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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION > **BASIC INSPECTION** Α DIAGNOSIS AND REPAIR WORKFLOW WorkFlow INFOID:0000000006344677 **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:0000000006344678

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

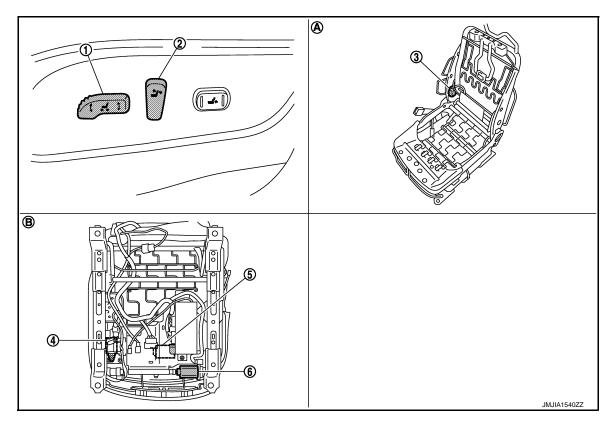
While operating the reclining switch located in power seat switch, reclining motor operates and makes possible the seat back forward and backward position adjustment.

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:0000000006344679



- 1. Sliding switch and lifting switch
- 4. Lifting motor (rear)
- A. 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:0000000006344680

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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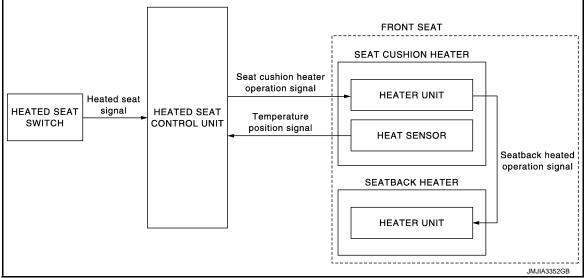
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HEATED SEAT

System Diagram

INFOID:0000000006344681



System Description

INFOID:0000000006344682

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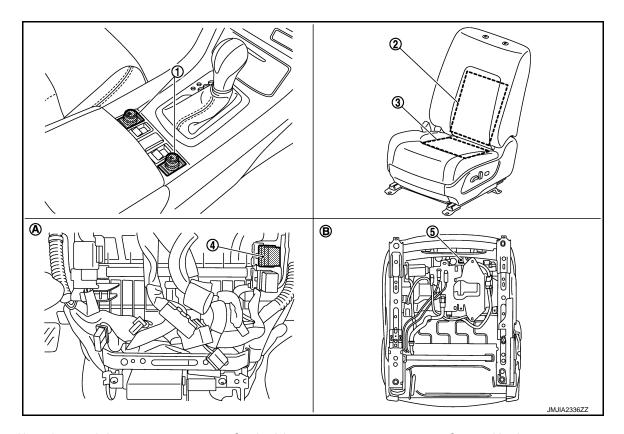
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- Heated seat switch
- 4. Heated seat relay
- Behind cluster lid C
- Seatback heater
- 5. Heated seat control unit
- В. Backside of seat cushion

Seat cushion heater

Component Description

INFOID:0000000006344684

Item	Function	
Heated seat switch	 Adjusts heated seat temperature and deactivates heated seat Equips indicator that indicates the operating condition 	
Seat cushion heater	Warms seat cushion Contains heater sensor that outputs seat cushion heater temperature to heated seat or trol 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

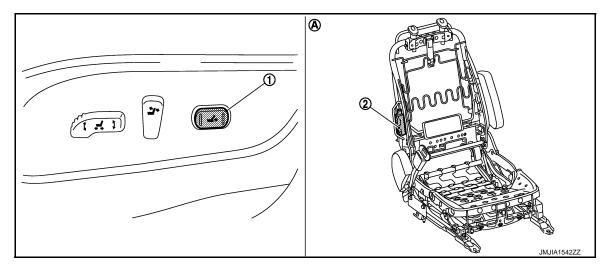
System Description

INFOID:0000000006344685

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

Component Parts Location

INFOID:0000000006344686



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

Component Description

INFOID:0000000006344687

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

INFOID:0000000006344688

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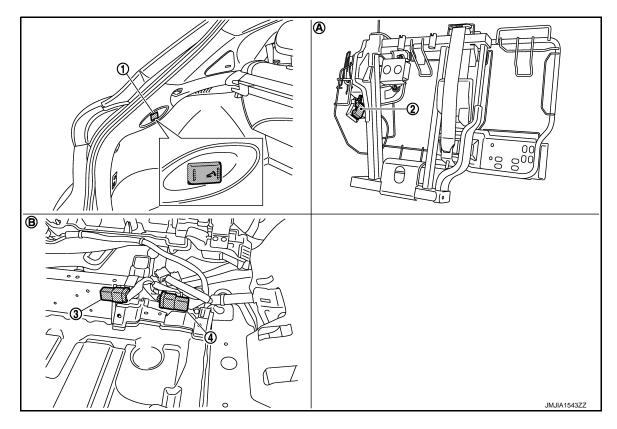
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- Rear seatback release control is composed of rear seatback release switch and rear seatback release actu-
- When rear seatback release switch is pressed, the rear seatback release actuator operate in order to unlock the rear seatback lock
- · When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

Component Parts Location

INFOID:0000000006344689



- Rear seatback release switch (LH)
- Rear seatback release relay (RH)
- In seatback

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

Component Description

INFOID:0000000006344690

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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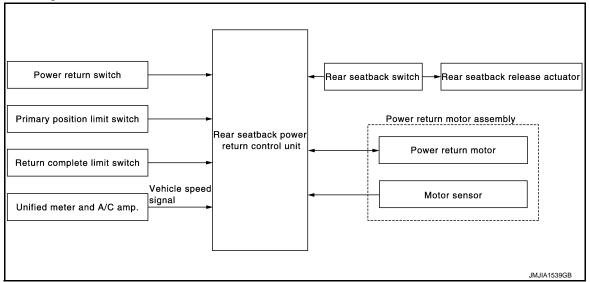
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REAR SEATBACK POWER RETURN SYSTEM

System Diagram

INFOID:0000000006344691



System Description

INFOID:0000000006344692

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	Ketum 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

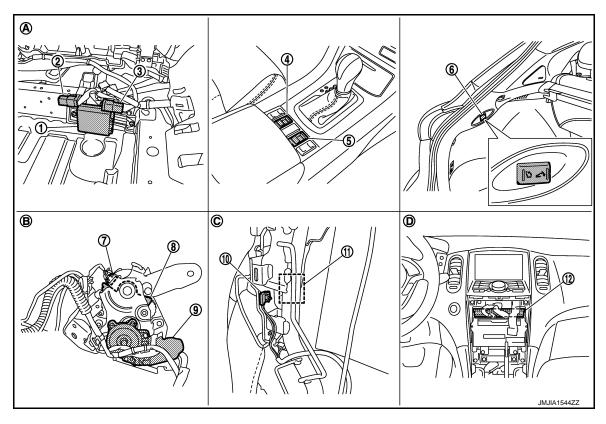
BUZZER OPERATION PATTERN AND ORDER OF PRIORITY

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

< SYSTEM DESCRIPTION >

Component Parts Location

INFOID:0000000006344693



- 1. Rear seatback power return control
- Power return switch (LH) 4.
- 7. Primary position limit switch (RH)
- 10. Return complete limit switch (LH)
- Behind of rear seat (RH) A.
- 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)
- Unified meter and A/C amp.
- View with seatback pad is removed

Component Description

INFOID:0000000006344694

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:0000000006344695

1. CHECK FUSE

Check that the following fuses are not fusing.

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

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.

	+) er return control unit	(-)	Voltage (Approx.)	
Connector	Terminal		(11 - 7	
B226	17	Ground	Pottony voltage	
B227	16	Giouna	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:0000000006344696

1. CHECK FUSE

Check that the following fuse is not blown.

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

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.

(+)				Voltage (V) (Approx.)
Heated seat control unit			(–)	
Connector Terminal			(44)	
Driver side	B439	60	Ground	Pottony voltago
Passenger side	B462	00	Giodila	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		
Coni	nector	Terminal	Connector Terminal		Continuity	
Driver side	B439	60	M70	2	Existed	
Passenger side	B462	00	IVI7U	3	LAISIEU	

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

Heated seat control unit				Continuity	
Connector		Terminal	Crawad	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		(–)	Condition		Voltage (V) (Approx.)	
Conr	nector	Terminal				(дриох.)
Driver side	B439				ON	Battery voltage
Driver side	D439	66 Ground Heat	Cround	Heated seat	OFF	0
Passangar sida	Passenger side B462	Ground	switch	ON	Battery voltage	
rassenger side					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		
Connector 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, "DRIVER SIDE: Component Inspection"</u>.
- 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</u>, "Removal and Installation".

7.CHECK HEATED SEAT CONTROL UNIT GROUND CIRCUIT

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

Heated seat control unit				Continuity
Connector Terminal			Ground	Continuity
Driver side	B439	59	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 (10A)	

< 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)
Heated seat switch			(–) Voltagi (Appr	Voltage (V) (Approx.)
Connector Terminal			(11 - /	
Driver side	M177	5	Ground	Pottory voltage
Passenger side	M178	5	Ground	Battery voltage

Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 3.

3.CHECK HEATED SEAT SWITCH POWER SUPPLY CIRCUIT

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

Heated seat switch			Fuse block (J/B)		Continuity
Con	nector	Terminal	Connector	Terminal	Continuity
Driver side	M177	5 M1	N/1	2A	Existed
Passenger side	M178	5	IVII	ZA	Existed

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

Heated seat switch				Continuity	
Connector		Terminal	Ground	Continuity	
Driver side	M177	5	Giouna	Not existed	
Passenger side	M178	5		Not 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.
- Check voltage between fuse block (J/B) connector (fuse block side) and ground.

(+) Fuse block (J/B) Connector Terminal		(-)	Voltage (V) (Approx.)
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 >

POWER RETURN SWITCH

LH

INFOID:0000000006344698

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LH : Description

Switch that performs the return operation.

LH: Component Function Check

INFOID:0000000006344699

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:0000000006344700

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.

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.check front power return switch (LH) circuit

1. Disconnect rear seatback power return control unit connector.

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

Rear seatback power return control unit		Power return switch (LH)		Continuity
Connector	Terminal	Connector Terminal		Continuity
B226	28	M174	1	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	
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	Connector Terminal		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:0000000006344701

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) connector	Terminal		Condition	Continuity
M174	1	1 2	Power return switch (LH) is pressed	Existed
W117-4	1 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 SE-153, "Removal and Installation".

RH

RH : Description

INFOID:0000000006344702

Switch that performs the return operation.

RH: Component Function Check

INFOID:0000000006344703

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:0000000006344704

1. CHECK REAR SEATBACK POWER RETURN CONTROL UNIT INPUT SIGNAL

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

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

Is the inspection result normal?

< DTC/CIRCUIT DIAGNOSIS >

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

2.check power return switch (rh) circuit

1. Disconnect rear seatback power return control unit connector.

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

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

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

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

Is the inspection result normal?

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

NO >> Repair or replace harness.

3.check power return switch (RH) ground circuit

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

Power return switch (RH)			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".

5. 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) connector	Terr	minal	Condition	Continuity
M175	1	2	Power return switch (RH) is pressed	Existed
WITS	'		Power return switch (RH) is released	Not existed

Is the inspection result normal?

>> Power return switch (RH) is OK.

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INFOID:0000000006344705

< DTC/CIRCUIT DIAGNOSIS >

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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INFOID:0000000006344706

LH: Description

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Switch that performs the return operation or release operation.

LH: Component Function Check

INFOID:0000000006344707

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". Е

LH: Diagnosis Procedure

INFOID:0000000006344708

${f 1}$.CHECK REAR SEATBACK POWER RETURN CONTROL UNIT INPUT SIGNAL

Turn ignition switch OFF. 1.

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		(* .pp. 3/)	
B52	2	Ground	5	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2. SE

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.

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Rear seatback pow	er return control unit	Rear seatback switch (LH)		Continuity
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		Continuity	
Connector	Connector Terminal		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>.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

LH : Component Inspection

INFOID:0000000006344709

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) connector	Terr	ninal	Condition	Continuity
B52	2	2	Rear seatback switch (LH) is pressed in UP direction	Existed
532	2	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:0000000006344710

Switch that performs the return operation or release operation.

RH: Component Function Check

INFOID:0000000006344711

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:0000000006344712

1. CHECK REAR SEATBACK POWER RETURN CONTROL UNIT INPUT SIGNAL

- 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 (10)
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 power return control unit		Rear seatback switch (RH)		Continuity
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)

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

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< DTC/CIRCUIT DIAGNOSIS >

Rear seatback switch (RH) connector	Terminal		Condition	Continuity
B239	2	2	Rear seatback switch (RH) is pressed in UP direction	Existed
B239	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

INFOID:0000000006344715

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

NO >> Refer to <u>SE-29</u>, "LH: <u>Diagnosis Procedure"</u>.

LH: Diagnosis Procedure

INFOID:0000000006344716

${f 1}$.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.

(+)		V 16 0 0
Primary position	limit switch (LH)	(–)	Voltage (V) (Approx.)
Connector	Terminal	(pprox	(11 - 7
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 pow	Rear seatback power return control unit		Primary position limit switch (LH)		
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	Rear seatback power return control unit		Primary position limit switch (LH)	
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 power 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:0000000006344717

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) connector	Terr	minal	Condition	Continuity
B512	6	Q	Primary position limit switch (LH) is pressed	Existed
B312	U	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

Detect the initial position of sector gear (RH).

RH: Component Function Check

INFOID:0000000006344719

1. CHECK FUNCTION

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

Is the inspection result normal?

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

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< DTC/CIRCUIT DIAGNOSIS >

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

RH: Diagnosis Procedure

INFOID:0000000006344720

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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.

(+)	Voltage (V)	
Primary position	limit switch (RH)	(–)	(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.
- Check continuity between rear seatback power return control unit harness connector and primary position limit switch (RH) harness connector.

Rear seatback pow	Rear seatback power return control unit		Primary position limit switch (RH)		
Connector	Terminal	Connector Terminal		- Continuity	
B226	22	B505	15	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	22		Not existed

Is the inspection result normal?

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

NO >> Repair or replace harness.

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

 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) Connector Terminal		Continuity
Connector	Terminal			Continuity
B226	23	B505	14	Existed

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

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

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK PRIMARY POSITION LIMIT SWITCH (RH)

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< DTC/CIRCUIT DIAGNOSIS >

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</u>, "Exploded View".

5. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

RH: Component Inspection

INFOID:0000000006344721

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) connector	Terminal		Condition	Continuity
B505	14	15	Primary position limit switch (RH) is pressed	Existed
B303	14	13	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:0000000006344723

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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, "LH : Diagnosis Procedure"</u>.

LH: Diagnosis Procedure

INFOID:0000000006344724

${f 1}$.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 lo	ock assembly (LH)	(–)	Voltage (V) (Approx.)
Connector	Terminal		, , ,
B513	8	Ground	Battery voltage

NOTE:

It is not low power consumption mode.

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

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

- 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	Rear seatback power return control unit		Rear seatback lock assembly (LH)	
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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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 power 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>, <u>"Exploded View"</u>.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

LH: Component Inspection

INFOID:0000000006344725

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) connector	Terr	minal	Condition	Continuity
B513	Q	9 0	Return complete limit switch (LH) is pressed	Existed
B313	0	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

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

RH: Component Function Check

INFOID:0000000006344727

1. CHECK FUNCTION

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

Is the inspection result normal?

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

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

RH: Diagnosis Procedure

INFOID:0000000006344728

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

((+) Rear seatback lock assembly (RH)		Voltage (V)
Connector	ck assembly (RH) Terminal	(-)	(Approx.)
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

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

Rear seatback power return control unit		Rear seatback lock assembly (RH)		Continuity
Connector	Terminal	Connector Terminal		Continuity
B226	30	B506	13	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	30		Not existed	

Is the inspection result normal?

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

NO >> Repair or replace harness.

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

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

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

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

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

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK RETURN COMPLETE LIMIT SWITCH (RH)

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< DTC/CIRCUIT DIAGNOSIS >

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:0000000006344729

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) connector		minal	Condition	Continuity
B506	13	1.1	Return complete limit switch (RH) is pressed	Existed
B300		14	Return complete limit switch (RH) is released	Not existed

Is the inspection result normal?

NO

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

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

LH

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LH : Description

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

LH: Component Function Check

INFOID:0000000006344731

1. CHECK FUNCTION

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

Is the inspection result normal?

YES >> Motor sensor (LH) is OK.

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

LH : Diagnosis Procedure

INFOID:0000000006344732

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 Connector Terminal		(–)	Condition	Voltage (V) (Approx.)
Connector	rerminai			
B227	10	Ground	During the power return motor (LH) operation	(V) 6 4 2 0 10 ms
			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	Terminal	Ground	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.

(+)			Vallage (A.O.
Power return mo	tor assembly (LH)	(–)	Condition	Voltage (V) (Approx.)
Connector	Terminal			, , ,
B511	3	Ground	When the power return switch is operated	Battery voltage

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

4.CHECK MOTOR SENSOR (LH) POWER SUPPLY CIRCUIT

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

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

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

Rear seatback pow	er return control unit		Continuity
Connector	Terminal	Ground	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:0000000006344733

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

RH: Component Function Check

INFOID:0000000006344734

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

INFOID:0000000006344735

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			(, , , , , , , , , , , , , , , , , , ,
B227	2	Ground	During the power return motor (RH) operation When pinching between LH/RH seats occurs	(V) 6 4 2 0 10 ms JMKIA0070GB 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	power return control unit Power return motor assem		Rear seatback power return control unit		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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Rear seatback pow	er return control unit		Continuity	
Connector	Terminal	Ground	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 (1.0)
Power return mo	tor assembly (RH)	(–)	Condition	Voltage (V) (Approx.)
Connector	Terminal			()
B504	17	Ground	When the power return switch is operated	Battery voltage

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

4.CHECK MOTOR SENSOR (RH) POWER SUPPLY CIRCUIT

- 1. Disconnect rear seatback power return control unit connector.
- 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	Terminal	Ground	Continuity
B227	3		Not existed

Is the inspection result normal?

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

NO >> Repair or replace harness.

${f 5.}$ 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 mo	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:0000000006344737

1. CHECK FUNCTION

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

Is the inspection result normal?

YES >> Power return motor (LH) is OK.

NO >> Refer to SE-42, "LH: Diagnosis Procedure".

LH: Diagnosis Procedure

INFOID:0000000006344738

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

Is the inspection result normal?

YES >> Replace power return motor assembly (LH) [seat device assembly (LH)]. Refer to <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	Evistad	
DZZI	6	5 5511	2	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	
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:0000000006344740

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, "RH : Diagnosis Procedure"</u>.

RH: Diagnosis Procedure

INFOID:0000000006344741

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	
D304	21		During the power return motor (RH) return operation	Battery voltage	
			Other than the above	0	

Is the inspection result normal?

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

NO >> GO TO 2.

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2.CHECK POWER RETURN MOTOR (RH) CIRCUIT

- 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	D304	21	LXISIEU

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	Ground	Not existed	
	8		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. "Removal and Installation"</u>.

NO >> Repair or replace harness.

VEHICLE SPEED SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

VEHICLE SPEED SIGNAL CIRCUIT

Description INFOID:0000000006344742

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

1. Check speed meter operate normally.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to MWI-4, "Work flow".

2. CHECK VEHICLE SPEED INPUT SIGNAL

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

-	(+) 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 **Example 12 V due to specifications (connected units)	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Refer to MWI-4, "Work flow".

3. CHECK VEHICLE SPEED SIGNAL CIRCUIT

- 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	er return control unit	Unified meter and A/C amp.		Continuity
Connector	Terminal	Connector Terminal		Continuity
B226	24	M66	28	Existed

^{4.} 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:0000000006344746

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>, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE: Diagnosis Procedure

INFOID:0000000006344747

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		Voltage (V) (Approx.)
Connector	Terminal				, , ,
				OFF	0
				1 (Min. temperature)	12.24
	B439 67	Ground	Heated seat switch position	2	12.33
B439				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 seat switch		Heated seat control unit		Continuity	
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:0000000006344748

1. CHECK FRONT HEATED SEAT SWITCH

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

Heated seat switch		Condition		Resistance	
Connector	Terr	minal	Condition		(KΩ) (Approx.)
		1		ON	0
				OFF	∞
	M177 5 2			1 (Min. temperature)	2.400
N4177				2	1.800
IVI 1 7 7		Heated seat switch position	3	1.200	
			4	0.910	
				5	0.620
				6 (Max. temperature)	0.348

Is the inspection result normal?

YES >> INSPECTION END

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

PASSENGER SIDE

PASSENGER SIDE: Description

INFOID:0000000006344749

INFOID:0000000006344750

INFOID:0000000006344751

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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- Turn ignition switch OFF.
- 2. 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 Connector Terminal		(-)	Condition		Voltage (V) (Approx.)
				OFF	0
				1 (Min. temperature)	12.24
			2	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 seat switch		Heated seat 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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- 1. Turn ignition OFF.
- 2. Disconnect heated seat switch connector.
- 3. Check resistance between heated seat switch terminals as follows.

	Heated seat switch		0 100		Resistance
Connector	Terr	minal	Condition		$(K\Omega)$ (Approx.)
		1		ON	0
	M178 5		Heated seat switch position	OFF	∞
				1 (Min. temperature)	2.400
M470				2	1.800
IVI I 7 O		2		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:0000000006344753

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.

	+)		Voltage (V) (Approx.)	
Heated	seat relay	(–)		
Connector	Terminal			
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	Heated seat relay		Fuse block (J/B)		
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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INFOID:0000000006344754

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HEATED SEAT RELAY

< DTC/CIRCUIT DIAGNOSIS >

Heated s	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:0000000006344756

1. CHECK HEATED SEAT RELAY

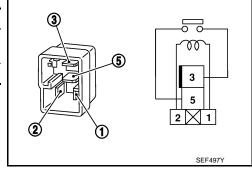
- 1. Turn ignition switch OFF.
- 2. Disconnect heated seat relay.
- 3. Check continuity between heated seat relay terminals.

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

INFOID:0000000006344757

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DRIVER SIDE : Description

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

DRIVER SIDE: Component Function Check

INFOID:0000000006344758

1. CHECK FUNCTION

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

Is the inspection result normal?

YES >> Heat sensor function is OK.

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

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000006344759

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			(, ,pp. 5/)
			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	Heated seat control unit		Seat cushion heater	
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		(/ (pp.ox.)	
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	eat 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-130, "Exploded View"</u>.

6.CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

DRIVER SIDE: Component Inspection

INFOID:0000000006344760

1. CHECK HEAT SENSOR

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

< DTC/CIRCUIT DIAGNOSIS >

	Seat cushion heater Connector Terminal		Open difficu	Resistance (KΩ)
Connector			Terminal Condition	
B440	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-130, "Exploded View"</u>.

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, "Diagnosis Procedure"</u>

PASSENGER SIDE : Diagnosis Procedure

1. CHECK HEAT SENSOR INPUT SIGNAL

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
			1 (Min. temperature)	10.87 – 11.02
			2	10.93 – 11.07
B462	69	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.

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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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INFOID:0000000006344761

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< DTC/CIRCUIT DIAGNOSIS >

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

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

Heated sea	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			
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	Seat cushion heater	
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-130, "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

INFOID:0000000006344764

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			O an alitica	Resistance
Connector	Terminal		Condition	(K Ω) (Approx.)
B463	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-130, "Exploded View"</u>.

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< DTC/CIRCUIT DIAGNOSIS >

SEAT CUSHION HEATER

DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000006344765

Warms the seat cushion.

DRIVER SIDE: Component Function Check

INFOID:0000000006344766

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 <u>SE-58</u>, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE: Diagnosis Procedure

INFOID:0000000006344767

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				(11 - 2 - 2)
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

- Turn ignition switch OFF.
- 2. 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-130, "Exploded View".

f 4.CHECK SEAT CUSHION HEATER GROUND CIRCUIT

Check continuity between seat cushion heater harness connector and ground.

Seat cush	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

INFOID:0000000006344768

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 heate	r		Resistance
Connector	Terr	minal	Condition	(Ω) (Approx.)
B440	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-130, "Exploded View". NO

PASSENGER SIDE

PASSENGER SIDE: Description

INFOID:0000000006344769

Warms the seat cushion.

PASSENGER SIDE: Component Function Check INFOID:0000000006344770

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?

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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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INFOID:000000000634477

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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.

	+)		Condition		Voltage (V)
Seat cush	ion heater	(–)			(Approx.)
Connector	Terminal				
B463	68	Ground	Heated seat	Operated	0 – Battery voltage
D403	08	Giodila	Healeu 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.
- 2. 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-130, "Exploded View"</u>.

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:0000000006344772

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1. CHECK SEAT CUSHION HEATER

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

	Seat cushion heate	r	O an difficu	Resistance
Connector	Terr	minal	Condition	(Ω) (Approx.)
B463	59	68	When heat sensor temperature is 20°C (68°F)	2.6 – 3.0

NOTE:

Resistance value changes according to temperature.

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace seat cushion heater. Refer to <u>SE-130, "Exploded View"</u>.

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Revision: 2011 October SE-61 2011 EX

SEATBACK HEATER

< DTC/CIRCUIT DIAGNOSIS >

SEATBACK HEATER

DRIVER SIDE

DRIVER SIDE: Description

Warms the seat back heater.

DRIVER SIDE : Component Function Check

INFOID:0000000006344774

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:0000000006344775

1. CHECK SEATBACK HEATER

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

	Seatback heater		0 1111	Resistance
Connector	Terr	minal	Condition	(Ω) (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-130, "Exploded View"</u>.

NO >> Replace seatback heater. Refer to <u>SE-130, "Exploded View"</u>.

PASSENGER SIDE

PASSENGER SIDE: Description

INFOID:0000000006344776

Warms the seat back heater.

PASSENGER SIDE: Component Function Check

INFOID:0000000006344777

${f 1}$.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 SE-62, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000006344778

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-130, "Exploded View"</u>.
- NO >> Replace seatback heater. Refer to <u>SE-130, "Exploded View"</u>.

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HEATED SEAT SWITCH INDICATOR

< DTC/CIRCUIT DIAGNOSIS >

HEATED SEAT SWITCH INDICATOR

DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000006344779

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

DRIVER SIDE: Component Function Check

INFOID:0000000006344780

${f 1}$.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:0000000006344781

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:0000000006344782

1. CHECK HEATED SEAT SWITCH

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

	Heated seat switch		
Connector	Terr	minal	Continuity
Connector	(+)*	(-)*	
M177	5	6	Existed
WITT	6	5	Not existed

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HEATED SEAT SWITCH INDICATOR

< DTC/CIRCUIT DIAGNOSIS >

*For a digital tester. NOTE:		А
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? 		В
YES >> INSPECTION END		D
NO >> Replace heated seat switch. Refer to <u>SE-152, "Removal and Installation"</u> . PASSENGER SIDE		
		С
PASSENGER SIDE : Description	INFOID:000000006344783	
Illuminates the indicator that indicates the operating status of heated seat.		D
PASSENGER SIDE : Component Function Check	INFOID:000000006344784	
1.CHECK FUNCTION		Е
Check that the related indicator lamp illuminates when heated seat switch is turned Ol	N.	
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> ".		
PASSENGER SIDE : Diagnosis Procedure	INFOID:000000006344785	G
1. CHECK HEATED SEAT SWITCH INDICATOR GROUND CIRCUIT		Н
 Turn ignition switch OFF Disconnect heated seat switch connector. 		
3. Check continuity between heated seat switch harness connector and ground.		ı
Heated seat switch	0 11 11	
Connector Terminal Ground	Continuity	SE
M178 6	Existed	SL
Is the inspection result normal?		
YES >> GO TO 2. NO >> Repair or replace harness.		K
2.CHECK HEATED SEAT SWITCH		
Check heated seat switch.		L
Refer to SE-65, "PASSENGER SIDE : Component Inspection".		
Is the inspection result normal? YES >> GO TO 3.		\mathbb{N}
NO >> Replace heated seat switch. Refer to <u>SE-152, "Removal and Installation"</u> .		
3. CHECK INTERMITTENT INCIDENT		Ν
Check intermittent incident. Refer to GI-42, "Intermittent Incident".	_	
>> INSPECTION END		0
PASSENGER SIDE : Component Inspection	INFOID:000000006344786	
PASSENGER SIDE : Component Inspection 1.CHECK HEATED SEAT SWITCH	INFOID:000000006344786	Р

- 2. Disconnect heated seat switch connector.
- 3. Set the heated seat switch ON.
- 4. Check continuity between heated seat switch terminals.

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HEATED SEAT SWITCH INDICATOR

< DTC/CIRCUIT DIAGNOSIS >

	Heated seat switch		
Connector	Terr	minal	Continuity
Connector	(+)*	(-)*	
M178	5	6	Existed
IVI I 7 O	6	5	Not existed

^{*}For a digital tester.

NOTE:

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

Is the inspection result normal?

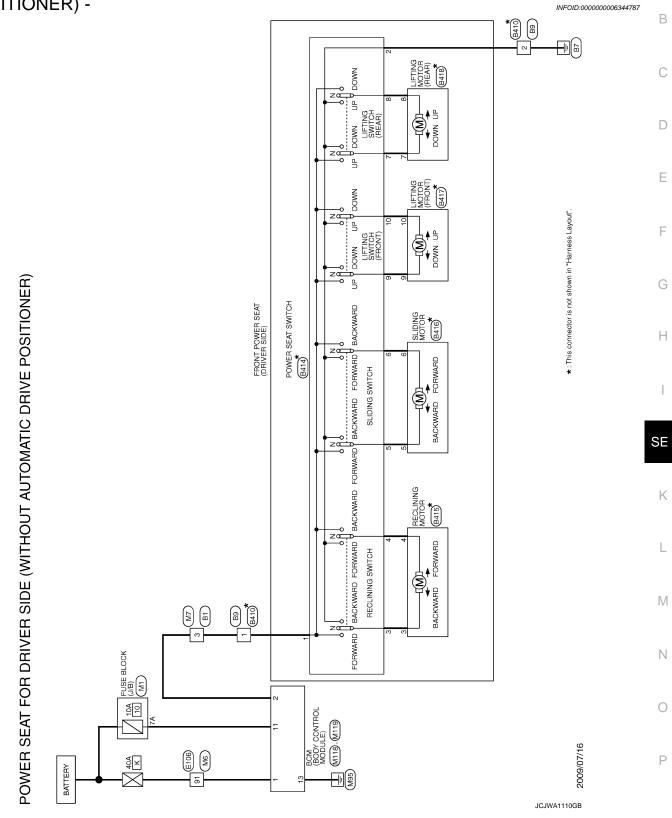
YES >> Heated seat switch is OK.

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

POWER SEAT

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

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POWER	ER SEAT	POWER SEAT FOR DRIVER SIDE (WIT	된	T AUTO	THOUT AUTOMATIC DRIVE POSITIONER)	R)		BATO	Connector No. RA15
Connector Name		WIRE TO WIRE	6 6 8	7	1 1	Connector Name		WIRE TO WIRE	9
Connector Type	П	TH80FW-CS16-TM4	99	П	ı	Connector Type	Ħ	NS06MW	Connector Type NS02FW-CS
4			62	> 8	ı	4			
1	8	0 11 0 0 12 0 0 13 0 0 14 0 0 18 0	8 69	S	1 1	V			S.=
	8 5		70	П	1			1 86 50	
	8 8		73	4	1			2 67 60	3 4
	8 8		4 ;	- ;	Ĭ.				
			76	× #	1 1				
Terminal	Color	3	77	╀	1	Terminal	Color		
No.	of Wire	Signal Name [Specification]	78	H	1	No.	of Wire	Signal Name [Specification]	No. of Wire Signal Name [Specification]
3	В	-	79	Н	1	-	ч	-	3 G/Y –
2	ŋ	-	83	$\overline{}$	Ī	2	В	1	4 P –
9	SB	1	82	>	ı	59	>	1	
_	>	1	98	<u></u>	ı	09	Υ/Κ	1	
∞	-	1	87	>	1	99	ω		Connector No. B416
12	SB	1	88	œ	1	67	_	1	Connector Name SLIDING MOTOR
2	5 5	1	68	<u>в</u>	1				Т
4	æ	1	8	BG	1		-		Connector Lype 6098-0239
15	5 :	'	91		1	Connector No.	1	B414	4
2	A 6	1	36	ž d	1	Connector Name		POWER SEAT SWITCH	
0 0	9 9		8 8	5 g		Connector Type	Т	NO TOTAL	
2 0	2 8	1	9	╀	1		1		1 29 2 1
2 5	SHIFLD	1	96	╀	1	6			
33	>	1	86	×	1	Ę			l
24	<u> </u>	1	66	ŀ	1	5		21	
27	8	1		ł				9	Terminal Color
28	ď	1						01000	
59	W	1	Connec	Connector No.	B9				2
30	SHIELD	-	Janua	Connector Name	WIRE TO WIRE				- A 9
31	SHIELD	1				Terminal	Color	Signal Name [Specification]	
32	W	1	Conne	Sonnector Type	M06FW-LC	No.	of Wire		- 1
83	SB	1	4			-	œ	1	Connector No. B417
34	7	1	季			2	В	1	Connector Name LIFTING MOTOR (FRONT)
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8	1	1			59 66 1	4	-	1	Connector Type NS02FW-CS
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39	>	1				7	ζ,	1	H.S.
44	>	I				8	_	1	
42	GR	1	Terminal	nal Color	Signal Name [Specification]	6	L/R	1	01 6
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47	SB	1	-	œ	ı				
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S 5	>	1	28	4	1				Terminal Color Signal Name [Specification]
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19	1	1	99	4	1				9 L/R
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) - [Without ICG]	SB	┞	82 SB –	- BG -		S8	d 98	- A 48	89 GR –	90 SHIELD –	- M 16	92 Y =	- A	FG	BC	- d 96	97 R	98 SHIELD –	- T 66	100 P			Connector No. M1	Connector Name FLISE BLOCK (L/B)		Connector Type NS06FW-M2	4	AHA			84 7A 6A 5A 4A				Terminal Color Signal Name [Specification]		1A GR -	2A G –	3A L –	4A P	- ^ P	- × ¥9	- 42		=								
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POWER SEAT FOR DRIVER SIDE (WITHOUT Connector No.		Connector Name LIFTING MOTOR (REAR)	Connector Type NS02FW-CS	ģ	唐	HS.		2 8					No. of Wire Signal Name [Specification]	7 L/Y -	- T 8			Connector No. E106	MIDE TO MIDE		Connector Type TH80FW-CS16-TM4	ģ		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 70 20 20 20 20 20 20 20 20 20 20 20 20 20	99	9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		ŀ	la la	re	+	2 W –	3 B -	4 GR –	5 GR –	- \ \ 8	9 BR –	BG -		H	╀	- 4	+		┨	17 SB -	18 N	20 BG –	H	22 V =	2 86	┨

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	23	۵ ۶	1	Con	Connector No.	M7	62	SHIELD		
8 5 5 7 7 7 7	34	- 00	1 !	Con	Connector Name	e WIRE TO WIRE	20 20	r	1 1	
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	09		-	F	_		67	>		
	61	g	-	7	ES.		89	PΠ	-	
- 1	62	SB	1	ļ 	ı		69	SHIELD	-	
Terminal Color Signal Name [Specification]	63	g	1	_			02	≥	1	
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9	68	Y		ź	of Wire	Signal Name [Specification]	77	e a	1	
5	69	GR	ı	<u> </u>	3 SB	3 - [With automatic drive positioner]	78	۵	ı	
- ×	70	LG	1	Ľ	3 M	_	79	GR	1	
BR -	7.1	LG	-		5 G	1	83	BG	-	
	72	Υ	1		e BG		82	ΓG	-	
BR -	73	SB	1	<u> </u>	\dashv		98	œ	1	
Bg	74	BR	- [With ICC]	<u> </u>	+		87	≻	1	
	74	Ļ	- [Without ICC]	<u> </u>	+		88	>	1	
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		۵ ۵	- [Without IGG]	<u> </u>	╀		8 8	. œ		
- BG	78	-	- [With IGC]	<u> </u>	╀		94	<u></u>	1	
	78	ч	- [Without ICC]	<u> </u>	┝		92	g	ı	
M	79	٨	- [With IOC]	21	S		96	>	1	
	79	W	- [Without ICC]	22	T	1	86	٨	-	
	80	SB	-	2	24 V	1	66	۳	-	
	81	SB	-	2	27 B	-				
	82	SB	-	2	Н	-				
	83	>	T	7	┪					
- 5	84	9	1	<u>" </u>	30 SHIELD	- and an				
	82	_	1	<u></u>	+					
	98	Ь	1	35	+	1				
	87	Μ	1	<u>" </u>	33 SB					
	88	GR	-	3	34 L	_				
	06	SHIELD	-	°	35 P	1				
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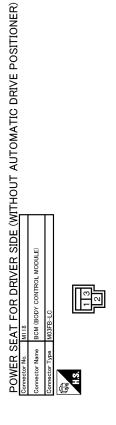
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Terminal No.	Color of Wire	Signal Name [Specification]
-	Μ	BAT (F/L)
2	Μ	POWER WINDOW POWER SUPPLY(BAT)
3	Å	POWER WINDOW POWER SUPPLY(RAP)
Connector No.	r No.	M119
Connector Name	r Name	BCM (BODY CONTROL MODULE)
Connector Type	r Type	NS16FW-CS

Signal Name [Specification]	INTERIOR ROOM LAMP POWER SUPPLY	PASSENGER DOOR UNLOCK OUTPUT	STEP LAMP OUTPUT	ALL DOOR, FUEL LID LOCK OUTPUT	DRIVER DOOR, FUEL LID UNLOCK OUTPUT	REAR DOOR UNLOCK OUTPUT	BAT (FUSE)	QND	DNSH-BUTTON IGNITION SWILL GND	ACC IND	TURN SIGNAL RH (FRONT)	TURN SIGNAL LH (FRONT)	ROOM I AMP TIMER CONTROL
Color of Wire	ÐΠ	7	У	۸	5	BR	В	В	W	Υ	W	BG	^
Terminal No.	4	9	4	8	6	01	11	13	14	91	11	81	61

Revision: 2011 October SE-71 2011 EX

Wiring Diagram - POWER SEAT FOR PASSENGER SIDE -INFOID:0000000006344788 FRONT POWER SEAT (PASSENGER SIDE) (8W): With 8-way power passenger's seat POWER SEAT SWITCH (B434) MOTOR (REAR) (8438) DOWN ♣ dh Nwod A du nwood day *: This connector is not shown in "Harness Layout". LIFTING MOTOR (FRONT) (B437) do wood SLIDING MOTOR (8436)* BACK- FOR- WARD WARD SLIDING SWITCH BACK- FOR-WARD WARD zœ BACK- FOR- BACK- F WARD WARD WARD WARD SWITCH POWER SEAT FOR PASSENGER SIDE 95 B201 B420, \$420, BCM (BODY CONTROL MCDULE) (M118), (M119) FUSE BLOCK (J/B) (M1) **₽** 2009/07/16 91 M6 M6 **₩** BATTERY

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POWER SEAT

ation]	А
IG MOTOR CS Signal Name (Specification) MOTOR MOTOR (FRONT) CS Signal Name (Specification) CS Signal Name (Specification) CS CS CS CS CS CS CS CS CS C	В
#435 RECLINING MOTOR NS02FW-CS Signal Name Spe	С
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Connector Connector Connector No. Connector Co	D
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Signal Name [Specification] Signal Name [Specification]	F
NSD6MW N	
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Connector Name Colonector	Н
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WIRE C. C	
8203 WIRE TO WIRE MOSFW-LC Signal Na	SE
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ш	
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WWRE CSIG-TW4 CSIGnal Name (Specification) Signal Name (Specification)	M
Signal Name 10 WIRE TO WIRE Signal Name 10 WIRE TO WIRE Signal Name 10 WIRE TO	N
Connector Name Conn	O NAMA 200CB
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Revision: 2011 October SE-73 2011 EX

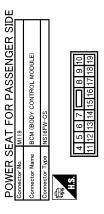
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	<u>н</u> П
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	- □
Batton CEER S	
Wire CS16-TM4 CS16-TM4 CS16-TM4 Signal Name (Specification) CS16-TM4 CS	M
M6 WRE TO WRE THAM CSIG-TM4 Signal Name (\$ Signal Name)	
WIRE TO WIRE THBOMW-CSTIG	N
Connector Name WIRE TO WIRE	\mathbf{H}
DOW Commercial Commerc	JCJWA1291GB
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Revision: 2011 October SE-75 2011 EX



Signal Name [Specification]	INTERIOR ROOM LAMP POWER SUPPLY	PASSENGER DOOR UNLOCK OUTPUT	STEP LAMP OUTPUT	ALL DOOR, FUEL LID LOCK OUTPUT	DRIVER DOOR, FUEL LID UNLOCK OUTPUT	REAR DOOR UNLOCK OUTPUT	BAT (FUSE)	GND	PUSH-BUTTON IGNITION SW ILL GND	ACC IND	TURN SIGNAL RH (FRONT)	TURN SIGNAL LH (FRONT)	ROOM LAMP TIMER CONTROL
Color of Wire	re	٦	Υ	٨	g	BR	ч	В	W	Υ	W	BG	>
Terminal No.	4	5	7	8	6	10	11	13	14	15	17	18	19

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LUMBAR SUPPORT

Wiring Diagram - LUMBAR SUPPORT SYSTEM -

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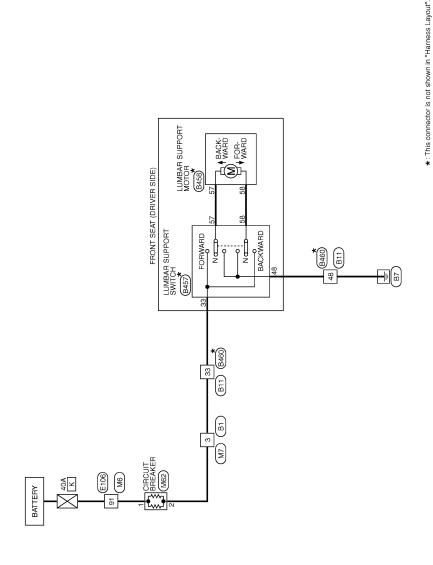
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LUMBAR SUPPORT

	Connector No. B460	وا	Collector valie with 10 with	Connector Type NS16MW-CS	1	Atto		19 3 1 1 17 40 59	20 66 32 48 21 33 67 60			- 0	Signal Name [Specification] Of Wire Signal Name [Specification]	т	3 R/Y -	17 Y/R -	- v 61	~	>	m.	R/W		_ !:	= H/\ 09	0 -	j																						
	33 R	H	\dashv	59 B =	9	4	- Y			Connector No. B457	Connector Name LUMBAR SUPPORT SWITCH	Company Total	1	修			58 57 48 33				Terminal Color Signal Name [Specification]	or wire	r	488 B		200		Connector No. B458	GOTOM TAGGALIS ANAMA SAMA	П	Connector Type C02FW				58 57				Terminal Color Signal Name [Specification]	of Wire	57 W –							
		- D	SHIELD -	W		SB -	Q.	M	SB –				1 1		BG –	۸ -	T	-				n (GR –			, B11	me WIRE TO WIRE	pe NS16FW-CS	1		Ш	59 40 20 17 1 1 3 19	60 67 33 21 48 32 66 8	1			Color Signal Name [Specification]		<u>و</u>				> a
	-	Н	Ħ	99	+	┪	7	┨	+	+	+	+	//	╁	83	Н	98	4	88	+	+	+	+	93	+	96	t	H			Connector No.	Connector Name	Connector Type		唐	HS.						lar	No.	+	3	+	+	23
H C C C C C	LUMBAR SUPPURI	WIRE TO WIRE		TH80FW-CS16-TM4			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			2 Q 11 11 11 11 11 11 11 11 11 11 11 11 1			Signal Name [Specification]	1		1	1	1		1	1						1	1	1	-	- ا	- 1			5		1	1	1	1	1					1		
ה ה	or No.	Connector Name	DI Maille	Connector Type								L	of Wire	۵	g	SB	^	٦	SB	<u>5</u>	SR.	5] ;;	\$	8 5	2 8	SHELD	\	Ь	В	ч	Μ	SHIELD	۸	SB	٦	۵	_	۵	BR	≻	>	GR	LG	SB	g	>	١.	CHIELD
74	Connector No.	Connect	50	Connect	1	手	H.S.						No.	က	2	9	7	8	12	23	14	12	<u>-</u> :	10	30	21	22	24	12	28	59	30	32	33	34	32	36 36	37	88	39	4	45	46	47	49	20	9 7	19

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Revision: 2011 October SE-79 2011 EX

LUMBAR SUPPORT

50 R	R G G SHIELD SB SB V V V V V SHIELD SHIELD	W W G G W		PG	90 BG	
W	WIRE TO WIRE THROMW-CS16-TM		Signal Name [Specification] - [With automatic drive positioner] - [Without automatic drive positioner]			
99 V 100 SB	Connector Name Connector Type		Terminal Color No. of Wire 3 SB 3 W 5 G			28
					- [Web ICC] - [Without ICC] - [Web ICC] - [Without ICC] - [Without ICC]	
L BR L	> ₩ 0 ≥ 1 0 ₩	g n ⊠ × π	SHELD Y GR LG LG	SB ×	S S × × × × × × × × × × ×	SB S
49 50 52 53	54 56 59 60 61	63 64 65 66	69 70 71	72 73 74 74 75	76 77 77 87 87 87 80	88 88 88 88 89 89 89 89 89 89 89 89 89 8
	8 3 8 8 9 5 9 9 18 6 9 9 9 18 6 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Signal Name [Specification] 		1 1 1 1 1 1	1 1 1 1 1 1 1 1 1	
M6 WIRE TO WIRE TH80MW-CS16-TM4		S S				
Connector No. M6 Connector Name WIRE TO WIRE Connector Type TH80MW-CS16-TM4		Color Sig of Wire W R	SHIELD G Y Y	BR BG L	□ > 88 > 88 \ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	× × × 0 0 0 - 0 8 B 0 0 - 0 0 0 < ×

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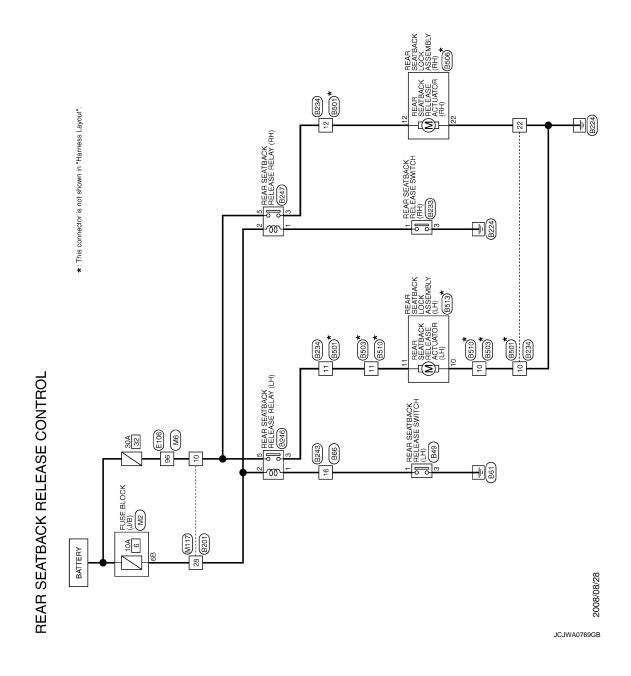
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LUMBAR SUPPORT	M62	CIRCUIT BREAKER	M02FW-P-LC		Signal Name [Specification]	1	I
3AR S	П	Name	П		Color of Wire	W	SB
LUME	Connector No.	Connector Name	Connector Type	E.S.	Terminal No.	-	2

Wiring Diagram - REAR SEATBACK RELEASE CONTROL -

INFOID:0000000006344790



< DTC/CIRCUIT DIAGNOSIS >

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Signal Name (Specification)	В
B243 WRE TO 110 9 111 122 22 22 22 22 22 22 22 22 22 22 22 22	С
Terminal Colors 1	D
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### TO WIRE TH80FW-CS16-TM4	SE
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Connector No. Connector No	K
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Connector Name Es.M SEATBACK RELEASE CONTRO Connector Name Es.M SEATBACK RELEASE SWITCH (Liv) Connector Type TKO6FW-I V Connector Type TKO6FW-I V Connector Name Signal Name Specification Color Signal Name Specification Connector Name Connector Name NIE Connector Name NIE Connector Name NIE Connector Name NIE Connector Name Connector Name NIE Connector Name Connector Name NIE Connector Name Connector	M
TBACK RELEASE SWTCH (LM) TROGFW- IV TROGFW- IV Signal Name [Specification S	
Name	N
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Revision: 2011 October SE-83 2011 EX

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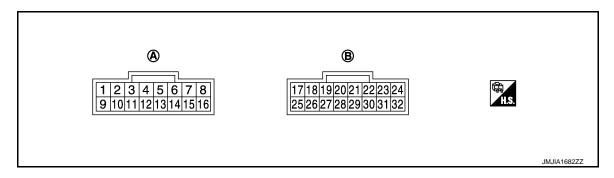
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ECU DIAGNOSIS INFORMATION

REAR SEAT BACK POWER RETURN CONTROL UNIT

Reference Value INFOID:0000000006344791 В

TERMINAL LAYOUT



A. B227 B. B226

PHYSICAL VALUES

Rear seat back power return control unit

	ninal No. re color)	Description		Condition	Voltage (V)	Н
(+)	(-)	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	SE K
				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	M
5 (GR)	Ground	Power return motor (LH) back-	Output	When the power return motor (LH) performs reverse operation	Battery voltage	N
(GK)		ward signal		Other than the above	0	IN
6	Ground	Power return motor (LH) for-	Output	When the power return motor (LH) performs return operation	Battery voltage	0
(L)		ward signal	-	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	Р
(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)		waru siyilal		Other than the above	0	•
9 (P)	Ground	Ground (Motor sensor LH)		_	0	

SE-87 Revision: 2011 October 2011 EX

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< ECU DIAGNOSIS INFORMATION >

	ninal No. re color)	Description		Our divisor	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 UP direction input signal	Input	When pressing the power return switch (RH) or rear seatback switch (RH) in UP direction	0
		OP direction input signal		Other than the above	5
21 (W)	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 (O)	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 *** ** ** ** ** ** ** ** ** ** ** ** **
28 (LG)	Ground	Power return switch (LH) or rear seatback switch in UP direction input signal	Input	When pressing the power return switch (LH) or rear seatback switch in UP direction	0
				Other than the above	5
29 (G)	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

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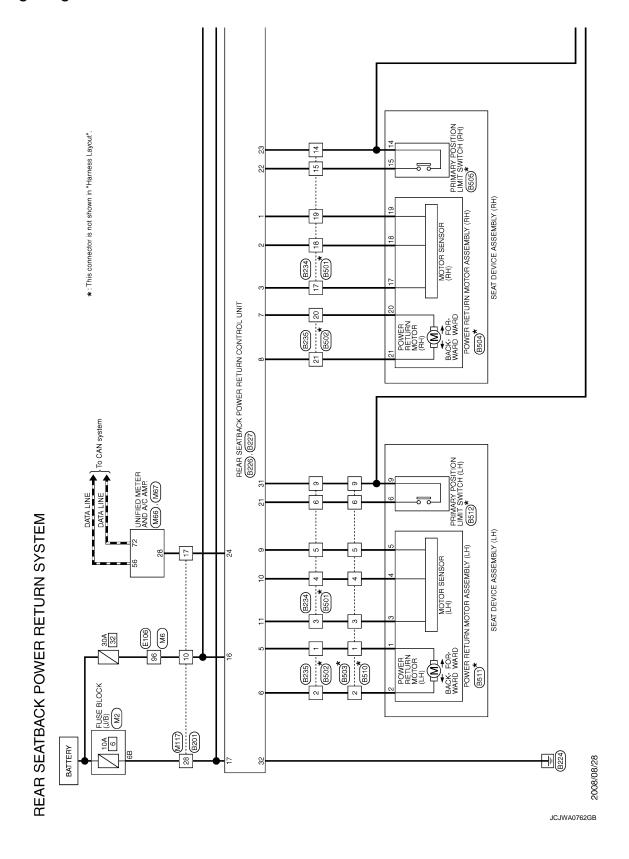
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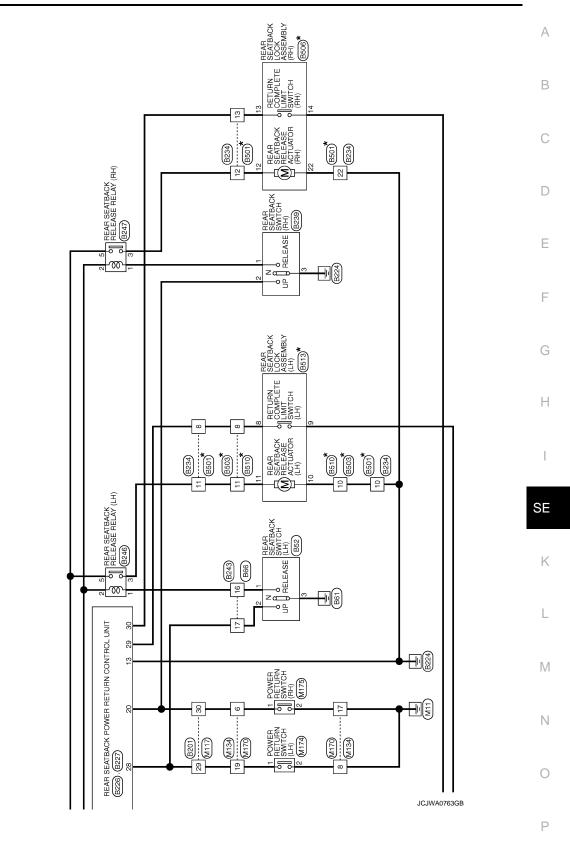
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Wiring Diagram - REAR SEATBACK POWER RETURN SYSTEM -

INFOID:0000000006344792



*: This connector is not shown in "Harness Layout".



< ECU DIAGNOSIS INFORMATION >

ETURN	SYSTEM Connector No.	NO.	B201	75	> >	1 1	Connector No.	П	П
REAR SEATBACK SWITCH (LH) TK06FW-1V	Connector Name		WIRE TO WIRE TH80FW-CS16-TM4	8 8 8	. g 5		Connector Name	ne REAR SEATBACK POWER RETURN CONTROL UNIT PE SEA16FW	LΤ
	₹ S			88 88 88 88 88 88 88 88 88 88 88 88 88	a a - B - a - a		E.S.		1
Signal Name [Specification]	Terminal No.	Color of Wire W	Signal Name [Specification] -	94 96	S S D	1 1 1	in a	or Signal Name [Specifi GND (RH SENSC	П
1 1	3 8	R GR R		98	0 K 0	1 1 1	3 2 6	Y MOTOR SENSOR (RH) G POWER SUPPLY (RH SENSOR) GR BACKWARD	П
998	7 10	S w	1 1	100	_		++	SB BACKWARD	П
WIRE TO WIRE TH24MW-NH	16	8 > H	1 1 1	Connector No.	or No.	B226	0 6 0	P GND (LH SENSOR) BR MOTOR SENSOR (LH)	П
	26	HH - 1	1 1	Connect	Connector Name	REAR SEATBACK POWER RETURN CONTROL UNIT	Н	POV	П
1 2 3 4 5 6 7 8 9 10 11 11 2 13 14 15 16 17 18 19 20 21 22 23 24	29 30 32 33	- > R R S	1 1 1 1 1 1	H.S.		17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32		-	٦
Signal Name [Specification]	52	≃ >	1 1						
1 1 1 1	55 57 58	യ ≈ ≥ യ	1 1 1 1	Terminal No. 17 20	of Wire	Signal Name [Specification] BAT (SYSTEM) FLIP UP SW RH			
1 1 1		SHIELD V	1 1 1	21 22 23	8 8 8	PRIMARY POSITION L/S (LH) PRIMARY POSITION L/S (RH) GND (RH L/S)			
1 1	62 63	R a	1 1	24	R P	SPEED 8P FLIP UP SW LH			
	64 65 67	- D G - E	1 1 1 1 1	29 31 32 32	≥ ∝ ⊣ ∞	RETURN COMPLETE L'S (LH) RETURN COMPLETE L'S (RH) GND (LH L/S) GND (SIGNAL)			
	69 70 71 72 73	S × × S × B	11111						

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< ECU DIAGNOSIS INFORMATION >

	А
Signal Name (Specification)	В
B502 WIRE TO M04FW-L	С
Color Colo	D
VY (L-1) VY (PH) VY (PH) VY (PH)	Е
Signal Name (Specification) Sign	F
	G
Connector Nar Connec	Н
FEAR SEATEACK SWITCH (RH)	SE
FEAR SE FEAR	
Connector Name Conn	K
	L
REAR SEATBACK POWER RETURN E234 Connector Name Wire To Wire Wire Wire To Wire Wire To Wire Wire Wire Wire Wire Wire Wire To Wire	M
EATBACK I 8234 WIRE TO	N
Connector Name Conn	0
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EATBACK POWER RETURN			
Connector No. B503	Connector No. B505	1 LG/B -	Connector No. B513
Connector Name WIRE TO WIRE	Connector Name PRIMARY POSITION LIMIT SWITCH (RH)	2 LG =	Connector Name REAR SEATBACK LOCK ASSEMBLY (LH)
Connector Time MS10EM-00	Connector Type TY00EW		Connector Tune NEO4EM-CS
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		t	
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্ 1		+	
10 6 9 5 4 2	14 15	۵ ۸	8 9 10 11
Terminal Color	Terminal Color	Connector No. B511	
_	Ť	Connector Name DOWER RETURN MOTOR ASSEMBLY (LH)	No. of Wire Signal Name [Specification]
ж :	┪		7
K.w		Connector Type 6098-0245	
2/2			20 2
8/9	Connector No. B506		$\left\{ \right.$
SB	Г		
0	Connector Name REAR SEATBACK LOCK ASSEMBLY (RH)		
> 6	Connector Type NS04FW-CS	2	
10 B -	1		
	医		
	HS.	la	
I			
Connector No. B504	13 14 22 12	1 LG/B	
Connector Name POWER RETURN MOTOR ASSEMBLY (RH)		F.G	
┱		SR E	
Connector Type 6098-0245	L	GR/B	
1	Terminal Color Signal Name [Specification]	5 GR/R MOTOR SENS GND	
	+		
194	+	Connector No B519	
07 07 07	14 1/8	Т	
/1 61 81	H	Connector Name PRIMARY POSITION LIMIT SWITCH (LH)	
	ł	Connector Type TK02FW	
Į.		₫.	
ē	Connector No. B510	Arts.	
No. of Wire	Connector Name WIRE TO WIRE		
Ť	Gonnector Type NS10MW-CS		
GR/R	1	9 8	
ΓG	修		
H	55		
	1 3	<u>_</u>	
	2 4 5 9 6 10	No. of Wire	
		Н	
	Terminal Color Signal Name [Specification]		
	of Wire		

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< ECU DIAGNOSIS INFORMATION >

SHELD	
	- (With tCC) - (With tCC) - (Without tCC)
STEM 49 49 50 51 52 53 54 54 60 61 62 63 63 63 63 64 67 67 67 67 67 67 67 67 67 67	78 79 79 81 81 82 83 83 83 84 84 85 86 89 90 90 91 91 91 91 91 91 91 91 91 91 91 91 91
Connector Name Color Col	
Terminal Color No. 0 of Wire N	

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Revision: 2011 October SE-95 2011 EX

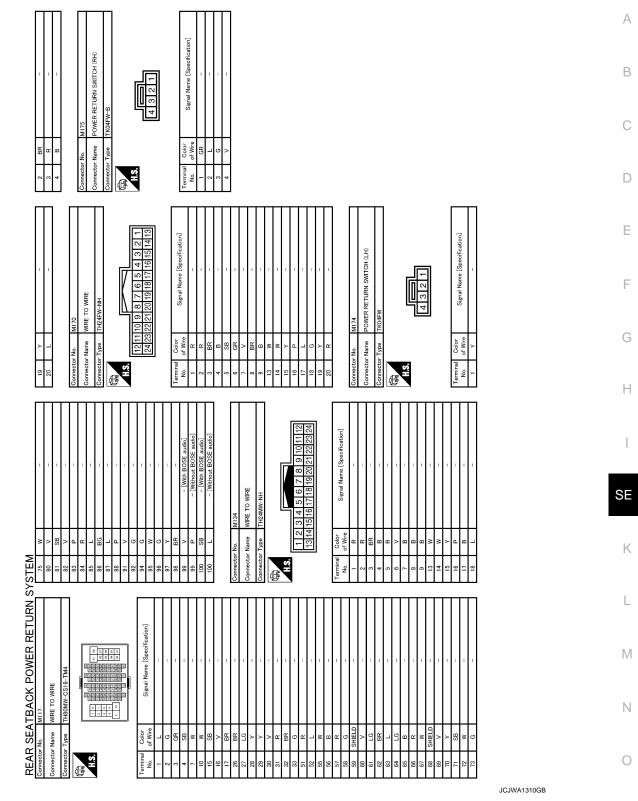
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< ECU DIAGNOSIS INFORMATION >

SYSTEM 190 1	44 LG IN-VEHICLE SENSOR SIGNAL 45 P AMBIENT SENSOR SIGNAL 46 BG SUNIOAD SIGNAL	G EXHAUST C	>	В	7	W	BR	B.	-	61 BR AMBIENT SENSON GROUND 62 SR STINLOAD SENSOR GROUND	2	65 BG ECV SIGNAL	_	R EACH DOOR N	В	72 P CAN-L																														
SYSTEM		M66	CHAN CA CHAN CHANGE	UNIFIED METER AND A/C AMP.	TH40FW-NH				R 7 8 9 10 11 12 14 15	26 27 28 30 34			Signal Name [Specification]	orginal reality Copposition	MANUAL MODE SHIFT UP SIGNAL	COMMUNICATION SIGNAL (AMP>METER)	VEHICLE SPEED SIGNAL (2-PULSE)	FRONT SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE)	MANUAL MODE SIGNAL	NON-MANUAL MODE SIGNAL	COMMUNICATION SIGNAL (LCD->AMP.)	AT SHOW SWITCH STONAL	MANITAL MODE SHIFT DOWN SIGNAL	COMMINICATION SIGNAL (METER->AMP)	VEHICLE SPEED SIGNAL (8-PULSE)	PARKING BRAKE SWITCH SIGNAL	COMMUNICATION SIGNAL (AMP>LCD)	BLOWER MOTOR CONTROL SIGNAL			MO.	UNIFIED METER AND A/C AMP.	TH32FW-NH				44/45/40/47	60 61 62 63 65 60 70	00 00 00 00 00					ACC POWER SUPPLY	INTAKE SENSOR SIGNAL	Transfer Consocial States
SYSTEM	H	nector No.		nector Name	nector Type		_	S.	٥	21 22 23			_	┪	5 L	+	+	+	+	+	+	, L	- >	ł	+	┞	34 Y	Н		1	Hector No.	nector Name	nector Type		_	H.S.		y œ	2		L	_	+	> >	43 B	1
SYSTEM 49 40 40 40 40 40 40 40 40 40			<u> </u>	5	S	₫	手	1	Т	_	1	 	Ter				Ц Т	Ц Т] T] T	T T	T T	T T	T T	Т Т			Ľ H	_	Ţ	Ī	ق T	Ş	[d)		 	_			Į	₽ <u>-</u>	<u>[</u>]	T T	T T] 1
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	STEN 50 51	52	54	26	57	29	09	19	9	63	65	99	- 67	89	69	0/	7	72	73	4	4/	6/	9/	77	1,1	78	78	79	79	200	5 8	88	84	85	98	87	68	90	91	95	93	98	S S	96	6 8	3
MIRE TO WIRE THROMW-CSIG-TM4 THROMW-CSIG-TM4 Signal Name (S	OWER RETURN	TH80MW-CS16-TM4		2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2						Signal Name [Specification]	1	-	1	-	1	ı	1	1						1	1	1	-	1	1	1		1	T	1	-	1	1	I		1	1	1	1	1		
Connector Name Connector Name Connector Name Connector Type Conn	VR SE/ tor No.	tor Type							ŀ		*	~	В	SHELL	g	>	띪	œ	۲ ۳	<u> </u>	- -	r c	>	. g	9 >	BG	7	Μ	١	ž ;	- >	. 0	g	L	ŋ	В	×	۳	SHELC	>	g i	£ 3	≥ 2	2 2	2 ≥	-
Connector No. Connector No	Connect	Connec	修	SII.						Termin, No.	-	2	3	4	2	80	6	9	=	2 5	2 3	± =	9	1	- 82	20	21	22	23	24	20	27	28	31	32	33	34	32	36	32	8	g;	4 5	4.5	? 4	

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< ECU DIAGNOSIS INFORMATION >



Fail-safe

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

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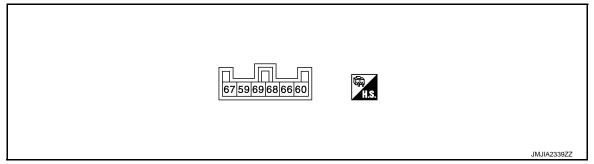
Possible location of malfunction	Diagnosis mode	Corrective action
Return complete limit switch "ON" mal- function	The return completion position cannot be detected	Detect the lock with the rear seatback power return control unit, and then reverse the power return motor
Return complete limit switch "OFF" mal- function	The automatic return cannot be performed because the return completion position is misrecognized	The manual return operation can be performed
Primary position limit switch "ON" 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)	Return the sector gear to the initial position if the primary position limit switch is not turned to ON after starting the return (Lock detection) The manual return operation can be performed
Sensor malfunction (fixed to High or Low)	The motor lock is misrecognized because the pulse does not change	If the pulse does not change completely after starting the motor operation, return the sector gear to the initial position The manual return operation can be performed

< 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)	Ground	1014 power suppry	mpat	ignition switch	ON	Battery voltage
66	Ground	Heated seat operation sig-	Input	Heated seat	Operate	Battery voltage
(B)	Giodila	nal	iliput	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
				ownor.	4	12.63
					5	12.76
					6 (Max. temperature)	12.90
68	0	Seat cushion heater pow-	0 1 1	II. d. I	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*
(11)				OWITOIT	4	11.13 – 11.26*
					5	11.22 – 11.34*
					6 (Max. temperature)	11.31 – 11.43*

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

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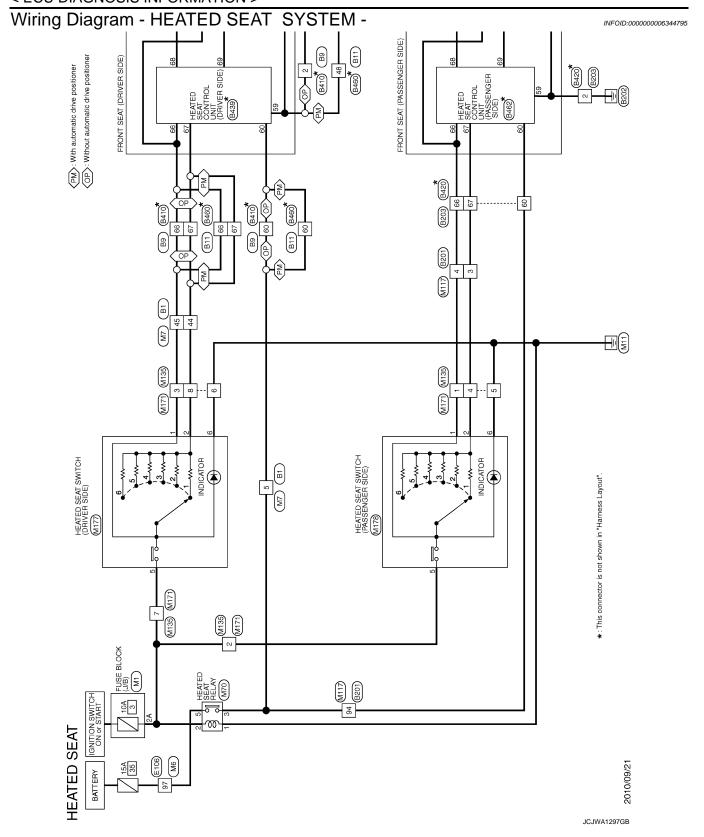
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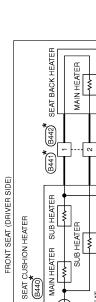
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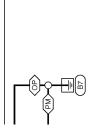
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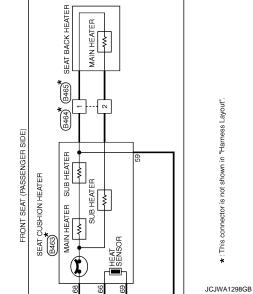
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⟨PM⟩: With automatic drive positioner
⟨OP⟩: Without automatic drive positioner

Revision: 2011 October

Concept Mark Conc	HEATED SEAT Connector No. B1	[8]	H		Connector No.	Ш	B11	26	盎 .		
The Part of the	WIRE TO WIRE	64	+		Connect		VIRE TO WIRE	27	- ;	1	
Signet Name (Separate Internal Contract Name (Separate Internal	TH80FW-CS16-TM4	99	+		Connect		S16FW-CS	29	≻		
Signature Sign		69	H	1	4			30	æ	1	
Signature (Specification) 1		99	H		唐			31	۳	1	
Signat Name Specification 1 1 1 1 1 1 1 1 1		99	7		HS	_		32	æ	1	
Stand Manne (Specification) 12 12 12 12 12 12 12 1		×	+				40 20 17 1 3 1	33	g	Î	
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100 100		87	╀		21	>	1	63	_	1	
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1		88	\vdash		33	~	1	65	G	1	
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1	-	95	H		59	В	-	89	SHIELD		
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Signature Sig	T	96	L		99	GR	1	70	Υ	1	
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Signal Name [Specification] Sign	Q	8	-	1				72	*	1	
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Cornector No. B3 Connector Type TH80FW-CS16-TM4 B2 LSB	1				Connect		VIRE TO WIRE	80	>	Î	
Connector No. B9 Connector Name MFR TO WIRE Connector Name 1					╛		<u>8</u>	SB	I		
Counsetor Name WIRE TO WIRE Counsetor Type MOSFW+LC	_	Conn	ector No.	B9	Conneci		TH80FW-CS16-TM4	82	ΓC	1	
Connector Type MOSFW-LC		Jung	octor Name		ą			83	Ь	-	
Connector Type MOFFW-LC Connector Type MOFFW-LC			1000	┑	手			84	٣	1	
Terminal Color Col		Conn	ector Type		S \		1000	82	7	_	
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Terminal Color C	1	7	v.					88	Ь	1	
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Terminal Color Signal Name Specification Color Signal Name Specification Color Color Terminal Color Color Color Color Color Color No. of Wire Color							95	~	1		
No. of Wire Signal Name [Specification] No. of Wire Signal Name [Specification] Signal				67	Terming	_	4	94	~	1	
Terminal Color Col	1				N		Signal Name [Specification]	92	SB	1	
Terminal Color Col	-				-	*	1	96	g	1	
No of Wire Signal Marrie [Specification] 2 GR	1	Term	⊢		2	~	1	97	G	1	
1 R - 4 BG - 99 P 2 B - 7 LG - 100 L - 60 G - 16 W - 100 L - 60 G - 15 SB - - 66 GR - - 16 V - -		ž	_		8	æ	1	86	~	1	
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ification]	Е
Signal Name [Specification]	F
No.	G
Connector No.	Н
WIRE TO WIRE NSOBAW Signal Name [Specification] Signal Name [Specification] Ground Ground IGN bower supply Heared seat operation signal	I
	SE
Connector No. Connector Name Connector Name 66 67 7 R 60 7 R 60 7 R 60 7 R 60 8 8 R 7 60 8 8 8 R 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	K
	L
WIRE Signal Name [Specification] Signal Name [Specification]	M
	N
HEATED SEAT Connector Name WIRE T Connector Type MOGFW Terminal Color No. of Wire 59 B B 50 R B 66 BC Connector Name WIRE T Conn	0
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67 SH 68 69 L 70 71 72 73 74 E	 		96 0 001 96 0 001
3 B	+++++		45 BR
B464 WIRE TO WIRE M02FW-LC	Vire	No. 6465 Type MOZAW-LC Color Signal Name [Specification]	No. E106 Type HH60FW-CS16-TM4 H100FW-CS16-TM4
Connector No. Connector Name Connector Type	No. 1	Connector Non- Connector Type Connector Type Terminal Color No. of Wiret 1	Connector No. Connector Type Connector Type LLS. LLS. Terminal Color No. of Wif.

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HEATEI Connector No	HEATED SEAT	SEAT	7	88		7.7	~	- [Mith IGG]	г
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Connect	Connector Name	FUSE BLOCK (J/B)	8 8	> 0	in the state of th	r f	<u>.</u>	- [Without ICC]	Т
ć		CT	7 5	g .	i i	8 6		- [with ICC]	Т
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#			23	a. 8	T	92	≯ (- [Without ICG]	Т
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		3A 2A 1A	25	→ ;	1		B G	Î.	Т
		8A 7A 6A 5A 4A	52	> 0	ı	88	g ;	Í.	Т
			77	5 (i.	2 2	> (ı	Т
			07	5 -	i I	8	5 -	i I	Т
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lerminal	of Wins	Signal Name [Specification]	37	5 0	I	8 5	1 3	ı	Т
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34	_	1	36	SHIELD	ı	91	>	ı	7
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8A	_	1	45	BG	1	96	*	1	Г
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			45	W	1	86	SHIELD	1	Г
Connector No.	or No.	M6	49	٦	1	66	>	1	Т
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Connect	Connector Name	WIRE TO WIRE	51	BR	1				1
Connector Type	or Type	TH80MW-CS16-TM4	52	1	1				
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B			54	. >-	1				
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Terminal	_	Signal Name [Specification]	63	5	i.	_			
No	of Wire		64	В	i.	_			
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2	œ	_	99	ď	=				
3	В	-	29	SHIELD	_				
4	SHIELD	-	89	λ.	1				
2	5	1	69	GR	1				
∞	>	1	70	57	1				
6	띪	1	71	57	1				
10	~	-	72	>	1				
Ξ	æ		73	SB	1				
12	BG		74	BB	- [With IGC]				
13	-		74	-	- [Without ICC]				
4	2 2		75	ی د	FOOT PROPERTY.				
2	: a	1	2.2	3 3	- [With ICC]	_			
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HEATED SEAT Convector Name Wife TO Write
Signal Name (Specification) 179 189 180
Name
Number of the positioner Page P
WIRE TO WIRE THEOMW-CS16-TM4 THEOMY CS16-TM4 Signal Name (Specification) - [With automatic drive positioner] - [Without automatic drive positioner] - [Without automatic drive positioner] - [Without automatic drive positioner] - [Without automatic drive positioner] - [Without automatic drive positioner] - [Without automatic drive positioner]
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Connector No. M178 Connector Name HEATED SEAT SWITCH PASSENCER SIDE) Connector Type TK08FBR HS FINANCE FINAN	Terminal Golor Signal Mame [Specification]	H	2 GR –		Н	- B 9												
HEATED SEAT Connector No. MITI Connector Name WIRE TO WIRE Connector Type INSOGEBR-CS WATER TO WIRE TO WIRE TO WIRE TO MITE TO MITE TO WIRE TO MITE T	Signal Name [Specification]	-			-		1	1	M177	HEATED SEAT SWITCH (DRIVER SIDE)	TK10FW	6 6 7 1 5	or Signal Name [Specification]	-	1	I	-	
HEATED Connector No. Connector Type Connector Type	nal Golor	Н	≥ 8	5 8	В	В	≯	٦	Connector No.	Connector Name	Connector Type	vá.	nal Color of Wire	GR	7	۳	>	≥
Connect Connect Connect HS.	Terminal	-	7	3 4	5	9	7	8	Conne	Conne	Conne	₽ H.S.	Terminal No.	_	2	3	4	2

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JCJWA1304GB

REAR SEATBACK POWER RETURN SYSTEM DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

REAR SEATBACK POWER RETURN SYSTEM DOES NOT OPERATE BOTH SIDES

BOTH SIDES: Diagnosis Procedure

INFOID:0000000006344796

1. CHECK POWER SUPPLY AND GROUND CIRCUIT

Check power supply and ground circuit.

Refer to SE-16, "REAR SEATBACK POWER RETURN CONTROL UNIT: Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK VEHICLE SPEED SIGNAL CIRCUIT

Check vehicle speed signal circuit.

Refer to SE-45, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

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

NO >> GO TO 1.

LH

LH: Diagnosis Procedure

INFOID:0000000006344797

1. PERFORM POWER RETURN SWITCH AND REAR SEATBACK SWITCH

Perform power return switch and rear seatback switch.

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

POWER RETURN SWITCH>>GO TO 2.

REAR SEATBACK SWITCH>>GO TO 3.

BOTH SIDES>>GO TO 4.

2. CHECK POWER RETURN SWITCH (LH)

Check power return switch (LH).

Refer to SE-21, "LH: Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

3.CHECK REAR SEATBACK SWITCH (LH)

Check rear seatback switch (LH).

Refer to SE-25, "LH: Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4. CHECK POWER RETURN MOTOR (LH)

Check power return motor (LH).

Refer to SE-42, "LH: Component Function Check".

Is the inspection result normal?

REAR SEATBACK POWER RETURN SYSTEM DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >	
YES >> GO TO 5. NO >> Repair or replace the malfunctioning parts.	А
5. CHECK RETURN COMPLETE LIMIT SWITCH (LH)	A
Check return complete limit switch (LH).	
Refer to SE-33, "LH: Component Function Check".	В
Is the inspection result normal?	
YES >> GO TO 6. NO >> Repair or replace the malfunctioning parts.	С
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.	Е
RH	
RH : Diagnosis Procedure	0:00000000006344798
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.	ŀ
2.CHECK POWER RETURN SWITCH (RH)	
Check power return switch (RH).	
Refer to SE-22, "RH: Component Function Check".	
Is the inspection result normal?	SE
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?	L
YES >> GO TO 4.	
NO >> Repair or replace the malfunctioning parts.	N
4.CHECK POWER RETURN MOTOR (RH)	
Check power return motor (RH). Refer to SE-43, "RH: Component Function Check".	
Is the inspection result normal?	N
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 <u>SE-34, "RH : Component Function Check"</u> . <u>Is the inspection result normal?</u>	F
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.

MALFUNCTION DETECTION BUZZER SOUNDS DURING POWER RETURN MOTOR INVERSE ROTATION

< SYMPTOM DIAGNOSIS >

MALFUNCTION DETECTION BUZZER SOUNDS DURING POWER RE-	
TURN MOTOR INVERSE ROTATION	Α
LH	
LH : Diagnosis Procedure	В
1. CHECK RETURN COMPLETE LIMIT SWITCH (LH)	C
Check return complete limit switch (LH). Refer to SE-33, "LH: Component Function Check".	
Is the inspection result normal?	D
YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts.	
2.CHECK PRIMARY POSITION LIMIT SWITCH (LH)	Е
Check primary position limit switch (LH). Refer to SE-29, "LH: Component Function Check".	
<u>Is the inspection result normal?</u> YES >> GO TO 3.	F
NO >> Repair or replace the malfunctioning parts.	
3. CHECK POWER RETURN MOTOR (LH)	G
Check power return motor (LH). Refer to SE-42, "LH: Component Function Check".	Н
Is the inspection result normal?	
YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts.	1
4.CONFIRM THE OPERATION	
Confirm the operation again.	SE
Is the inspection result normal?	OL
YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident". NO >> GO TO 1. RH	K
RH : Diagnosis Procedure	L
1. CHECK RETURN COMPLETE LIMIT SWITCH (RH)	
Check return complete limit switch (RH). Refer to SE-34, "RH: Component Function Check".	M
Is the inspection result normal?	
YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts.	Ν
2.CHECK PRIMARY POSITION LIMIT SWITCH (RH)	
Check primary position limit switch (RH). Refer to SE-30, "RH: Component Function Check".	0
Is the inspection result normal?	
YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts.	Р
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.	

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MALFUNCTION DETECTION BUZZER SOUNDS DURING POWER RETURN MOTOR INVERSE ROTATION

< SYMPTOM DIAGNOSIS >

NO >> Repair or replace the malfunctioning parts.

4. CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

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

NO >> GO TO 1.

DOES NOT RETURN BUT MALFUNCTION DETECTION BUZZER SOUNDS

< SYMPTOM DIAGNOSIS >

DOES NOT RETURN BUT MALFUNCTION DETECTION BUZZER	-
SOUNDS LH	А
I H : Diagnosis Procedure	В
	1
1. CHECK PRIMARY POSITION LIMIT SWITCH (LH)	С
Check primary position limit switch (LH). Refer to SE-29, "LH: Component Function Check".	
Is the inspection result normal?	D
YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts.	
2.CHECK MOTOR SENSOR (LH)	E
Check motor sensor (LH). Refer to SE-37, "LH: Component Function Check".	
Is the inspection result normal?	F
YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts.	
3. CONFIRM THE OPERATION	G
Confirm the operation again.	ш
Is the inspection result normal? YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".	Н
NO >> GO TO 1. RH	ı
RH : Diagnosis Procedure	2
1. CHECK PRIMARY POSITION LIMIT SWITCH (RH)	SE
Check primary position limit switch (RH).	-
Refer to SE-29, "LH: Component Function Check".	K
Is the inspection result normal? YES >> GO TO 2.	
NO >> Repair or replace the malfunctioning parts.	L
2.CHECK MOTOR SENSOR (RH) Check motor sensor (RH).	-
Refer to SE-39, "RH: Component Function Check".	M
Is the inspection result normal? YES >> GO TO 3.	
NO >> Repair or replace the malfunctioning parts.	Ν
3.CONFIRM THE OPERATION	_
Confirm the operation again. <u>Is the inspection result normal?</u>	0
YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".	Б
NO >> GO TO 1.	Р

ANTI-PINCH FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

ANTI-PINCH FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000006344803

1. CHECK MOTOR SENSOR (LH)

Check motor sensor (LH).

Refer to SE-37, "LH: Component Function Check".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CHECK MOTOR SENSOR (RH)

Check motor sensor (RH).

Refer to SE-39, "RH: Component Function Check".

Is the inspection result normal?

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

NO >> Repair or replace the malfunctioning parts.

HEATED SEAT DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >		
HEATED SEAT DOES NOT OPERATE	Α	\
BOTH SIDES	_	\
BOTH SIDES : Diagnosis Procedure	INFOID:0000000006344804	2
1. CHECK HEATED SEAT SWITCH POWER SUPPLY	L	,
Check heated seat switch power supply. Refer to SE-18, "HEATED SEAT SWITCH: Diagnosis Procedure".	C)
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.	Е	Ξ
Refer to <u>SE-51, "Component Function Check"</u> . Is the inspection result normal?		
YES >> GO TO 3.	F	-
NO >> Repair or replace the malfunctioning parts.		
3.CHECK HEATED SEAT CONTROL UNIT POWER SUPPLY AND GROUND CIRCUIT		-
Check heated seat switch power supply and ground circuit. Refer to SE-16, "HEATED SEAT CONTROL UNIT: Diagnosis Procedure".		,
Is the inspection result normal?	H	-
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".	SE	Ē
NO >> GO TO 1. DRIVER SIDE		
DITIVEIT OIDE		
DDIVED SIDE : Diagnosis Procedure	K	
DRIVER SIDE : Diagnosis Procedure	INFOID:000000006344805	
1. CHECK HEATED SEAT SWITCH POWER SUPPLY		
1. CHECK HEATED SEAT SWITCH POWER SUPPLY Check heated seat switch power supply.		-
1. CHECK HEATED SEAT SWITCH POWER SUPPLY		_
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.	INFOID:0000000006344805	_
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.	INFOID:0000000006344805	//
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	INFOID:0000000006344805	//
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.	INFOID:0000000006344805	- //
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?	INFOID:0000000006344805	- //
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.	INFOID:0000000006344805	- //
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.	INFOID:0000000006344805	- Л
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.	INFOID:0000000006344805	- Л
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".	INFOID:0000000006344805	- Л
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?	INFOID:0000000006344805	- Л
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".	INFOID:0000000006344805	- Л

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HEATED SEAT DOES NOT OPERATE

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4. CHECK SEAT CUSHION HEATER

Check seat cushion heater.

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

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

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

NO >> GO TO 1.

PASSENGER SIDE

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000006344806

1. CHECK HEATED SEAT SWITCH POWER SUPPLY

Check heated seat switch power supply.

Refer to SE-18, "HEATED SEAT SWITCH: Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

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

Check heated seat switch power supply and ground circuit.

Refer to SE-16, "HEATED SEAT CONTROL UNIT: Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK HEATED SEAT SWITCH

Check heated seat switch.

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

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4. CHECK SEAT CUSHION HEATER

Check seat cushion heater.

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

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5. CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

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

NO >> GO TO 1.

SEATBACK HEATER ONLY DOES NOT OPERATE

< SYMPTOM DIAGNOSIS > SEATBACK HEATER ONLY DOES NOT OPERATE Α DRIVER SIDE DRIVER SIDE: Diagnosis Procedure INFOID:0000000006344807 В 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. D NO >> Repair or replace the malfunctioning parts. 2.CONFIRM THE OPERATION Confirm the operation again. Е Is the inspection result normal? YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident". F >> GO TO 1. PASSENGER SIDE PASSENGER SIDE: Diagnosis Procedure INFOID:0000000006344808 1. CHECK SEATBACK HEATER Н 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 SE Confirm the operation again. Is the inspection result normal? YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident". K NO >> GO TO 1. L M Ν

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CANNOT ADJUST HEATED SEAT TEMPERATURE

< SYMPTOM DIAGNOSIS >

CANNOT ADJUST HEATED SEAT TEMPERATURE

DRIVER SIDE

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000006344809

1. CHECK HEATED SEAT SWITCH

Check heated seat switch.

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

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CHECK HEAT SENSOR

Check heat sensor.

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

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

NO >> Replace heated seat control unit. Refer to <u>SE-149</u>, "Removal and Installation".

PASSENGER SIDE

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000006344810

1. CHECK HEATED SEAT SWITCH

Check heated seat switch.

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

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK HEAT SENSOR

Check heat sensor.

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

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

NO >> Replace heated seat control unit. Refer to <u>SE-149</u>, "Removal and Installation".

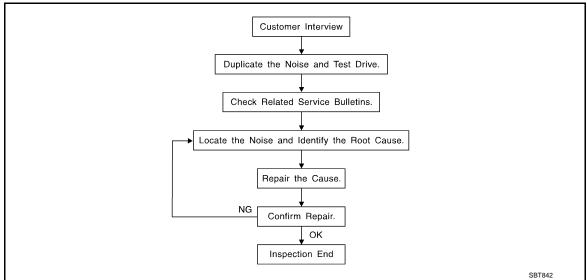
HEATED SEAT SWITCH INDICATOR DOES NOT TURN ON

< SYMPTOM DIAGNOSIS >

HEATED SEAT SWITCH INDICATOR DOES NOT TURN ON DRIVER SIDE	
DRIVER SIDE : Diagnosis Procedure	INFOID:0000000006344811
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:0000000006344812
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.	

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Work Flow



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-124, "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
 - 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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If the noise can be duplicated	easily during the test d	rive, to help identify the	source of the noise, try	y to dupli-
cate the noise with the vehicle	stopped by doing one of	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-122, "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: 100×135 mm $(3.94 \times 5.31 \text{ in})/76884-71L01$: 60×85 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, 50×50 mm (1.97 \times 1.97 in)/73982-

50Y00: 10 mm (0.39 in) thick, 50×50 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: 15×25 mm (0.59 \times 0.98 in) pad/68239-13E00: 5 mm (0.20 in) wide tape roll

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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

Used in place of UHMW tape that will be visible or not fit. Will only last a few months.

SILICONE SPRAY

Use when grease cannot be applied.

DUCT TAPE

Use to eliminate movement.

CONFIRM THE REPAIR

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

Inspection Procedure

INFOID:0000000006344814

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

INSTRUMENT PANEL

Most incidents are caused by contact and movement between:

- 1. The cluster lid A and instrument panel
- 2. Acrylic lens and combination meter housing
- 3. Instrument panel to front pillar garnish
- 4. Instrument panel to windshield
- 5. Instrument panel mounting pins
- 6. Wiring harnesses behind the combination meter
- 7. A/C defroster duct and duct joint

These incidents can usually be located by tapping or moving the components to duplicate the noise or by pressing on the components while driving to stop the noise. Most of these incidents can be repaired by applying felt cloth tape or silicon spray (in hard to reach areas). Urethane pads can be used to insulate wiring harness.

CAUTION:

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

CENTER CONSOLE

Components to pay attention to include:

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

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

DOORS

Pay attention to the:

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

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

TRUNK

Trunk noises are often caused by a loose jack or loose items put into the trunk by the owner.

In addition look for:

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

< 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
- 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 1.
- 2. Components that pass through the engine wall
- Engine wall mounts and connectors
- Loose radiator mounting pins
- Hood bumpers out of adjustment
- 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.

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< SYMPTOM DIAGNOSIS >

Diagnostic Worksheet

INFOID:0000000006344815

2011 EX



Revision: 2011 October

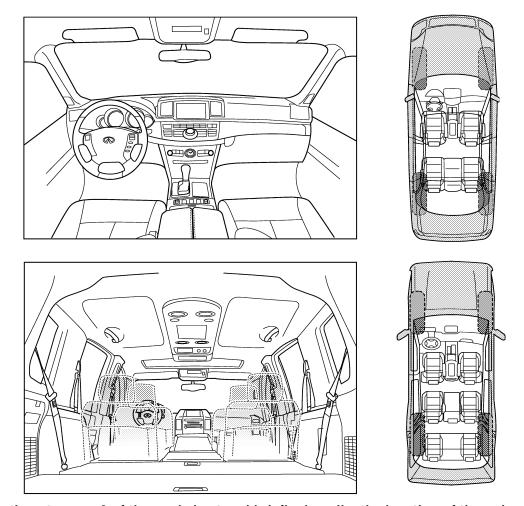
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

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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II. WHEN DOES IT OCCUR? (pleas	se check the boxes that apply)
anytime	after sitting out in the rain
1st time in the morning	when it is raining or wet
only when it is cold outside	dry or dusty conditions
only when it is hot outside	other:
III. WHEN DRIVING:	IV. WHAT TYPE OF NOISE
through driveways	squeak (like tennis shoes on a clean floor)
over rough roads	creak (like walking on an old wooden floor)
over speed bumps	rattle (like shaking a baby rattle)
☐ only about mph ☐ on acceleration	knock (like a knock at the door)
on acceleration coming to a stop	☐ tick (like a clock second hand)☐ thump (heavy, muffled knock noise)
on turns: left, right or either (circle	
☐ with passengers or cargo	
other: miles or	 _ minutes
other: miles or	
other: after driving miles or TO BE COMPLETED BY DEALERS	
other: miles or TO BE COMPLETED BY DEALERS	
other: miles or TO BE COMPLETED BY DEALERS	
other: miles or TO BE COMPLETED BY DEALERS	SHIP PERSONNEL
☐ other: ☐ after driving miles or TO BE COMPLETED BY DEALERS	
□ other: □ after driving □ miles or □ TO BE COMPLETED BY DEALERS Test Drive Notes:	SHIP PERSONNEL YES NO Initials of person
□ other: □ after driving □ miles or □ TO BE COMPLETED BY DEALERS Test Drive Notes:	SHIP PERSONNEL YES NO Initials of person
other: after driving miles or TO BE COMPLETED BY DEALERS Test Drive Notes: Vehicle test driven with customer	YES NO Initials of person performing
other: after driving miles or TO BE COMPLETED BY DEALERS Test Drive Notes: Vehicle test driven with customer - Noise verified on test drive	YES NO Initials of person performing
other: after driving miles or TO BE COMPLETED BY DEALERS Test Drive Notes: Vehicle test driven with customer - Noise verified on test drive - Noise source located and repaired	YES NO Initials of person performing U U U U U U U U U U U U U U U U U U U

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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

INFOID:0000000006344817

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.)
- Disconnect both battery cables. The steering lock will remain released with both battery cables disconnected and the steering wheel can be turned.

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 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.

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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:0000000006344821

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

CLIP LIST

Clip List INFOID:0000000006889730

Shapes	Removal & Installation	Shapes	Removal & Installation
	Removal: Remove by bending up with flat-bladed screwdrivers or clip remover.	Clip A	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. Clip Finisher		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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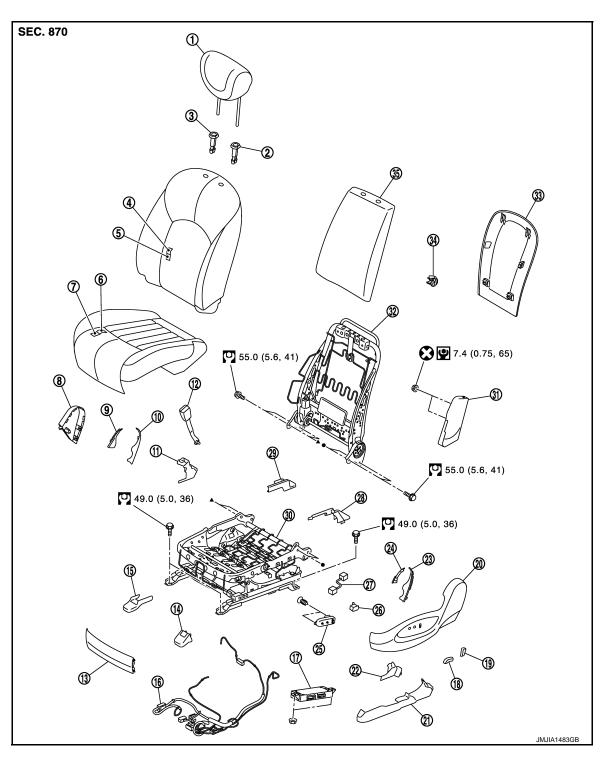
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REMOVAL AND INSTALLATION

FRONT SEAT

Exploded View

DRIVER'S SEAT



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

< REMOVAL AND INSTALLATION >

nion front finisher ness ning switch knob nion outer lower finisher (in-	17.	Front outer slide cover Driver seat control unit Seat cushion outer finisher outside	18.	Front inner slide cover Seat slide & lifter switch knob Seat cushion outer lower finisher
ning switch knob			_	
G	20.	Seat cushion outer finisher outside	21.	Seat cushion outer lower finisher
nion outer lower finisher (in-				(outside)
morroater lewer millerier (m	23.	Seat cushion outer finisher inside (rear)	24.	Seat cushion outer finisher inside (front)
trol switch	26.	Lumbar support switch	27.	Seat control harness
er slide cover	29.	Rear inner slide cover	30.	Seat cushion frame
ag module	32.	Seatback frame	33.	Seatback board
board clip	35.	Seatback silencer		
	trol switch er slide cover pag module board clip "Components" for symbols i	er slide cover 29. ag module 32. a board clip 35.	trol switch 26. Lumbar support switch er slide cover 29. Rear inner slide cover ag module 32. Seatback frame	trol switch 26. Lumbar support switch 27. er slide cover 29. Rear inner slide cover 30. ag module 32. Seatback frame 33. board clip 35. Seatback silencer

PASSENGER'S SEAT

CAUTION:

Never disassembly the component parts of only front passenger seat in the dotted lines shown in the figure below. (With occupant classification system control unit model)

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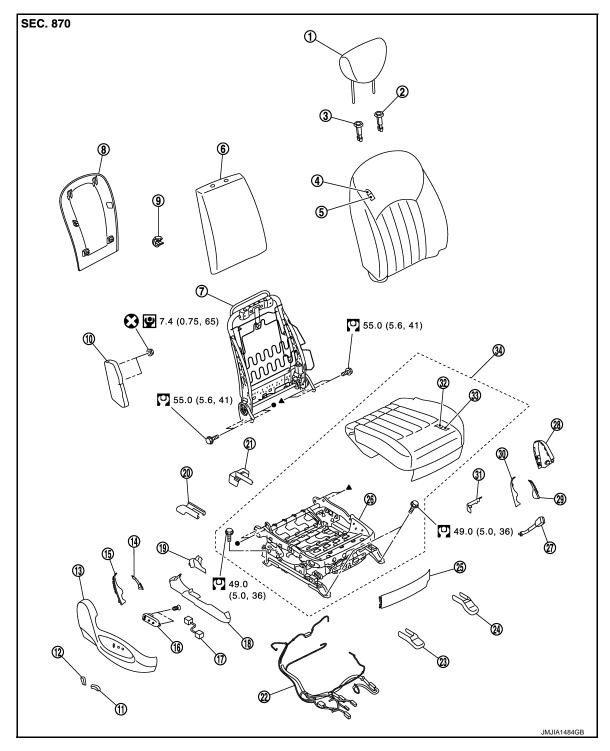
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- Headrest
- Seatback trim
- 7. Seatback frame
- 10. Side air bag module
- Seat cushion outer finisher outside
- 16. Seat control switch
- 19. Seat cushion outer lower finisher (in- 20. Rear outer slide cover side)
- 22. Seat harness

- Headrest holder (locked) 2.
- 5. Seatback pad
- 8. Seatback board
- Seat slide & lifter switch knob
- 14. Seat cushion outer finisher inside (front)
- 17. Seat control harness
- 23. Front outer slide cover

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

< REMOVAL AND INSTALLATION >

- 25. Seat cushion front finisher
- 26. Seat cushion frame

32. Seat cushion trim

- 28. Seat cushion inner finisher outside 29. Seat cushion inner finisher inside (front)
- 30. Seat cushion inner finisher inside (rear)
- 33. Seat cushion pad

27. Seat belt buckle

31. Seat cushion inner finisher lower

34. Seat cushion assembly

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

Removal and Installation

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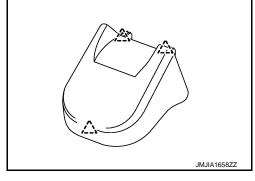
REMOVAL

CAUTION:

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

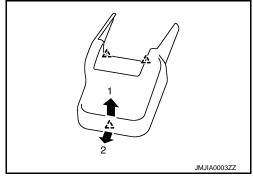
- Remove the headrest.
- 2. Remove the front slide cover.
- a. Front outer slide cover
 - Slide the seat to the rear-most position.
 - Pull up the front edge of the front slide cover to release the pawls.
 - Slide the front slide cover forward to release the pawls.





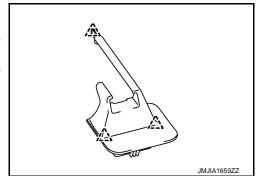
- b. Front inner slide cover
 - Slide the seat to the rear-most position.
 - Pull up the front edge of the front slide cover to release the
 - Slide the front slide cover forward to release the pawls.





- 3. Remove the mounting bolts on the front side of the front seat.
- 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.





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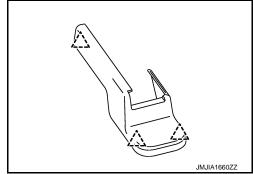
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< REMOVAL AND INSTALLATION >

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





- 5. Remove the mounting bolts on the rear side of the front seat.
- Set seatback in a standing position.
- 7. Disconnect harness connector under the seat and remove harness securing clips.

CAUTION:

Before removal, turn ignition switch OFF, disconnect battery negative terminal, and then wait for at least 3 minutes.

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 <u>ADP-8, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL: Description"</u>.

Disassembly and Assembly

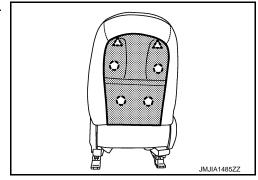
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SEATBACK

Disassembly

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

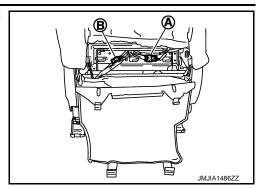
(_) : Clip
_^ : Pawl



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

< REMOVAL AND INSTALLATION >

• Disconnect the reclining motor harness connector (A) and lumbar support harness connector (Driver's seat only) (B).



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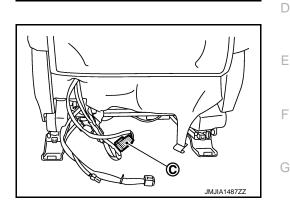
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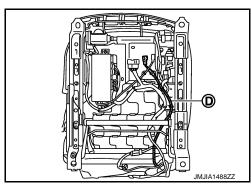
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• Disconnect the seatback heater harness (C).

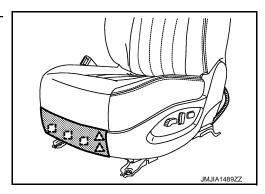


• Remove the harness clamps, and then side air bag module harness (D).



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





Remove the seat cushion outer finisher.

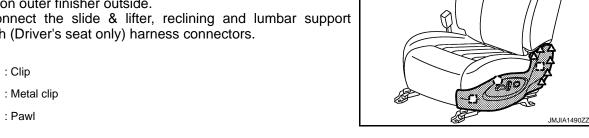
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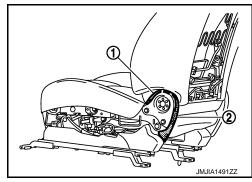
< REMOVAL AND INSTALLATION >

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



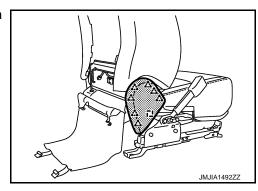


Remove the seat cushion outer finisher inside front (1) and rear

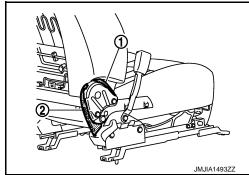


Remove the metal clip and pawls, and then pull out seat cushion inner finisher outside.





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



9. Remove the seatback trim and seatback pad.

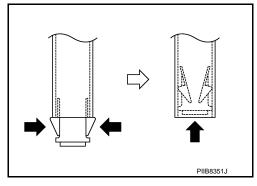
< REMOVAL AND INSTALLATION >

· Remove the headrest holder.

CAUTION:

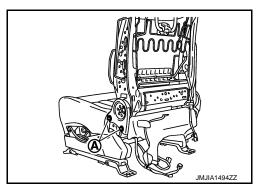
Before installing headrest holder check its orientation. (front/rear and right/left)

- Remove the 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.



- 10. Remove the seatback silencer.
- 11. 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:

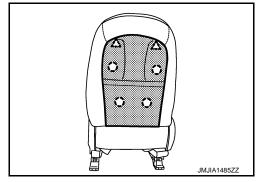
Never disassemble front passenger seat cushion assembly.

Always replace as an assembly.

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

- 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.





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

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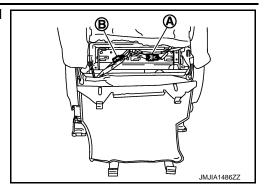
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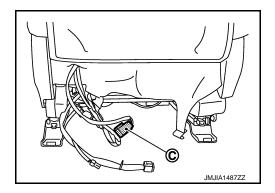
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< REMOVAL AND INSTALLATION >

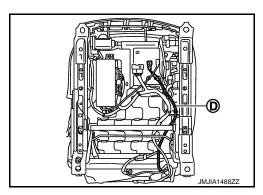
• Disconnect the reclining motor harness connector (A) and lumbar support harness connector (B) (Driver's seat only).



• Disconnect the seatback heater harness connector (C).

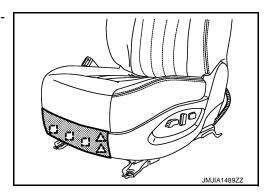


• Remove the side air bag module harness (D).



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





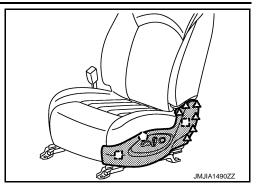
5. Remove the seat cushion outer finisher.

< REMOVAL AND INSTALLATION >

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



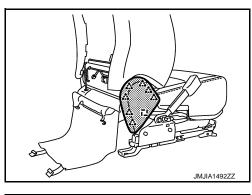
6. Remove the seat cushion outer finisher inside front (1) and rear (2).



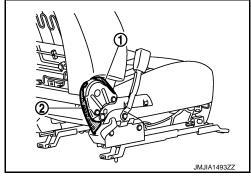
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7. Remove the metal clip and pawls, and then pull out seat cushion inner finisher outside.

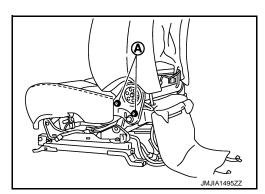




8. Remove the seat cushion inner finisher inside front (1) and rear (2).



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



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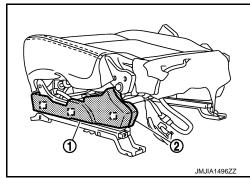
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< REMOVAL AND INSTALLATION >

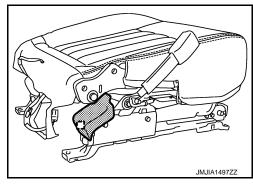
10. Remove the metal clips, and then pull out seat cushion outer lower finisher outside (1) and inside (2).

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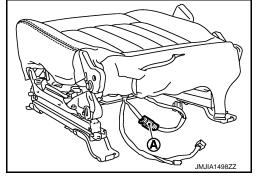


11. Remove the seat cushion inner lower finisher.

: Metal clip



- 12. Remove the seat cushion trim and seat cushion pad. (Without occupant classification system control unit model)
 - Disconnect the seat cushion heater unit harness connector (A).
 - Remove the seat cushion trim retainer.
 - Remove the hog rings, and separate the seat cushion trim and seat cushion pad.



- 13. Remove the seat belt buckle. SB-8, "SEAT BELT BUCKLE: Exploded View"
- 14. Remove the driver seat control unit. (Driver's power seat only) ADP-216, "Exploded View"

Assembly

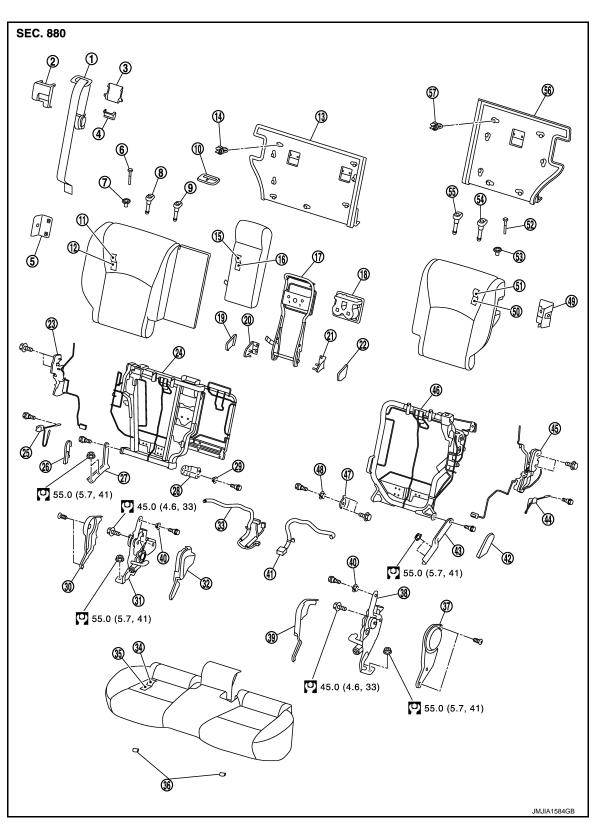
Assemble in the reverse order of disassembly.

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

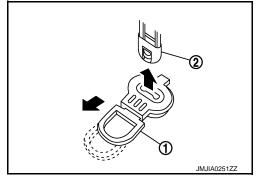
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REMOVAL

CAUTION:

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

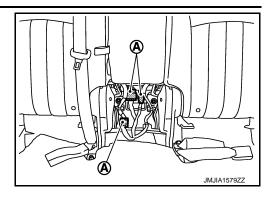
- 1. Remove the seat cushion.
 - Pull the lock lever (1) at the front bottom of the seat cushion forward (1 for each side), and pull the seat cushion upward to release the wire (2) from the seat cushion hook. Then pull the seat cushion forward the remove
 - · Remove the seat cushion from vehicle.



- 2. Remove the seatback.
 - Remove the luggage floor finisher front LH and RH. Refer to INT-37, "Exploded View".
 - Disconnect the rear seat harness connectors.
 - With power return seat model LH seatback

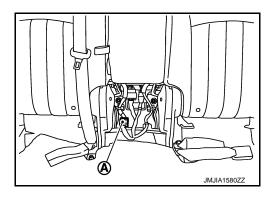
< REMOVAL AND INSTALLATION >

Disconnect the rear seat harness connectors (A).

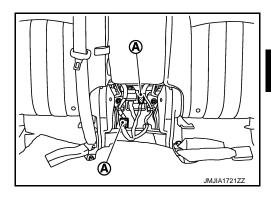


RH seatback

Disconnect the rear seat harness connector (A).

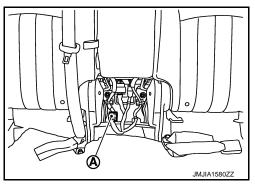


 Without power return seat model LH seatback
 Disconnect the rear seat harness connectors (A).



RH seatback

Disconnect the rear seat harness connector (A).



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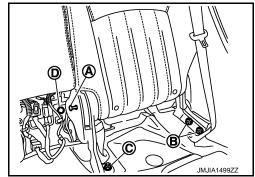
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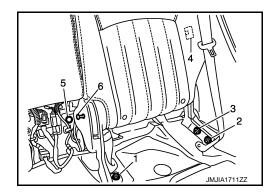
< REMOVAL AND INSTALLATION >

- 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.

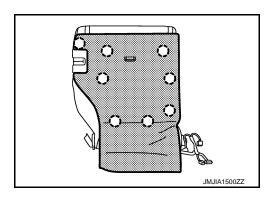
Disassembly and Assembly

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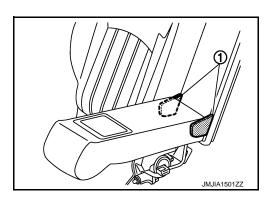
SEATBACK

Disassembly

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

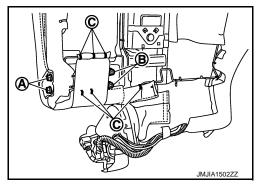


- 2. Remove the armrest.
 - Remove the armrest hinge covers (1).



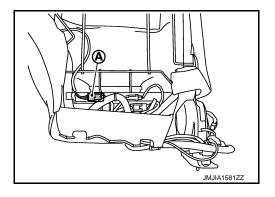
< REMOVAL AND INSTALLATION >

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



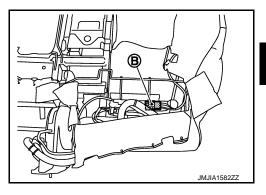
- 3. Remove the seatback device assembly.
 - Remove the seatback trim fixing hog rings.
 - Disconnect the seatback lock harness connector.
 LH seatback

Disconnect the seatback lock harness connector (A).

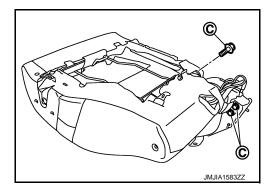


RH seatback

Disconnect the seatback lock harness connector (B).



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



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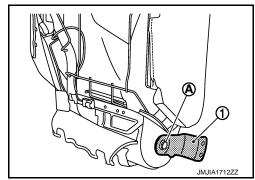
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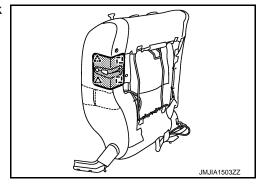
< REMOVAL AND INSTALLATION >

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

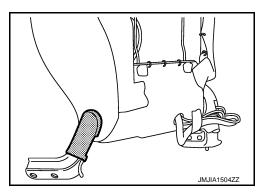


- 5. Remove the seatback trim and pad.
 - Remove the metal clips and pawls, and then pull out seatback lock cover.

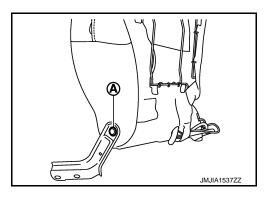




• Remove the seatback hinge outer cover.



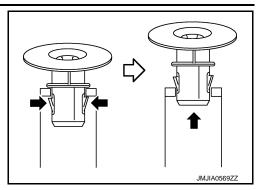
Remove the seatback hinge.
 Remove the seatback hinge mounting bolt (A).



• Turn seatback lock knob counterclockwise to remove.

< REMOVAL AND INSTALLATION >

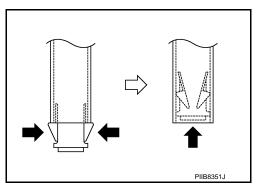
 Push the seatback lock knob finisher pawl upward though the seatback pad and the seatback frame to remove it.



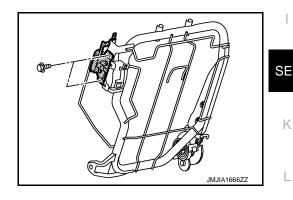
Remove the headrest holder.

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.

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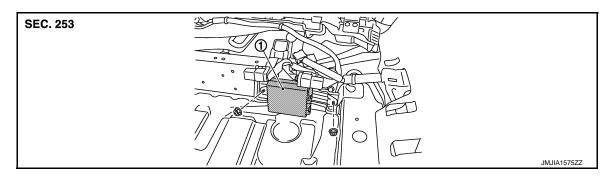
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REAR SEAT BACK POWER RETURN CONTROL UNIT

< REMOVAL AND INSTALLATION >

REAR SEAT BACK POWER RETURN CONTROL UNIT

Exploded View



1. Rear seatback power return control unit

Removal and Installation

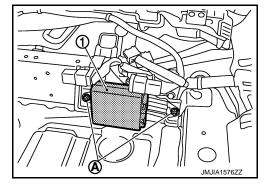
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REMOVAL

CAUTION:

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

- 1. Remove the luggage floor finisher assembly (front). Refer to INT-38, "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 Α **Exploded View** INFOID:0000000006344830 Refer to SE-130, "Exploded View". В Removal and Installation INFOID:0000000006344831 **REMOVAL CAUTION:** When removing and installing, use shop cloths to protect parts from damage. D 1. Remove the front seat. 2. Disconnect heated seat control unit connector. Remove the heated seat control unit from the heated seat control unit stay. Refer to <u>SE-130, "Exploded</u> Е View". **INSTALLATION** F Install in the reverse order of removal. **CAUTION:** Always clamp the harness to the right place. Н SE K L M

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POWER SEAT SWITCH

< REMOVAL AND INSTALLATION >

POWER SEAT SWITCH

Exploded View

Refer to SE-130, "Exploded View".

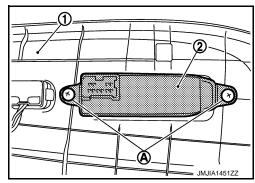
Removal and Installation

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-133</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-130, "Exploded View".

Removal and Installation

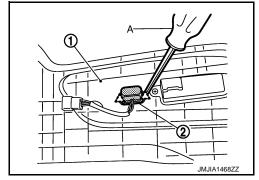
REMOVAL

CAUTION:

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

- 1. Remove the seat cushion outer finisher (1). Refer to SE-133, "Removal and Installation".
- 2. Remove the lumbar support switch (2) from the seat cushion outer finisher. With flat bladed screw driver (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:

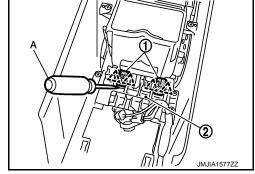
When removing and installing, use shop cloths to protect from damage.

- 1. Remove the console body assembly. Refer to IP-23, "Removal and Installation"
- 2. Remove heated seat switch (1) from switch bracket with flat bladed screw driver (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

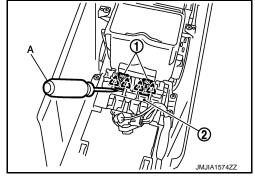
REMOVAL

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 flat bladed screw driver (A).





INSTALLATION

Install in the reverse order of removal.

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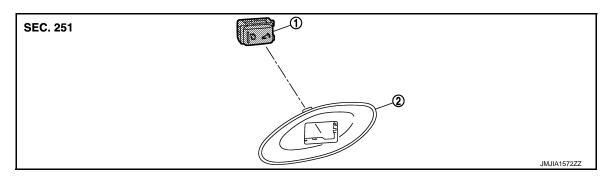
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REAR SEATBACK SWITCH

Exploded View



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

Removal and Installation

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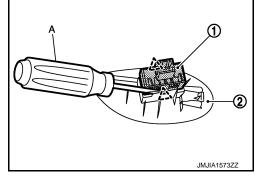
REMOVAL

CAUTION:

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

- 1. Remove the luggage side finisher lower escutcheon. Refer to INT-38, "Removal and Installation".
- 2. Remove rear power return switch (1) from luggage side finisher lower escutcheon. With flat bladed screw driver (A).





INSTALLATION

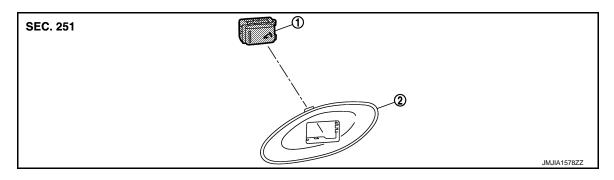
Install in the reverse order of removal.

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

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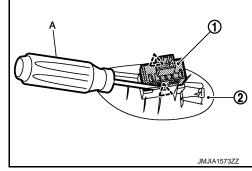
REMOVAL

CAUTION:

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

- 1. Remove the luggage side finisher lower escutcheon.Refer to INT-38, "Removal and Installation".
- 2. Remove rear power return switch (1) from luggage side finisher lower escutcheon. With flat bladed screw driver (A).





INSTALLATION

Install in the reverse order of removal.

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