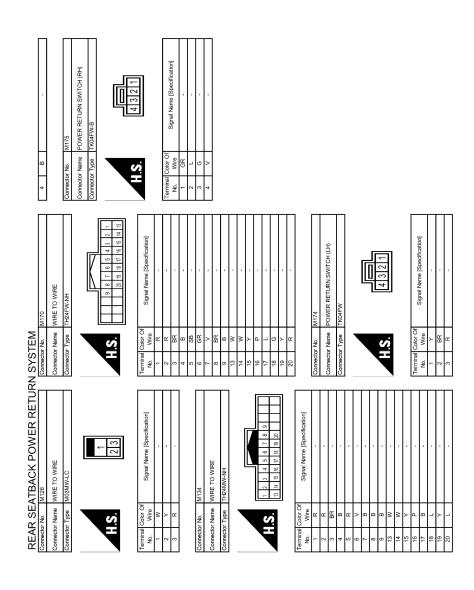
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Fail-safe

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

### < ECU DIAGNOSIS INFORMATION >

Possible location of malfunction	Diagnosis mode	Corrective action
Return complete limit switch "ON" mal- function	The return completion position cannot be detected	Detect the lock with the rear seatback power return control unit, and then re- verse the power return motor
Return complete limit switch "OFF" mal- function	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" mal- function	The initial position of the sector gear cannot be detected	Detect the lock with the rear seatback power return control unit, and then stop the power return motor * If the above condition is repeated for 4 times, stop the subsequent automatic return operation. However, the manual return operation can be performed
Primary position limit switch "OFF" mal- function	The initial position of the sector gear is mis- recognized (The sector gear reverse operation cannot be performed)	<ul> <li>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)</li> <li>The manual return operation can be performed</li> </ul>
Sensor malfunction (fixed to High or Low)	The motor lock is mis-recognized because the pulse does not change	<ul> <li>If the pulse does not change completely after starting the motor operation, return the sector gear to the initial position</li> <li>The manual return operation can be performed</li> </ul>

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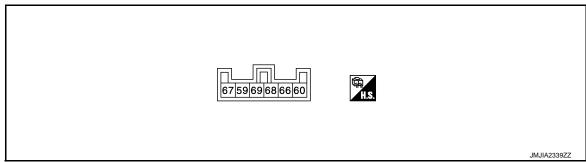
Revision: 2013 March **SE-97** 2014 QX50

### < ECU DIAGNOSIS INFORMATION >

# **HEATED SEAT CONTROL UNIT**

Reference Value

### TERMINAL LAYOUT

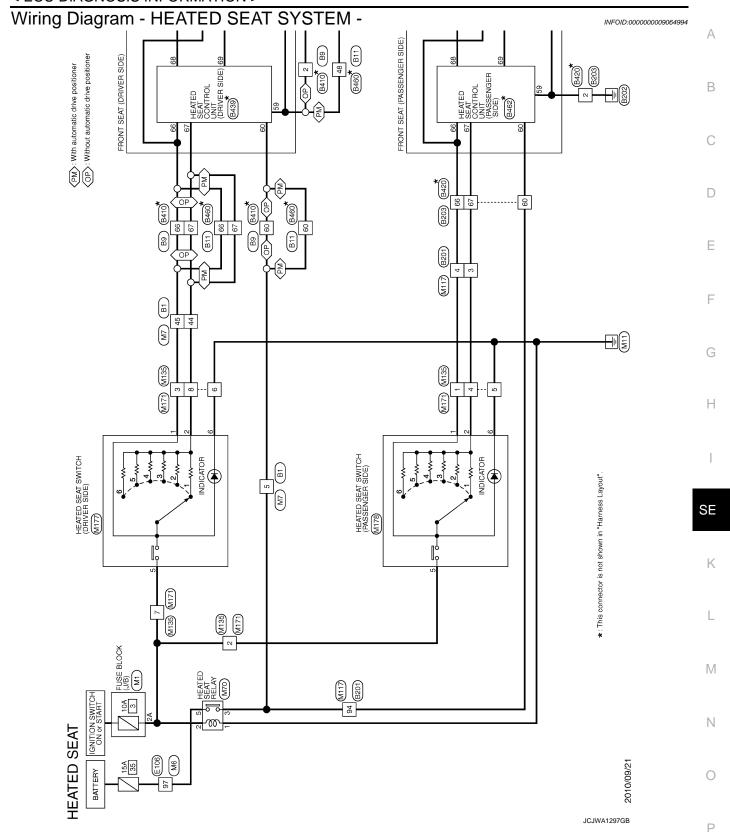


#### PHYSICAL VALUES

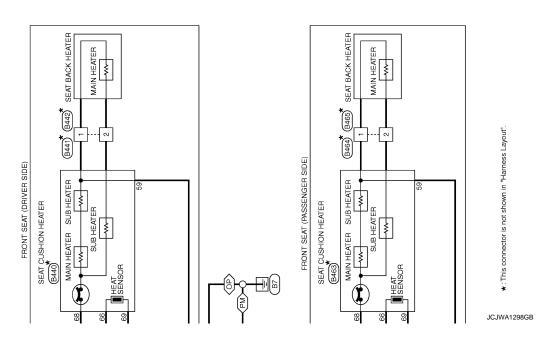
	nal No. color)	Description			Condition	Voltage (V)
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)
59 (Y)	Ground	Ground	_		-	0
60	Ground	IGN power supply	Input	Ignition switch	OFF or ACC	0
(Y/R)	Giodila	IGIN power supply	прис	ignition switch	ON	Battery voltage
66	Ground	Heated seat operation sig-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

<sup>\*:</sup> Voltage is repeated within the value shown as per the following list depending on heater unit temperature.

### < ECU DIAGNOSIS INFORMATION >







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Cornector No.   B201	
Cornector No.   B9   Cornector No.   B9   Cornector Name   WIRE TO WIRE	
60 P 61 L 62 SHELD	S
HEATED SEAT  Connector Name WIRE TO WIRE  Connector Name WIRE TO WIRE  Connector Type TH60FW-CS16-TM4  Terminal Color Of Signal Name (Specification)  13 R R R R R R R R R R R R R R R R R R R	
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PEATED SEAT	Connector No 8441	ı	Connector Name WIRE TO WIRE	Connector Type M02FW-LC		[			Į	Г.Э.		al	No. Wire ognari varie [specification]		2 -			Connector No. B442	L Carrier Control	Connector ivame   Wirks   U Wirks	Connector Type M02MW-LC					10 C			Terminal Color Of	No. Wire Signal Name [Specification]		2 -							1	
Corrector No.   E410	R430	2000	HEATED SEAT CONTROL UNIT (DRIVER SIDE)	174923-1		I			59 69 68 66	00 00 00			orginal realine [opeomoation]	Ground	IGN power supply	Heated seat operation signal	Heated seat switch signal	Heater unit power supply	Heat sensor signal			B440	SEAT CLISHION HEATER	SEAT COSTITUTE ATEN	S04FW		<u>[c</u>	£	66 59	69 89				Olgilal Nattle [Openinoarion]			•	•		
Corrector No.   E410		ı		П		_		•	Ę	Ż		Terminal Color Of		- ₹	┝	H	P 29	H	H			Ш		- 1	- 1	•			Ę	Ϋ́			Terminal Color Of	$\dashv$	7 Y	H	Н			
BE03 WIRE TO WIRE MOGFW.LC  Signal Name [Specification]		ı		Т					-	2 67						Y/R						· Name IWIRE TO WIRE			•			-	79 6	2 0 0						Y/R	В .			
BE203 WIRE T	Connector		Connector	Connector			_		Ę	=		Terminal (	ġ	-	2	09	99	29			Connector	Connector		Connector	_			Ŧ				Terminal (	9 N	-	2	09	99	29		
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174923-1			Signal Name [Specification]	65	0	•
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		10 BG		73	8	,
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orginal regine [obsculoatori]		12 BG		74	7	- [Without ICC]
Ground		-	-	75	Ø	- [With ICC]
IGN power supply		$\dashv$		75	8	- [Without ICC]
Heated seat operation signal		15 P		92	Μ	- [With ICC]
Heated seat switch signal		16 V	-	9/	Υ	<ul> <li>[Without ICC]</li> </ul>
Heater unit power supply		_		77	Ь	- [Without ICC]
Heat sensor signal		Н		77	æ	- [With ICC]
		20 BG		28/	H	- [Without ICC]
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Corrector No. M135  Corrector Name WIRE TO WIRE  Corrector Type INSUBMBR-CS    1 2	SB	
SHELD G R B B W R G G R B B B W R R G G R R B B B R R R R R R R R R R R	65 SHELD	
Corrector No. M/70  Corrector Type MSOZFL-MZ-LC  Corrector Type MSOZFL-MZ-LC  A.S. Table Signal Name [Specification]  Terminal Color Of Signal Name [Specification]	1	9
HEATED SEAT  46 GR  47 SB  49 V  50 R  60 P  61 L  62 SHELD  63 SHELD  64 G  65 SHELD  66 SHELD  66 SHELD  66 SHELD  66 SHELD  66 SHELD  67 V  68 SB  67 V  68 SB  67 V  68 SB	77 G W	
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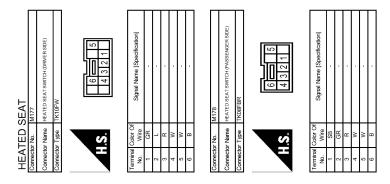
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#### REAR SEATBACK POWER RETURN SYSTEM DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

Is the inspection result normal?

#### SYMPTOM DIAGNOSIS Α REAR SEATBACK POWER RETURN SYSTEM DOES NOT OPERATE **BOTH SIDES** В **BOTH SIDES**: Diagnosis Procedure INFOID:0000000009064995 ${f 1}$ .CHECK POWER SUPPLY AND GROUND CIRCUIT Check power supply and ground circuit. Refer to SE-16, "REAR SEATBACK POWER RETURN CONTROL UNIT: Diagnosis Procedure". D Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. Е 2.check vehicle speed signal circuit Check vehicle speed signal circuit. Refer to SE-45, "Component Function Check". F Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts. 3.CONFIRM THE OPERATION Confirm the operation again. Н Is the inspection result normal? >> Check intermittent incident. Refer to GI-42, "Intermittent Incident". NO >> GO TO 1. LH LH: Diagnosis Procedure INFOID:00000000009064996 SE ${f 1}$ .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. N 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? Р YFS >> GO TO 4. NO >> Repair or replace the malfunctioning parts. $oldsymbol{4}.$ CHECK POWER RETURN MOTOR (LH) Check power return motor (LH). Refer to SE-42, "LH: Component Function Check".

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

#### < SYMPTOM DIAGNOSIS >

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:00000000009064997

# 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?

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# REAR SEATBACK POWER RETURN SYSTEM DOES NOT OPERATE

# < SYMPTOM DIAGNOSIS >

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

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# MALFUNCTION DETECTION BUZZER SOUNDS DURING POWER RETURN MO-TOR INVERSE ROTATION

# < SYMPTOM DIAGNOSIS >

# MALFUNCTION DETECTION BUZZER SOUNDS DURING POWER RETURN MOTOR INVERSE ROTATION

LH

LH: Diagnosis Procedure

INFOID:0000000009064998

# 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:0000000009064999

# 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.

# MALFUNCTION DETECTION BUZZER SOUNDS DURING POWER RETURN MO-TOR INVERSE ROTATION < SYMPTOM DIAGNOSIS > >> Repair or replace the malfunctioning parts. NO Α 4. CONFIRM THE OPERATION Confirm the operation again. Is the inspection result normal? В YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident". NO >> GO TO 1. С D Е F G Н

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# DOES NOT RETURN BUT MALFUNCTION DETECTION BUZZER SOUNDS

< SYMPTOM DIAGNOSIS >

# DOES NOT RETURN BUT MALFUNCTION DETECTION BUZZER SOUNDS

LH

# LH: Diagnosis Procedure

INFOID:0000000009065000

# 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:0000000009065001

# 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**

< SYMPTOM DIAGNOSIS >	
ANTI-PINCH FUNCTION DOES NOT OPERATE	-
Diagnosis Procedure	A 02
1.CHECK MOTOR SENSOR (LH)	В
Check motor sensor (LH).  Refer to SE-37, "LH: Component Function Check".	_
Is the inspection result normal?	С
YES >> GO TO 2.  NO >> Repair or replace the malfunctioning parts.	
2.CHECK MOTOR SENSOR (RH)	D
Check motor sensor (RH). Refer to SE-39, "RH: Component Function Check".	E
Is the inspection result normal?	
YES >> Replace rear seatback power return control unit. Refer to <u>SE-148, "Removal and Installation"</u> . NO >> Repair or replace the malfunctioning parts.	F
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# **HEATED SEAT DOES NOT OPERATE**

#### < SYMPTOM DIAGNOSIS >

# HEATED SEAT DOES NOT OPERATE

# **BOTH SIDES**

# **BOTH SIDES**: Diagnosis Procedure

INFOID:0000000009065003

# 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.

# ${f 3.}$ 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:0000000009065004

# 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.

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# **HEATED SEAT DOES NOT OPERATE**

# < SYMPTOM DIAGNOSIS >

< SYMPTOM DIAGNOSIS >	_
4. CHECK SEAT CUSHION HEATER	Δ
Check seat cushion heater.  Refer to SE-58, "DRIVER SIDE: Component Function Check".	. ^
Is the inspection result normal?	В
YES >> GO TO 5.	
NO >> Repair or replace the malfunctioning parts.	
5.CONFIRM THE OPERATION	С
Confirm the operation again.	
Is the inspection result normal?	D
YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".  NO >> GO TO 1.	
PASSENGER SIDE	_
PASSENGER SIDE : Diagnosis Procedure	5 5
1.CHECK HEATED SEAT SWITCH POWER SUPPLY	F
Check heated seat switch power supply.  Refer to SE-18, "HEATED SEAT SWITCH: Diagnosis Procedure".	
Is the inspection result normal?	G
YES >> GO TO 2.	
NO >> Repair or replace the malfunctioning parts.	Н
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".	ı
Is the inspection result normal?	,
YES >> GO TO 3.	
NO >> Repair or replace the malfunctioning parts.  3.CHECK HEATED SEAT SWITCH	SE
	-
Check heated seat switch.  Refer to SE-48, "PASSENGER SIDE: Component Function Check".	K
Is the inspection result normal?	
YES >> GO TO 4.	I
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".	M
Is the inspection result normal?	
YES >> GO TO 5.	Ν
NO >> Repair or replace the malfunctioning parts.	
5.CONFIRM THE OPERATION	
Confirm the operation again.	- 0
Is the inspection result normal?	
YES >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u> . NO >> GO TO 1.	Р

# SEATBACK HEATER ONLY DOES NOT OPERATE

# < SYMPTOM DIAGNOSIS >

# SEATBACK HEATER ONLY DOES NOT OPERATE

**DRIVER SIDE** 

**DRIVER SIDE**: Diagnosis Procedure

INFOID:0000000009065006

# 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:0000000009065007

# 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**

< SYMPTOM DIAGNOSIS > CANNOT ADJUST HEATED SEAT TEMPERATURE Α DRIVER SIDE DRIVER SIDE: Diagnosis Procedure INFOID:0000000009065008 В 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. D NO >> Repair or replace the malfunctioning parts. 2 . CHECK HEAT SENSOR Check heat sensor. Е Refer to SE-53, "DRIVER SIDE: Description". Is the inspection result normal? YES >> GO TO 3. F NO >> Repair or replace the malfunctioning parts. 3.CONFIRM THE OPERATION Confirm the operation again. Is the inspection result normal? >> Check intermittent incident. Refer to GI-42, "Intermittent Incident". Н NO >> Replace heated seat control unit. Refer to SE-149, "Removal and Installation". PASSENGER SIDE PASSENGER SIDE: Diagnosis Procedure INFOID:0000000009065009 1. CHECK HEATED SEAT SWITCH SE 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 Ν 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".

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# HEATED SEAT SWITCH INDICATOR DOES NOT TURN ON

### < SYMPTOM DIAGNOSIS >

# HEATED SEAT SWITCH INDICATOR DOES NOT TURN ON DRIVER SIDE

# DRIVER SIDE : Diagnosis Procedure

INFOID:0000000009065010

# 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:0000000009065011

# 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

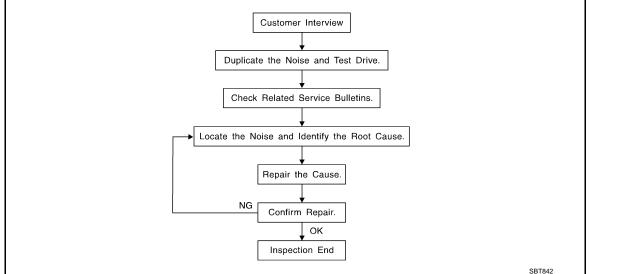
Confirm the operation again.

#### Is the inspection result normal?

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

NO >> GO TO 1.

Work Flow INFOID:0000000009065012 Customer Interview



### **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.

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#### < SYMPTOM DIAGNOSIS >

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 tem-
- Feeling for a vibration with your hand by touching the component(s) that you suspect is (are) causing the noise.
- Placing a piece of paper between components that you suspect are causing the noise.
- Looking for loose components and contact marks.

Refer to SE-121, "Inspection Procedure".

#### REPAIR THE CAUSE

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

#### CAUTION:

# Do not use excessive force as many components are constructed of plastic and may be damaged.

Always check with the Parts Department for the latest parts information.

The following materials are contained in the Nissan Squeak and Rattle Kit (J-43980). Each item can be ordered separately as needed.

URETHANE PADS [1.5 mm (0.059 in) thick]

Insulates connectors, harness, etc.

76268-9E005:  $100 \times 135$  mm  $(3.94 \times 5.31 \text{ in})/76884-71L01$ :  $60 \times 85$  mm  $(2.36 \times 3.35 \text{ in})/76884-71L01$ 

71L02:15  $\times$  25 mm (0.59  $\times$  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,  $50 \times 50$  mm (1.97  $\times$  1.97 in)/73982-

50Y00: 10 mm (0.39 in) thick,  $50 \times 50$  mm (1.97  $\times$  1.97 in)

INSULATOR (Light foam block)

80845-71L00: 30 mm (1.18 in) thick, 30  $\times$  50 mm (1.18  $\times$  1.97in)

FELT CLOTHTAPE

Used to insulate where movement does not occur. Ideal for instrument panel applications.

68370-4B000:  $15 \times 25$  mm (0.59  $\times$  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** 

< SYMPTOM DIAGNOSIS > Insulates where slight movement is present. Ideal for instrument panel applications. SILICONE GREASE Α 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. В **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 D INFOID:0000000009065013 Refer to Table of Contents for specific component removal and installation information. INSTRUMENT PANEL Е Most incidents are caused by contact and movement between: 1. The cluster lid A and instrument panel F Acrylic lens and combination meter housing Instrument panel to front pillar garnish Instrument panel to windshield Instrument panel mounting pins 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. SE CENTER CONSOLE Components to pay attention to include: 1. Shifter assembly cover to finisher A/C control unit and cluster lid C 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: Finisher and inner panel making a slapping noise Inside handle escutcheon to door finisher Wiring harnesses tapping 4. Door striker out of alignment causing a popping noise on starts and stops Tapping or moving the components or pressing on them while driving to duplicate the conditions can isolate

many of these incidents. You can usually insulate the areas with felt cloth tape or insulator foam blocks from the Nissan Squeak and Rattle Kit (J-43980) to repair the noise.

# TRUNK

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

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

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### < SYMPTOM DIAGNOSIS >

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:

- Sunroof lid, rail, linkage or seals making a rattle or light knocking noise
- 2. Sunvisor shaft shaking in the holder
- 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
- 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:

- 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.

< SYMPTOM DIAGNOSIS >

# Diagnostic Worksheet

INFOID:0000000009065014



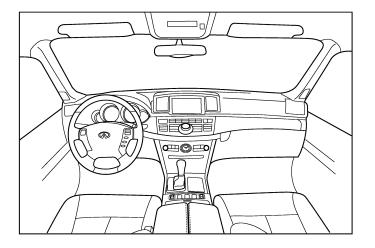
# SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

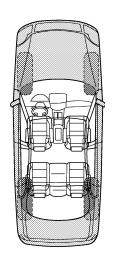
#### Dear Infiniti Customer:

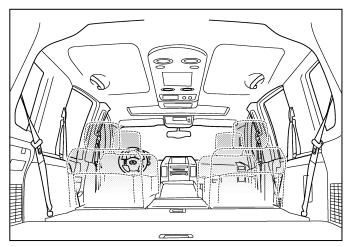
We are concerned about your satisfaction with your Infiniti vehicle. Repairing a squeak or rattle sometimes can be very difficult. To help us fix your Infiniti right the first time, please take a moment to note the area of the vehicle where the squeak or rattle occurs and under what conditions. You may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

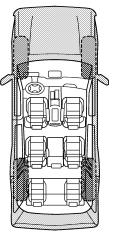
I. WHERE DOES THE NOISE COME FROM? (circle the area of the vehicle)

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.

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Briefly describe the location where the nois	e occurs:			
II. WHEN DOES IT OCCUR? (please chec	k the box	es that ap	ply)	
<ul><li>□ anytime</li><li>□ 1st time in the morning</li><li>□ only when it is cold outside</li><li>□ only when it is hot outside</li></ul>	☐ wher	n it is rain r dusty co	t in the ra ing or wet anditions	
III. WHEN DRIVING:	IV. WHA	T TYPE	OF NOIS	Ε
<ul> <li>□ through driveways</li> <li>□ over rough roads</li> <li>□ over speed bumps</li> <li>□ only about mph</li> <li>□ on acceleration</li> <li>□ coming to a stop</li> <li>□ on turns: left, right or either (circle)</li> <li>□ with passengers or cargo</li> <li>□ other: miles or minutage</li> </ul>	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 F	PERSONN	EL		
Test Drive Notes:				
		YES	NO	Initials of person performing
Vehicle test driven with customer - Noise verified on test drive		YES	NO 🗆	Initials of person performing
	repair	YES	NO	Initials of person performing
<ul><li>Noise verified on test drive</li><li>Noise source located and repaired</li></ul>	Cust	□ □ □		performing

This form must be attached to Work Order

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# **PRECAUTION**

# **PRECAUTIONS**

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

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

#### WARNING:

Always observe the following items for preventing accidental activation.

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

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

#### **WARNING:**

Always observe the following items for preventing accidental activation.

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

Precautions Necessary for Steering Wheel Rotation After Battery Disconnection

**CAUTION:** 

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

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

For vehicle with steering lock unit, if the battery is disconnected or discharged, the steering wheel will lock and cannot be turned.

If turning the steering wheel is required with the battery disconnected or discharged, follow the operation procedure below before starting the repair operation.

#### **OPERATION PROCEDURE**

1. Connect both battery cables.

#### NOTE:

Supply power using jumper cables if battery is discharged.

- Turn the ignition switch to ACC position. (At this time, the steering lock will be released.)
- 3. Disconnect both battery cables. The steering lock will remain released with both battery cables disconnected and the steering wheel can be turned.

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# **PRECAUTIONS**

#### < PRECAUTION >

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

Service Notice

- 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

When removing or disassembling each component, be careful not to damage or deform it. If a component

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- 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**

# **PREPARATION**

# Special Service Tool

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

Tool number (Kent-Moore No.) Tool name		Description	
(J39570) Chassis ear	SIIAO993E	Locates the noise	
(J43980) NISSAN Squeak and Rattle Kit	SIIA0994E	Repairs the cause of noise	

# **Commercial Service Tool**

INFOID:0000000009065020

Tool name		Description	SE
Engine ear		Locates the noise	К
	SIIA0995E		_ L
	p f m		M
Remover tool	JMKIA3050ZZ	Removes the clips, pawls and metal clips	N
	Olin Wildows		_

Clip List INFOID:0000000009065021

			T
Shapes	Removal & Installation	Shapes	Removal & Installation
	Removal: Remove by bending up with flat-bladed screwdrivers or clip remover.	Clip B	Removal:  Finisher Clip A  Flat-bladed screwdriver Clip B
TTTT	Removal: Remove with a clip remover.	Clip A Clip B (Grommet)	Removal: Flat-bladed screwdriver  Body panel  Clip A Clip B (Grommet)
9 9	Removal: Push center pin to catching position. (Do not remove center pin by hitting it.) Push Push		Removal: Holder portion of clip must be spread out to remove rod.
	Removal: Remove by bending up with flat-bladed screwdrivers or clip remover.		Removal:  1. Screw out with a Phillips screwdriver.  2. Remove female portion with flat-bladed screwdriver.
	Removal:		Removal: Installation:  Rotate 45' to remove.  Removal:
	Removal:		Removal:

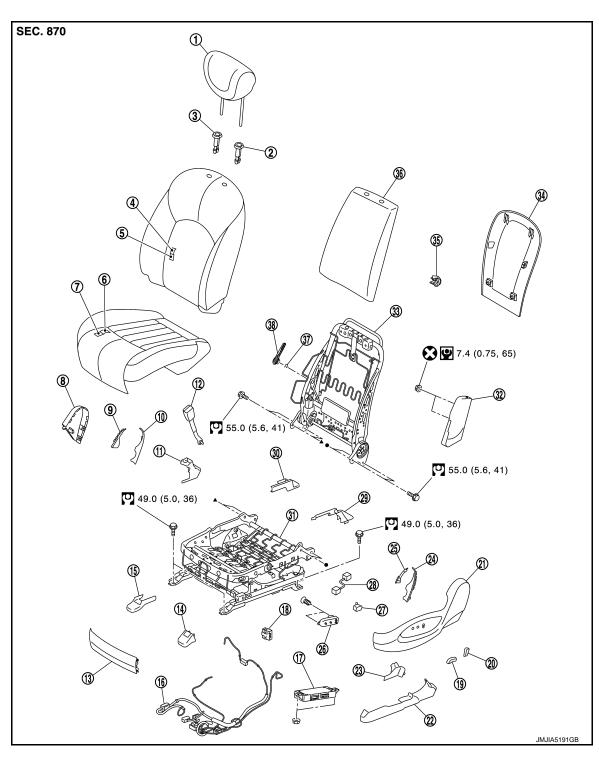
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# REMOVAL AND INSTALLATION

# **FRONT SEAT**

**Exploded View** INFOID:0000000009065022

**DRIVER SEAT** 



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

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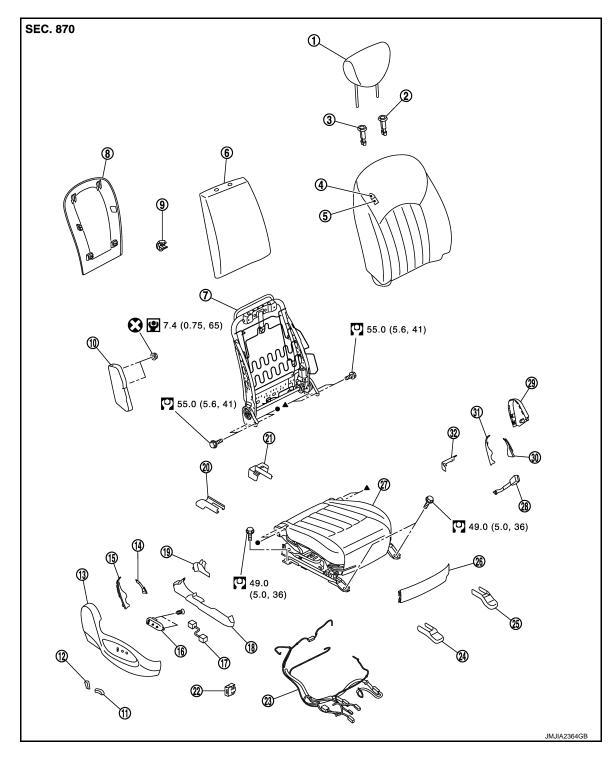
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# < REMOVAL AND INSTALLATION >

10.	Seat cushion inner finisher inside (rear)	11.	Seat cushion inner lower finisher	12.	Seat belt buckle	
13.	Seat cushion front finisher	14.	Front outer slide cover	15.	Front inner slide cover	
16.	Seat harness	17.	Driver seat control unit	18.	Heated seat control unit	
19.	Seat slide & lifter switch knob	20.	Seat reclining switch knob	21.	Seat cushion outer finisher outside	
22.	Seat cushion outer lower finisher (outside)	23.	Seat cushion outer lower finisher (inside)	24.	Seat cushion outer finisher inside (rear)	
25.	Seat cushion outer finisher inside (front)	26.	Seat control switch	27.	Lumbar support switch	
28.	Seat control harness	29.	Rear outer slide cover	30.	Rear inner slide cover	
31.	Seat cushion frame	32.	Side air bag module	33.	Seatback frame	
34.	Seatback board	35.	Seatback board clip	36.	Seatback silencer	
37.	Snap ring	38.	Manual lumber support lever knob			
Refer to GI-4. "Components" for symbols in the figure.						

PASSENGER SEAT



- Headrest
- Seatback trim
- Seatback frame
- Side air bag module
- 13. Seat cushion outer finisher outside
- 16. Seat control switch
- 19. side)
- 22. Heated seat control unit

- 2. Headrest holder (locked)
- 5. Seatback pad
- Seatback board 8.
- Seat slide & lifter switch knob
- Seat cushion outer finisher inside (front)

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- 17. Seat control harness
- Seat cushion outer lower finisher (in- 20. Rear outer slide cover
  - 23. Seat harness

- 3. Headrest holder (free)
- 6. Seatback silencer
- 9. Seatback board clip
- 12. Seat reclining switch knob
- Seat cushion outer finisher inside (rear)
- 18. Seat cushion outer lower finisher (outside)
- 21. Rear inner slide cover
- 24. Front outer slide cover

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### < REMOVAL AND INSTALLATION >

- 25. Front inner slide cover
- 28. Seat belt buckle
- 26. Seat cushion front finisher
- 29. Seat cushion inner finisher outside
- 27. Seat cushion assembly

- 31. Seat cushion inner finisher inside
- 32. Seat cushion inner finisher lower

30. Seat cushion inner finisher inside (front)

(rear)

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

# Removal and Installation

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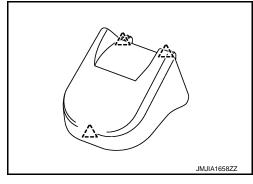
#### **REMOVAL**

#### **CAUTION:**

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

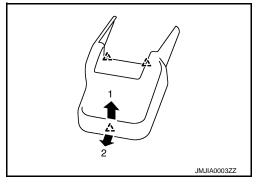
- 1. Remove the headrest.
- 2. Remove the front slide cover.
- a. Front outer slide cover
  - Slide the seat to the rear-most position.
  - Pull up the front edge of the front slide cover to release the
  - Slide the front slide cover forward to release the pawls.





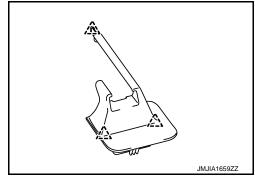
- b. Front inner slide cover
  - Slide the seat to the rear-most position.
  - Pull up the front edge of the front slide cover to release the
  - Slide the front slide cover forward to release the pawls.





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

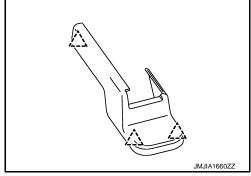




#### < REMOVAL AND INSTALLATION >

- 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.





- Remove the mounting bolts on the rear side of the front seat.
- Set seatback in a standing position.
- 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.

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 NEGA-TIVE TERMINAL: Description".

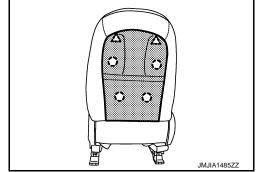
# Disassembly and Assembly

# **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 八 : Pawl



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

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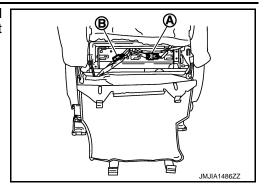
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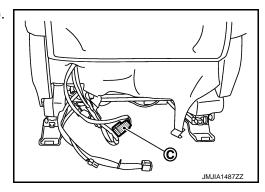
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# < REMOVAL AND INSTALLATION >

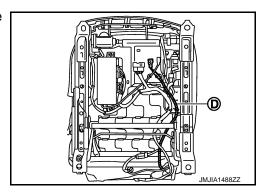
• Disconnect the reclining motor harness connector (A) and lumbar support harness connector (Power lumber support seat only) (B).



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

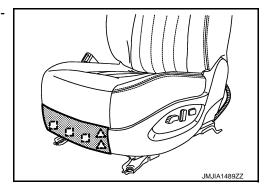


• Remove the harness clamps, and then side air bag module harness (D).



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



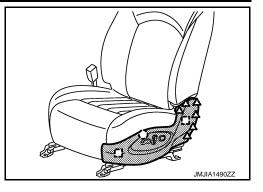


5. Remove the seat cushion outer finisher.

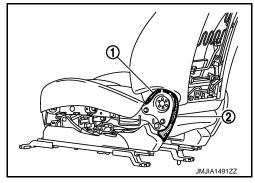
# < REMOVAL AND INSTALLATION >

- 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.



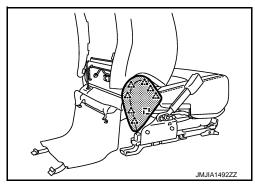


6. Remove the seat cushion outer finisher inside front (1) and rear (2).

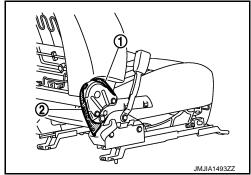


7. Remove the metal clip and pawls, and then pull out seat cushion inner finisher outside.





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)

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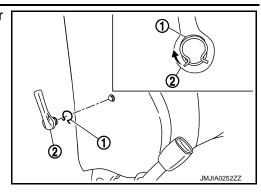
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### < REMOVAL AND INSTALLATION >

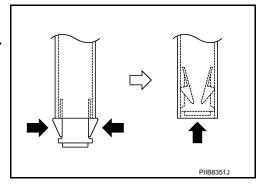
Pull snap ring (1) upward, and remove lumber support lever knob (2) from seatback frame. Using a hook and pick tool.



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

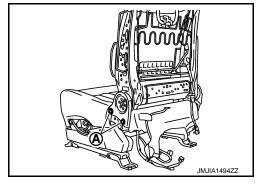
#### **CAUTION:**

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.

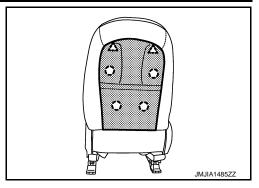
Always replace as an assembly.

For front passenger seat service parts, refer to the service part catalogue.

# < REMOVAL AND INSTALLATION >

- 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



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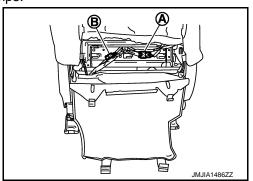
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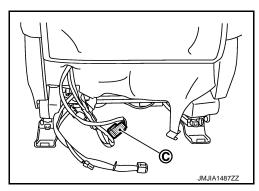
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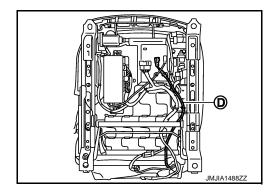
- 2. Remove the seatback trim retainer and seatback trim band from seat cushion frame.
- 3. Disconnect the harness connectors and remove the harness clamps.
  - Disconnect the reclining motor harness connector (A) and lumbar support harness connector (B) (Power lumber support seat only).



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



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



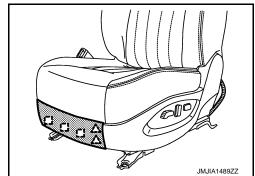
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# < REMOVAL AND INSTALLATION >

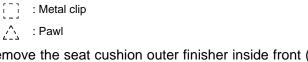
4.	Remove the metal clips and pawls, and then pull out seat cush-
	ion front finisher

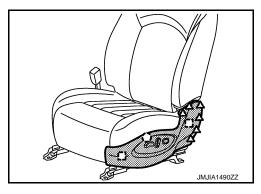
	: Metal clip
/	: Pawl



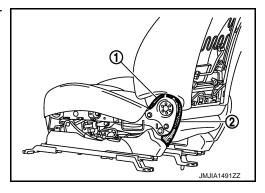
- Remove the seat cushion outer finisher.
  - Remove the seat slide & lifter switch knob and seat reclining switch knob.
  - · Remove the clips, metal clips and pawls, and then pull out seat cushion outer finisher outside.
  - Disconnect the seat slide & lifter, seat reclining and lumbar support switch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





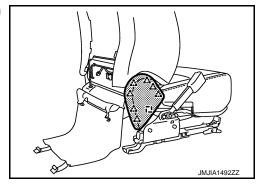


Remove the seat cushion outer finisher inside front (1) and rear (2).



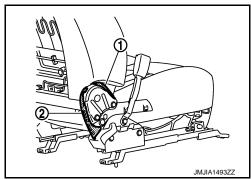
Remove the metal clip and pawls, and then pull out seat cushion inner finisher outside.





# < REMOVAL AND INSTALLATION >

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



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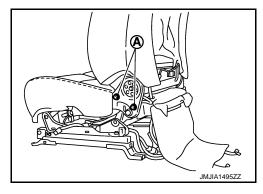
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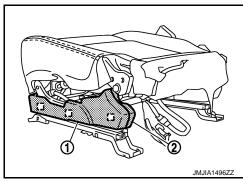
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Remove the seatback assembly. Remove the seatback assembly mounting bolts (A).



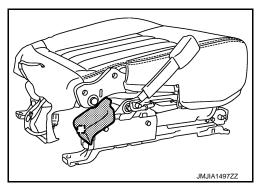
10. Remove the metal clips, and then pull out seat cushion outer lower finisher outside (1) and inside (2).





11. Remove the seat cushion inner lower finisher.





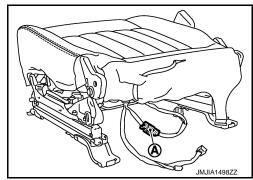
12. Remove the seat cushion trim and seat cushion pad. (Without occupant classification system control unit model)

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### < REMOVAL AND INSTALLATION >

- 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 <u>ADP-221.</u> "Removal and Installation".
- 15. Remove the heated seat control unit. Refer to <u>SE-149</u>, "Removal and Installation".

Assembly

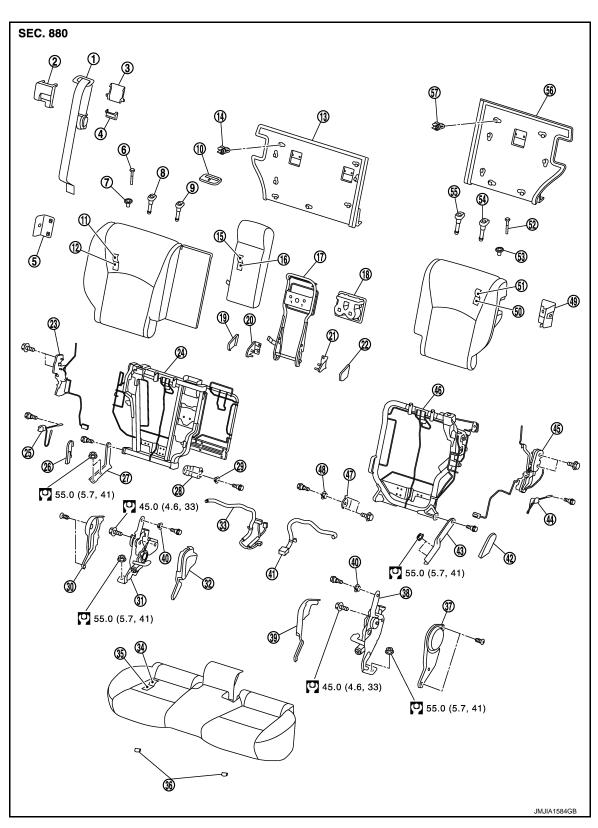
Assemble in the reverse order of disassembly.

#### **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.

Exploded View

**REAR SEAT** 



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### < REMOVAL AND INSTALLATION >

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

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

# Removal and Installation

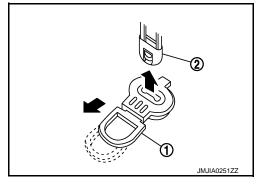
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# **REMOVAL**

#### **CAUTION:**

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

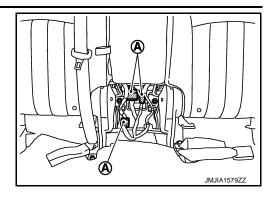
- 1. Remove the seat cushion.
  - Pull the lock lever (1) at the front bottom of the seat cushion forward (1 for each side), and pull the seat cushion upward to release the wire (2) from the seat cushion hook. Then pull the seat cushion forward the remove
  - · Remove the seat cushion from vehicle.



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

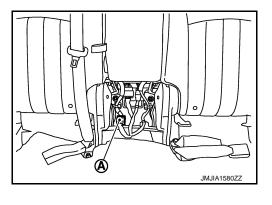
# < REMOVAL AND INSTALLATION >

Disconnect the rear seat harness connectors (A).



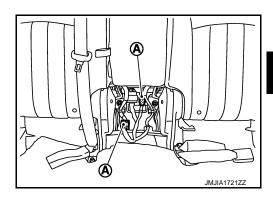
RH seatback

Disconnect the rear seat harness connector (A).



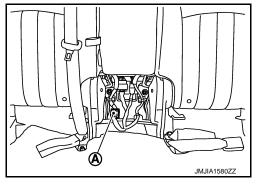
- Without power return seat model LH seatback

Disconnect the rear seat harness connectors (A).



RH seatback

Disconnect the rear seat harness connector (A).



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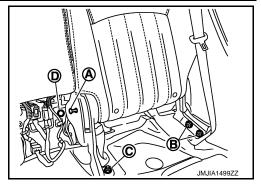
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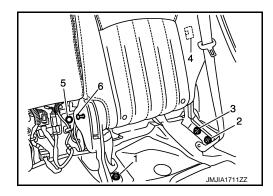
### < REMOVAL AND INSTALLATION >

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



### **INSTALLATION**

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



### **CAUTION:**

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

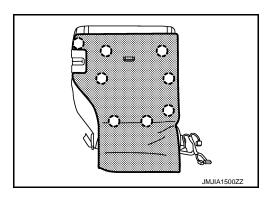
# Disassembly and Assembly

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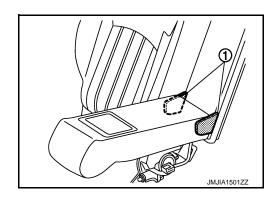
# **SEATBACK**

### Disassembly

- 1. Remove the clips, and then pull out seatback board.
  - ( ]) : Clip

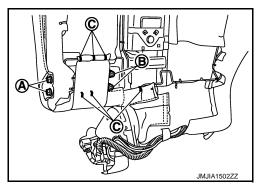


- 2. Remove the armrest.
  - Remove the armrest hinge covers (1).



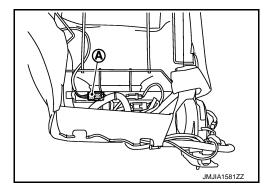
# < REMOVAL AND INSTALLATION >

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



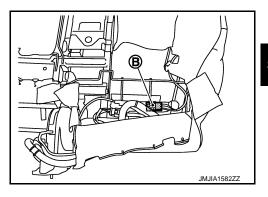
- 3. Remove the seatback device assembly.
  - Remove the seatback trim fixing hog rings.
  - Disconnect the seatback lock harness connector. LH seatback

Disconnect the seatback lock harness connector (A).

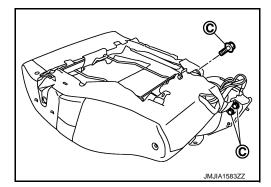


RH seatback

Disconnect the seatback lock harness connector (B).



Remove the seatback device.
 Remove the seatback device mounting bolts (C).



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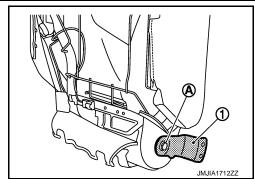
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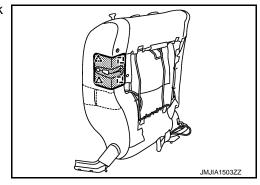
# < REMOVAL AND INSTALLATION >

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

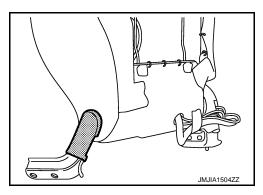


- 5. Remove the seatback trim and pad.
  - Remove the metal clips and pawls, and then pull out seatback lock cover.

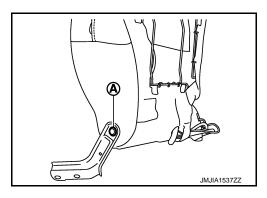




• Remove the seatback hinge outer cover.



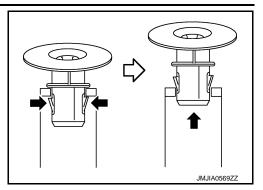
Remove the seatback hinge.
 Remove the seatback hinge mounting bolt (A).



• Turn seatback lock knob counterclockwise to remove.

# < REMOVAL AND INSTALLATION >

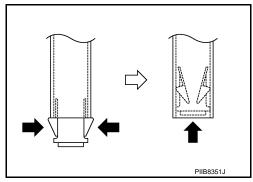
 Push the seatback lock knob finisher pawl upward though the seatback pad and the seatback frame to remove it.



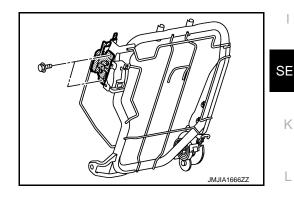
Remove the headrest holder.

#### **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.
- Remove the seatback lock assembly. Remove the seatback lock assembly mounting bolts.



Remove the rear center seat belt. Refer to <u>SB-11, "SEAT BELT RETRACTOR: Exploded View"</u>

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.

**SE-147** Revision: 2013 March 2014 QX50 Α

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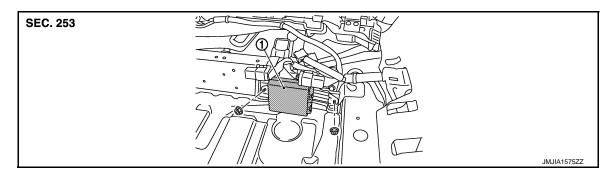
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# REAR SEAT BACK POWER RETURN CONTROL UNIT

< REMOVAL AND INSTALLATION >

# REAR SEAT BACK POWER RETURN CONTROL UNIT

Exploded View



1. Rear seatback power return control unit

# Removal and Installation

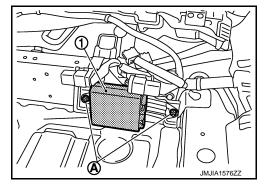
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# **REMOVAL**

#### **CAUTION:**

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

- 1. Remove the luggage floor finisher assembly (front). Refer to INT-37, "Removal and Installation".
- 2. Remove mounting nuts (A).
- 3. Remove rear seatback power return control unit (1).



### **INSTALLATION**

Install in the reverse order of removal.

### **CAUTION:**

Be sure to clamp the harness to the right place.

# **HEATED SEAT CONTROL UNIT**

# < REMOVAL AND INSTALLATION > HEATED SEAT CONTROL UNIT **Exploded View** INFOID:0000000009065030 Refer to SE-129, "Exploded View". Removal and Installation INFOID:0000000009065031 **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.

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# **POWER SEAT SWITCH**

# < REMOVAL AND INSTALLATION >

# POWER SEAT SWITCH

Exploded View

Refer to SE-129, "Exploded View".

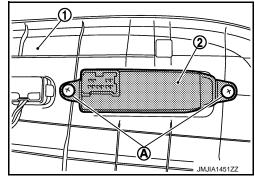
Removal and Installation

# **REMOVAL**

#### **CAUTION:**

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

- 1. Remove the seat cushion outer finisher (1). Refer to <u>SE-132</u>, <u>"Removal and Installation"</u>.
- 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**

# < REMOVAL AND INSTALLATION >

# **LUMBAR SUPPORT SWITCH**

Exploded View

Refer to SE-129, "Exploded View".

Removal and Installation

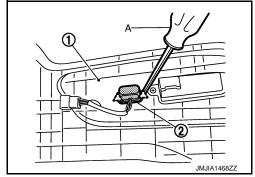
# **REMOVAL**

#### **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).





**INSTALLATION** 

Install in the reverse order of removal.

#### **CAUTION:**

Be sure to clamp the harness to the right place.

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# **HEATED SEAT SWITCH**

# < REMOVAL AND INSTALLATION >

# **HEATED SEAT SWITCH**

Exploded View

Refer to IP-22, "Exploded View".

Removal and Installation

# **REMOVAL**

#### **CAUTION:**

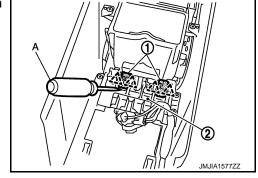
When removing and installing, use shop cloths to protect from damage.

- 1. Remove the console body assembly. Refer to IP-23, "Removal and Installation"
- 2. Remove heated seat switch (1) from switch bracket with remover tool (A).



### NOTE:

The same procedure is also performed for passenger side.



#### INSTALLATION

Install in the reverse order of removal.

# **POWER RETURN SWITCH**

# < REMOVAL AND INSTALLATION >

# **POWER RETURN SWITCH**

Exploded View

Refer to IP-22, "Exploded View".

Removal and Installation

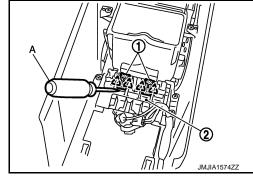
# **REMOVAL**

#### **CAUTION:**

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

- 1. Remove the console body assembly. Refer to IP-23, "Removal and Installation"
- 2. Remove power return switch (1) from switch bracket with remover tool (A).





# **INSTALLATION**

Install in the reverse order of removal.

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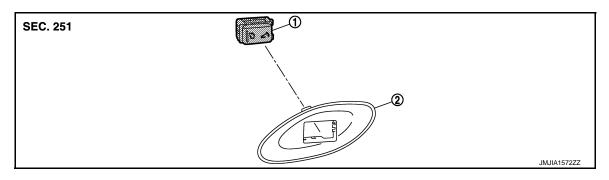
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# **REAR SEATBACK SWITCH**

Exploded View



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

# Removal and Installation

INFOID:0000000009065041

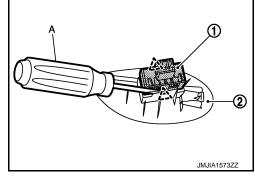
# **REMOVAL**

### **CAUTION:**

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

- 1. Remove the luggage side finisher lower escutcheon. Refer to INT-37, "Removal and Installation".
- 2. Remove rear power return switch (1) from luggage side finisher lower escutcheon with remover tool (A).





# **INSTALLATION**

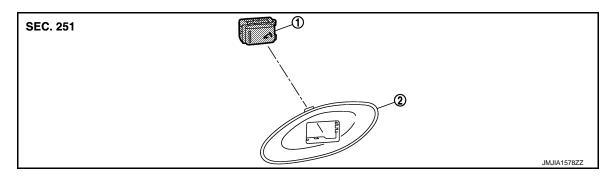
Install in the reverse order of removal.

# **REAR SEATBACK RELEASE SWITCH**

# < REMOVAL AND INSTALLATION >

# REAR SEATBACK RELEASE SWITCH

Exploded View



- Rear seatback release switch
- Luggage side finisher lower escutcheon

# Removal and Installation

INFOID:0000000009065043

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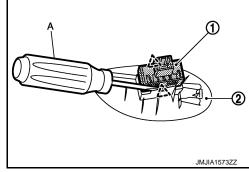
# **REMOVAL**

#### **CAUTION:**

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

- 1. Remove the luggage side finisher lower escutcheon. Refer to INT-37, "Removal and Installation".
- 2. Remove rear power return switch (1) from luggage side finisher lower escutcheon with remover tool (A).





# **INSTALLATION**

Install in the reverse order of removal.

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Revision: 2013 March **SE-155** 2014 QX50