

D

Е

# **CONTENTS**

BASIC INSPECTION5
DIAGNOSIS AND REPAIR WORK FLOW 5 WorkFlow
SYSTEM DESCRIPTION6
POWER SEAT6System Description6Component Parts Location6Component Description7
HEATED SEAT8System Diagram8System Description8Component Parts Location9Component Description9
LUMBAR SUPPORT10System Description10Component Parts Location10Component Description10
REAR SEATBACK RELEASE CONTROL11 System Description
REAR SEATBACK POWER RETURN SYS-           TEM         12           System Diagram         12           System Description         12           Component Parts Location         15           Component Description         15
DTC/CIRCUIT DIAGNOSIS16
POWER SUPPLY AND GROUND CIRCUIT16
REAR SEATBACK POWER RETURN CONTROL UNIT16 REAR SEATBACK POWER RETURN CONTROL UNIT : Diagnosis Procedure16

HEATED SEAT CONTROL UNIT16 HEATED SEAT CONTROL UNIT : Diagnosis Procedure	F
HEATED SEAT SWITCH18 HEATED SEAT SWITCH : Diagnosis Procedure18	(
POWER RETURN SWITCH21	ŀ
LH       21         LH : Description       21         LH : Component Function Check       21         LH : Diagnosis Procedure       21         LH : Component Inspection       22	SI
<b>RH</b>	31
RH : Component Function Check	ŀ
REAR SEATBACK SWITCH25	L
LH       25         LH : Description       25         LH : Component Function Check       25         LH : Diagnosis Procedure       25         LH : Component Inspection       26	N
RH26	1
RH: Description	(
PRIMARY POSITION LIMIT SWITCH29	F
LH : Description       29         LH : Component Function Check       29         LH : Diagnosis Procedure       29         LH : Component Inspection       30	

RH	30	HEATED SEAT RELAY	51
RH : Description	30	Description	
RH : Component Function Check		Component Function Check	
RH : Diagnosis Procedure	31	Diagnosis Procedure	
RH : Component Inspection	32	Component Inspection	
RETURN COMPLETE LIMIT SWITCH	33	HEAT SENSOR	53
LH		DRIVER SIDE	
LH : Description		DRIVER SIDE : Description	
LH : Component Function Check		DRIVER SIDE : Component Function Check	53
LH : Diagnosis Procedure		DRIVER SIDE : Diagnosis Procedure	
LH : Component Inspection	34	DRIVER SIDE : Component Inspection	54
RH		PASSENGER SIDE	
RH : Description		PASSENGER SIDE : Description	
RH : Component Function Check		PASSENGER SIDE: Component Function Check	K
RH : Diagnosis Procedure			55
RH : Component Inspection	36	PASSENGER SIDE : Component Inspection	
MOTOR SENSOR	37	PASSENGER SIDE : Component Inspection	
LH	37	SEAT CUSHION HEATER	58
LH: Description	37	DRIVER SIDE	58
LH : Component Function Check		DRIVER SIDE : Description	
LH : Diagnosis Procedure		DRIVER SIDE : Component Function Check	
•		DRIVER SIDE : Diagnosis Procedure	
RH		DRIVER SIDE : Component Inspection	
RH : Description	39	·	
RH : Component Function Check		PASSENGER SIDE	
RH : Diagnosis Procedure	39	PASSENGER SIDE : Description	59
POWER RETURN MOTOR	42	PASSENGER SIDE :	
FOWER RETORN WICTOR	42	Component Function Check	
LH	42	PASSENGER SIDE : Diagnosis Procedure	
LH: Description		PASSENGER SIDE : Component Inspection	61
LH : Component Function Check		SEATBACK HEATER	00
LH : Diagnosis Procedure		SEATBACK REATER	62
•		DRIVER SIDE	62
RH		DRIVER SIDE : Description	
RH : Description		DRIVER SIDE : Component Function Check	
RH: Component Function Check		DRIVER SIDE : Diagnosis Procedure	
RH : Diagnosis Procedure	43	· ·	
VEHICLE SPEED SIGNAL CIRCUIT	45	PASSENGER SIDE	
Description		PASSENGER SIDE : Description	62
Component Function Check		PASSENGER SIDE :	
Diagnosis Procedure		Component Function Check	
		PASSENGER SIDE : Diagnosis Procedure	62
HEATED SEAT SWITCH	47	HEATED SEAT SWITCH INDICATOR	64
DRIVER SIDE		DRIVER SIDE	64
DRIVER SIDE : Description		DRIVER SIDE : Description	
DRIVER SIDE : Component Function Check		DRIVER SIDE : Component Function Check	64
DRIVER SIDE : Diagnosis Procedure		DRIVER SIDE : Diagnosis Procedure	
DRIVER SIDE : Component Inspection	48	DRIVER SIDE : Component Inspection	
PASSENGER SIDE		PASSENGER SIDE	65
PASSENGER SIDE : Description	48	PASSENGER SIDE : Description	
PASSENGER SIDE :		PASSENGER SIDE :	
Component Function Check		Component Function Check	
PASSENGER SIDE : Diagnosis Procedure		PASSENGER SIDE : Diagnosis Procedure	
PASSENGER SIDE · Component Inspection	49		

PASSENGER SIDE : Component Inspection65	ANTI-PINCH FUNCTION DOES NOT OPER-
POWER SEAT67	ATE         113           Diagnosis Procedure         113
Wiring Diagram - POWER SEAT FOR DRIVER	•
SIDE (WITHOUT AUTOMATIC DRIVE POSI- TIONER)67	HEATED SEAT DOES NOT OPERATE 114
Wiring Diagram - POWER SEAT FOR PASSEN-	BOTH SIDES114
GER SIDE72	BOTH SIDES : Diagnosis Procedure114
LUMBAR SUPPORT77	DRIVER SIDE114
Wiring Diagram - LUMBAR SUPPORT SYSTEM 77	DRIVER SIDE : Diagnosis Procedure114
REAR SEATBACK RELEASE CONTROL81	PASSENGER SIDE115
Wiring Diagram - REAR SEATBACK RELEASE	PASSENGER SIDE : Diagnosis Procedure115
CONTROL81	SEATBACK HEATER ONLY DOES NOT OP-
ECU DIAGNOSIS INFORMATION86	ERATE 116
	DRIVER SIDE116
REAR SEAT BACK POWER RETURN CON-	DRIVER SIDE : Diagnosis Procedure116
TROL UNIT	-
Wiring Diagram - REAR SEATBACK POWER RE-	PASSENGER SIDE116 PASSENGER SIDE : Diagnosis Procedure116
TURN SYSTEM89	·
Fail-safe96	CANNOT ADJUST HEATED SEAT TEMPER-
HEATED SEAT CONTROL UNIT98	ATURE117
Reference Value98	DRIVER SIDE117
Wiring Diagram - HEATED SEAT SYSTEM99	DRIVER SIDE : Diagnosis Procedure117
SYMPTOM DIAGNOSIS107	PASSENGER SIDE117
REAR SEATBACK POWER RETURN SYS-	PASSENGER SIDE : Diagnosis Procedure117
	HEATED SEAT SWITCH INDICATOR DOES
TENIDOES NOT OPERATE107	
TEM DOES NOT OPERATE107	NOT TURN ON118
BOTH SIDES107	NOT TURN ON118
BOTH SIDES	NOT TURN ON
BOTH SIDES         107           BOTH SIDES : Diagnosis Procedure         107           LH         107	NOT TURN ON
BOTH SIDES	NOT TURN ON
BOTH SIDES       107         BOTH SIDES : Diagnosis Procedure       107         LH       107         LH : Diagnosis Procedure       107         RH       108	NOT TURN ON
BOTH SIDES         107           BOTH SIDES : Diagnosis Procedure         107           LH         107           LH : Diagnosis Procedure         107	NOT TURN ON
BOTH SIDES         107           BOTH SIDES : Diagnosis Procedure         107           LH         107           LH : Diagnosis Procedure         107           RH         108           RH : Diagnosis Procedure         108           MALFUNCTION DETECTION BUZZER	NOT TURN ON
BOTH SIDES	NOT TURN ON       118         DRIVER SIDE       118         DRIVER SIDE : Diagnosis Procedure       118         PASSENGER SIDE       118         PASSENGER SIDE : Diagnosis Procedure       118         SQUEAK AND RATTLE TROUBLE DIAGNOSES       119         Work Flow       119         Inspection Procedure       121
BOTH SIDES         107           BOTH SIDES : Diagnosis Procedure         107           LH         107           LH : Diagnosis Procedure         107           RH         108           RH : Diagnosis Procedure         108           MALFUNCTION DETECTION BUZZER	NOT TURN ON
BOTH SIDES       107         BOTH SIDES : Diagnosis Procedure       107         LH       107         LH : Diagnosis Procedure       107         RH       108         RH : Diagnosis Procedure       108         MALFUNCTION DETECTION BUZZER       110         LH       110	NOT TURN ON       118         DRIVER SIDE       118         DRIVER SIDE : Diagnosis Procedure       118         PASSENGER SIDE       118         PASSENGER SIDE : Diagnosis Procedure       118         SQUEAK AND RATTLE TROUBLE DIAGNOSES       119         Work Flow       119         Inspection Procedure       121
BOTH SIDES       107         BOTH SIDES : Diagnosis Procedure       107         LH       107         LH : Diagnosis Procedure       107         RH       108         RH : Diagnosis Procedure       108         MALFUNCTION DETECTION BUZZER         SOUNDS DURING POWER RETURN MOTOR INVERSE ROTATION       110	NOT TURN ON       118         DRIVER SIDE       118         DRIVER SIDE : Diagnosis Procedure       118         PASSENGER SIDE       118         PASSENGER SIDE : Diagnosis Procedure       118         SQUEAK AND RATTLE TROUBLE DIAGNOSES       119         Work Flow       119         Inspection Procedure       121         Diagnostic Worksheet       123         PRECAUTION       125
BOTH SIDES       107         BOTH SIDES : Diagnosis Procedure       107         LH       107         LH : Diagnosis Procedure       107         RH       108         RH : Diagnosis Procedure       108         MALFUNCTION DETECTION BUZZER       108         MALFUNCTION DETECTION BUZZER       50UNDS DURING POWER RETURN MOTOR INVERSE ROTATION       110         LH       110         LH : Diagnosis Procedure       110	NOT TURN ON       118         DRIVER SIDE       118         DRIVER SIDE : Diagnosis Procedure       118         PASSENGER SIDE       118         PASSENGER SIDE : Diagnosis Procedure       118         SQUEAK AND RATTLE TROUBLE DIAG-NOSES       119         Work Flow       119         Inspection Procedure       121         Diagnostic Worksheet       123         PRECAUTION       125
BOTH SIDES       107         BOTH SIDES : Diagnosis Procedure       107         LH       107         LH : Diagnosis Procedure       107         RH       108         RH : Diagnosis Procedure       108         MALFUNCTION DETECTION BUZZER       110         LH       110	NOT TURN ON         118           DRIVER SIDE         118           DRIVER SIDE : Diagnosis Procedure         118           PASSENGER SIDE : Diagnosis Procedure         118           PASSENGER SIDE : Diagnosis Procedure         118           SQUEAK AND RATTLE TROUBLE DIAGNOSES         119           Work Flow         119           Inspection Procedure         121           Diagnostic Worksheet         123           PRECAUTION         125           Precaution for Supplemental Restraint System
BOTH SIDES       107         BOTH SIDES : Diagnosis Procedure       107         LH       107         LH : Diagnosis Procedure       107         RH       108         RH : Diagnosis Procedure       108         MALFUNCTION DETECTION BUZZER       108         MALFUNCTION DETECTION BUZZER       SOUNDS DURING POWER RETURN MO-TOR INVERSE ROTATION       110         LH       110         LH : Diagnosis Procedure       110         RH       110         RH : Diagnosis Procedure       110	NOT TURN ON
BOTH SIDES       107         BOTH SIDES : Diagnosis Procedure       107         LH       107         LH : Diagnosis Procedure       107         RH       108         RH : Diagnosis Procedure       108         MALFUNCTION DETECTION BUZZER       108         MALFUNCTION DETECTION BUZZER       SOUNDS DURING POWER RETURN MO-TOR INVERSE ROTATION       110         LH       110         LH : Diagnosis Procedure       110         RH       110         RH       110	NOT TURN ON
BOTH SIDES       107         BOTH SIDES : Diagnosis Procedure       107         LH       107         LH : Diagnosis Procedure       107         RH       108         RH : Diagnosis Procedure       108         MALFUNCTION DETECTION BUZZER       108         MALFUNCTION DETECTION BUZZER       100         TOR INVERSE ROTATION       110         LH       110         LH : Diagnosis Procedure       110         RH       110         RH : Diagnosis Procedure       110         DOES NOT RETURN BUT MALFUNCTION DETECTION BUZZER SOUNDS       112	NOT TURN ON
BOTH SIDES       107         BOTH SIDES: Diagnosis Procedure       107         LH       107         LH: Diagnosis Procedure       107         RH       108         RH: Diagnosis Procedure       108         MALFUNCTION DETECTION BUZZER       108         MALFUNCTION DETECTION BUZZER       100         TOR INVERSE ROTATION       110         LH       110         LH: Diagnosis Procedure       110         RH       110         RH: Diagnosis Procedure       110         DOES NOT RETURN BUT MALFUNCTION       112         LH       112	NOT TURN ON
BOTH SIDES       107         BOTH SIDES : Diagnosis Procedure       107         LH       107         LH : Diagnosis Procedure       107         RH       108         RH : Diagnosis Procedure       108         MALFUNCTION DETECTION BUZZER       SOUNDS DURING POWER RETURN MOTOR INVERSE ROTATION         TOR INVERSE ROTATION       110         LH       110         RH : Diagnosis Procedure       110         RH : Diagnosis Procedure       110         DOES NOT RETURN BUT MALFUNCTION DETECTION BUZZER SOUNDS       112         LH       112         LH : Diagnosis Procedure       112	NOT TURN ON
BOTH SIDES       107         BOTH SIDES : Diagnosis Procedure       107         LH       107         LH : Diagnosis Procedure       107         RH       108         RH : Diagnosis Procedure       108         MALFUNCTION DETECTION BUZZER       SOUNDS DURING POWER RETURN MOTOR INVERSE ROTATION         TOR INVERSE ROTATION       110         LH       110         LH : Diagnosis Procedure       110         RH : Diagnosis Procedure       110         DOES NOT RETURN BUT MALFUNCTION DETECTION BUZZER SOUNDS       112         LH       112         LH : Diagnosis Procedure       112         RH       112         RH       112         RH       112         RH       112         RH       112	NOT TURN ON
BOTH SIDES       107         BOTH SIDES : Diagnosis Procedure       107         LH       107         LH : Diagnosis Procedure       107         RH       108         RH : Diagnosis Procedure       108         MALFUNCTION DETECTION BUZZER       SOUNDS DURING POWER RETURN MOTOR INVERSE ROTATION         TOR INVERSE ROTATION       110         LH       110         RH : Diagnosis Procedure       110         RH : Diagnosis Procedure       110         DOES NOT RETURN BUT MALFUNCTION DETECTION BUZZER SOUNDS       112         LH       112         LH : Diagnosis Procedure       112	NOT TURN ON

POWER SEAT SWITCH150
Exploded View150
Removal and Installation
LUMBAR SUPPORT SWITCH151
Exploded View151
Removal and Installation151
HEATED SEAT SWITCH152
Exploded View
Removal and Installation
POWER RETURN SWITCH153
Exploded View
Removal and Installation
REAR SEATBACK SWITCH154
Exploded View154
Removal and Installation 154
REAR SEATBACK RELEASE SWITCH155
Exploded View155
Removal and Installation 155

## **DIAGNOSIS AND REPAIR WORK FLOW**

# < BASIC INSPECTION > **BASIC INSPECTION** Α DIAGNOSIS AND REPAIR WORK FLOW WorkFlow INFOID:0000000007457206 **DETAILED FLOW** 1. OBTAIN INFORMATION ABOUT SYMPTOM Interview the customer to obtain the malfunction information (conditions and environment when the malfunction occurred) as much as possible when the customer brings the vehicle in. 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

Revision: 2014 October SE-5 2012 EX

# SYSTEM DESCRIPTION

# **POWER SEAT**

# System Description

INFOID:0000000007457207

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

#### SLIDING OPERATION

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

## **RECLINING OPERATION**

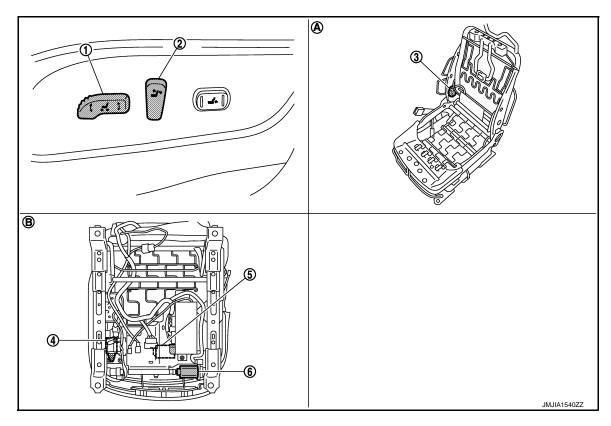
While operating the reclining switch located in power seat switch, reclining motor operates and makes possible the seat back forward and backward position adjustment.

#### LIFTING OPERATION

While operating the lifting switch located in power seat switch, lifting motor operates and makes possible the seat cushion up and down position adjustment.

# Component Parts Location

INFOID:0000000007457208



- 1. Sliding switch and lifting switch
- 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:0000000007457209

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	

Е

Α

В

С

D

F

G

Н

SE

Κ

L

M

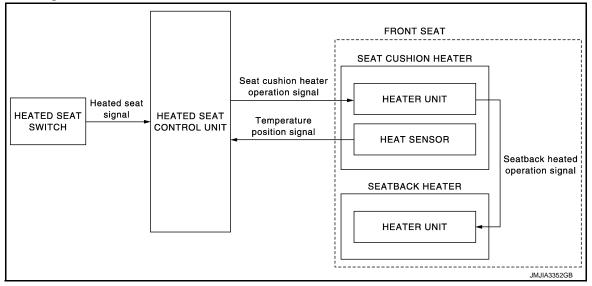
Ν

0

## **HEATED SEAT**

# System Diagram

INFOID:0000000007457210



# System Description

INFOID:0000000007457211

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

#### **OPERATION DESCRIPTION**

- When operating heated seat switch to any position between 1 and 6 while ignition switch is ON, indicator illuminates, heated seat control unit supplies power supply to heater unit, and warms seat cushion and 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

INFOID:0000000007457212

Α

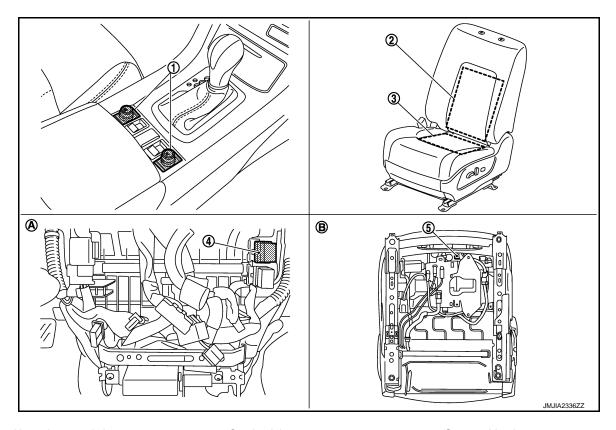
В

D

Е

G

Н



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

Seat cushion heater

# **Component Description**

INFOID:0000000007457213

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

SE

K

M

Ν

0

D

# **LUMBAR SUPPORT**

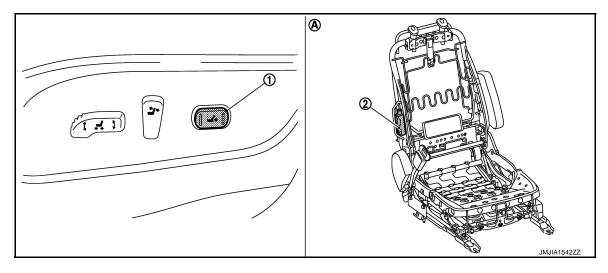
# System Description

INFOID:0000000007457214

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

# **Component Parts Location**

INFOID:0000000007457215



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

# **Component Description**

INFOID:0000000007457216

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

## REAR SEATBACK RELEASE CONTROL

## < SYSTEM DESCRIPTION >

# REAR SEATBACK RELEASE CONTROL

# System Description

INFOID:0000000007457217

Α

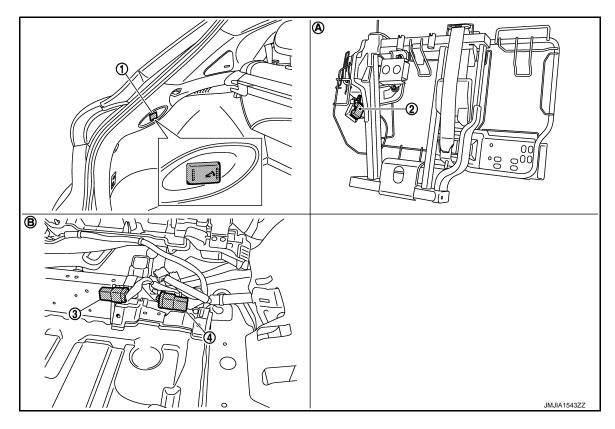
D

Е

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

# **Component Parts Location**

INFOID:0000000007457218



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

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

# **Component Description**

INFOID:0000000007457219

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

Revision: 2014 October SE-11 2012 EX

57219

Ν

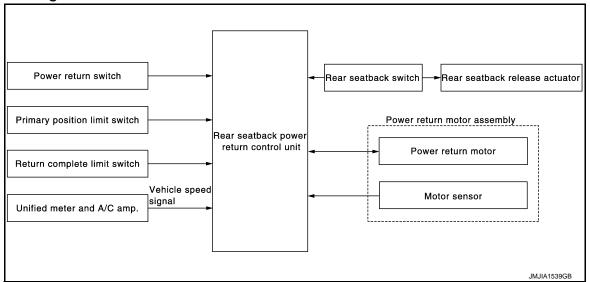
M

SE

## REAR SEATBACK POWER RETURN SYSTEM

# System Diagram

INFOID:0000000007457220



# System Description

INFOID:0000000007457221

#### DESCRIPTION

Rear Seatback Release Control

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

#### Rear Seatback Power Return System

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

#### **OPERATION DESCRIPTION**

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

## **Return Operation Starting Condition**

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

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

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

SE

Α

D

#### < 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	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:0000000007457222

Α

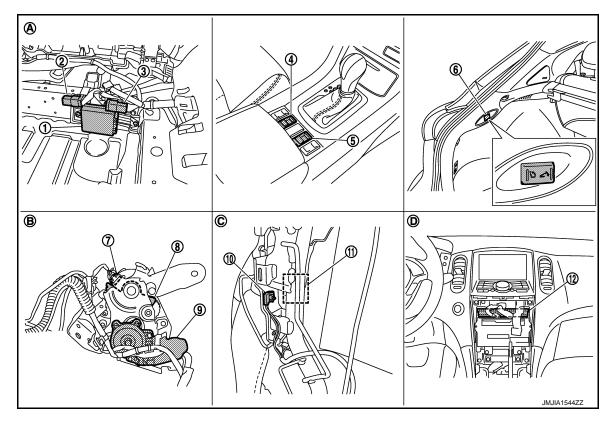
В

D

Е

F

Н



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

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

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

# Component Description

INFOID:0000000007457223

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

Revision: 2014 October SE-15 2012 EX

SE

K

M

Ν

0

< DTC/CIRCUIT DIAGNOSIS >

# DTC/CIRCUIT DIAGNOSIS

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

# REAR SEATBACK POWER RETURN CONTROL UNIT: Diagnosis Procedure

INFOID:0000000007457224

# 1. CHECK FUSE

Check that the following fuses are not fusing.

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

#### Is the fuse fusing?

YES >> Replace the blown fuse after repairing the affected circuit if a fuse is blown.

NO >> GO TO 2.

# 2.CHECK REAR SEATBACK POWER RETURN CONTROL UNIT POWER SUPPLY

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

(	+)		Voltage	
Rear seatback power return control unit		(–)	Voltage (Approx.)	
Connector	Terminal		(11 - )	
B226	17	Ground	Battery voltage	
B227	16	Giound	Dattery 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		Existeu	

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

## HEATED SEAT CONTROL UNIT

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

INFOID:0000000007457225

# 1.CHECK FUSE

Check that the following fuse is not blown.

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

#### Is the inspection result normal?

## < DTC/CIRCUIT DIAGNOSIS >

YES >> GO TO 2.

NO >> Replace the blown fuse after repairing the affected circuit if fuse is blown.

# 2.CHECK HEATED SEAT CONTROL UNIT POWER SUPPLY 1

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

(+) Heated seat control unit			(-)	Voltage (V) (Approx.)
Connector Term		Terminal		(πρειοχ.)
Driver side	B439	CO.	Cround	Dottom, voltome
Passenger side	B462	60	Ground	Battery voltage

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 3.

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

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

Heated seat control unit			Heated s	Continuity		
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	Ground	Continuity	
Driver side	B439	60	Giouria	Not existed	
Passenger side	B462	- 00		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				(	
Driver side	B439				ON	Battery voltage	
Driver side	D439	66	Ground	Ground	Heated seat	OFF	0
Pageanger side P462	- 00	Giodila	switch	ON	Battery voltage		
rassenger side	assenger side B462				OFF	0	

#### <u>Is the inspection result normal?</u>

YES >> GO TO 7.

NO >> GO TO 5.

# 5. CHECK HEATED SEAT CONTROL UNIT POWER SUPPLY CIRCUIT 2

Revision: 2014 October SE-17 2012 EX

SE

Α

В

D

Е

F

Н

K

M

Ν

 $\circ$ 

## < 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 seat switch		Continuity		
Con	nector	Terminal	Connector Terminal		- Continuity	
Driver side	B439	66	M177	1	Existed	
Passenger side	B462	00	M178	ı	Existed	

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 SE-48, "DRIVER SIDE: Component Inspection".
- Passenger side: Refer to SE-49, "PASSENGER SIDE: Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 8.

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

# 7.CHECK HEATED SEAT CONTROL UNIT GROUND CIRCUIT

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

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

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair or replace harness.

## 8.CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-42, "Intermittent Incident".

# >> INSPECTION END HEATED SEAT SWITCH

# **HEATED SEAT SWITCH: Diagnosis Procedure**

## 11. Diagnosis i 100caard

# 1.CHECK FUSE

Check that the following fuse is not blown.

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

#### < DTC/CIRCUIT DIAGNOSIS >

## Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace the blown fuse after repairing the affected circuit if fuse is blown.

# 2.CHECK HEATED SEAT SWITCH POWER SUPPLY

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

(+)			Voltage (V) (Approx.)	
Heated seat switch		(-)		
Connector Terminal			(11 - /	
Driver side	M177	5	Ground	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	
Coni	nector	Terminal	Connector Terminal		Continuity
Driver side	M177	5	M1	2A	Existed
Passenger side	M178	3	IVII	ZA	LXISIEU

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

Heated seat switch			Continuity	
Con	nector	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.
- 2. Check voltage between fuse block (J/B) connector (fuse block side) and ground.

·	(+) ock (J/B)	(–)	Voltage (V) (Approx.)	
Connector	Terminal		( 44)	
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".

Revision: 2014 October SE-19 2012 EX

SE

Α

В

D

Е

F

Н

M

N

>> INSPECTION END

## < DTC/CIRCUIT DIAGNOSIS >

LH: Description

# POWER RETURN SWITCH

LH

INFOID:0000000007457227

Α

В

D

Е

F

Н

Switch that performs the return operation.

# LH: Component Function Check

INFOID:0000000007457228

# 1. CHECK POWER RETURN SWITCH (LH) FUNCTION

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

## Is the inspection result normal?

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

NO >> Refer to SE-21, "LH: Diagnosis Procedure".

# LH : Diagnosis Procedure

INFOID:0000000007457229

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

Turn ignition switch OFF.

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

	(+) Power return switch (LH)		Voltage (V) (Approx.)	
Connector	Terminal		(11 - 7	
M174	1	Ground	5	

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

# 2.CHECK FRONT POWER RETURN SWITCH (LH) CIRCUIT

1. Disconnect rear seatback power return control unit connector.

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

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

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	Terminal	Ground	Continuity
M174	2		Existed

SE

Ν

Р

Revision: 2014 October SE-21 2012 EX

#### < 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>.

## ${f 5.}$ CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

#### >> INSPECTION END

## LH: Component Inspection

INFOID:0000000007457230

# 1. CHECK FRONT POWER RETURN SWITCH (LH)

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

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

### Is the inspection result normal?

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

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

RH

## RH: Description

INFOID:0000000007457231

Switch that performs the return operation.

# RH: Component Function Check

INFOID:0000000007457232

# 1. CHECK POWER RETURN SWITCH (RH) FUNCTION

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

#### Is the inspection result normal?

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

NO >> Refer to SE-22, "RH: Diagnosis Procedure".

# RH: Diagnosis Procedure

INFOID:0000000007457233

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

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

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

#### < DTC/CIRCUIT DIAGNOSIS >

## Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

# 2.check power return switch (RH) circuit

Disconnect rear seatback power return control unit connector.

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

Rear seatback pow	Rear seatback power return control unit		Power return switch (RH)	
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?

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

NO >> Repair or replace harness.

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

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

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

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

## 4. CHECK POWER RETURN SWITCH (RH)

Check power return switch (RH).

Refer to SE-23, "RH: Component Inspection".

### Is the inspection result normal?

YFS >> GO TO 5.

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

## CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

#### >> INSPECTION END

# **RH**: Component Inspection

# 1. CHECK POWER RETURN SWITCH (RH)

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

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

SE

Α

В

D

Е

F

N

M

INFOID:0000000007457234

## < DTC/CIRCUIT DIAGNOSIS >

## Is the inspection result normal?

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

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

#### < DTC/CIRCUIT DIAGNOSIS >

# REAR SEATBACK SWITCH

IΗ

INFOID:0000000007457235

Α

В

D

Е

F

Switch that performs the return operation or release operation.

# LH: Component Function Check

INFOID:0000000007457236

# 1. CHECK FUNCTION

LH: Description

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

#### Is the inspection result normal?

YES >> Rear seatback switch (LH) is OK.

NO >> Refer to SE-25, "LH: Diagnosis Procedure".

# LH: Diagnosis Procedure

INFOID:0000000007457237

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

Turn ignition switch OFF.

Disconnect rear seatback switch (LH) connector.

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

(+)			V 14 0.0
Rear seatback switch (LH)		(–)	Voltage (V) (Approx.)
Connector	Terminal		(, 44, 2,)
B52	2	Ground	5

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

# 2.CHECK REAR SEAT BACK SWITCH (LH) CIRCUIT

Disconnect rear seatback power return control unit connector.

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

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

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

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

## Is the inspection result normal?

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

NO >> Repair or replace harness.

# 3.CHECK REAR SEATBACK SWITCH (LH) GROUND CIRCUIT

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

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

**SE-25** Revision: 2014 October 2012 EX

SE

Н

L

M

N

#### < DTC/CIRCUIT DIAGNOSIS >

### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

# f 4.CHECK REAR SEATBACK SWITCH (LH)

Check rear seatback switch (LH).

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

#### Is the inspection result normal?

YES >> GO TO 5.

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

## CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

#### >> INSPECTION END

## LH: Component Inspection

INFOID:0000000007457238

# 1. CHECK REAR SEATBACK SWITCH (LH)

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

Rear seatba	ck switch (LH)	Condition	Continuity	
Terr	minal	Condition	Continuity	
2	2	Rear seatback switch (LH) is pressed in UP direction	Existed	
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</u>, "Removal and Installation".

RH

## RH: Description

INFOID:0000000007457239

Switch that performs the return operation or release operation.

# RH: Component Function Check

INFOID:0000000007457240

# 1. CHECK FUNCTION

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

#### Is the inspection result normal?

YES >> Rear seatback switch (RH) is OK.

NO >> Refer to SE-26, "RH: Diagnosis Procedure".

# RH: Diagnosis Procedure

INFOID:0000000007457241

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

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

## < DTC/CIRCUIT DIAGNOSIS >

(+)			V-16 0.0
Rear seatback switch (RH)		(–)	Voltage (V) (Approx.)
Connector	Terminal		, , ,
B239	2	Ground	5

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

# 2.check rear seatback switch (RH) circuit

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

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

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

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

### Is the inspection result normal?

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

NO >> Repair or replace harness.

# 3.check rear seatback switch (RH) ground circuit

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

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

## Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

## 4. CHECK REAR SEATBACK SWITCH (RH)

Check rear seatback switch (RH).

Refer to SE-27, "RH: Component Inspection".

## Is the inspection result normal?

YES >> GO TO 5.

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

## 5. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

#### >> INSPECTION END

# **RH**: Component Inspection

# 1. CHECK REAR SEATBACK SWITCH (RH)

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

SE

Α

В

Е

F

\_

N

Ν

1.4

Р

INFOID:0000000007457242

## < DTC/CIRCUIT DIAGNOSIS >

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

## Is the inspection result normal?

YES >> Rear seatback switch (RH) is OK.

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

#### < DTC/CIRCUIT DIAGNOSIS >

# PRIMARY POSITION LIMIT SWITCH

IΗ

LH: Description INFOID:0000000007457243

Detect the initial position of sector gear (LH).

LH: Component Function Check

#### INFOID:0000000007457244

Α

В

Е

F

Н

## 1. CHECK FUNCTION

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

## Is the inspection result normal?

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

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

# LH: Diagnosis Procedure

#### INFOID:0000000007457245

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

1. Turn ignition switch OFF.

- Disconnect primary position limit switch (LH) connector.
- Check voltage between primary position limit switch (LH) connector and ground.

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

#### NOTE:

It is not low power consumption mode.

## Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

# K

# 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	er return control unit	Primary position limit switch (LH)		Continuity
Connector	Terminal	Connector	Connector Terminal	
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 SE-148, "Removal and Installation".

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.

SE

M

Ν

#### < DTC/CIRCUIT DIAGNOSIS >

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

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

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

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

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

Check primary position limit switch (LH).

Refer to SE-30, "LH: Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace primary position limit switch (LH) [seat device assembly (LH)]. Refer to <u>SE-141</u>, "Exploded View".

# 5. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

## LH: Component Inspection

INFOID:0000000007457246

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

#### Is the inspection result normal?

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

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

RH

NO

## RH: Description

INFOID:0000000007457247

Detect the initial position of sector gear (RH).

## RH: Component Function Check

INFOID:0000000007457248

# 1. CHECK FUNCTION

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

### Is the inspection result normal?

<	DT	C/	CIF	CL	JIT	DIA	G١	105	SIS	>
---	----	----	-----	----	-----	-----	----	-----	-----	---

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

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

# RH: Diagnosis Procedure

INFOID:0000000007457249

Α

В

D

Е

F

Н

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

Turn ignition switch OFF.

Connect primary position limit switch (RH) connector.

Check voltage between primary position limit switch (RH) harness connector and ground.

(+) Primary position limit switch (RH)		(-)	Voltage (V) (Approx.)	
Connector	Terminal		(/ <del>(PP10/)</del>	
B505	15	Ground	Battery voltage	

#### NOTE:

It is not low power consumption mode.

#### Is the inspection result normal?

>> GO TO 3. YES

NO >> GO TO 2.

# 2.CHECK PRIMARY POSITION 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 primary position limit switch (RH) harness connector.

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

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

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

#### Is the inspection result normal?

YES >> Replace rear seatback power return control unit. Refer to SE-148, "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	Rear seatback power return control unit		Primary position limit switch (RH)	
Connector	Terminal	Connector	Terminal	Continuity
B226	23	B505	14	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	23		Not existed

## Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

**SE-31** Revision: 2014 October 2012 EX

SE

K

M

Ν

#### < DTC/CIRCUIT DIAGNOSIS >

# 4. CHECK PRIMARY POSITION LIMIT SWITCH (RH)

Check primary position limit switch (RH).

Refer to SE-32, "RH: Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace primary position limit switch (RH) [seat device assembly (RH)]. Refer to <u>SE-141</u>, "Exploded View".

# 5. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

## >> INSPECTION END

# **RH**: Component Inspection

INFOID:0000000007457250

#### COMPONENT INSPECTION

# 1. CHECK PRIMARY POSITION LIMIT SWITCH (RH)

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

Primary position	limit switch (RH)	Condition	Continuity	
Terr	minal	Condition		
14	15	Primary position limit switch (RH) is pressed	Existed	
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".

Revision: 2014 October SE-32 2012 EX

## < DTC/CIRCUIT DIAGNOSIS >

# RETURN COMPLETE LIMIT SWITCH

LH

LH: Description

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

## LH: Component Function Check

#### INFOID:0000000007457252

Α

В

Е

F

Н

## 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:0000000007457253

# ${f 1}$ .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.

(	+)		V-14 () ()	
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.

# K

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

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

Rear seatback pow	er return control unit	Rear seatback lo	Continuity	
Connector	Terminal	Connector	Terminal	Continuity
B226	29	B513	8	Existed

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

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

#### Is the inspection result normal?

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

NO >> Repair or replace harness.

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

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

SE

K

Ν

M

#### < DTC/CIRCUIT DIAGNOSIS >

Rear seatback pow	er return control unit	Rear seatback lo	ock assembly (LH)	Continuity	
Connector	Terminal	Connector	Terminal		
B226	31	B513	9	Existed	

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

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

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

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

Check return complete limit switch (LH).

Refer to SE-34, "LH: Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace return complete limit switch (LH) [rear seatback lock assembly (LH)]. Refer to <u>SE-141</u>, "Exploded View".

# 5. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

#### >> INSPECTION END

# LH : Component Inspection

INFOID:0000000007457254

#### COMPONENT INSPECTION

# 1. CHECK RETURN COMPLETE LIMIT SWITCH (LH)

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

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

#### Is the inspection result normal?

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

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

RH

NO

## RH: Description

INFOID:0000000007457255

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

## RH: Component Function Check

INFOID:0000000007457256

# 1. CHECK FUNCTION

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

### Is the inspection result normal?

_	רח	$\Gamma C_{i}$	/CI	R	11:	ΙT	ΠΙΔ	GN	1OSI	S	_
<	$\boldsymbol{\mathcal{L}}$		'UI	$\sim$	ノし	11	DIP	יוטו	NO OI	o	>

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

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

# RH: Diagnosis Procedure

INFOID:0000000007457257

Α

В

D

Е

F

Н

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

1. Turn ignition switch OFF.

2. Disconnect rear seatback lock assembly (RH) connector.

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

	+) ck assembly (RH)	(–)	Voltage (V) (Approx.)	
Connector	Terminal		( 44)	
B506	13	Ground	Battery voltage	

#### NOTE:

It is not low power consumption mode.

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

# 2.check return complete limit switch (RH) signal circuit

1. Disconnect rear seatback power return control unit connector.

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

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

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

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

#### Is the inspection result normal?

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

NO >> Repair or replace harness.

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

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

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

## Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

Revision: 2014 October SE-35 2012 EX

SE

K

L

M

Ν

 $\circ$ 

O

## < DTC/CIRCUIT DIAGNOSIS >

# 4. CHECK RETURN COMPLETE LIMIT SWITCH (RH)

Check return complete limit switch (RH).

Refer to SE-36, "RH: Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace return complete limit switch (RH) [rear seatback lock assembly (RH)]. Refer to <u>SE-141</u>, "Exploded View".

# 5. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

## >> INSPECTION END

# **RH**: Component Inspection

INFOID:0000000007457258

#### COMPONENT INSPECTION

# 1. CHECK RETURN COMPLETE LIMIT SWITCH (RH)

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

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

#### Is the inspection result normal?

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

NO >> Replace return complete limit switch (RH) [rear seatback lock assembly (RH)]. Refer to <u>SE-141.</u> "Exploded View".

LH

INFOID:0000000007457259

Α

В

D

Е

F

Н

SE

Р

LH : Description

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

## LH: Component Function Check

INFOID:0000000007457260

# 1. CHECK FUNCTION

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

### Is the inspection result normal?

YES >> Motor sensor (LH) is OK.

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

# LH: Diagnosis Procedure

INFOID:0000000007457261

# 1. CHECK MOTOR SENSOR (LH) OUTPUT SIGNAL

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

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

## Is the inspection result normal?

YES >> GO TO 7.

NO >> GO TO 2.

# 2. CHECK MOTOR SENSOR (LH) SIGNAL CIRCUIT

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

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

(	(+)			V-16 () ()
Power return motor 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	Connector Terminal		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.
- 2. 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	Connector Terminal		Continuity	
B227	9		Existed	

## Is the inspection result normal?

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

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

#### < DTC/CIRCUIT DIAGNOSIS >

# 7.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

#### >> INSPECTION END

RH

RH: Description

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

# RH: Component Function Check

## 1. CHECK FUNCTION

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

#### Is the inspection result normal?

YES >> Motor sensor (RH) is OK.

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

## RH: Diagnosis Procedure

# 1. CHECK MOTOR SENSOR (RH) OUTPUT SIGNAL

Turn ignition switch OFF.

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

(+) Rear seatback power return control unit		(-)	Condition	Voltage (V) (Approx.)
Connector	Terminal			(/ .pp. 5/)
B227	2	Ground	During the power return motor (RH) operation	(V) 6 4 2 0 10 ms JMKIA0070GB
			When pinching between LH/RH seats occurs	The above pulse width should be expanded

#### Is the inspection result normal?

YES >> GO TO 7.

NO >> GO TO 2.

# 2.CHECK MOTOR SENSOR (RH) SIGNAL CIRCUIT

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

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

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

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

**SE-39** Revision: 2014 October 2012 EX

В

INFOID:0000000007457263 

INFOID:0000000007457262

INFOID:0000000007457264

Е

F

Н

SE

Ν

#### < DTC/CIRCUIT DIAGNOSIS >

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 () ()
Power return motor assembly (RH)		(–)	Condition	Voltage (V) (Approx.)
Connector	Terminal			( ) 1 - /
B504	17	Ground	When the power return switch is operated	Battery voltage

### Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

# 4. CHECK MOTOR SENSOR (RH) POWER SUPPLY CIRCUIT

- 1. Disconnect rear seatback power return control unit connector.
- 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.

# 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

Α

В

С

D

Е

F

G

Н

SE

Κ

L

M

Ν

0

### **POWER RETURN MOTOR**

#### < DTC/CIRCUIT DIAGNOSIS >

## POWER RETURN MOTOR

LH

LH: Description

Operate the rear seatback.

LH: Component Function Check

INFOID:0000000007457266

## 1. CHECK FUNCTION

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

### Is the inspection result normal?

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

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

## LH: Diagnosis Procedure

INFOID:0000000007457267

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

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

Power return motor  Connector	r assembly (LH)  Terminal	(–)	Condition	Voltage (V) (Approx.)
	1		During the power return motor (LH) reverse operation	Battery voltage
B511		Ground	Other than the above	0
3611	2		During the power return motor (LH) return operation	Battery voltage
			Other than the above	0

#### Is the inspection result normal?

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

NO >> GO TO 2.

# 2.CHECK POWER RETURN MOTOR (LH) CIRCUIT

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

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

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	Giodila	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

INFOID:0000000007457268

Α

В

D

Е

Н

SE

L

Ν

Р

Operate the rear seatback.

RH: Component Function Check

INFOID:0000000007457269

## 1. CHECK FUNCTION

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

#### Is the inspection result normal?

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

NO >> Refer to <u>SE-43, "RH : Diagnosis Procedure"</u>.

## RH: Diagnosis Procedure

INFOID:0000000007457270

# 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.

# 2.check power return motor (RH) circuit

1. 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	ear seatback power return control unit Power return motor assembly (RH)		Continuity	
Connector	Terminal	Connector Terminal		Continuity
B227	7	B504	20	Existed
DZZ1	8	Б304	21	Existed

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

Rear seatback pow	er return control unit		Continuity	
Connector	Connector Terminal		Continuity	
B227	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>.

## **VEHICLE SPEED SIGNAL CIRCUIT**

#### < DTC/CIRCUIT DIAGNOSIS >

## VEHICLE SPEED SIGNAL CIRCUIT

Description INFOID:000000007457271

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

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

Rear seatback pow	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.

SE

Α

В

D

Е

INFOID:0000000007457272

INFOID:0000000007457273

IVI

Ν

## **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

INFOID:0000000007457274

Α

В

D

Е

F

Н

SE

M

Ν

Р

Adjusts heated seat temperature and deactivates heated seat.

DRIVER SIDE: Component Function Check

INFOID:0000000007457275

# 1. CHECK HEATED SEAT SWITCH FUNCTION

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

#### Is the inspection result normal?

YES >> Heated seat switch function is OK.

NO >> Refer to <u>SE-47</u>, "DRIVER SIDE : Diagnosis Procedure".

## DRIVER SIDE: Diagnosis Procedure

INFOID:0000000007457276

# 1. CHECK HEATED SEAT CONTROL UNIT INPUT SIGNAL

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

(+ Heated seat		(–)	Condition		Voltage (V) (Approx.)		
Connector	Terminal						
				OFF	0		
						1 (Min. temperature)	12.24
			2	12.33			
B439	67	67	67 G	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.
- 3. Check continuity between heated seat switch harness connector and heated seat control unit harness connector.

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

Check continuity between heated seat switch harness connector and ground.

Heated s	at switch		Continuity
Connector	Terminal	Ground	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:0000000007457277

# 1. CHECK FRONT HEATED SEAT SWITCH

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

	eat switch ninal	Condition		Resistance $(K\Omega)$ (Approx.)
	1		ON	0
		Heated seat switch position	OFF	∞
	5 2		1 (Min. temperature)	2.400
E			2	1.800
5			3	1.200
			4	0.910
			5	0.620
			6 (Max. temperature)	0.348

### Is the inspection result normal?

YES >> INSPECTION END

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

### PASSENGER SIDE

PASSENGER SIDE: Description

INFOID:0000000007457278

INFOID:0000000007457279

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

INFOID:0000000007457280

# 1. CHECK HEATED SEAT CONTROL UNIT INPUT SIGNAL

### < DTC/CIRCUIT DIAGNOSIS >

- 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	(-)	Condi	tion	Voltage (V) (Approx.)
Connector	Terminal				(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
				OFF	0
			1 (Min. temperature)	12.24	
				2	12.33
B462	67	Ground	Heated seat switch position	3	12.49
				4	12.63
				5	12.76
				6 (Max. temperature)	12.90

### Is the inspection result normal?

YES >> Heated seat switch circuit is OK.

NO >> GO TO 2.

# 2.CHECK HEATED SEAT SWITCH CIRCUIT

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

Heated s	Heated seat switch		Heated seat control unit	
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

**SE-49** Revision: 2014 October 2012 EX

Α

В

D

Е

SE

K

M

Ν

INFOID:0000000007457281

## < DTC/CIRCUIT DIAGNOSIS >

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

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

## Is the inspection result normal?

YES >> INSPECTION END

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

## **HEATED SEAT RELAY**

#### < DTC/CIRCUIT DIAGNOSIS >

## **HEATED SEAT RELAY**

Description INFOID:0000000007457282

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

# Component Function Check

# 1. CHECK HEATED SEAT RELAY FUNCTION

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

### Is the inspection result normal?

YES >> Heated seat relay function is OK.

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

## Diagnosis Procedure

# 1. CHECK HEATED SEAT RELAY POWER SUPPLY

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

	(+)		V 16 0 0	
Heated	Heated seat relay		Voltage (V) (Approx.)	
Connector	Terminal		(11 - 7	
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	Terminal	Ground	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.

SE

Н

Α

В

D

Е

INFOID:0000000007457283

INFOID:0000000007457284

K

L

M

Ν

### **HEATED SEAT RELAY**

#### < DTC/CIRCUIT DIAGNOSIS >

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

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

## **4.**CHECK HEATED SEAT RELAY

Check heated seat relay.

Refer to SE-52, "Component Inspection".

## Is the inspection result normal?

YES >> Heated seat relay is OK.

NO >> Replace heated seat relay.

# 5. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-42, "Intermittent Incident".

#### >> INSPECTION END

# Component Inspection

INFOID:0000000007457285

# 1. CHECK HEATED SEAT RELAY

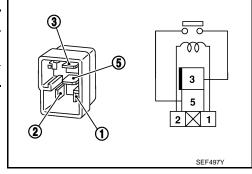
- 1. Turn ignition switch OFF.
- 2. Disconnect heated seat relay.
- 3. Check continuity between heated seat relay terminals.

Terr	ninal	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:0000000007457286

DRIVER SIDE: Description

Α

В

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

DRIVER SIDE: Component Function Check

INFOID:0000000007457287

INFOID:0000000007457288

## 1. CHECK FUNCTION

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

D

#### Is the inspection result normal?

YES >> Heat sensor function is OK.

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

Е

## DRIVER SIDE: Diagnosis Procedure

## 1. CHECK HEAT SENSOR INPUT SIGNAL

Turn ignition switch ON.

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

F

Н

SE

(+) Heated seat control unit		(–)	Condition	Voltage (V) (Approx.)
Connector	Terminal			(· .pp. 5/)
			OFF	0
	B439 69		1 (Min. temperature)	10.87 – 11.02
		69 Ground 3	2	10.93 – 11.07
B439			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.

M

Ν

Р

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

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

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

#### Is the inspection result normal?

#### < DTC/CIRCUIT DIAGNOSIS >

YES >> GO TO 3.

NO >> Repair or replace harness.

# 3. CHECK HEAT SENSOR POWER SUPPLY

1. Turn ignition switch ON.

2. Check voltage between seat cushion heater harness connector and ground.

(+) Seat cushion heater		(-)	Voltage (V) (Approx.)	
Connector	Terminal		(11 - 7	
B440	66	Ground	Battery voltage	

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

# 4.check heat sensor power supply circuit

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

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

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

Heated seat switch			Continuity
Connector	Terminal	Ground	Not existed
M177	1		NOT EXISTED

#### Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

## 5. CHECK HEAT SENSOR

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

#### Is the inspection result normal?

YES >> GO TO 6.

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

## 6.CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-42, "Intermittent Incident".

#### >> INSPECTION END

## **DRIVER SIDE**: Component Inspection

INFOID:0000000007457289

# 1. CHECK HEAT SENSOR

- 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		0	Resistance
Terr	minal	Condition	(KΩ) (Approx.)
66	69	When heat sensor temperature is 25°C (77°F)	9.9 – 10.1

NOTE:

Resistance value changes according to temperature.

#### Is the inspection result normal?

YES >> INSPECTION END

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

## PASSENGER SIDE

PASSENGER SIDE : Description

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

## PASSENGER SIDE : Component Function Check

# 1. CHECK HEATER SENSOR FUNCTION

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

#### Is the inspection result normal?

YES >> Heat sensor function is OK.

NO >> Refer to <u>SE-51, "Diagnosis Procedure"</u>

## PASSENGER SIDE: Diagnosis Procedure

# 1. CHECK HEAT SENSOR INPUT SIGNAL

1. Turn ignition switch ON.

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

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

#### NOTE:

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

#### Is the inspection result normal?

YES >> heat sensor function is OK.

NO >> GO TO 2.

# 2. CHECK HEAT SENSOR CIRCUIT

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

**SE-55** 

SE

Α

В

D

Е

F

Н

INFOID:0000000007457290

INFOID:0000000007457291

INFOID:0000000007457292

K

L

M

N

Р

2012 EX

#### < DTC/CIRCUIT DIAGNOSIS >

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

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

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

## Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

# 3. CHECK HEAT SENSOR POWER SUPPLY

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

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

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

# 4.CHECK HEAT SENSOR POWER SUPPLY CIRCUIT

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

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

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

Heated s	eat switch		Continuity
Connector	Terminal	Ground	Not existed
M178	1		NOT EXISTED

#### Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

## 5. CHECK HEAT SENSOR

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

## Is the inspection result normal?

YES >> GO TO 6.

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

### 6.CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-42, "Intermittent Incident".

### < DTC/CIRCUIT DIAGNOSIS >

### >> INSPECTION END

# PASSENGER SIDE: Component Inspection

#### INFOID:0000000007457293

# 1. CHECK HEAT SENSOR

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

Seat cushion heater		0 100	Resistance
Terr	minal	Condition	(KΩ) (Approx.)
66	69	When heat sensor temperature is 25°C (77°F)	9.9 – 10.1

### NOTE:

Resistance value changes according to temperature.

### Is the inspection result normal?

YES >> INSPECTION END

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

F

Е

Α

В

C

D

G

Н

SE

Κ

L

M

Ν

0

### < DTC/CIRCUIT DIAGNOSIS >

## SEAT CUSHION HEATER

**DRIVER SIDE** 

DRIVER SIDE : Description

INFOID:0000000007457294

Warms the seat cushion.

DRIVER SIDE: Component Function Check

INFOID:0000000007457295

## 1. CHECK SEAT CUSHION HEATER FUNCTION

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

#### Is the inspection result normal?

YES >> Seat cushion heater function is OK.

NO >> Refer to SE-58, "DRIVER SIDE : Diagnosis Procedure".

## DRIVER SIDE: Diagnosis Procedure

INFOID:000000007457296

## 1. CHECK SEAT CUSHION HEATER INPUT SIGNAL

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

	+) nion heater	(–)	Condition		Voltage (V) (Approx.)
Connector	Terminal				( ) [ ] ( )
B440	68	Ground	Heated seat	Operated	0 – Battery voltage
D440	00	Giouna	nealed Seal	Other than the above	0

#### NOTE:

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

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

# 2.CHECK SEAT CUSHION HEATER CIRCUIT

- 1. Turn ignition switch OFF.
- 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-129, "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

1. CHECK SEAT CUSHION HEATER

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

Seat cushion heater		0 100	Resistance
Terr	ninal	Condition	(Ω) (Approx.)
59	68	When heat sensor temperature is 20°C (68°F)	2.6 – 3.0

Resistance value changes according to temperature.

#### Is the inspection result normal?

YES >> INSPECTION END

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

#### PASSENGER SIDE

PASSENGER SIDE: Description

Warms the seat cushion.

## PASSENGER SIDE: Component Function Check

# CHECK SEAT CUSHION HEATER FUNCTION

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

#### Is the inspection result normal?

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

SE

Н

Α

В

D

Е

N

INFOID:0000000007457298

INFOID:0000000007457299

INFOID:0000000007457297

Р

INFOID:0000000007457300

#### < 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.

(4	+)		Condition		\/-\{\-\nu_{\nu_{\nu_{\nu_{\nu_{\nu_{\nu_{\nu_{
Seat cush	ion heater	(–) Condition			Voltage (V) (Approx.)
Connector	Terminal				, , ,
B463	68	Ground	Heated seat	Operated	0 – Battery voltage
D403	08	Giodila	Tieated Seat	Other than the above	0

#### NOTE:

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

### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

# 2.CHECK SEAT CUSHION HEATER CIRCUIT

- 1. Turn ignition switch OFF.
- 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-129</u>, "Exploded View".

## f 4 .CHECK SEAT CUSHION HEATER GROUND CIRCUIT

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

Seat cush	ion 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

# 1. CHECK SEAT CUSHION HEATER

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

Seat cush	ion heater	0	Resistance
Terr	ninal	Condition	(Ω) (Approx.)
59	68	When heat sensor temperature is 20°C (68°F)	2.6 – 3.0

#### NOTE:

Resistance value changes according to temperature.

## Is the inspection result normal?

>> INSPECTION END YES

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

SE

L

**SE-61** Revision: 2014 October 2012 EX

 $\mathsf{D}$ 

Α

INFOID:0000000007457301

Е

F

Н

M

Ν

## **SEATBACK HEATER**

## < DTC/CIRCUIT DIAGNOSIS >

## SEATBACK HEATER

**DRIVER SIDE** 

DRIVER SIDE: Description

Warms the seat back heater.

DRIVER SIDE: Component Function Check

INFOID:0000000007457303

## 1. CHECK SEATBACK HEATER FUNCTION

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

#### Is the inspection result normal?

YES >> Seatback heater function is OK.

NO >> Refer to SE-62, "DRIVER SIDE : Diagnosis Procedure".

## DRIVER SIDE: Diagnosis Procedure

INFOID:0000000007457304

## 1. CHECK SEATBACK HEATER

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

	Seatback heater		Qualities .	Resistance
Connector	Terr	minal	Condition	$(\Omega)$ (Approx.)
B442	1	2	When heat sensor temperature is 20°C (68°F)	4.0 – 4.7

#### NOTE:

Resistance value changes according to temperature.

#### Is the inspection result normal?

YES >> Replace seat cushion heater. Refer to <u>SE-129, "Exploded View"</u>.

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

### PASSENGER SIDE

PASSENGER SIDE: Description

INFOID:0000000007457305

Warms the seat back heater.

# PASSENGER SIDE: Component Function Check

INFOID:0000000007457306

# 1. CHECK SEATBACK HEATER FUNCTION

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

## Is the inspection result normal?

YES >> Seatback heater function is OK.

NO >> Refer to <u>SE-62, "PASSENGER SIDE : Diagnosis Procedure"</u>.

## PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000007457307

# 1. CHECK SEATBACK HEATER

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

## **SEATBACK HEATER**

## < DTC/CIRCUIT DIAGNOSIS >

	Seatback heater		0	Resistance
Connector	Terr	minal	Condition	(Ω) (Approx.)
B465	1	2	When heat sensor temperature is 20°C (68°F)	4.0 – 4.7

#### NOTE:

Resistance value changes according to temperature.

### Is the inspection result normal?

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

Α

В

С

D

Е

F

G

Н

SE

Κ

L

M

Ν

0

## **HEATED SEAT SWITCH INDICATOR**

#### < DTC/CIRCUIT DIAGNOSIS >

# HEATED SEAT SWITCH INDICATOR

**DRIVER SIDE** 

DRIVER SIDE : Description

INFOID:0000000007457308

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

DRIVER SIDE: Component Function Check

INFOID:0000000007457309

## ${f 1}$ .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:0000000007457310

# 1. CHECK HEATED SEAT SWITCH INDICATOR GROUND CIRCUIT

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

Heated 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:0000000007457311

# 1. CHECK HEATED SEAT SWITCH

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

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

## **HEATED SEAT SWITCH INDICATOR**

## < DTC/CIRCUIT DIAGNOSIS >

*For a digital tester.  NOTE:	А
Use a tester that can perform LED (light-emitting diode) measurement.	
<ul> <li>The polarity (+ and –) reverses when checking using an analog tester.</li> <li>Is the inspection result normal?</li> </ul>	D
YES >> INSPECTION END	В
NO >> Replace heated seat switch. Refer to <u>SE-152, "Removal and Installation"</u> .	
PASSENGER SIDE	С
PASSENGER SIDE : Description	
Illuminates the indicator that indicates the operating status of heated seat.	D
PASSENGER SIDE : Component Function Check	
1.CHECK FUNCTION	Е
Check that the related indicator lamp illuminates when heated seat switch is turned ON.	
Is the inspection result normal?	F
YES >> Heated seat switch indicator function is OK.  NO >> Refer to <u>SE-65</u> , " <u>PASSENGER SIDE</u> : <u>Diagnosis Procedure</u> ".	
PASSENGER SIDE : Diagnosis Procedure	G
1.CHECK HEATED SEAT SWITCH INDICATOR GROUND CIRCUIT	Н
<ol> <li>Turn ignition switch OFF</li> <li>Disconnect heated seat switch connector.</li> </ol>	
Check continuity between heated seat switch harness connector and ground.	
Heated seat switch	1
Continuity  Connector Terminal Ground	
M178 6 Existed	SE
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?	M
YES >> GO TO 3.  NO >> Replace heated seat switch. Refer to <u>SE-152, "Removal and Installation"</u> .	
3. CHECK INTERMITTENT INCIDENT	NI
Check intermittent incident.	N
Refer to GI-42, "Intermittent Incident".	
>> INSPECTION END	0
PASSENGER SIDE : Component Inspection	
	D
1.CHECK HEATED SEAT SWITCH	Р

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

Revision: 2014 October SE-65 2012 EX

## **HEATED SEAT SWITCH INDICATOR**

### < DTC/CIRCUIT DIAGNOSIS >

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

<sup>\*</sup>For a digital tester.

#### NOTE:

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

### Is the inspection result normal?

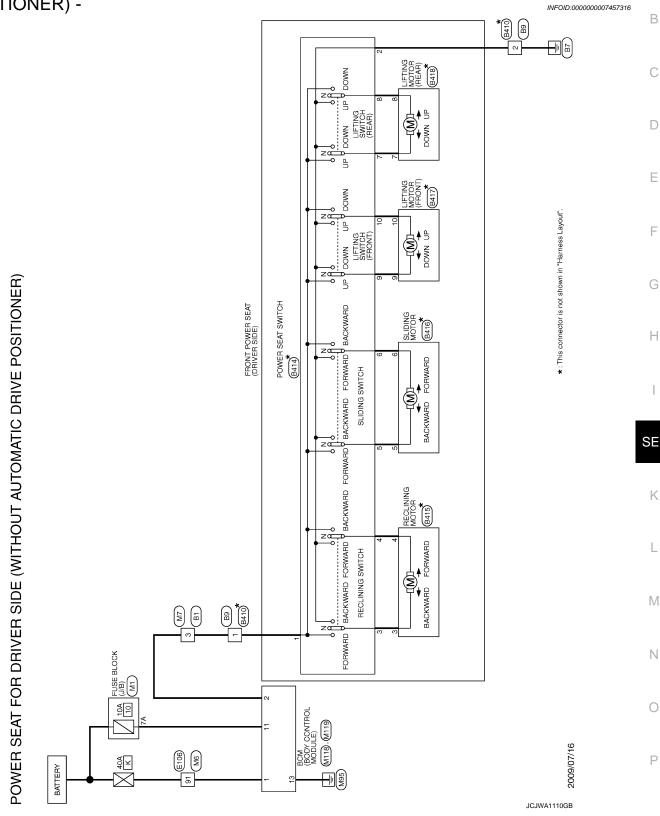
YES >> Heated seat switch is OK.

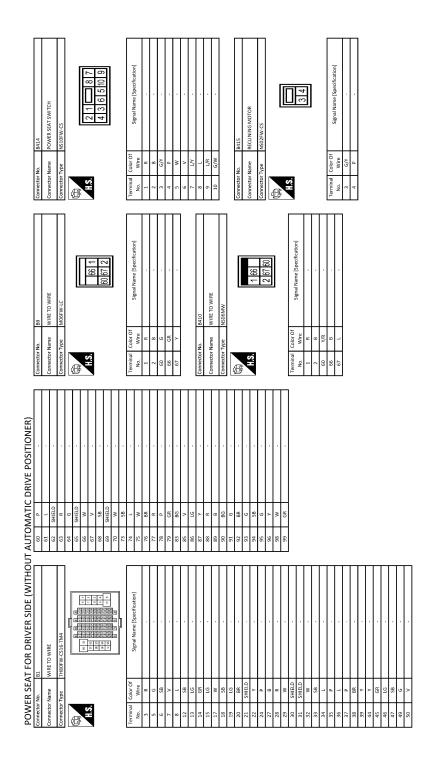
NO >> Replace heated seat switch. Refer to <u>SE-152, "Removal and Installation"</u>.

# **POWER SEAT**

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

Α





JRJWC9303GB

Connector No.   B416	Connector No. 18418	22	>		79		-[Without ICC]
O DECORATION OF THE PERSON OF	Ι,	23	g		79	>	- [With ICC]
IS MOTOR		24	Ь		80	88	
6098-0239	Connector Type NS02FW-CS	25	٠		81	ж	
	4	56	>		82	SB	
		27	≥		83	BG	
_ [] []		28	ŋ		84	9	
, , , , , , , , , , , , , , , , , , ,	]	31	BG		82	_	
200	1	33	¥		ya	٥	
[	0 /	33	٥		6	>	
]							
		;	-		ì	5	
		35	,		3	SHIELD	
Signal Name (Specification)	Terminal Color Of Signal Name (Specification)	36	SHIELD		5	>	
	Wire	37	>		92	>	
		38	RR		5	>	
		30	Ja		5	-	
			3		1	3 2	
		41	3		S.	SQ.	
		42	g		96	۵	
	Connector No. E106	43	BB		45	~	
	I	46	77.		8	o in in o	
LIFTING MOTOR (FRONT)	Connector Name WIRE TO WIRE	0,7	:		ñ	+	
		49	7		66	7	
NS02FW-CS	Connector Type TH80FW-CS16-TM4	20	Ь		100	Ь	•
		5	-		] T		
	L	16	,		1		
	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	54	BG				
	1 9 NE	22	BB		Conne	Connector No.	M
	0 E 0 C 0 C 0 C 0 C 0 C 0 C 0 C 0 C 0 C				I	Τ	
]		65	>		Jonno	Connector Name	FIISE BLOCK II/B)
270	N 7 1000 603 2 1	09	91		3		00 DECCEN (1) D)
0 0	100000000000000000000000000000000000000	63			Surger Surger	Contortor Tuno	Can teraposis
	2 K 10 C 10 K 10 K 10 K 10 K 10 K 10 K 10	10	٥			٦	45UDF W-IMZ
		62	SB			_	
		4			₫ T		
		63	3		多		]
	Terminal Color Of	64					
Signal Name [Specification]					Z	7	3A 2A 1A
	NO. WIFE	çq	9			•	
		99	œ				0 A 7 BA 5 A A
			1000		T		A4 NO NO N 4N
	- M	/q	SHIELD				
		68	>				]
	,		-		T		
	4 GK	69	97				
	_	70	≥		Terminal	0	40.00
		-	٩		2	Wire	ognalivame [openiication]
	+	<u> </u>	-		Ī	,	
	. BR 6	72	>		14	89	
	- Ja	73			^	L	
	+	6/	٥		5	1	
		74	BB	- [With ICC]	34	_	
	3		1	(parining)	I	1	
	12 BG .	74	-	- [Without ICC]	4A	d	
	-	32	٥	- Davish ICC	ž	>	
	4		,	- [with tee]	5	4	
	14 R	75	≥	- [Without ICC]	99 P	>	
				(30) 1000	ŀ	ļ	
	. CT	9/	8	- [with ICC]	Α/	¥	
	>	3/2	,	- (Mithout ICC)	8		
	>		-	[ANIBOREICE]	5	4	
	SB	77	۵	- [Without ICC]			
	8	 	-	facing and in the			
		77	œ	- [With ICC]			
	00	of the second	6	Database (CC)	T		
	┙	°/	NG	- [without Icc]	1		
	21 1	78	_	- [With ICC]			

A

В

С

D

Е

F

G

Н

SE

Κ

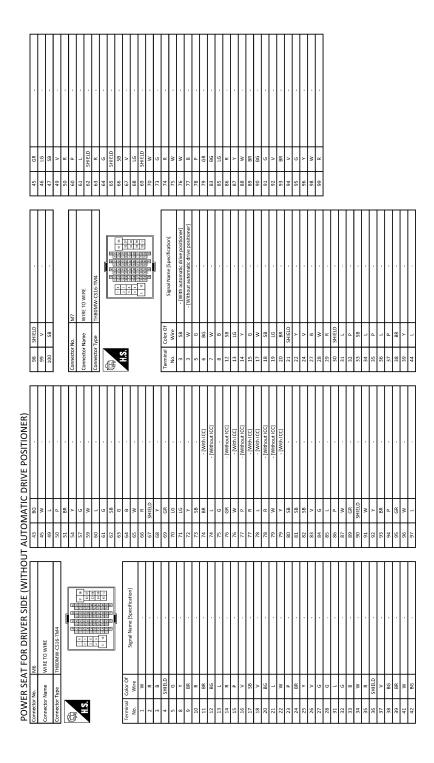
L

M

Ν

0

JRJWC9304GB



JRJWC9305GB

		١
1	Г	٦

В

С

D

Е

F

G

Н

SE

Κ

 $\mathbb{N}$ 

Ν

0

Р

POWER SEAT FOR DRIVER SIDE (WITHOUT AUTOMATIC DRIVE POSITIONER)

	I		E	P)	ſ
Signal Name [Specification]		BAT (F/L)	POWER WINDOW POWER SUPPLY(BAT	POWER WINDOW POWER SUPPLY(RAP)	
Color Of	MIN	Α	W	γ	ľ
Terminal	NO.	1	2	3	

M119   M119	11 13 14 15 17 18 19	4 5 7 0 8		П		П	MA119 REM (BODY CONTROL MODULE) RS16FW-CS
---	----------------------	-----------	--	---	--	---	---

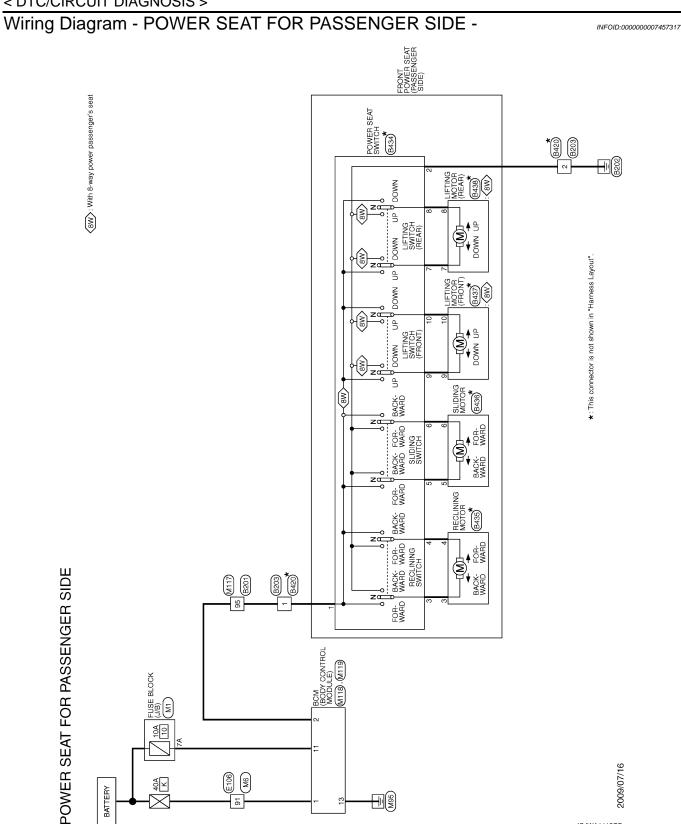
	BCM (BODY CONTROL MODULE)	s	5 7 <u> </u>	
MILIS	BCM (BOD	NS16FW-CS	4 ==	
tor No.	tor Name	tor Type	76	

NS16FW-CS	4 5	11	
ctor Type	ς.		

Signal Name [Specificatio		INTERIOR ROOM LAMP POWER	PASSENGER DOOR UNLOCK O	STEP LAMP CONT	ALL DOOR, FUEL LID LOCK OF	DRIVER DOOR, FUEL LID UNLOCH	REAR DOOR UNLOCK OUTF	BAT (FUSE)	GROUND	PUSH-BUTTON IGNITION SW I	ACCIND	TURN SIGNAL RH (FRON'	TURN SIGNAL LH (FRONT	
Color Of	Wire	91	_	Y	^	9	BR	В	8	W	γ	W	BG	
Terminal	No.	4	5	7	8	6	10	11	13	14	15	17	18	

Revision: 2014 October

JRJWC9306GB



JCJWA1115GB

::-	9	Т	#\$ 33	Terminal   Color Of   Signal Name   Specification     3	
:::	Connector Name W/IRE TO W/IRE	Т	H.S. 1 66 2 67 60	Terminal   Color Of   Signal Name   Specification     No.   Wive	
- ::	72 W	+	810 V	1	
POWER SEAT FOR PASSENGER SIDE	Connector Name WIRE			Ferminal   Color Of   Signal Name   Specification	
					JRJWC9307GB

Α

В

С

D

Е

F

G

Н

SE

Κ

L

M

Ν

0

Ρ

- R R	98 SHIELD	- 100 d 001		Connector No. M1	Omera Name Of CO. (1/0)		1		34	5	8A   7A   6A   5A   4A			Terminal Color Of		_	2A G	+	5A V -	╀	7A R -	8A L		Connector No Mc		Connector Name WIRE TO WIRE	Connector Type TH80MW-CS16-TM4								- 1-	nal	No. Wire Ogical value (Specification)	1 W .	2 R -	3 B	4 SHELD -	
						,		, .				,						-[with led]	- [With ICC]	- [Without ICC]	- [With ICC]	- [Without ICC]	- [Without ICC]	- [With ICC]	- (With ICC)	- [Without ICC]	- [With ICC]	,	,													
43 BR	Н	49 L	Н	54 BG	H	H	+	63 W	64 B		+	£	× 9	╀	Н	_	+	74 DK	75 6	╀	Н	76 Y	+	77 P	+	79 L	Н	+	+	+	7	84	+	+	+		90 SHIELD	91 W	92 Y	93 V	94 16	H
No. E106	Name WIRE TO WIRE	Т							Color Of Signal Name (Specification)	a		, , ,	99	GR GR			BG .					۸	. 88	> 0a		^	. 9		· ·	> :		9		M		R .	. 9	SHIELD .	^		. BG	, .
Connector No.	Connector Name	Connector Type	4	<b>E</b>	Ź				ler	No.		2	ς «	- 5	80	6	01 ;	11 5	13	14	15	16	17	18	212	22	23	24	52	q7	27	28	31	32	33	34	32	36	37	38	39	41
POWER SEAT FOR PASSENGER SIDE Connector No.   B437			]											Γ																												

JRJWC9308GB

91 V 9 92 C 94 C 94 C 94 94 95 C 95 95 C 95 95 C 95 C	
Charter   Char	
72 Y 73 SB 174 SB 174 SB 174 SB 175 SB 174 SB 175 S	
POW/FR SEAT FOR PASSENGER SIDE  10 R8 11 BR 12 V 13 BR 14 BR 15 BR 16 C 17 BR 18 BR	
	JRJWC9309GB

Α

В

С

D

Е

F

G

Н

SE

Κ

L

M

Ν

0

Р

POWER SEAT FOR PASSENGER SIDE	DRIVER DOOR, FUEL LID UNLOCK OUTPUT	REAR DOOR UNLOCK OUTPUT	BAT (FUSE)	GROUND	PUSH-BUTTON IGNITION SW ILL GND	ACCIND	TURN SIGNAL RH (FRONT)	TURN SIGNAL LH (FRONT)	INT ROOM LAMP CONT
R SEA	9	BR	Я	В	W	γ	W	98	^
POWE	6	10	11	13	14	15	17	18	19

JRJWC9310GB

## **LUMBAR SUPPORT**

Wiring Diagram - LUMBAR SUPPORT SYSTEM -

INFOID:0000000007457318

С

Ε

D

Α

В

F

G

Н

SE

K

L

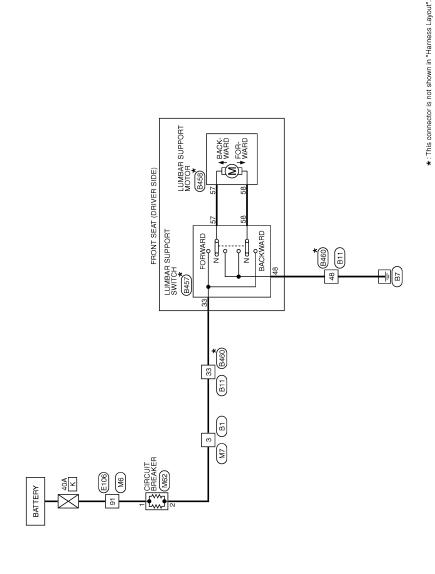
M

Ν

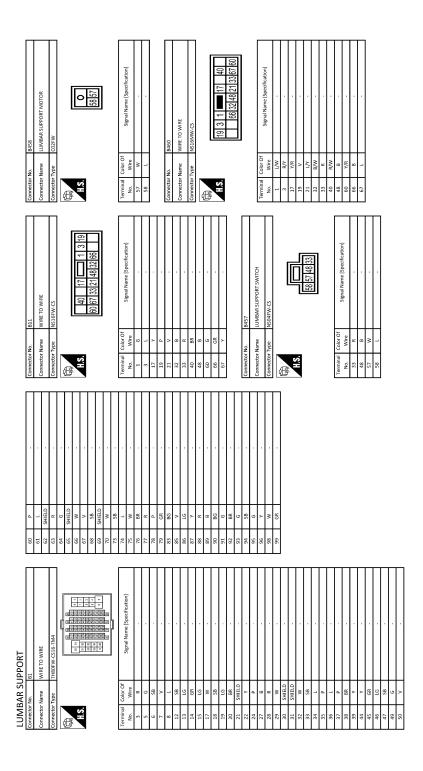
0

2008/08/28

JCJWA0755GB



**LUMBAR SUPPORT** 



JRJWC9311GB

### **LUMBAR SUPPORT**

Mathematical particulary   Mathematical partic			I Muniori (CC)	- (Without ICC) - (Without ICC
No.   No.	<del> </del>	+++++	8 W W W W W W W W W W W W W W W W W W W	G G G G G G G G G G G G G G G G G G G
Sector Name   Wirke To Wirke	M6 WIRE TO WIRE TH80MW-CS16-T			
Note   Wife TO Wife   This Part   This P	SHIELD L L P P Or No.  or Name			N
Sector Name   WIRE TO WIRE   Signal Name Specification	97 99 99 100 Connectt	H.S.	Terminz No. No. 1 1 2 2 2 3 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4	13 16 17 18 17 18 20 20 20 20 20 20 20 20 20 20 20 20 20
NIRE TO WIRE   NIRE TO WIRE				
Net	H H H H H H H H H H H H H H H H H H H	SHIELD G W	<del></del>	88 88 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
Color Of   Color Of	45 49 49 50 51 57 57 59 60 60 60	65 65 66 68 68 68 68	71 77 77 75 75 75 75 75 75 75 75 75 75 77 77	78 79 79 80 81 81 83 84 84 84 84 84 84 86 87 89 89 89 89 89 89 89 89 89 89 89 89 89
ector	WIRE TO WIRE T	Signal Name [S	2	BG   BG   C   C   C   C   C   C   C   C   C
- 흥  흥   (발 🔻	Connector No. Connector Typ	Te e	+++++++++++++++++++++++++++++++++++++++	<del></del>

Α

В

С

D

Е

F

G

Н

SE

Κ

L

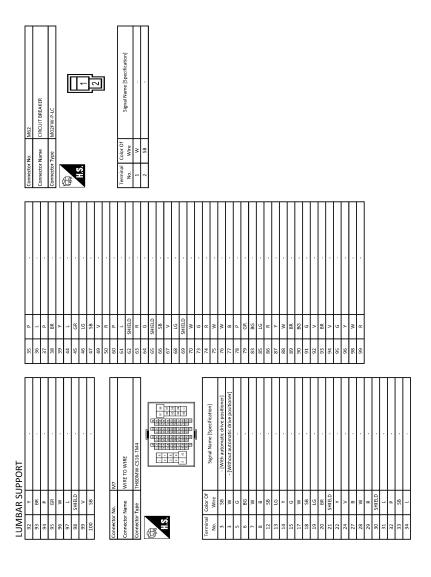
M

Ν

0

JRJWC9312GB

Ρ



JRJWC9313GB

Wiring Diagram - REAR SEATBACK RELEASE CONTROL -

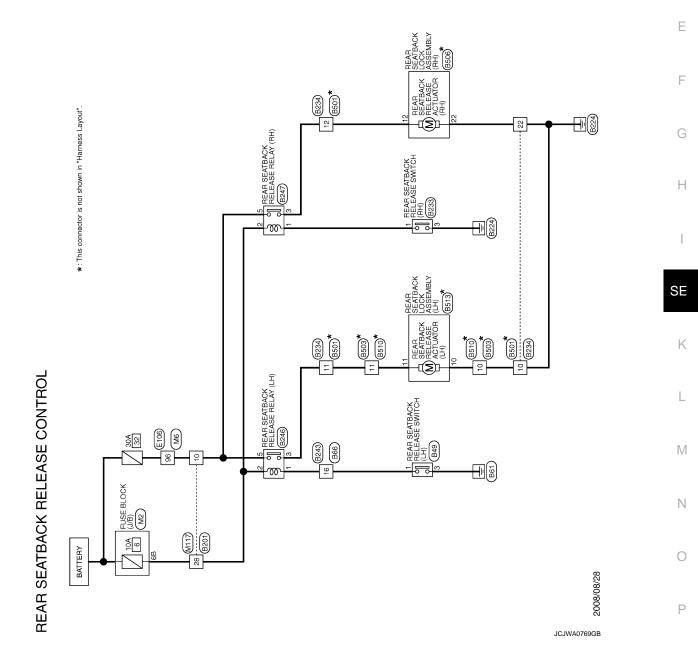
INFOID:0000000007457319

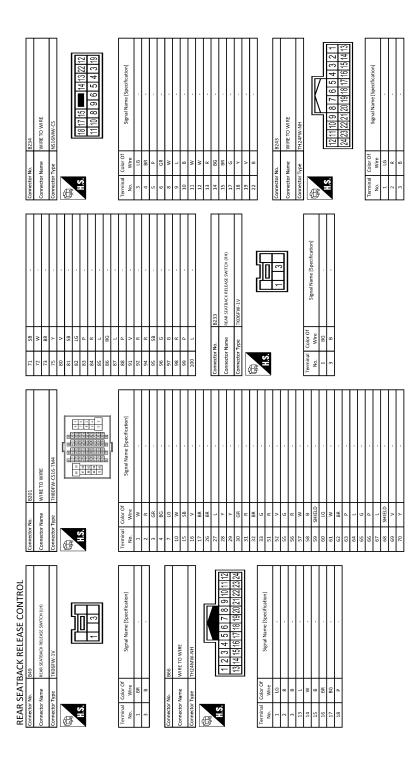
Α

В

C

D





JRJWC9325GB

	10 8 -	11 W -			Connector No. B513	Connector Name REAR SEATBACK LOCK ASSEMBLY (LH)		Connector Type NS04FW-CS	ά				8 9 10 11			Terminal Color Of		t		$^{+}$	10 8			ſ	Connector No. E106	Connector Name WIRE TO WIRE	Τ	Connector Type TH8UFW-CS16-TM4			T.S.					Terminal Color Of Sinnal Name (Specification)	g,	1 R	4	3 8	4 GR -	5 GR .	· .		10 BG	SB	12 BG .			14 R	
	+	+	+			11 V/W			Connector No. B506	Connector Name REAR SEATBACK LOCK ASSEMBLY (RH)	Connector Lines MCOADM CC	ı	<b>E</b>			40 44 00 40			1	0-106	Signal Name [Specification]	+	$^{+}$		1/8	22 B			8510	Connector Name WIRE TO WIRE	Connector Tune NS10MW-CS	ı	₫ <u>E</u>		1 3 8 11	7 4 5 9 6 10	9			lal		1 LG/8	2 LG .	3 GR	GR/B	GR/R	M/1			$\dashv$	
	Connector No. B501	Connector Name WIRE TO WIRE	Т	Connector type NS16FW-C5	ģ		15	L C 77 7	19 3 4 5 6 9 8 10 11	11		-	Terminal   Color Ot   Signal Name [Specification]	t	H	t	t	╀	ŀ	$^{+}$	$^{+}$	. M/W II	+	$^{+}$	+	+	+	18 GK/8	$^{+}$	22 B		- Name of the second		Connector Name WIRE TO WIRE	Connector Type NS10FW-CS	ſ		118 12 13 14	]	10 6 9 5 4 2				Terminal Color Of Street Manual Constitution		H	2 B/W	t	90	4 6/8	
REAR SEATBACK RELEASE CONTROL	+	+	15 GR	+	$\dashv$	18 L		1	Connector No. B246	Connector Name REAR SEATBACK RELEASE RELAY (LH)	Connector Time MACONEL MAIL IC	1		8	Į.	2				0.106	lerminal Color Of Signal Name [Specification]	t	+	$^{\dagger}$	+			T. C.	Т	Connector Name REAR SEATBACK RELEASE RELAY (RH)	Connector Tyrue MSQ2EL-M2-1C	1		3	<u></u>					Te		1 BG .	$\dashv$	3 W	╀	1					

Ν

M

Α

В

С

D

Е

F

G

Н

SE

Κ

L

0

JRJWC9326GB

Ρ

																						•			- [With ICC]	- [Without ICC]		- [Without ICC]	- [With ICC]	- [Without ICC]	- [With ICC]	-[With ICC]	- [without ICC]	[winiparies]	- [With ICC]											,			
	BR	w	BG	BG	W	-	a 8	š >	. 0	*	_	9	SB	9	В	W	В	SHIELD	٨	GR	91	97	٨	SB	BR		<sub>9</sub>	æ:	3	۵.	œ	- 6	4 %	3	> 8	2 2	93	93	>	U		Ь	Μ	GR	SHIELD	*	>	BR	Ь
	33	41	42	43	45	49	20	10 25	22	29	09	61	62	63	64	9	99	-67	89	69	70	7.1	7.5	73	74	74	72	9/	9/	1	-	20 P	0 2	6/	£ 8	8 3	i :	2	83	84	82	98	87	68	96	91	92	93	94
				M6	WIRETOWIRE		TH80MW-CS16-TM4	E	8 55 55 56 57 57 57 57 57 57 57 57 57 57 57 57 57	S 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	6 19 10 10 10 10 10 10 10 10 10 10 10 10 10			Signal Name [Specification]	office teams [observed]										•				•							*												
	SS.			r No.	r Name	Π									_	Wire	Μ	~	8	SHIELD	9	٨	BR	R	BR	8	_	٠	-	> ;	gg I	> 8	8 -	-	3 4		ž :	-	>	g	9	٦	9	8	×	æ	SHIELD	>	BG
	9B			Connector No.	Connector Name		Connector Type	Œ	<b>*</b>	2					Terminal	No.	1	2	3	4	2	8	6	10	11	12	13	12	12	19	12	2 2	31	17	77	52	47	2	92	27	28	31	32	33	34	32	36	37	38
ſ	Т		П	Г	П	Т	Т	Т	Т	т	Т							Г						П	$\neg$	Т	٦		Γ	Т		Т	٦								ı	_		Т	Т	Т	Г	Г	П
-	- [With ICC]	- [Without ICC]	- [Without ICC]	- [With ICC]	- [Without ICC]	- [With ICC]	- [Without ICC]	- [will lee]																						M2	FUSE BLOCK (J/B)	SO MICHOLINA	NSTOPW-CS			48 38		98 88 78 68 58				)f							
=	<b>*</b>	٠.	Ь	ď	BR .	7		- 97	╁	╀	┝	. 9			Н	GR .	SHIELD .	M	·	۰.	. 91	. BG		Н	SHIELD -	$\dashv$						Ī	1				200	7868				Color Of	Wire			F	H	- a	
=	W	76 Y - [Without ICC]			BR .	7			╁	H	┝		. 1 58	Н	Н		O6 SHIELD	. W 16	92 Y -	93 V			- d 96	Н	1	$\dashv$	100 P			Connector No. M2	Connector Name FUSE BLOCK (J/B)	Connection Time	1	₫.	_	1. S	200	7868						38 Р	H	╁	H	L	88 R
	<b>*</b>	٠.	Ь	ď	BR .	7		- 97	╁	H	┝		. 1 58		Н	Н	06	. 91		H				Н	1	$\dashv$	4					Ī	1	đị	_		200	98/88/78/68				Color Of	Wire	H	H	╁	89	78	H
=	M 26 W	. Y 97 . V	- A 77 P	V 77 R	. 78 BR	1 82 · · · · · · · · · · · · · · · · · ·	J 6/2	- 6/ U8	γ	. 82	. 83	. 84	. BG		. 87		06 - 9	SHIELD . 91	۸ - 92	BR - 93	BG - 94	. w	96 . 9	- 97		- 1	. 100		B6	BR Connector No.	W Connector Name	our groups our of	adki incomingo	ac :	Martin .	S		98 88 78 68	SHIELD	4	. 91	W Terminal Color Of	R - No. Wire	У	8 48	BR - [With ICC] 58	L - (Without ICC) 68	6 - [With ICC] 78	W - [Without ICC] 8B

JRJWC9327GB

#### < DTC/CIRCUIT DIAGNOSIS >

																																1																		
																												- [Without BOSE audio]	- [With BOSE audio]	- [Without BOSE audio]	- [With BOSE audio]																			
97	8	œ	*	SHIFID	>	> >	- 6	S8	W	9	W	>	SB	>	а	ď	-	BG	-	۵	>	9	9	W	9	>	BR	Ь	>	7	SB																			
64	65	99	67	8	69	70	2 7	71	72	73	75	80	81	82	83	84	82	98	87	88	91	95	94	95	96	26	86	66	66	100	100																			
SS   GR									M117	WIRETOWIRE	wine to wine	TH80MW-CS16-TM4	15				88 89 89 89 89 89 89 89 89 89 89 89 89 8	a 88 0 89 0 89 0 89			[actions] James County James 2	official value (openication)																												
S S	Μ	٦	SHIELD	>	ď	3			No.	Name	allipa	Type									Color Of	Wire	٦	ŋ	GR	SB	>	Μ	SB	>	BR	BR	91	٨	٨	^	æ	BR	9	Ж	7	^	8	ď	ŋ	SHIELD	>	91	0.0	ž
95	96	- 64	86	g	100	Y Y			Connector No.	Connector Name	Online	Connector Type		Œ		Ż					Terminal	No.	1	2	3	4	7	10	15	16	17	56	27	28	29	30	31	32	33	51	52	55	95	57	28	59	09	61	:	79

Α

В

С

D

Е

F

G

Н

1

SE

Κ

.

L

Λ

Ν

JRJWC9328GB

Ρ

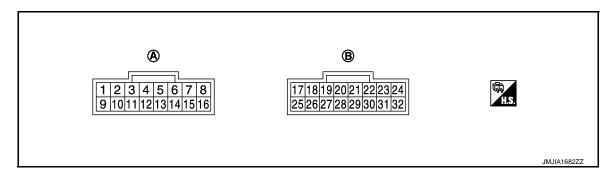
< ECU DIAGNOSIS INFORMATION >

# **ECU DIAGNOSIS INFORMATION**

## REAR SEAT BACK POWER RETURN CONTROL UNIT

Reference Value

**TERMINAL LAYOUT** 



A. B227

B. B226

#### PHYSICAL VALUES

Rear seat back power return control unit

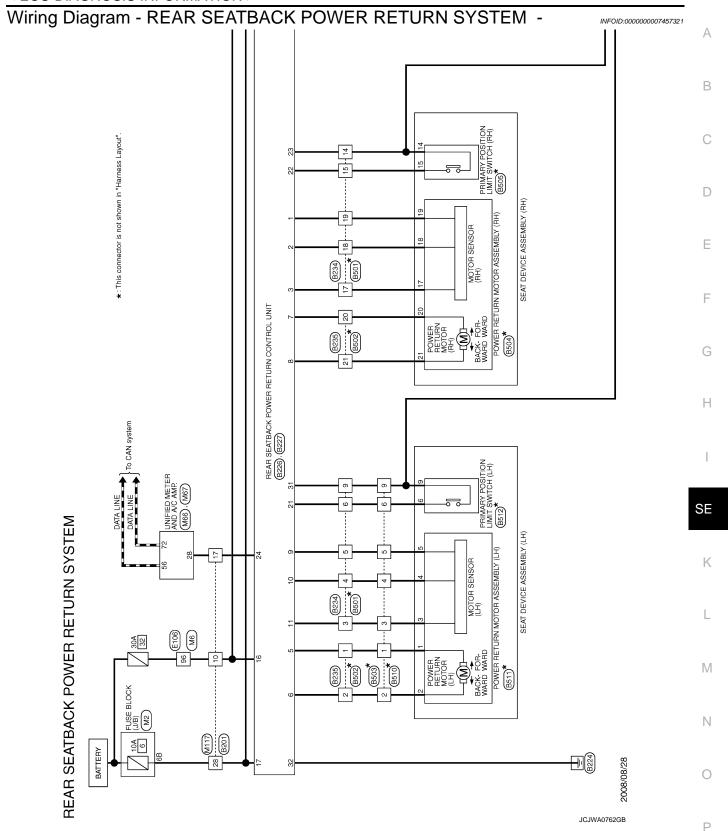
	ninal No. re color)	Description		Condition	Voltage (V)
(+)	(–)	Signal name	Input/ Output	Condition	(Approx.)
1 (V)	Ground	Ground (Motor sensor RH)	_	_	0
2 (Y)	Ground	Motor sensor (RH) input signal	Input	When the power return motor (RH) is operated	(V) 6 4 2 0 10 ms
				When the pinch occurs	The above pulse width should be expanded
3 (G)	Ground	Motor sensor (RH) Power supply	Input	When the power return motor is operated	Battery voltage
5 (GR)	Ground	Power return motor (LH) back- ward signal	Output	When the power return motor (LH) performs reverse operation	Battery voltage
(OIV)		ward Signal		Other than the above	0
6 (L)	Ground	Power return motor (LH) forward signal	Output	When the power return motor (LH) performs return operation	Battery voltage
(L)		waru signai		Other than the above	0
7 (SB)	Ground	Power return motor (RH) back-	Output	When the power return motor (RH) performs reverse operation	Battery voltage
(30)		ward signal		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
(N)		waru siyildi		Other than the above	0
9 (P)	Ground	Ground (Motor sensor LH)	_	_	0

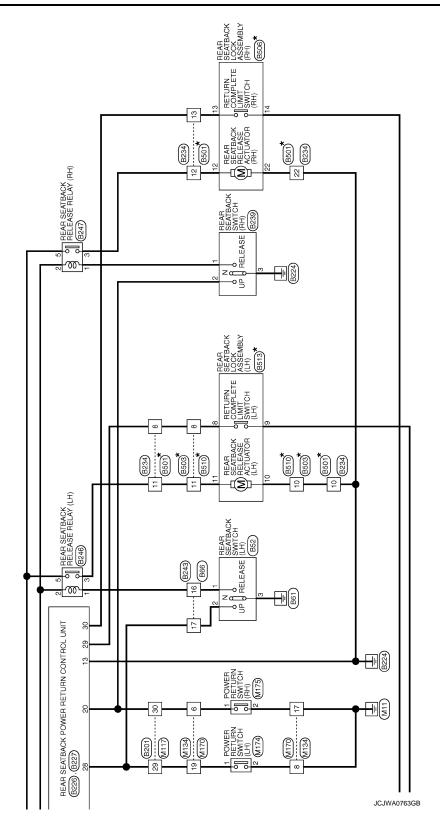
#### < ECU DIAGNOSIS INFORMATION >

	ninal No. re color)	Description		Condition	Voltage (V)
(+)	(-)	Signal name	Input/ Output	Condition	(Approx.)
10 (BR)	Ground	Motor sensor (LH) input signal	Input	When the power return motor (LH) is operated	(V) 6 4 2 0 10 ms JMKIA0070GB
				When the pinch occurs	The above pulse width should be expanded
11 (LG)	Ground	Motor sensor (LH) Power supply	Input	When the power return motor is operated	Battery voltage
13 (B)	Ground	Ground (power)	_	_	0
16 (W)	Ground	Battery power supply (power)	Input	_	Battery voltage
17 (Y)	Ground	Battery power supply (system)	Input	_	Battery voltage
20 (P)	Ground	Power return switch (RH) or rear seatback switch (RH) in	Input	When pressing the power return switch (RH) or rear seatback switch (RH) in UP direction	0
, ,		UP direction input signal		Other than the above	5
21 (GR)	Ground	Primary position limit switch (LH) input signal	Input	When the sector gear (LH) is in the initial position (other than low power consumption mode)	Battery voltage
				Other than the above	0
22 (BR)	Ground	Primary position limit switch (RH) input signal	Input	When the sector gear (RH) is in the initial position (other than low power consumption mode)  Other than the above	Battery voltage
23				Other than the above	-
(BG)	Ground	Ground (limit switch RH)	_	_	0
24 (BR)	Ground	Vehicle speed signal (8-pulse)	Input	When vehicle speed is approx.40 km/h (25MPH)	NOTE:  Maximum voltage may be 12 V due to specifications (connected units)  (V)  6 4 2 0  ***20ms  SKIA6649J
28 (LG)	Ground	Power return switch (LH) or rear seatback switch in UP direction input signal	Input	When pressing the power return switch (LH) or rear seatback switch in UP direction	0
				Other than the above	5
29 (W)	Ground	Return complete limit switch (LH) input signal	Input	When the rear seatback (LH) is in the return completion position (other than low power consumption mode)	Battery voltage
				Other than the above	0

#### < 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





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

#### < ECU DIAGNOSIS INFORMATION >

Control No.	Connector Name Connector Type H.S.	П	Connector		****					Mo	
100   10   10   10   10   10   10   1	Connector Name Connector Type H.S.				201	7.1	28		Connecto	NO.	8227
1   1   1   1   1   1   1   1   1   1	Connector Type H.S.		Connector		VIBE TO WIBE	7.2	Μ		Connector	Name	BEAR SEATBACK POWER RETURN CONTROL UNIT
Trigger by the property of t	Connector Type					73	BR				
1   1   1   1   1   1   1   1   1   1	H.S.		Connector		H80FW-CS16-TM4	75	<b>&gt;</b>		Connecto	. Type	SEA16FW
	·S. I		[			80	^				
1   2   3   4   4   4   4   4   4   4   4   4	H.S.				S 69 S	81	SB		E		
1   2   3   4   4   4   4   4   4   4   4   4	S.				- 9 - 9 - 9 - 9 - 9 - 9 - 9 - 9 - 9 - 9	82	19				
			Š		2 L S S S S S S S S S S S S S S S S S S	8			201		2 6 7
		0			73 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日	8 8			  -		000
Control   Cont		1 2 3			10 10 10 10 10 10 10 10 10 10 10 10 10 1	5 8	-		1		1011
Figure   F						ŝ	1	,			
Thinking   China   C					I S N Z	86	BG	,			
1			ŀ			87	-		_		
1		oSjemeN leneiS	_	Color Of	Signal Name (Specification)	88	Ь		Terminal		Signal Name (Specification)
1   1   2   2   8   8   8   8   8   8   8   8	_	del ampanombre	No.	Wire	owner of the concerning	91	>		No.	Wire	ognarivanie [operination]
2   6   6   6   6   6   6   6   6   6	1 BF		1	×		92	æ			^	GND (RH SENSOR)
1   1   2   3   6   6   6   7   7   6   7   7   6   7   7	H		2	æ		94	œ		2	>	MOTOR SENSOR (RH)
10    W   Comparison   Sign   Comparison   Sign   Comparison   Color of the Color	H		м	S.		95	88		_	o	POWER SUPPLY (RH SENSOR)
15   16   16   17   16   17   16   17   16   17   16   17   16   17   16   17   16   17   18   18   18   18   18   18   18			4	BG		96	9		2	GR	BACKWARD
15   58   58   79   70   70   70   70   70   70   70			7	97		97	<sub>0</sub>		و	_	FORWARD
15   54   54   54   54   54   54   54	onnector No.	998	10	*		86	~		7	SB	BACKWARD
15   V   V   V   V   V   V   V   V   V		Г	15	SB		66	_		80	œ	FORWARD
17   8   8   10   11   12   13   14   15   15   17   13   13   14   14	onnector ivame		16	>		100	_		6	d	GND (LH SENSOR)
2   2   2   2   2   2   2   2   2   2	onnector Type	Г	17	BR					101	BR	MOTOR SENSOR (LH)
1   2   3   5   6   7   8   9   10   11   11   12   2   4   5   6   7   8   9   10   11   11   12   2   4   5   6   7   8   9   10   11   11   12   2   4   5   6   7   8   9   10   11   11   12   2   4   5   6   7   8   9   10   11   11   12   2   4   5   6   7   8   9   10   11   11   12   12   12   12   12			26	BR					11	91	POWER SUPPLY (LH SENSOR)
3	Œ		27	1		Connector No		91	13	80	GND (POWER)
1   2   4   5   7   8   9   10   11   2   3   4   5   7   8   9   10   11   12   3   4   5   7   8   9   10   11   12   3   4   5   7   8   9   10   11   12   3   4   5   7   8   9   10   11   12   3   4   5   7   8   9   10   11   12   3   7   7   7   7   7   7   7   7   7	Į		28	>			Г	The County of the Prince of th	16	Μ	BAT (POWER)
	ė	7 8	59	٨		N IONALINA	,	N JEMIBACK FOWER RETORN CONTROL OWN			
		2 20 20	30	GR		Connector Ty		\16FW			
23		19/20/21/22	31	æ		4			Connecto,	. No.	B234
Color Of   Signal Name [specification]   S1			32	BR	•	厚			Connector	- Name	WIRETOWIRE
Value   Signal Name   Specification   22			33	9	•	ŧ				2000	
Wife         Sg         V         Transmiss         Transmiss         Color of D         Signal Name [Specification]         Transmiss         Transmiss         Color of D         Signal Name [Specification]         Transmiss         Transmi		o) omeN leans	51	æ		Ĉ		17 20 21 22 23 24	Connector	· Type	NS16MW-CS
1	_	del ampungie	52	^				00000	u		
S	1 10		22	9				75   5   67   67   97			
1	$\vdash$		26	œ							
1	H		57	M					Ĉ.		14
W   W   Signatural State   Sig	13 L		28	8		_	olor Of	(100 mm) 100 mm			8 9 6 5 1 3
B   B   C   C   C   C   C   C   C   C	H		59	SHIELD			Wire	oignal name [opecification]			0 0 0 0 0
Sign	H		09	97		17	<b>,</b>	BAT (SYSTEM)			
RS   Part   RS   RS   RS   RS   RS   RS   RS   R	┞		61	>		20	_	FLIP UP SW RH			
P   P   PRINALRY POSTITON L/S (RM)   No.   Wire	H		62	86		21	eg eg	PRIMARY POSITION L/S (LH)	Terminal	Color Of	
Color   Colo	╀		63	٩		22	88	PRIMARY POSITION L/S (RH)	Š	Wire	Signal Name [Specification]
C   C   C   C   C   C   C   C   C   C			64	ŀ	4	23	g	GND (RH I /S)	<u></u>	9	
P   C   C   C   C   C   C   C   C   C			99	9		24	88	SPEED 8P	4	BR	,
L   29   W   RETURN COMPLETE (JS (LH)   6   5   5   5   5   5   5   5   5   5			99	۵		38	2	HIMSdidid		۵	
SHIELD			29	-	,	24	3 3	RETURN COMPLETE L/S (I H)	9	. US	,
V   V   O   O   O   O   O   O   O   O			89	CHIFID		Ç.		RETURN COMPLETE I /S (RH)	000	×	
V CONTRICTOR 1			69	>		<u>~</u>	<del> </del>	(S/IHI/GN)	0	-	
			S	,			, ,	(CA112) CHO	,   ;		

Α

В

С

D

Е

F

G

Н

SE

Κ

L

M

Ν

0

JRJWC9320GB

Р

REAR SEATBACK POWER RETURN SYSTEM	Connector No.	Connector No.	8247	Connector No.	B502	
+	Connector Name WIRE TO WIRE	Connector Name	REAR SEATBACK RELEASE RELAY (RH)	Connector Name	WIRE TO WIRE	
Н	Connector Type TH24FW-NH	Connector Type	MS02FL-M2-LC	Connector Type	M04FW-LC	
$\dashv$	d	q		q		
17 6	<b>[</b> ]	居	3	图	[	
7 ×	4	S II	<u> </u>	Š	60	
23 R			2		7.1 70	
┨	24 23 22 21 20 19 18 17 16 15 14 13				12	
Connector No. B235						
Connector Name WIRE TO WIRE	Terminal Color Of Signal Name (Specification)	Terminal Color Of	Signal Name [Specification]	Terminal Color Of	Signal Name [Specification]	
Commoder Dans	t	+		+		
7	+	1 .		$^{+}$		
₫.	+	+		+		
	20 ·	+		+		
100	+	2		21 LG/8		
[20]21	+					
F 0	$\dashv$					
117	$\dashv$	Connector No.	B501	Connector No.	B503	
]	17 LG .	Connector Name	WIRE TO WIRE	Connector Name	WIRETOWIRE	
	18 L -					
To To		Connector Type	NS16FW-CS	Connector Type	NS10FW-CS	
		ą.		ą.		
4	Connector No. B246	李		A ST		
	Connector Name REAR SEATBACK RELEASE RELAY (LH)	SH	12 22 13 14	S	11 8	
20 28	Connected Time		٦		₫.	
4	1		19 3 4 5 6 9 8 10 11		10 6 9 5 4 2	
Connector No. B239	3					
Connector Name DEAD SEATBACK SMITCH (PH)		le l	Simal Nama (Sparification)	Terminal Color Of	Simal Nama (Spacification)	
		No. Wire	December 1960	No. Wire	officer results [observed on a	
Connector Type TK06FW-1V	<b>\</b>	3		1 R		
		4 G/B		2 R/W		
		5 G/R	,	3		
	Terminal Color Of Class (Cassification)	9 9		4 G/B		
	No. Wire olgularivanie jopeunicationi	8		5 G/R		
1 2 3	1 BR .	6		9 9		
16171	2 BG	10 B		H		
	3 W	_		┝		
	H	╁		10 B		
Terminal Color Of		H		11 V/W		
No. Wire Signal Name [Specification]		14 L/8				
1 86 .		Н				
2 P						
3 B .		18 GR/B				
		19 GR/R				
		22 B				

JRJWC9321GB

Α

#### < ECU DIAGNOSIS INFORMATION >

infration of the state of the s	В
Signal Name (Specification)  Signal Name (Specification)  Signal Name (Specification)  Signal Name (Specification)	С
Connector No. 1851.  Connector Name 1858.  Connector Name 1859.  Connector Name 1859.  In 10 Wire 10 10 10 10 10 10 10 10 10 10 10 10 10	D
	E
Signal Name   Specification	F
15098073870 16098073870 1502279	G
Connector No.  Connector Name Connector Type  1	Н
Signal Name   Specification	
Sign Sign Sign Sign Sign Sign Sign Sign	SE
Connector No.  Connector Name Connector Name Connector Name 13 V. 14 L/B 13 L/B 14 L/B 14 L/B 15 B 16 Connector No. Connector No. 16 L/B 17 L/B 18 L/B 18 L/B 19 L/B 19 L/B 19 L/B 19 L/B 19 L/B 11 W	К
	L
REAR SEATBACK POWER RETURN SYSTEM	M
REAR SEATB Commerciar Name No. Wive No. Wive No. U. Commerciar Name Commerciar	N
REAR Connector Connector (Connector No. 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	0
	JRJWC9322GB
	310110302200

Revision: 2014 October SE-93 2012 EX

																			- [With ICC]	- [Without ICC]		- [Without ICC]	- [With ICC]	- [Without ICC]	- [With ICC]	- [Without ICC]	- [Without ICC]	- [With ICC]					10										
43 BG	╀	ł	90 P	51 BR	× 1	9 M	H	61 G	$\dashv$	+	64 B	╁	67 SHIELD	Н	+	+	77 (6	ľ	H	74 L	H	76 GR	+	77 P	78 1	78 R	W 62	٧ ٧	$^{+}$	╁	83 V	84 G	+	+	+	+	£	91 W	Н	4	+	95 96 W	M 96
Me		WIRE TO WIRE	TH80MW-CS16-TM4		_	2 23 23	8 8	11 8			Signal Name [Specification]																																
Connector No.		Connector Name	Connector Type	ą	唐	H.S.					Terminal Color Of	t	2 R	3 B	돐	2	> 8 ====================================	+	F	12 BG	13 L	14 R	+	16 V	H	20 BG	21 L	22 W	╀	$\vdash$	26 v	_	28 G	+	+	+	34 W	┪	FS	$\dashv$	+	+	41 W
- [Without ICC]	- [With ICC]	- (Without ICC)	- [With ICC]																									F	03 03	חמחמח			pecification]		T						,		
78 BR	╀	7 62	γ 62	Н	+	83 BG	H	1 58	$\dashv$	+	99 GR	t	H	93 V	+	7	9 20	3	t	100 P			nector No. M2	nector Name FUSE BLOCK (J/B)	nnector Type NS10FW-CS			HS 4838 L		Janaa			0	Wire	+	+	58 BG	· V	Н	$\dashv$	98 SB		
-	╀	1 62	γ 62	H	+	+	H	1 58	$\dashv$	+	$^{\dagger}$	t	H	Н	+	+	+	t	t	. 100 P			- Connector No. M2	Connector Name FUSE BLOCK (J/B)	- Connector Type NS10FW-CS		<b></b>			Jacks			Il Color Of	Wire	+	48	58		- [With ICC] 7B P	88	86	- [Without ICC]	- [with ICC]

JRJWC9323GB

Α

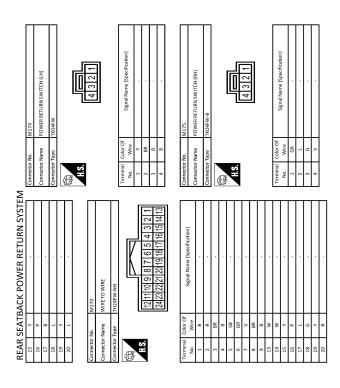
Ρ

### < ECU DIAGNOSIS INFORMATION >

REAR SEATBACK POWER RETURN SYSTEM

Ex toucio]  auctico]  auctico]  auctico]  auctico]  auctico]  auctico]	В
	С
73 W 75 W	D
	Е
WIR TO WIRE  THEODAWA CS.G. THA  THEODAWA CS.G	F
8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	G
Connector Connec	Н
NAST  TH32PW-NH  Signal Name ISpecification    NAME ESSISSISSISSISSISSISSISSISSISSISSISSISSI	SE
Connector No.   Mission   Connector Name   UNIF   Connector Name   Conn	К
	L
HACK TO WE LINE  NINETED METTER AND A/C AM  HACKWANNICTION SIGNAT  SIGNAI NATURE SIGNAI  NON-MANUAL MODE SHIFT  NO	М
NEW   STATE	N
	0
	JRJWC9324GB

**SE-95** Revision: 2014 October 2012 EX



JRJWC9339GB

Fail-safe

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

### < ECU DIAGNOSIS INFORMATION >

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

K

L

Ρ

Α

В

С

D

Е

F

G

Н

SE

M

Ν

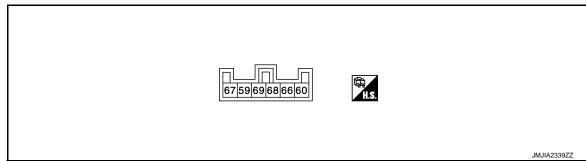
0

### < ECU DIAGNOSIS INFORMATION >

## **HEATED SEAT CONTROL UNIT**

Reference Value

### TERMINAL LAYOUT

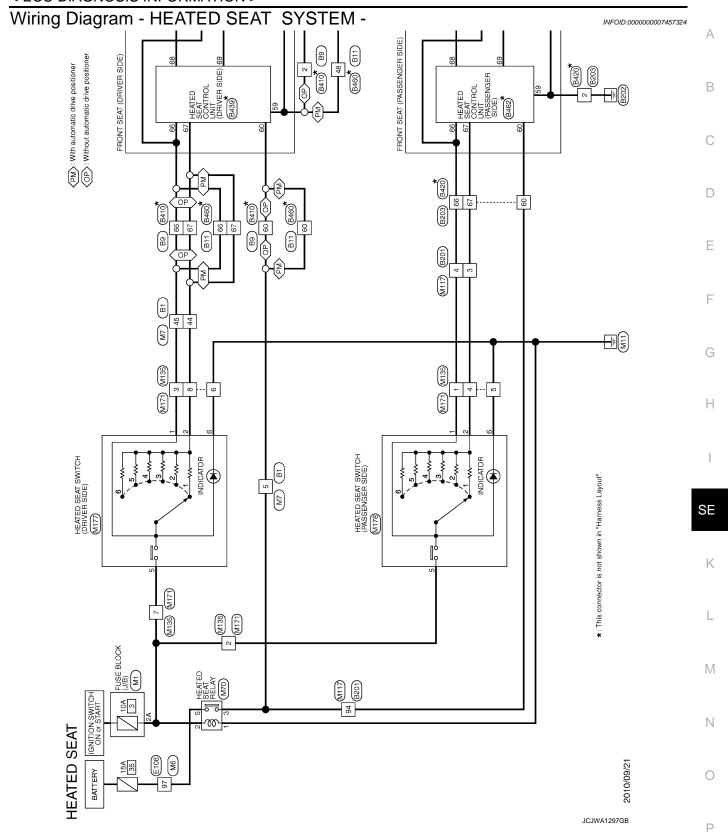


#### PHYSICAL VALUES

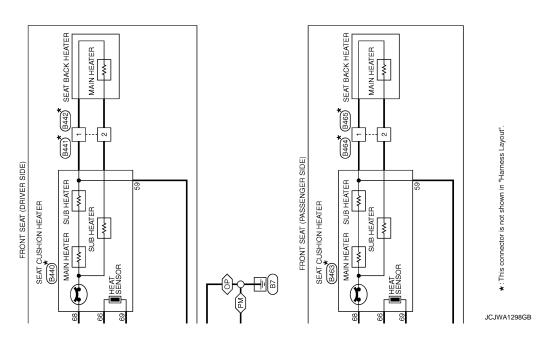
	nal No. color)	Description			Condition	Voltage (V)
(+)	(-)	Signal name	Input/ Output	,	Condition	(Approx.)
59 (Y)	Ground	Ground	_		-	0
60	Ground	IGN power supply	Input	Ignition switch	OFF or ACC	0
(Y/R)	Ground	1014 power suppry	mput	ignition switch	ON	Battery voltage
66	Ground	Heated seat operation sig-	Input	Heated seat	Operate	Battery voltage
(B)	Giodila	nal	Input	Heated 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
(=)				own.on	4	12.63
					5	12.76
					6 (Max. temperature)	12.90
68	0	Seat cushion heater pow-	0	Heated seat	Operate	0 – Battery voltage*
(R/W)	Ground	er supply	Output	Heated seat	Other than the above	0
					OFF	0
					1 (Min. temperature)	10.87 – 11.02*
					2	10.93 – 11.07*
69 (R)	Ground	Heat sensor signal	Input	Heated seat switch	3	11.04 – 11.17*
(' ')					4	11.13 – 11.26*
					5	11.22 – 11.34*
					6 (Max. temperature)	11.31 – 11.43*

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

#### < ECU DIAGNOSIS INFORMATION >







## < ECU DIAGNOSIS INFORMATION >

Connector No.   8203.	
Signal Name   Signal Name   Specification	
6.0 P 6.1 C 6.2 SHELD 7.2 C 6.3 SHELD 7.2 C 6.3 SHELD 7.2 C 6.4 C 6.5 SHELD 7.2 SHEL	
HEATED SEAT   Connector No.   Bit   Connector No.   Bit   Connector No.   Co	
	JRJWC9314GB

Revision: 2014 October SE-101 2012 EX

В

Α

С

D

Е

F

3

Н

SE

Κ

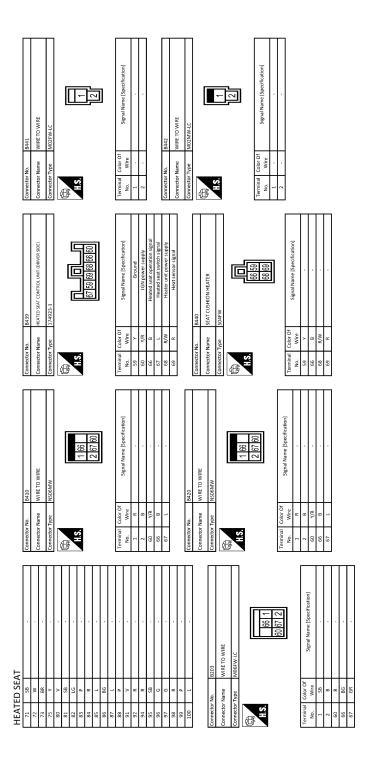
L

M

Ν

0

Р



JRJWC9315GB

Control Page   Cont	Mail Convention Mail Concentration   Concent	17   17   17   17   17   17   17   17	PAGES  NO THE TO W  MOZAWW-LE	+++	
	State than   Sta	WHIRE TO WHISE   Connector Name   Start OLISHUON HEATER   Connector Name   Connector Na	WIRETO W MOZIMW-LI	Н	
Microsoft According   Microsoft According	Microsocial Control	13   1   1   1   1   1   1   1   1   1	MOZMW-LI	H	
Companies   Comp	Comparison of the production	19 3 1			
The control of the	Control   Cont	19 3 1   1   17   40			
1   1   1   1   1   1   1   1   1   1		15   1   1   1   1   1   1   1   1   1		Н	
	Control   Cont	Fig. 10   Signal Name   Specification   Fee		+	
The control of the	Signal Name   Specification   Sign	Terminal   Color Of   Signal Name   Specification   Name		Н	
Connector Name   Specification    Name   Name	Signal turns [Specification]   Control to	Terminal   Color Of   Signal Name   Specification   No.   Wire   Signal Name   Specification   No.   Wire   Signal Name   Specification   No.   Wire   No.   Wi		+	
1	10   10   10   10   10   10   10   10	150   150		t	
Main	March   Marc	1		t	
Main column part and protection with the neutron protection protection with the neutron protection pr	7   2   2   2   2   2   2   2   2   2	No.   Signal Name   Specification   Specific		H	
No.   Concept Windows   Conc	1	R   R   R   R   R   R   R   R   R   R		Н	
Connector No.   Connector No	Connector No.   Connector No	V   V   V   V   V   V   V   V   V   V		4	
March   Marc	Marcon   Connector No.   Exception   Connector No.   Exc	Marie   Speak   Marie   Mari		+	
No.	Market   M	W   Connector No.   B464   Connector No.   B464   Connector No.   Connector No.   Connector No.   Connector No.   Connector Type   MOZFW-LC   Connector Type   Terminal Color Of   Terminal Colo		+	
Connector Three   Connector	Connector Name   Conn	March   Signal Name   Specification   Specification		+	
Connector Value   Connector	Connector Name   Write 10 Write   Writ	Connector Name   White TO WRIE	THROFW,CC16.	+	
Control of the cont	1   1   1   1   1   1   1   1   1   1	Second   S	1100111	+	
Fig. 20   Fig.	March   Marc	174923-3		+	
Fig. 20   Fig.	14   15   15   15   15   15   15   15	Feminal   Color Of   Signal Name   Specification    12   12   13   14   14   14   14   14   14   14		╁	
Fig. 12   Fig. 13   Fig. 12   Fig. 13   Fig.	17423-1	17423-1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	┞	
17432-3   Terminal Color Of	17423-3-1     17423-3-1	174033 1	0 9 00 00 00 00 00 00 00 00 00 00 00 00	H	
Figure   F	Figure 2011   Forminal Color Of Figure 1	Particle   Particle		Н	
Terminal Color Of   Signal Name [Specification]   Specification]   Color Of   Signal Name [Specification]   Signal Name [Speci	Terminal   Color Of   Nume   Signal Name   Specification   Color Of   Nume   Color Of   Nume   Specification   Color Of   Nume   Color Of	Terminal Color Off Signal Name (Specification)   174923-1	N	$\dashv$	
174323-1	174923-1	174823-1		+	
Termical Color Of Nate   Signal Name   Specification    1	Terminal Color Of Name Specification    2 m m   66 m   66 m   66 m m   66	Terminal Color Of Signal Name (Specification)   1		+	
Signal Name   Specification   2 w w   Signal Name   Specification   2 w   Signal Name   2	Signal Name   Specification    2	No. Wire   Signal Name (Specification)   2   1   1   1   1   1   1   1   1   1		╀	
Signal Name   Specification	1   1   1   1   1   1   1   1   1   1	Color Of Signal Name   Specification    1	, .	t	
Fig.   Control   Countrol   Cou	Fig.   Common   Com		,	H	
	67   69   69   60   60   60   60   60   60	67   59   68   66   60   5   6   6   6   6   6   6   6   6   6	GR .		
Signal Name (Specification)   2	Signal Name [Specification]   2	Signal Name (Specification)   10   11   11   12   12   13   14   14   14   14   14   14   14	GR .	Н	
Signal Name (Specification)   Signal Name (Specification)   10 86	Signal Name (Specification)   Sec   773   FF   774   FF   775   775   FF   775   775   FF   775   775   FF	Signal Name   Specification   10   10   10   11   12   12   12   12	· ·	4	
Signal Name (Specification)   10 Sept   7/3   8 B	Signal Name (Specification)   110 S86	Signal Name [ Specification]   10   10   11   11   11   11   11   1	BR	+	
Signal Name [specification]         Signal Name [specification]         74         88           Ground         13         L         -         75         G           Heated var operation signal Heated sear source strain         15         P         -         75         W           Heated sensor signal Heater unit power supply         18         V         -         77         P           Heat sensor signal         20         66         -         77         R           78         8         8         -         78         8	Signal Name [specification]         Signal Name [specification]         74         88           IcM cooper supply         13         L         -         75         G           IcM cooper supply         14         R         -         75         W           Heater cop contron signal         16         V         -         75         W           Heater unit power supply         15         V         -         77         P           Heat sensor signal         20         B6         -         77         R           73         1         L         -         77         R	Signal Name (Sperification)         11           Ground         12           Ground         13           IGN power supply         14           Hearted seat operation signal         15           Hearted seat operation signal         15           Hearted seat operation signal         17           Heart seaturer signal         17           Heart seaturer signal         20           21         20	BG .	+	
Wife         Ground         74         I.           YR         I (Nowe supply)         14         R         -         75         G           YR         Headed sets swift signal         15         P         -         775         W           I.         Headed sets swift signal         15         V         -         776         W           R.         Headed sets swift signal         17         R         -         77         R           R.         Headed sets swift signal         18         V         -         77         R           R.         Heated sets swift signal         20         86         -         77         R           R.         Heated sets swift signal         78         I.         78         I.	Wife         Circumpl         74         CF         74         CF           V/R         ICR power supply         14         R         -         75         G           V/R         Nebated sear swelth signal         15         V         -         76         W           R/W         Heater cent swelth signal         15         V         -         76         W           R/W         Heater cent swelth signal         15         V         -         76         W           R/W         Heater cent swelth signal         15         V         -         76         W           R/W         Heater cent swelth signal         15         V         -         76         W           R/W         Heater cent swelth signal         17         R         R         Y         R           R/W         Heater cent swelth signal         17         R         R         Y         Y           R/W         Heater cent swelth signal         17         R         R         Y         Y           R/W         Heater cent swelth signal         1         Y         Y         Y         Y           R/W         Heater cent swelth signal         1         Y	Wine         Ground         13           V/R         IGR power supply         14           B         Hearted sear benefitor signal         15           L         Hearted sear benefitor signal         16           R/W         Hearte sear caughty         17           R         Heart sersor signal         20	88	+	- [with ICC]
V         Forund Coround Coround         T/S         C           F         Heated seat coperation signal         13         L         -         75         W           F         Heated seat coperation signal         15         P         -         77         W           R/W         Heater unt power supply         18         V         -         77         P           R/W         Heat sensor signal         20         B6         -         77         R           R         Heat sensor signal         20         L         77         R         R	V         Formula Consolid         Y         P	V   V   V   V   V   V   V   V   V   V	86	+	- [Without ICC]
VR         No. Observation rightal         14         R         -         75         W           IL         Heaterd sear together rightal         15         V         -         76         V           R/W         Heater unit power supply         18         V         -         77         P           R/W         Heater unit power supply         20         86         -         77         R           R/W         Heater unit power supply         20         86         -         77         R           R/W         Heater temor signal         21         L         -         78         L	V/R         Helented seat Operal staginal         14         R         -         75         W           L         Helented seat operation rightal         16         V         -         76         W           R/N         Helented seat operation rightal         13         S         -         77         P           R/N         Helented seatons rightal         20         BG         -         77         R           R/N         Helent sensor signal         20         BG         -         77         R           73         L         L         -         -         78         R	V/R   (N person right)		+	- [With ICC]
B         Heards dara wardin rightal         15         P         -         76         W           R/W         Heart cunt prover supply         12         SB         -         77         P           R         Heart emor signal         20         BG         -         77         R           22         B         -         -         77         R           73         L         -         -         77         R           73         L         -         -         77         R	B	B   Helsted sets operation signal   15		+	- [Without ICC]
R.V.         Heart unit power supply         15         V         T/T         P           R.R         Heart sensor signal         38         V         T/T         R           2.0         BG         T         R         R           77         R         R         R           78         BR         R           79         L         R           79         L         R           70         R         R           8         R	R. M.         Heat emor signal         15         V         T/7         P           R. M.         Heat emor signal         13         V         T/7         R           R. M.         Heat emor signal         20         BG         T/7         R           2.1         L         T/7         R         R           77         R         R         R           78         E/8         R           79         E/8         R           79         E/8         R           79         R         R           70         R         R           80         R	L Heinted soat workstrageal 16		+	- [With ICC]
R/W         Heat servicer signal         17         R         P           R         Heat servicer signal         20         BG         -         77         R           21         L         -         78         L         -         78         L	R/W         Heat sensor signal         18         V SB         77         R         P           20         BG         -         77         R         R           21         L         -         78         BR         78         L	R/W   Heat vertor signal   17   18   20   20   21   21   22   22   23   23   24   24   24   25   25   25   25   25	۸	+	- [Without ICC]
R   Heat servor signal	R   Heat service signal	R   Heat servior signal   18     20     21		+	- [Without ICC]
86 - 78 BR	86 - 78 88 L	+	۸.	œ	- [With ICC]
78 1	78 1	21 1		BR	- [Without ICC]
				ı	- [With ICC]
			B80	%	- [Without ICC] - [With ICC]

Α

В

С

D

Е

F

G

Н

SE

Κ

L

M

Ν

0

JRJWC9316GB

Ρ

	79 L - [Without ICC]	Connector No.	ır No.	M6	43	$\mathbb{H}$		П	8 8	SHIELD		
- 8	Al-	Connector Name	ır Name	WIRE TO WIRE	45	× -	. .	T	100	> 8		
~		Connector Type	ır Type	TH80MW-CS16-TM4	202	۵						
		٥			21	I BR						
		B			54	, ,			Connector No.	or No.	M7	
IJ		Ě		9 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	57	Н	,		Connect	Connector Name	WIRE TO WIBE	
	-	2	_		59	Α .						
Ь					09	1 (			Connector Type	or Type	TH80MW-CS16-TM4	
					9	9			0		[	
١~					62	S SB			E			
=					63	$\vdash$			ĺ		8 5 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	
≥		Terminal	Color Of	[	64	B 1			Ŷ	_		
-		No.	Wire	Signal Name [Specification]	9	H						
>		-	Μ		99	L						
2		2	æ		29	7 SHIELD	,					
100		m	80		89	~						
۵		4	SHIELD		69	H			Terminal	I Color Of	(	
~		'n	σ		2	97			No.	Wire	ognal Name [opecification]	
	SHIELD -	00	>		71	L			m	SB	- [With automatic drive positioner]	
		6	BR		72	H			ю	Μ	- [Without automatic drive positioner]	
۵		10	œ		73	SB			S	9		
		11	BR		74	┝	- [With ICC]		9	BG		
		12	BG		74	H	- [Without ICC]		7	W		
	M1	13	٦		75	9			00	В		
1	(4) 17 70 0 10 Lot 12	14	æ		9/	F			12	SB		
	FOSE BLOCK (J/B)	15	۵		92				13	97		
	NS06FW-M2	16	۸		77	7 P	- [Without ICC]		14	٨		
		17	SB		77	7 R	- [With ICC]		15	6		
		18	۸		78	٦ 3	- [With ICC]		17	Μ		
	30	20	BG		78	3 R	- [Without ICC]		18	SB		
	JA 12A11A	21	1		79	M E	- [Without ICC]		19	97	•	
	8A 7A 6A 5A 4A	22	Μ		79	λ E	- [With ICC]		20	BR		
		23	Ь		80	SB C			21	SHIELD		
	]	24	BR		81	9S 1			22	٨		
- 1		25	٨		82	S SB			24	۸	•	
~	Terminal Color Of Simple Manue (Specification)	26	۸		83	^			27	8		
Wire	Signal reality	27	9		84	9			28	W		
~		28	9		85	1 9			53	ж		
υ		31	٦		98	6			30	SHIELD		
		32	9		87	Α .			31	7		
۵		33	8		8	- GR			32	d		
>		34	W		6	2 SHIELD			33	SB		
ı		35	æ		91	×			34	_		
~		36	SHIELD		92	┞			32	۵		
1		37	>	•	93	BR BR	,		36	_		
ı		38	BG		94	H			37	d		
		39	BR		95	Н			38	BR		
		41	W		96	Н			39	٨		
		42	BG		16	-			44	Ľ		

JRJWC9317GB

Α

В

С

D

Е

F

G

Н

SE

Κ

L

M

Ν

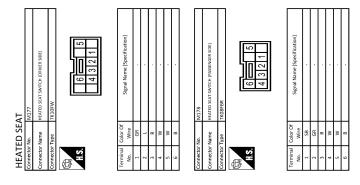
0

Ρ

## < ECU DIAGNOSIS INFORMATION >

Connector No.   M135	
33   6   2   2   2   2   2   2   2   2   2	
Connector No.   M70	
HEATED SEAT  45 GR  47 SB  47 SB  48 V  50 R  51 L  52 SMELD  53 SMELD  54 SB  57 W  77 W  78 B  78 B	
	JRJWC9318GB

Revision: 2014 October SE-105 2012 EX



JRJWC9319GB

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

< SYMPTOM DIAGNOSIS >

Is the inspection result normal?

#### SYMPTOM DIAGNOSIS Α REAR SEATBACK POWER RETURN SYSTEM DOES NOT OPERATE **BOTH SIDES** В **BOTH SIDES**: Diagnosis Procedure INFOID:0000000007457325 ${f 1}$ .CHECK POWER SUPPLY AND GROUND CIRCUIT Check power supply and ground circuit. Refer to SE-16, "REAR SEATBACK POWER RETURN CONTROL UNIT: Diagnosis Procedure". D Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. Е 2.check vehicle speed signal circuit Check vehicle speed signal circuit. Refer to SE-45, "Component Function Check". F Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts. 3.CONFIRM THE OPERATION Confirm the operation again. Н Is the inspection result normal? >> Check intermittent incident. Refer to GI-42, "Intermittent Incident". NO >> GO TO 1. LH LH: Diagnosis Procedure INFOID:0000000007457326 SE ${f 1}$ .PERFORM POWER RETURN SWITCH AND REAR SEATBACK SWITCH Perform power return switch and rear seatback switch. From which power return switch (or rear seatback switch) does the seat return operation occur? POWER RETURN SWITCH>>GO TO 2. REAR SEATBACK SWITCH>>GO TO 3. BOTH SIDES>>GO TO 4. 2.CHECK POWER RETURN SWITCH (LH) Check power return switch (LH). Refer to SE-21, "LH: Component Function Check". Is the inspection result normal? YES >> GO TO 4. N NO >> Repair or replace the malfunctioning parts. 3. CHECK REAR SEATBACK SWITCH (LH) Check rear seatback switch (LH). Refer to SE-25, "LH: Component Function Check". Is the inspection result normal? Р YFS >> GO TO 4. NO >> Repair or replace the malfunctioning parts. $oldsymbol{4}.$ CHECK POWER RETURN MOTOR (LH) Check power return motor (LH). Refer to SE-42, "LH: Component Function Check".

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

#### < SYMPTOM DIAGNOSIS >

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

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

Check return complete limit switch (LH).

Refer to SE-33, "LH: Component Function Check".

#### Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace the malfunctioning parts.

#### 6.CONFIRM THE OPERATION

Confirm the operation again.

#### Is the inspection result normal?

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

NO >> GO TO 1.

RH

#### RH: Diagnosis Procedure

INFOID:0000000007457327

## 1. PERFORM POWER RETURN SWITCH AND REAR SEATBACK SWITCH

Perform power return switch and rear seatback switch.

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

POWER RETURN SWITCH>>GO TO 2.

REAR SEATBACK SWITCH>>GO TO 3.

BOTH SIDES>>GO TO 4.

### 2.CHECK POWER RETURN SWITCH (RH)

Check power return switch (RH).

Refer to SE-22, "RH: Component Function Check".

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

# 3.CHECK REAR SEATBACK SWITCH (RH)

Check rear seatback switch (RH).

Refer to SE-26, "RH: Component Function Check".

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

## 4. CHECK POWER RETURN MOTOR (RH)

Check power return motor (RH).

Refer to SE-43, "RH: Component Function Check".

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

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

Check return complete limit switch (RH).

Refer to SE-34, "RH: Component Function Check".

#### Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace the malfunctioning parts.

#### **6.**CONFIRM THE OPERATION

Confirm the operation again.

#### Is the inspection result normal?

Revision: 2014 October SE-108 2012 EX

# REAR SEATBACK POWER RETURN SYSTEM DOES NOT OPERATE

< SYMPTOM DIAGNOSIS > >> Check intermittent incident. Refer to GI-42, "Intermittent Incident". YES NO >> GO TO 1. Α В С D Е F G Н SE

K

L

M

Ν

0

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

# < SYMPTOM DIAGNOSIS >

# MALFUNCTION DETECTION BUZZER SOUNDS DURING POWER RETURN MOTOR INVERSE ROTATION

LH

LH: Diagnosis Procedure

INFOID:0000000007457328

1. CHECK RETURN COMPLETE LIMIT SWITCH (LH)

Check return complete limit switch (LH).

Refer to SE-33, "LH: Component Function Check".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK PRIMARY POSITION LIMIT SWITCH (LH)

Check primary position limit switch (LH).

Refer to SE-29, "LH: Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK POWER RETURN MOTOR (LH)

Check power return motor (LH).

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

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4. CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

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

NO >> GO TO 1.

RH

# RH: Diagnosis Procedure

INFOID:0000000007457329

# 1. CHECK RETURN COMPLETE LIMIT SWITCH (RH)

Check return complete limit switch (RH).

Refer to SE-34, "RH: Component Function Check".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK PRIMARY POSITION LIMIT SWITCH (RH)

Check primary position limit switch (RH).

Refer to SE-30, "RH: Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. CHECK POWER RETURN MOTOR (RH)

Check power return motor (RH).

Refer to SE-43, "RH: Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.

Revision: 2014 October SE-110 2012 EX

# MALFUNCTION DETECTION BUZZER SOUNDS DURING POWER RETURN MO-

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

**SE-111** Revision: 2014 October 2012 EX

0

# DOES NOT RETURN BUT MALFUNCTION DETECTION BUZZER SOUNDS

< SYMPTOM DIAGNOSIS >

# DOES NOT RETURN BUT MALFUNCTION DETECTION BUZZER SOUNDS

LH

# LH: Diagnosis Procedure

INFOID:0000000007457330

# 1. CHECK PRIMARY POSITION LIMIT SWITCH (LH)

Check primary position limit switch (LH).

Refer to SE-29, "LH: Component Function Check".

# Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

# 2.CHECK MOTOR SENSOR (LH)

Check motor sensor (LH).

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

# Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

# 3.CONFIRM THE OPERATION

Confirm the operation again.

# Is the inspection result normal?

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

NO >> GO TO 1.

RH

# RH : Diagnosis Procedure

INFOID:0000000007457331

# 1. CHECK PRIMARY POSITION LIMIT SWITCH (RH)

Check primary position limit switch (RH).

Refer to SE-29, "LH: Component Function Check".

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

# 2.CHECK MOTOR SENSOR (RH)

Check motor sensor (RH).

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

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

# 3.CONFIRM THE OPERATION

Confirm the operation again.

# Is the inspection result normal?

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

NO >> GO TO 1.

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

Ν

0

Ρ

SE-113 2012 EX Revision: 2014 October

# **HEATED SEAT DOES NOT OPERATE**

#### < SYMPTOM DIAGNOSIS >

# HEATED SEAT DOES NOT OPERATE

# **BOTH SIDES**

# **BOTH SIDES**: Diagnosis Procedure

INFOID:0000000007457333

# 1. CHECK HEATED SEAT SWITCH POWER SUPPLY

Check heated seat switch power supply.

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

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

# 2.CHECK HEATED SEAT RELAY

Check heated seat relay.

Refer to SE-51, "Component Function Check".

# Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

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

Check heated seat switch power supply and ground circuit.

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

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

# 4. CONFIRM THE OPERATION

Confirm the operation again.

#### Is the inspection result normal?

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

NO >> GO TO 1.

DRIVER SIDE

# DRIVER SIDE : Diagnosis Procedure

INFOID:0000000007457334

# 1. CHECK HEATED SEAT SWITCH POWER SUPPLY

Check heated seat switch power supply.

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

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

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

Check heated seat switch power supply and ground circuit.

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

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

# 3.CHECK HEATED SEAT SWITCH

#### Check heated seat switch.

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

# Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

Revision: 2014 October SE-114 2012 EX

# **HEATED SEAT DOES NOT OPERATE**

# < SYMPTOM DIAGNOSIS >

< STIME FOW DIAGNOSIS >	
4. CHECK SEAT CUSHION HEATER	Δ
Check seat cushion heater.	^
Refer to <u>SE-58, "DRIVER SIDE : Component Function Check"</u> . <u>Is the inspection result normal?</u>	
YES >> GO TO 5.	В
NO >> Repair or replace the malfunctioning parts.	
5. CONFIRM THE OPERATION	С
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	Е
PASSENGER SIDE : Diagnosis Procedure	157335
1. CHECK HEATED SEAT SWITCH POWER SUPPLY	F
Check heated seat switch power supply.	
Refer to SE-18, "HEATED SEAT SWITCH: Diagnosis Procedure".	(-
Is the inspection result normal?  YES >> GO TO 2.	
NO >> Repair or replace the malfunctioning parts.	
2.CHECK HEATED SEAT CONTROL UNIT POWER SUPPLY AND GROUND CIRCUIT	H
Check heated seat switch power supply and ground circuit.  Refer to SE-16, "HEATED SEAT CONTROL UNIT: Diagnosis Procedure".	
Is the inspection result normal?	I
YES >> GO TO 3.	
NO >> Repair or replace the malfunctioning parts.	SE
3.CHECK HEATED SEAT SWITCH	
Check heated seat switch.	
Refer to <u>SE-48, "PASSENGER SIDE : Component Function Check"</u> .	K
Is the inspection result normal?	
YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts.	L
4.CHECK SEAT CUSHION HEATER	
Check seat cushion heater.  Refer to SE-59, "PASSENGER SIDE: Component Function Check".	N
Is the inspection result normal?	
YES >> GO TO 5.	N
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".	F
NO >> GO TO 1.	4

# SEATBACK HEATER ONLY DOES NOT OPERATE

# < SYMPTOM DIAGNOSIS >

# SEATBACK HEATER ONLY DOES NOT OPERATE

**DRIVER SIDE** 

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000007457336

# 1. CHECK SEATBACK HEATER

Check seatback heater.

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

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

# 2.CONFIRM THE OPERATION

Confirm the operation again.

#### Is the inspection result normal?

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

NO >> GO TO 1.

PASSENGER SIDE

# PASSENGER SIDE: Diagnosis Procedure

INFOID:0000000007457337

# 1. CHECK SEATBACK HEATER

Check seatback heater.

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

# Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

# 2.CONFIRM THE OPERATION

Confirm the operation again.

#### Is the inspection result normal?

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

NO >> GO TO 1.

# **CANNOT ADJUST HEATED SEAT TEMPERATURE**

#### < SYMPTOM DIAGNOSIS > CANNOT ADJUST HEATED SEAT TEMPERATURE Α DRIVER SIDE DRIVER SIDE: Diagnosis Procedure INFOID:0000000007457338 В 1. CHECK HEATED SEAT SWITCH Check heated seat switch. Refer to SE-47, "DRIVER SIDE: Component Function Check". Is the inspection result normal? YES >> GO TO 2. D NO >> Repair or replace the malfunctioning parts. 2 . CHECK HEAT SENSOR Check heat sensor. Е Refer to SE-53, "DRIVER SIDE: Description". Is the inspection result normal? YES >> GO TO 3. F NO >> Repair or replace the malfunctioning parts. 3.CONFIRM THE OPERATION Confirm the operation again. Is the inspection result normal? >> Check intermittent incident. Refer to GI-42, "Intermittent Incident". Н NO >> Replace heated seat control unit. Refer to SE-149, "Removal and Installation". PASSENGER SIDE PASSENGER SIDE : Diagnosis Procedure INFOID:0000000007457339 1. CHECK HEATED SEAT SWITCH SE Check heated seat switch. Refer to SE-48, "PASSENGER SIDE: Component Function Check". Is the inspection result normal? K YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2.CHECK HEAT SENSOR Check heat sensor. Refer to SE-55, "PASSENGER SIDE: Diagnosis Procedure". Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts. 3.CONFIRM THE OPERATION Ν Confirm the operation again. Is the inspection result normal? YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident". NO >> Replace heated seat control unit. Refer to SE-149, "Removal and Installation".

# 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:0000000007457340

# 1. CHECK HEATED SEAT SWITCH INDICATOR

Check heated seat switch indicator.

Refer to SE-64, "DRIVER SIDE: Component Function Check".

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

# 2.confirm the operation

Confirm the operation again.

#### Is the inspection result normal?

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

NO >> GO TO 1.

# PASSENGER SIDE

# PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000007457341

# 1. CHECK HEATED SEAT SWITCH INDICATOR

Check heated seat switch indicator.

Refer to SE-65, "PASSENGER SIDE: Component Function Check".

# Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

# 2.CONFIRM THE OPERATION

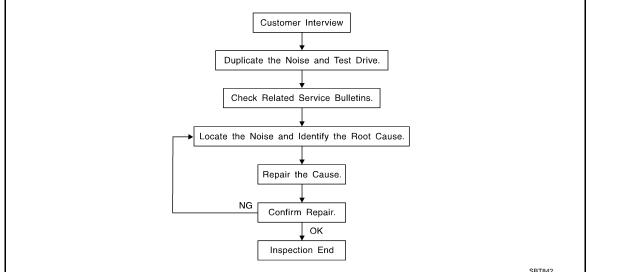
Confirm the operation again.

#### Is the inspection result normal?

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

NO >> GO TO 1.

Work Flow INFOID:0000000007457342 Customer Interview



#### **CUSTOMER INTERVIEW**

Interview the customer if possible, to determine the conditions that exist when the noise occurs. Use the Diagnostic Worksheet during the interview to document the facts and conditions when the noise occurs and any of customer's comments; refer to SE-123, "Diagnostic Worksheet". This information is necessary to duplicate the conditions that exist when the noise occurs.

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

#### DUPLICATE THE NOISE AND TEST DRIVE

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

SE

Α

Ν

2012 EX

#### < SYMPTOM DIAGNOSIS >

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

- 1) Close a door.
- 2) Tap or push/pull around the area where the noise appears to be coming from.
- 3) Rev the engine.
- 4) Use a floor jack to recreate vehicle "twist".
- 5) At idle, apply engine load (electrical load, half-clutch on M/T models, drive position on A/T models).
- 6) Raise the vehicle on a hoist and hit a tire with a rubber hammer.
- Drive the vehicle and attempt to duplicate the conditions the customer states exist when the noise occurs.
- If it is difficult to duplicate the noise, drive the vehicle slowly on an undulating or rough road to stress the vehicle body.

#### CHECK RELATED SERVICE BULLETINS

After verifying the customer concern or symptom, check ASIST for Technical Service Bulletins (TSBs) related to that concern or symptom.

If a TSB relates to the symptom, follow the procedure to repair the noise.

#### LOCATE THE NOISE AND IDENTIFY THE ROOT CAUSE

- 1. Narrow down the noise to a general area. To help pinpoint the source of the noise, use a listening tool (Chassis Ear: J-39570, Engine Ear and mechanics stethoscope).
- 2. Narrow down the noise to a more specific area and identify the cause of the noise by:
- Removing the components in the area that you suspect the noise is coming from.
   Do not use too much force when removing clips and fasteners, otherwise clips and fastener can be broken or lost during the repair, resulting in the creation of new noise.
- Tapping or pushing/pulling the component that you suspect is causing the noise.
   Do not tap or push/pull the component with excessive force, otherwise the noise will be eliminated only temporarily.
- Feeling for a vibration with your hand by touching the component(s) that you suspect is (are) causing the
  noise.
- Placing a piece of paper between components that you suspect are causing the noise.
- Looking for loose components and contact marks.
   Refer to <u>SE-121</u>, "<u>Inspection Procedure</u>".

# REPAIR THE CAUSE

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

#### **CAUTION:**

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

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

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

URETHANE PADS [1.5 mm (0.059 in) thick]

Insulates connectors, harness, etc.

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

71L02:15  $\times$  25 mm (0.59  $\times$  0.98 in)

INSULATOR (Foam blocks)

Insulates components from contact. Can be used to fill space behind a panel.

73982-9E000: 45 mm (1.77 in) thick,  $50 \times 50$  mm (1.97  $\times$  1.97 in)/73982-

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

INSULATOR (Light foam block)

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

FELT CLOTHTAPE

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

 $68370-4B000: 15 \times 25 \text{ mm} (0.59 \times 0.98 \text{ in}) \text{ pad/}68239-13E00: 5 \text{ mm} (0.20 \text{ in}) \text{ wide tape roll}$ 

The following materials, not found in the kit, can also be used to repair squeaks and rattles.

**UHMW (TEFLON) TAPE** 

#### < SYMPTOM DIAGNOSIS >

Insulates where slight movement is present. Ideal for instrument panel applications. SILICONE GREASE Α Used in place of UHMW tape that will be visible or not fit. Will only last a few months. SILICONE SPRAY Use when grease cannot be applied. В **DUCT TAPE** Use to eliminate movement. CONFIRM THE REPAIR Confirm that the cause of a noise is repaired by test driving the vehicle. Operate the vehicle under the same conditions as when the noise originally occurred. Refer to the notes on the Diagnostic Worksheet. Inspection Procedure D INFOID:0000000007457343 Refer to Table of Contents for specific component removal and installation information. INSTRUMENT PANEL Е Most incidents are caused by contact and movement between: 1. The cluster lid A and instrument panel F Acrylic lens and combination meter housing Instrument panel to front pillar garnish Instrument panel to windshield Instrument panel mounting pins Wiring harnesses behind the combination meter 7. A/C defroster duct and duct joint These incidents can usually be located by tapping or moving the components to duplicate the noise or by pressing on the components while driving to stop the noise. Most of these incidents can be repaired by

CAUTION:

wiring harness.

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.

applying felt cloth tape or silicon spray (in hard to reach areas). Urethane pads can be used to insulate

#### CENTER CONSOLE

Components to pay attention to include:

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

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

#### DOORS

Pay attention to the:

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

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

**SE-121** 

#### 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

SE

N

Р

2012 EX

#### < 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
- Sunvisor shaft shaking in the holder
- Front or rear windshield touching headlining and squeaking

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

#### **SEATS**

When isolating seat noise it's important to note the position the seat is in and the load placed on the seat when the noise is present. These conditions should be duplicated when verifying and isolating the cause of the noise.

Cause of seat noise include:

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

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

#### UNDERHOOD

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

Causes of transmitted under hood noise include:

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

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

< SYMPTOM DIAGNOSIS >

# Diagnostic Worksheet

INFOID:0000000007457344



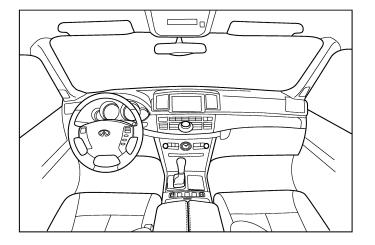
# SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

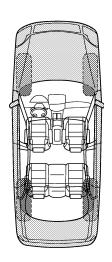
#### Dear Infiniti Customer:

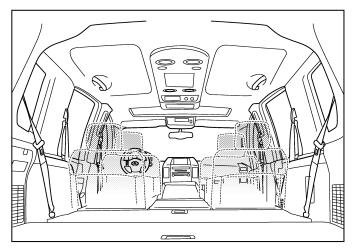
We are concerned about your satisfaction with your Infiniti vehicle. Repairing a squeak or rattle sometimes can be very difficult. To help us fix your Infiniti right the first time, please take a moment to note the area of the vehicle where the squeak or rattle occurs and under what conditions. You may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

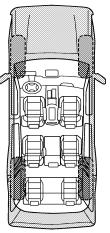
# I. WHERE DOES THE NOISE COME FROM? (circle the area of the vehicle)

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.

B8741E

В

Α

C

D

Е

F

G

Н

SE

Κ

L

M

Ν

0

Briefly describe the location where the no	ise occurs:				
II. WHEN DOES IT OCCUR? (please che	eck the box	es that ap	ply)		
<ul><li>□ anytime</li><li>□ 1st time in the morning</li><li>□ only when it is cold outside</li><li>□ only when it is hot outside</li></ul>	wher	sitting oun it is rain or dusty co	ing or wet		
III. WHEN DRIVING:	IV. WHA	T TYPE	OF NOIS	E	
☐ 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       ☐ knock (like a knock at the door)         ☐ on acceleration       ☐ tick (like a clock second hand)         ☐ coming to a stop       ☐ thump (heavy, muffled knock noise)         ☐ on turns: left, right or either (circle)       ☐ buzz (like a bumble bee)         ☐ with passengers or cargo       ☐ other:         ☐ after driving miles or minutes					
TO BE COMPLETED BY DEALERSHIP	LINGOIN				
Test Drive Notes:					
Test Drive Notes:		YES	NO	Initials of person performing	
Vehicle test driven with customer - Noise verified on test drive - Noise source located and repaired - Follow up test drive performed to confirm	m repair	YES	NO	Initials of person performing	
Vehicle test driven with customer - Noise verified on test drive - Noise source located and repaired	Cust			performing	

PIIB8742E

# **PRECAUTION**

# **PRECAUTIONS**

Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRF-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.

Always observe the following items for preventing accidental activation.

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

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

#### **WARNING:**

Always observe the following items for preventing accidental activation.

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

Precautions Necessary for Steering Wheel Rotation After Battery Disconnection

INFOID:0000000007457346

#### **CAUTION:**

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

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

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

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

#### OPERATION PROCEDURE

1. Connect both battery cables.

#### NOTE:

Supply power using jumper cables if battery is discharged.

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

SE

Н

Α

В

D

Е

K

Ν

# **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

INFOID:0000000007457348

- When removing or disassembling each component, be careful not to damage or deform it. If a component
  may be subject to interference, be sure to protect it with a shop cloth.
- When removing (disengaging) components with a screwdriver or similar tool, be sure to wrap the component with a shop cloth or vinyl tape to protect it.
- Protect the removed parts with a shop cloth and keep them.
- Replace a deformed or damaged clip.
- If a part is specified as a non-reusable part, always replace it with new one.
- Be sure to tighten bolts and nuts securely to the specified torque.
- After re-installation is completed, be sure to check that each part works normally.
- Follow the steps below to clean components.
- Water soluble foul: Dip a soft cloth into lukewarm water, and wring the water out of the cloth to wipe the fouled area.
  - Then rub with a soft and dry cloth.
- Oily foul: Dip a soft cloth into lukewarm water with mild detergent (concentration: within 2 to 3%), and wipe the fouled area.
  - Then dip a cloth into fresh water, and wring the water out of the cloth to wipe the detergent off. Then rub with a soft and dry cloth.
- Do not use organic solvent such as thinner, benzene, alcohol, and gasoline.
- For genuine leather seats, use a genuine leather seat cleaner.

# **PREPARATION**

# **PREPARATION**

# **PREPARATION**

# Special Service Tool

INFOID:0000000007457349

Α

В

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:0000000007457350

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

Clip List INFOID:0000000007457351

			I
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 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:

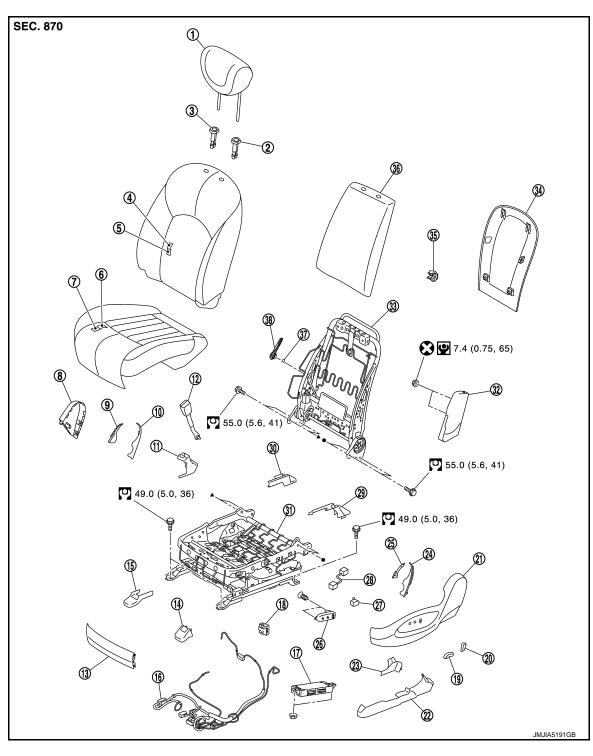
JMJIA3734GB

# REMOVAL AND INSTALLATION

# **FRONT SEAT**

Exploded View

**DRIVER SEAT** 



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

SE

Α

В

C

D

Е

F

Н

K

M

Ν

0

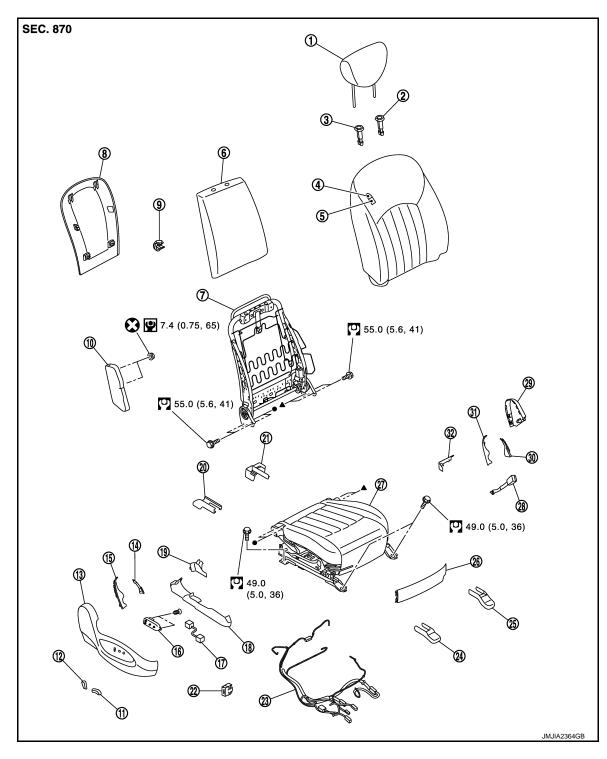
Р

Revision: 2014 October SE-129 2012 EX

# < REMOVAL AND INSTALLATION >

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

# PASSENGER SEAT



Headrest

16.

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

- 2. Headrest holder (locked)
- 5. Seatback pad
- Seatback board 8.
- Seat slide & lifter switch knob
- Seat cushion outer finisher inside (front)
- 17. Seat control harness
- Seat cushion outer lower finisher (in- 20. Rear outer slide cover
  - 23. Seat harness

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

Α

В

D

Е

F

Н

SE

K

M

Ν

0

#### < REMOVAL AND INSTALLATION >

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

- 30. Seat cushion inner finisher inside (front)

- 31. Seat cushion inner finisher inside (rear)
- 32. Seat cushion inner finisher lower

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

# Removal and Installation

INFOID:0000000007768653

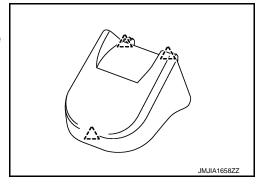
# **REMOVAL**

#### **CAUTION:**

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

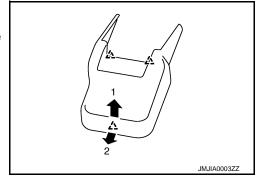
- 1. Remove the headrest.
- 2. Remove the front slide cover.
- a. Front outer slide cover
  - Slide the seat to the rear-most position.
  - Pull up the front edge of the front slide cover to release the
  - Slide the front slide cover forward to release the pawls.





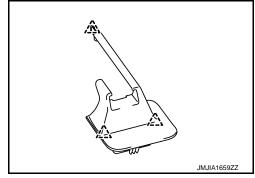
- b. Front inner slide cover
  - Slide the seat to the rear-most position.
  - Pull up the front edge of the front slide cover to release the
  - Slide the front slide cover forward to release the pawls.





- 3. Remove the mounting bolts on the front side of the front seat.
- 4. Remove the rear slide cover.
- Rear outer slide cover
  - Slide the seat to the front-most position.
  - Pull up the rear edge of the rear outer slide cover to release the pawls.
  - Open the front end of the rear outer slide cover to release the pawls.

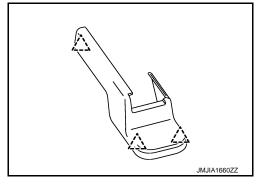




#### < REMOVAL AND INSTALLATION >

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

# Disassembly and Assembly

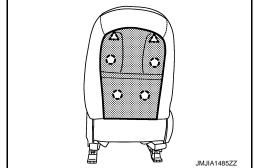
INFOID:0000000007768654

#### **SEATBACK**

#### Disassembly

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

( ) : Clip



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

Α

В

U

D

Е

F

G

Н

SE

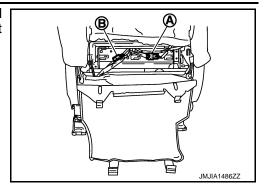
M

Ν

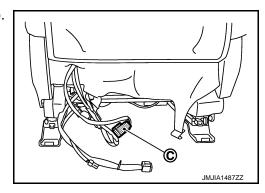
0

# < REMOVAL AND INSTALLATION >

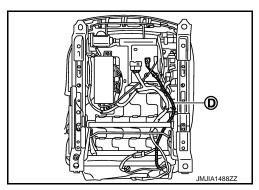
• Disconnect the reclining motor harness connector (A) and lumbar support harness connector (Power lumber support seat only) (B).



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

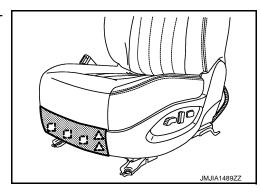


• Remove the harness clamps, and then side air bag module harness (D).



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



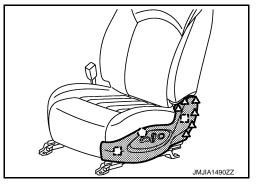


5. Remove the seat cushion outer finisher.

# < REMOVAL AND INSTALLATION >

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





Α

В

D

Е

Н

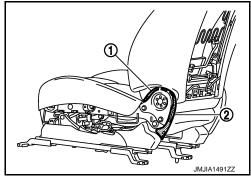
SE

K

M

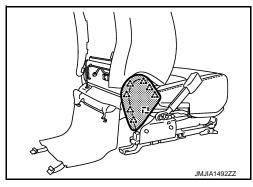
Ν

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

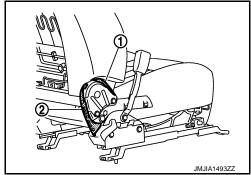


7. Remove the metal clip and pawls, and then pull out seat cushion inner finisher outside.





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



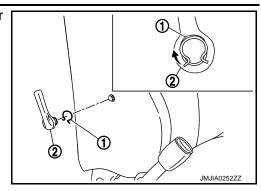
9. Remove the lumber support lever knob. (Manual lumber support seat only)

Ρ

Revision: 2014 October SE-135 2012 EX

#### < REMOVAL AND INSTALLATION >

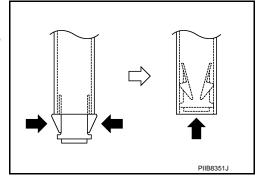
Pull snap ring (1) upward, and remove lumber support lever knob (2) from seatback frame. Using a hook and pick tool.



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

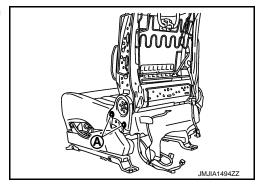
#### **CAUTION:**

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



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

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



#### Assembly

Assemble in the reverse order of disassembly.

#### **CAUTION:**

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

**SEAT CUSHION** 

Disassembly

#### **CAUTION:**

Never disassemble front passenger seat cushion assembly.

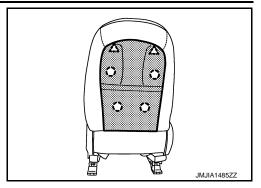
Always replace as an assembly.

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

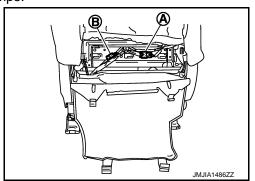
# < REMOVAL AND INSTALLATION >

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

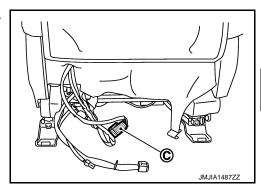
( ) : Clip



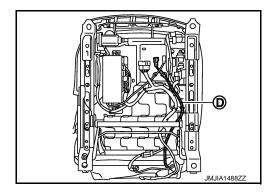
- 2. Remove the seatback trim retainer and seatback trim band from seat cushion frame.
- 3. Disconnect the harness connectors and remove the harness clamps.
  - Disconnect the reclining motor harness connector (A) and lumbar support harness connector (B) (Power lumber support seat only).



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



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



Α

В

D

Е

F

G

SE

K

M

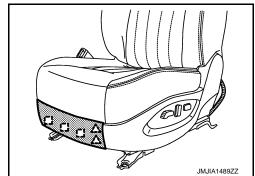
Ν

 $\circ$ 

# < REMOVAL AND INSTALLATION >

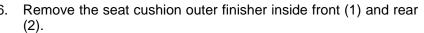
4. Remove the metal clips and pawls, and then pull out seat cushion front finisher.

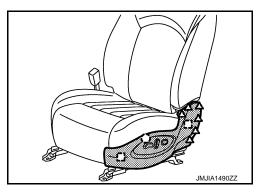
	: Metal clip
Λ.	: Pawl

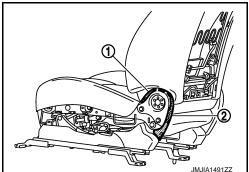


- 5. Remove the seat cushion outer finisher.
  - Remove the seat slide & lifter switch knob and seat reclining switch knob.
  - Remove the clips, metal clips and pawls, and then pull out seat cushion outer finisher outside.
  - Disconnect the seat slide & lifter, seat reclining and lumbar support switch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



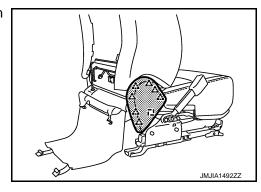






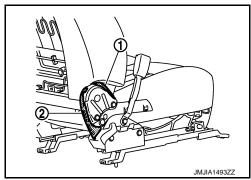
7. Remove the metal clip and pawls, and then pull out seat cushion inner finisher outside.





# < REMOVAL AND INSTALLATION >

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



Α

В

D

Е

Н

SE

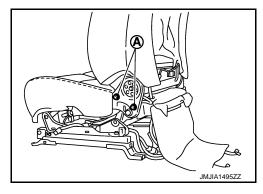
K

M

Ν

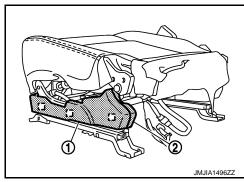
0

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



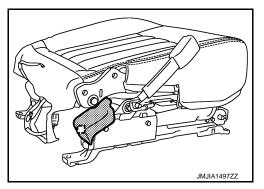
10. Remove the metal clips, and then pull out seat cushion outer lower finisher outside (1) and inside (2).





11. Remove the seat cushion inner lower finisher.



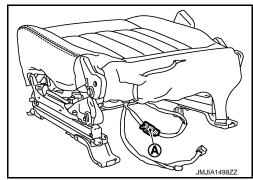


12. Remove the seat cushion trim and seat cushion pad. (Without occupant classification system control unit model)

Ρ

#### < REMOVAL AND INSTALLATION >

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



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

Assembly

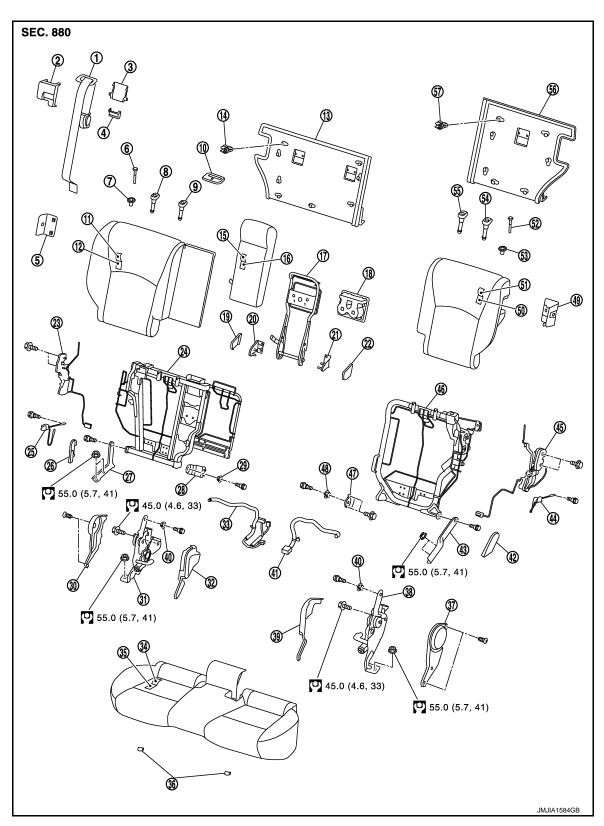
Assemble in the reverse order of disassembly.

#### **CAUTION:**

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

Exploded View

**REAR SEAT** 



D

С

Α

В

Е

F

G

Н

SE

Κ

L

M

Ν

0

#### < 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

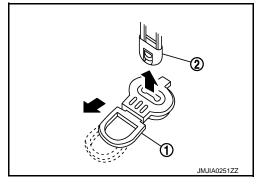
INFOID:0000000007457356

# **REMOVAL**

#### **CAUTION:**

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

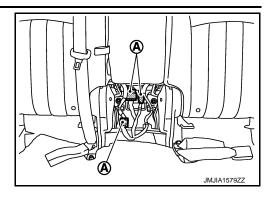
- 1. Remove the seat cushion.
  - Pull the lock lever (1) at the front bottom of the seat cushion forward (1 for each side), and pull the seat cushion upward to release the wire (2) from the seat cushion hook. Then pull the seat cushion forward the remove
  - Remove the seat cushion from vehicle.



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

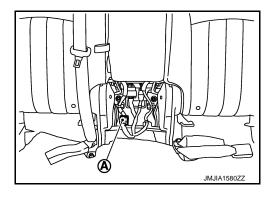
# < REMOVAL AND INSTALLATION >

Disconnect the rear seat harness connectors (A).

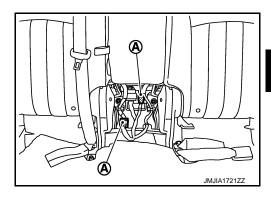


RH seatback

Disconnect the rear seat harness connector (A).

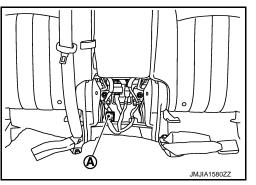


 Without power return seat model LH seatback
 Disconnect the rear seat harness connectors (A).



RH seatback

Disconnect the rear seat harness connector (A).



Α

В

С

D

Е

F

G

Н

1

SE

K

L

M

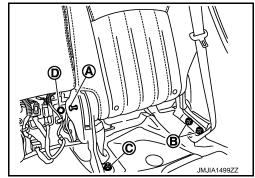
Ν

0

П

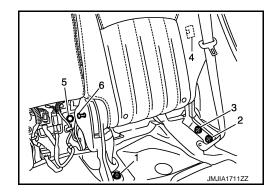
#### < REMOVAL AND INSTALLATION >

- 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.

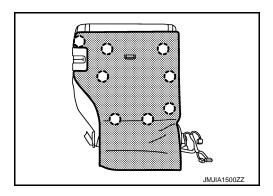
# Disassembly and Assembly

INFOID:0000000007457357

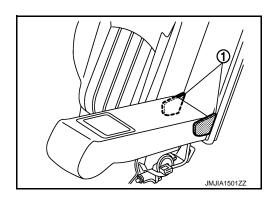
# **SEATBACK**

#### Disassembly

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

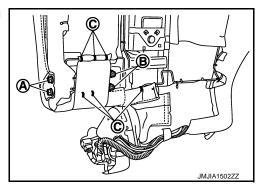


- 2. Remove the armrest.
  - Remove the armrest hinge covers (1).



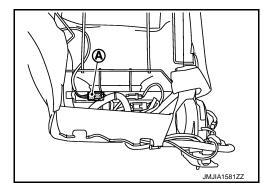
# < REMOVAL AND INSTALLATION >

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



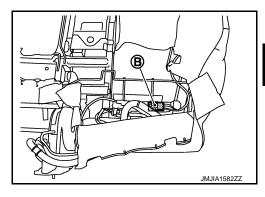
- 3. Remove the seatback device assembly.
  - Remove the seatback trim fixing hog rings.
  - Disconnect the seatback lock harness connector. LH seatback

Disconnect the seatback lock harness connector (A).

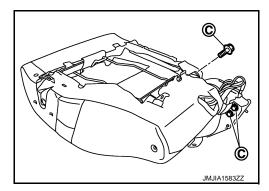


RH seatback

Disconnect the seatback lock harness connector (B).



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



Α

В

С

D

Е

G

Н

SE

K

M

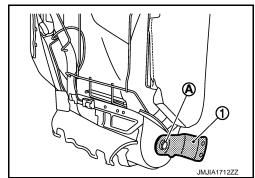
Ν

0

Ρ

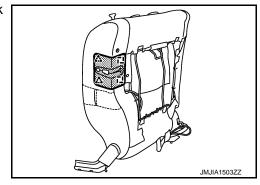
# < REMOVAL AND INSTALLATION >

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

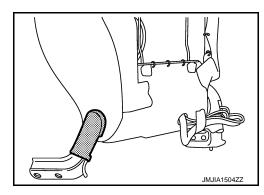


- 5. Remove the seatback trim and pad.
  - Remove the metal clips and pawls, and then pull out seatback lock cover.

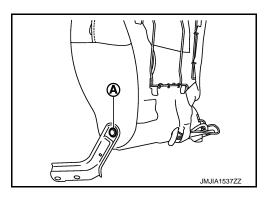




• Remove the seatback hinge outer cover.



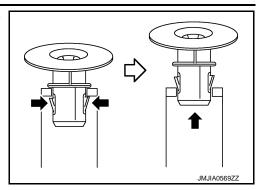
Remove the seatback hinge.
 Remove the seatback hinge mounting bolt (A).



• 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.



Α

В

D

Е

Н

M

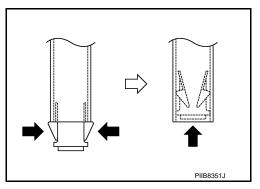
Ν

Р

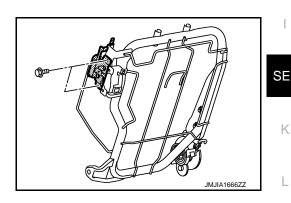
· Remove the headrest holder.

#### **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.



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

#### Assembly

Assemble in the reverse order of disassembly.

# **CAUTION:**

Install the hog rings of seatback trim in position, and then securely connect the trim or trim cord with the seatback frame.

SEAT CUSHION

Disassembly

Remove the hog rings to separate the trim and pad.

Assembly

Assemble in the reverse order of disassembly.

#### **CAUTION:**

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

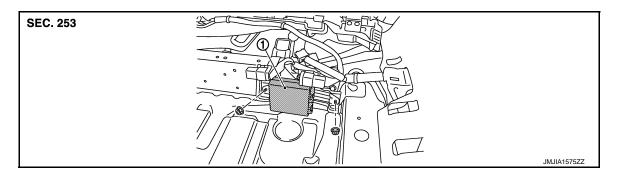
Revision: 2014 October **SE-147** 2012 EX

# 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

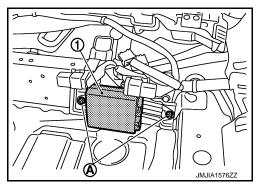
INFOID:0000000007457359

# **REMOVAL**

#### **CAUTION:**

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

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



#### **INSTALLATION**

Install in the reverse order of removal.

#### **CAUTION:**

Be sure to clamp the harness to the right place.

# **HEATED SEAT CONTROL UNIT**

# < REMOVAL AND INSTALLATION >

# HEATED SEAT CONTROL UNIT

Exploded View

Refer to <u>SE-129</u>, "Exploded View".

Removal and Installation

# **REMOVAL**

#### **CAUTION:**

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

- 1. Remove the front seat.
- 2. Disconnect heated seat control unit connector.
- 3. Remove the heated seat control unit from the heated seat control unit stay. Refer to <u>SE-132, "Removal and Installation"</u>.

#### **INSTALLATION**

Install in the reverse order of removal.

#### **CAUTION:**

Always clamp the harness to the right place.

SE

Α

В

D

Е

F

Н

K

L

M

Ν

0

Р

Revision: 2014 October SE-149 2012 EX

# **POWER SEAT SWITCH**

# < REMOVAL AND INSTALLATION >

# POWER SEAT SWITCH

Exploded View

Refer to SE-129, "Exploded View".

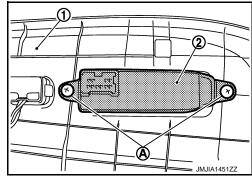
Removal and Installation

# **REMOVAL**

#### **CAUTION:**

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

- 1. Remove the seat cushion outer finisher (1). Refer to <u>SE-132</u>, <u>"Removal and Installation"</u>.
- 2. Remove the screws (A).
- 3. Remove the power seat switch (2) from the seat cushion outer finisher.



#### **INSTALLATION**

Install in the reverse order of removal.

#### **CAUTION:**

Be sure to clamp the harness to the right place.

# **LUMBAR SUPPORT SWITCH**

# < REMOVAL AND INSTALLATION >

# **LUMBAR SUPPORT SWITCH**

Exploded View

Refer to SE-129, "Exploded View".

Removal and Installation

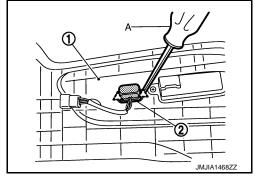
# **REMOVAL**

#### **CAUTION:**

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

- 1. Remove the seat cushion outer finisher (1). Refer to SE-132, "Removal and Installation".
- 2. Remove the lumbar support switch (2) from the seat cushion outer finisher with remover tool (A).





**INSTALLATION** 

Install in the reverse order of removal.

**CAUTION:** 

Be sure to clamp the harness to the right place.

SE

Α

В

C

D

Е

F

Н

Κ

M

Ν

0

# **HEATED SEAT SWITCH**

# < REMOVAL AND INSTALLATION >

# **HEATED SEAT SWITCH**

Exploded View

Refer to IP-22, "Exploded View".

Removal and Installation

# **REMOVAL**

#### **CAUTION:**

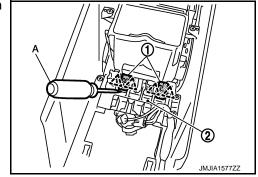
When removing and installing, use shop cloths to protect from damage.

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



#### NOTE:

The same procedure is also performed for passenger side.



#### INSTALLATION

Install in the reverse order of removal.

# **POWER RETURN SWITCH**

# < REMOVAL AND INSTALLATION >

# **POWER RETURN SWITCH**

Exploded View

Refer to IP-22, "Exploded View".

Removal and Installation

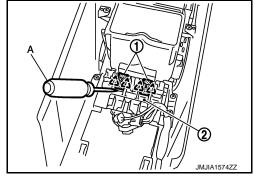
# **REMOVAL**

#### **CAUTION:**

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

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





#### **INSTALLATION**

Install in the reverse order of removal.

SE

Α

В

C

 $\mathsf{D}$ 

Е

F

Н

Κ

L

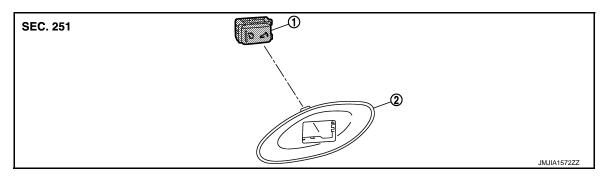
M

Ν

0

# **REAR SEATBACK SWITCH**

Exploded View



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

# Removal and Installation

INFOID:0000000007457371

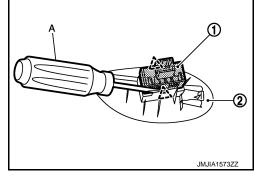
# **REMOVAL**

#### **CAUTION:**

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

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





# **INSTALLATION**

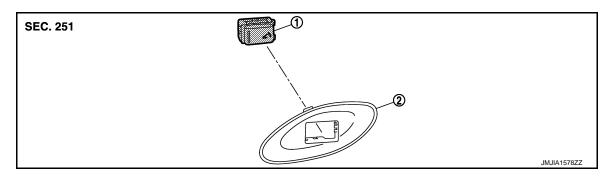
Install in the reverse order of removal.

# **REAR SEATBACK RELEASE SWITCH**

# < REMOVAL AND INSTALLATION >

# REAR SEATBACK RELEASE SWITCH

Exploded View



- Rear seatback release switch
- Luggage side finisher lower escutcheon

# Removal and Installation

INFOID:0000000007457373

Α

В

D

Е

F

Н

SE

K

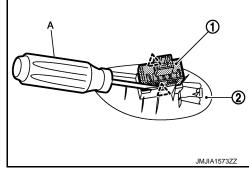
# **REMOVAL**

#### **CAUTION:**

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

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





#### **INSTALLATION**

Install in the reverse order of removal.

M

Ν

0