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## **DIAGNOSIS AND REPAIR WORK FLOW**

< BASIC INSPECTION >

# **BASIC INSPECTION**

## DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

### **DETAILED FLOW**

## 1. OBTAIN INFORMATION ABOUT SYMPTOM

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

>> GO TO 2.

## 2. REPRODUCE THE MALFUNCTION INFORMATION

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

>> GO TO 3.

# ${f 3.}$ 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.

>> GO TO 4.

## 4. IDENTIFY THE MALFUNCTIONING PARTS WITH "COMPONENT DIAGNOSIS"

Perform the diagnosis with "Component diagnosis" of the applicable system.

>> GO TO 5.

## REPAIR OR REPLACE THE MALFUNCTIONING PARTS

Repair or replace the specified malfunctioning parts.

>> GO TO 6.

## 6. FINAL CHECK

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

Are the malfunctions corrected?

YES >> INSPECTION END

NO >> GO TO 3.

# **FUNCTION DIAGNOSIS**

## **POWER SEAT**

## System Description

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.

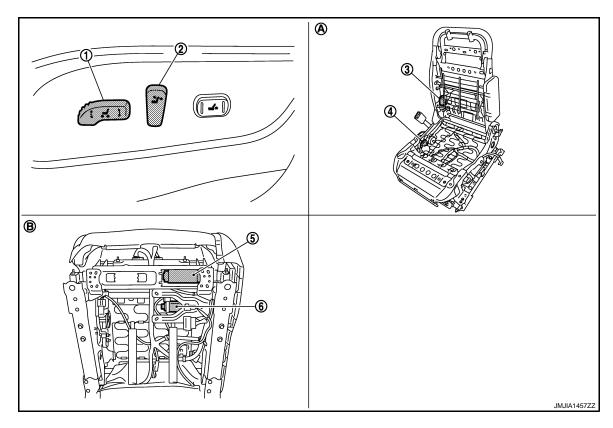
## LIFTING OPERATION

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:0000000003397011

INFOID:0000000003397010



- Sliding switch and lifting switch (driv- 2. er side) B414
- 4. Lifting motor (rear) (driver side) B418 5.
- A. View with seat cushion pad and seat B. back pad are removed.
- Reclining switch (driver side) B414
- Sliding motor (driver side) B416
- Back side of seat cushion
- 3. Reclining motor (driver side) B415
- . Lifting motor (front) (driver side) B417

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## **POWER SEAT**

# < FUNCTION DIAGNOSIS >

# **Component Description**

INFOID:0000000003397012

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 the forward and backward movement of seatback	
Sliding motor	With the power supplied from power seat switch, operates the forward and backward slide of seat	
Lifting motor (front/rear)	With the power supplied from power seat switch, operates the up and down movement of seat cushion	

## **HEATED SEAT**

## System Description

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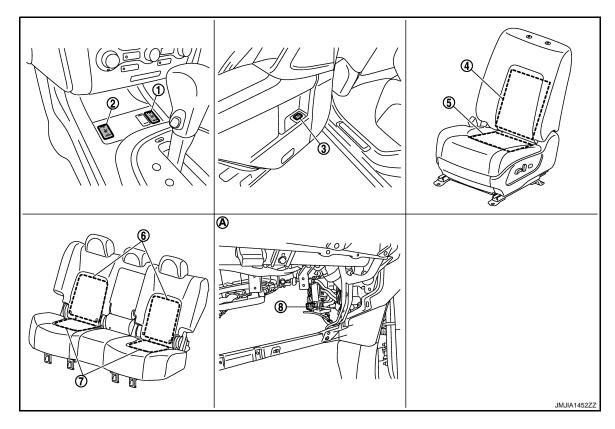
Heated seat is a system that operates when ignition switch is in ON position.

### **HEATER OPERATION**

- While operating the heated seat switch, seat cushion heater and seat back heater operate.
- Temperature of seat can be adjusted by operating on heated seat switch.

## **Component Parts Location**

INFOID:0000000003397014



- Front heated seat switch (passenger 2. side) M203
- Front heated seat switch (driver side) M202

• Driver side B412

• Passenger side B432

Seat cushion heater (front seat)

Heated seat relay (rear seat) M58

- Rear heated seat switch
  - LH: D70
  - RH: D72
- Seat back heater (rear seat)

- Seat back heater (front seat)
  - Driver side B413
  - Passenger side B433
- Seat cushion heater (rear seat)
- View with glove box assembly removed

# **Component Description**

INFOID:0000000003397015

Item	Function
Heated seat switch	<ul> <li>Power is supplied to each heater</li> <li>Depending on LOW/HIGH position of switch, operating heater number is changeable</li> </ul>
Seat cushion heater	Built-in seat cushion, the heater operates with the power supplied from heater seat switch
Seat back heater	Built-in seatback, the heater operates with the power supplied from heater seat switch

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## **LUMBAR SUPPORT**

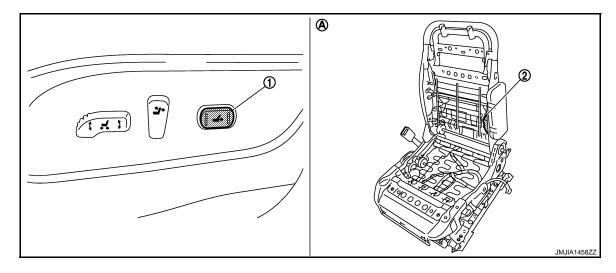
## System Description

INFOID:0000000003396840

- 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:0000000003396841



- Lumbar support switch
   B457 (With automatic drive positioner)
   B407(Without automatic drive positioner)
- A. View with seat back pad is removed
- Lumbar support motor B458 (With automatic drive positioner)
   B408(Without automatic drive positioner)

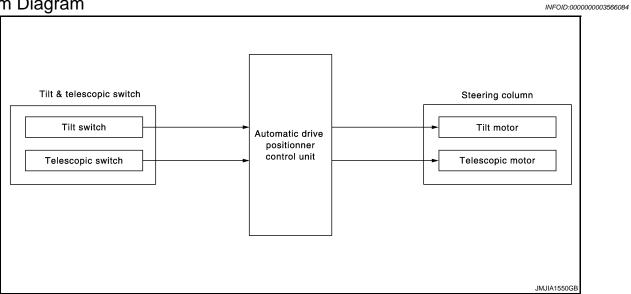
# **Component Description**

INFOID:0000000003396842

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 the forward and backward movement of seatback support device	

## TILT&TELESCOPIC SYSTEM

## System Diagram



## System Description

Power from battery is supplied at all times to automatic driver positioner control unit, tilt & telescopic system can operate regardless of the ignition switch position.

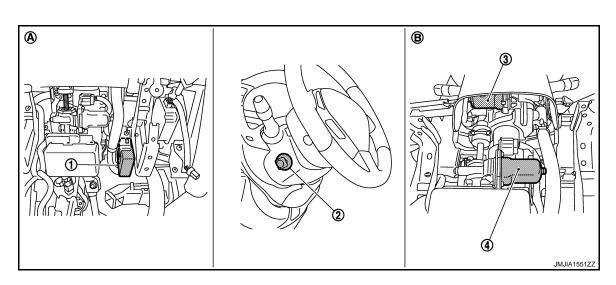
### **TILT OPERATION**

 While operating the tilt & telescopic switch, tilt motor operates, and allows up or down position adjustment of steering wheel.

### TELESCOPIC OPERATION

• Operating the tilt & telescopic switch, telescopic motor operates and allows forward and backward position regulation of steering wheel.

# **Component Parts Location**



- Automatic drive positioner control unit M75, M104
- 2. Tilt & telescopic switch M102
- Tilt motor M116

- 4. Telescopic motor M117
- View with instrument lower panel (LH) is removed.
- View with steering column cover is removed.

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## TILT&TELESCOPIC SYSTEM

## < FUNCTION DIAGNOSIS >

# **Component Description**

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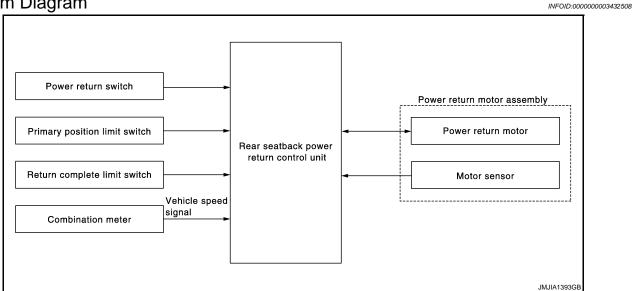
Item	Function
Automatic drive positioner control unit	Detects data input signal of tilt & telescopic switch, performs tilt & telescopic motor control
Tilt & telescopic switch	Tilt switch and telescopic switch, as a unit, transmit switch operation signal to automatic drive positioner control unit
Tilt & telescopic motor	Operates with the power received from automatic drive positioner control unit

## REAR SEATBACK POWER RETURN SYSTEM

### < FUNCTION DIAGNOSIS >

## REAR SEATBACK POWER RETURN SYSTEM

## System Diagram



## System Description

INFOID:0000000003418721

### DESCRIPTION

- 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 on the instrument panel or in the luggage room.
- As for the safety mechanism, the reverse operation is performed if the power return 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
4	Return completion position	Return completion position	ON	OFF
5	Return completion position	Initial position	OFF	OFF

- In the condition that the rear seatback is raised (return completion position), the sector gear is in the initial position and the primary position limit switch and return complete limit switch are OFF.
- When manually operating 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).

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## REAR SEATBACK POWER RETURN SYSTEM

## < FUNCTION DIAGNOSIS >

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

#### NOTE:

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

### ANTI-PINCH OPERATION

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

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

## SECTOR GEAR REVERSE STARTING CONDITION

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

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

### SECTOR GEAR REVERSE STOP CONDITION

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

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

#### NOTE:

The battery voltage indicates the voltage between battery voltage (system) terminal 17 and GND (system) terminal 32 of rear seatback power return control unit. It is normal when the voltage is  $7.5 \pm 10\%$  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.

## REAR SEATBACK POWER RETURN SYSTEM

### < FUNCTION DIAGNOSIS >

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

### INPUT/OUTPUT SIGNAL CHART

Item	Input signal to rear seatback power return control unit	Rear seatback power return function	Actuator
Power return switch	Power return switch signal		
Primary position limit switch	Primary position limit switch signal		
Return complete limit switch	Return complete limit switch signal	Rear seatback power return control	Power return motor
Motor sensor	Motor sensor signal		
Combination meter	Vehicle speed signal		

### BUZZER OPERATION PATTERN AND ORDER OF PRIORITY

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

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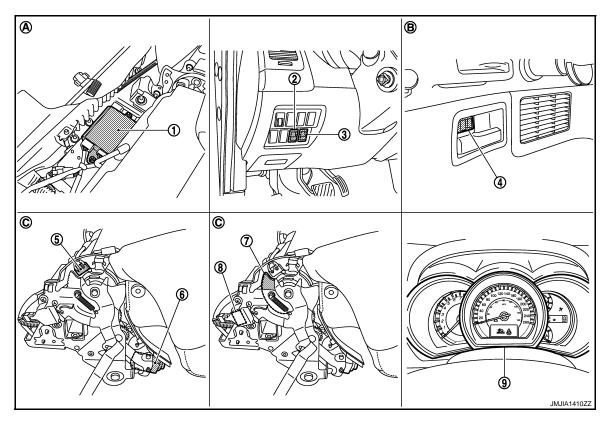
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## **Component Parts Location**

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- Rear seatback power return control 2. unit B492, B493
- 4. Rear power return switch (LH) B106 5.
- 7. Sector gear (RH)
- A. Back of rear seat (RH)

- Front power return switch (LH) M114 3.
- 5. Primary position limit switch (RH)
  B495
- 8. Return complete limit switch (RH) B496
- B. Luggage side (LH)

- Front power return switch (RH) M113
- Power return motor assembly (RH) B494
- 9. Combination meter M34
- C. In seat device

# Component Description

INFOID:0000000003418723

ltem	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
Primary position limit switch	Detect the initial position of sector gear
Return complete limit switch	Detect the return position of rear seatback
Combination meter	Transmit the vehicle speed signal
Sector gear	Transmit the operation of power return motor to rear seatback

# COMPONENT DIAGNOSIS

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

# REAR SEATBACK POWER RETURN CONTROL UNIT: Diagnosis Procedure

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## 1.CHECK FUSE

Check that the following fuses are not fusing.

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

## Is the fuse fusing?

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

NO >> GO TO 2.

# 2. CHECK POWER SUPPLY CIRCUIT

Turn ignition switch OFF.

- Disconnect rear seatback power return control unit connector. 2.
- Check voltage between rear seatback power return control unit harness connector and ground.

(	+)		Voltage	
Rear seatback pow	er return control unit	(–)	Voltage (Approx.)	
Connector	Terminal		,	
B492	16	Cround	Pottory voltogo	
B493	17	Ground	Battery voltage	

### Is the measurement value normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

## 3.CHECK 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
B492	13	Ground	Existed
B493	32		Existed

### Does continuity exist?

YES >> INSPECTION END

>> Repair harness or connector.

## AUTOMATIC DRIVE POSITIONER CONTROL UNIT

## AUTOMATIC DRIVE POSITIONER CONTROL UNIT: Diagnosis Procedure

INFOID:0000000004758042

## 1. CHECK FUSIBLE LINK

Check that the following fuse and fusible link are not fusing.

Terminal No.	Signal name	Fusible link No.
25	Battery power supply	L (40A)

## Is the fuse fusing?

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## POWER SUPPLY AND GROUND CIRCUIT

## < COMPONENT DIAGNOSIS >

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

NO >> GO TO 2.

# 2.CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.

2. Check voltage between automatic drive positioner control unit harness connector and ground.

Automatic drive po	+) ositioner control unit	(-)	Voltage (V) (Approx.)
Connector	Terminals		
M104	25	Ground	Battery voltage

### Is the inspection result normal?

YES >> GO TO 3.

NO >> Check the following.

- Repair or replace harness between fusible link and automatic drive positioner control unit.
- · Circuit breaker.

# 3. CHECK GROUND CIRCUIT

Check continuity between the automatic drive positioner control unit harness connector and ground.

Automatic drive positioner control unit			Continuity
Connector	Terminal	Ground	Continuity
M104	30		Existed

### Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

## < COMPONENT DIAGNOSIS >

## FRONT POWER RETURN SWITCH

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Switch that performs the return operation.

## LH: Component Function Check

INFOID:0000000004758044

## 1. CHECK FUNCTION

LH: Description

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

## Is the inspection result normal?

YES >> Front power return switch (LH) is OK.

>> Refer to SE-17, "LH: Diagnosis Procedure". NO

## LH: Diagnosis Procedure

INFOID:0000000004758045

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

Turn ignition switch OFF.

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

(+) Front power return switch (LH)		(–)	Voltage (V) (Approx.)
Connector	Terminal		(/ (pp/o//)
M114	1	Ground	5

### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

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

Disconnect rear seatback power return control unit connector.

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

Rear seatback pow	er return control unit	Front power re	turn switch (LH)	Continuity
Connector	Terminal	Connector	Terminal	Continuity
B493	28	M114	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
M493	28		Not existed

### Is the inspection result normal?

YES >> Replace rear seatback return control unit. Refer to <u>SE-127, "Removal and Installation"</u>.

NO >> Repair or replace harness.

# 3.CHECK FRONT POWER RETURN SWITCH (LH) GROUND CIRCUIT

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

Connector Terminal Ground  M114 2 Existed	Front power return swite	ch (LH)		Continuity
M114 2 Existed	Connector	Terminal	Ground	Continuity
	M114	2		Existed

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### < COMPONENT DIAGNOSIS >

## Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

## 4.CHECK FRONT POWER RETURN SWITCH (LH)

Check front power return switch (LH).

Refer to SE-18, "LH: Component Inspection".

### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace front power return switch (LH). Refer to <u>SE-132, "Removal and Installation"</u>.

## 5. CHECK INTERMITTENT INCIDENT

Refer to GI-40, "Intermittent Incident".

#### >> INSPECTION END

## LH : Component Inspection

INFOID:0000000004758046

# 1. CHECK FRONT POWER RETURN SWITCH (LH)

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

Front power return switch (LH) connector	Terminal		Condition	Continuity
M114	1 2	Front power return switch (LH) is pressed	Existed	
IVIIIT	1 2	1 2	Front power return switch (LH) is released	Not existed

## Is the inspection result normal?

YES >> Front power return switch (LH) is OK.

NO >> Replace front power return switch (LH). Refer to SE-132, "Removal and Installation".

RH

RH: Description

Switch that performs the return operation.

## RH: Component Function Check

INFOID:0000000004758048

## 1. CHECK FUNCTION

Check that the rear seatback (RH) rises when pressing and holding the front power return switch (RH). Is the inspection result normal?

YES >> Front power return switch (RH) is OK.

NO >> Refer to SE-18, "RH: Diagnosis Procedure".

# RH: Diagnosis Procedure

INFOID:0000000004758049

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

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

(+)			V 1/2 0.0
Front power return switch (RH)		(–)	Voltage (V) (Approx.)
Connector	Terminal		()
M113	1	Ground	5

### Is the inspection result normal?

### < COMPONENT DIAGNOSIS >

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

# 2.check front power return switch (rh) circuit

1. Disconnect rear seatback power return control unit connector.

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

Rear seatback pow	er return control unit	Front power return switch (RH)		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
B493	20	M113	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
B493	20		Not existed

### Is the inspection result normal?

>> Replace rear seatback power return control unit. Refer to SE-127, "Removal and Installation".

NO >> Repair or replace harness.

# 3.check front power return switch (RH) ground circuit

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

Front power return swit		Continuity	
Connector	Connector Terminal		Continuity
M113	2		Existed

### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

# 4. CHECK FRONT POWER RETURN SWITCH (RH)

Check front power return switch (RH).

Refer to SE-19, "RH: Component Inspection".

### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace front power return switch (RH). Refer to SE-132, "Removal and Installation".

## 5. CHECK INTERMITTENT INCIDENT

Refer to GI-40, "Intermittent Incident".

>> INSPECTION END

## RH: Component Inspection

# 1. CHECK FRONT POWER RETURN SWITCH (RH)

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

Front power return switch (RH) connector	Terminal		Condition	Continuity
M113	1	2	Front power return switch (RH) is pressed	Existed
WITIS	1 2		Front power return switch (RH) is released	Not existed

### Is the inspection result normal?

>> Front power return switch (RH) is OK.

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INFOID:0000000004758050

## < COMPONENT DIAGNOSIS >

NO >> Replace front power return switch (RH). Refer to <u>SE-132, "Removal and Installation"</u>.

### < COMPONENT DIAGNOSIS >

## REAR POWER RETURN SWITCH

LH

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LH : Description

INFUID:0000000004758051

Switch that performs the return operation.

## LH: Component Function Check

INFOID:0000000004758052

## 1. CHECK FUNCTION

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

## Is the inspection result normal?

YES >> Rear power return switch (LH) is OK.

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

## LH : Diagnosis Procedure

INFOID:0000000004758053

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

Turn ignition switch OFF.

2. Disconnect rear power return switch (LH) connector.

3. Check voltage between rear power return switch (LH) harness connector and ground.

(+)  Rear power return switch (L	(-)	Voltage (V)	
Connector Terminal			(Approx.)
B106	1	Ground	5

### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

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

1. Disconnect rear seatback power return control unit connector.

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

Rear seatback pow	er return control unit	Rear power return switch (LH)		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
B493	28	B106	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
B493	28		Not existed

### Is the inspection result normal?

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YES >> Replace rear power return control unit. Refer to <u>SE-127</u>, "Removal and Installation".

NO >> Repair or replace harness.

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

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

Rear power return swit		Continuity	
Connector	Terminal	Ground	Continuity
B106	2		Existed

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### < COMPONENT DIAGNOSIS >

## Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

## f 4.CHECK REAR POWER RETURN SWITCH (LH)

Check rear power return switch (LH).

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

### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace rear power return switch (LH). Refer to <u>SE-133, "Removal and Installation"</u>.

## 5. CHECK INTERMITTENT INCIDENT

Refer to GI-40, "Intermittent Incident".

#### >> INSPECTION END

## LH : Component Inspection

INFOID:0000000004758054

# 1. CHECK REAR POWER RETURN SWITCH (LH)

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

Rear power return switch (LH) connector	Terminal		Condition	Continuity
B106	P106 1 1		Rear power return switch (LH) is pressed	Existed
B100	'		Rear power return switch (LH) is released	Not existed

## Is the inspection result normal?

YES >> Rear power return switch (LH) is OK.

NO >> Replace rear power return switch (LH). Refer to SE-133, "Removal and Installation".

RH

RH: Description

Switch that performs the return operation.

## RH: Component Function Check

INFOID:0000000004758056

## 1. CHECK FUNCTION

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

#### Is the inspection result normal?

YES >> Rear power return switch (RH) is OK.

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

# RH: Diagnosis Procedure

INFOID:0000000004758057

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

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

(+)		V 1/2 0.0	
Rear power return switch (R	(–)	Voltage (V) (Approx.)	
Connector	Terminal		(
B105	1	Ground	5

### Is the inspection result normal?

### < COMPONENT DIAGNOSIS >

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

# 2.check rear power return switch (rh) circuit

1. Disconnect rear seatback power return control unit connector.

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

Rear seatback pow	er return control unit	Rear power return switch (RH)		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B493	20	B105	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
M493	20		Not existed

## Is the inspection result normal?

>> Replace rear seatback power return control unit. Refer to SE-127, "Removal and Installation".

NO >> Repair or replace harness.

# 3.CHECK REAR POWER RETURN SWITCH (RH) GROUND CIRCUIT

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

Rear power return swite		Continuity	
Connector	Connector Terminal		
B105	2		Existed

### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

# 4. CHECK REAR POWER RETURN SWITCH (RH)

Check rear power return switch (RH).

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

### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace rear power return switch (RH). Refer to SE-133, "Removal and Installation".

## 5. CHECK INTERMITTENT INCIDENT

Refer to GI-40, "Intermittent Incident".

### >> INSPECTION END

## RH: Component Inspection

# 1. CHECK REAR POWER RETURN SWITCH (RH)

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

Rear power return switch (RH) connector	Terminal		Condition	Continuity
B105	1	2	Rear power return switch (RH) is pressed	Existed
	ľ		Rear power return switch (RH) is released	Not existed

### Is the inspection result normal?

>> Rear power return switch (RH) is OK.

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## < COMPONENT DIAGNOSIS >

IO >> Replace rear power return switch (RH). Refer to <u>SE-133, "Removal and Installation"</u>.

## < COMPONENT DIAGNOSIS >

## PRIMARY POSITION LIMIT SWITCH

LH

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Detect the initial position of sector gear (LH).

LH: Component Function Check

INFOID:0000000004758060

## 1. CHECK FUNCTION

LH: Description

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

Is the inspection result normal?

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

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

## LH : Diagnosis Procedure

INFOID:0000000004758061

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

Turn ignition switch OFF.

2. Disconnect primary position limit switch (LH) connector.

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

(+) Primary position limit switch (LH)		(-)	Voltage (V) (Approx.)
Connector	Terminal		( ) 1 - 7
B499	1	Ground	Battery voltage

#### NOTE:

It is not low power consumption mode.

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

# 2.check primary position limit switch (LH) signal circuit

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

Rear seatback pow	Rear seatback power return control unit		Primary position limit switch (LH)		
Connector	Terminal	Connector Terminal		Continuity	
B493	21	B499	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	Connector Terminal		Continuity
B493	21		Not existed

### Is the inspection result normal?

YES >> Replace rear seatback power return control unit. Refer to <u>SE-127</u>, "Removal and Installation".

NO >> Repair or replace harness.

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

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

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## < COMPONENT DIAGNOSIS >

Rear seatback power return control unit		Primary position	Continuity	
Connector	Terminal	Connector Terminal		Continuity
B493	31	B499	2	Existed

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

Rear seatback power return control unit			Continuity
Connector	Connector Terminal		Continuity
B493	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-26, "LH: Component Inspection".

### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace primary position limit switch (LH) [reclining device assembly (LH)]. Refer to <u>SE-114</u>, "Exploded View".

# 5. CHECK INTERMITTENT INCIDENT

Refer to GI-40, "Intermittent Incident".

>> INSPECTION END

## LH: Component Inspection

INFOID:0000000004758062

INFOID:0000000004758064

### COMPONENT INSPECTION

# 1. CHECK PRIMARY POSITION LIMIT SWITCH (LH)

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

Primary position limit switch (LH) connector	Terr	minal	Condition	Continuity
B499	1	2	Primary position limit switch (LH) is pressed	Existed
	Į.	2	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) [reclining device assembly (LH)]. Refer to <u>SE-114</u>, "Exploded View".

RH

NO

RH: Description

Detect the initial position of sector gear (RH).

## RH : Component Function Check

# 1. CHECK FUNCTION

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

### Is the inspection result normal?

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

NO >> Refer to <u>SE-27</u>. "RH: <u>Diagnosis Procedure"</u>.

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## < COMPONENT DIAGNOSIS >

## RH: Diagnosis Procedure

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

- Turn ignition switch OFF.
- 2. Disconnect primary position limit switch (RH) connector.
- Check voltage between primary position limit switch (RH) harness connector and ground.

(+)			\/oltogo (\/)	
Primary position limit switch (RH)		(–)	Voltage (V) (Approx.)	
Connector	Terminal			
B495	1	Ground	Battery voltage	

### NOTE:

It is not low power consumption mode.

### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

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

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

Rear seatback power return control unit		Primary position	Continuity	
Connector	Terminal	Connector	Terminal	Continuity
B493	22	B495	1	Existed

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

Rear seatback power return control unit			Continuity
Connector Terminal		Ground	Continuity
B493	22		Not existed

### Is the inspection result normal?

YES >> Replace rear seatback return control unit. Refer to <u>SE-127, "Removal and Installation"</u>.

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
B493	23	B495	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
B493	23		Not existed

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

# 4. CHECK PRIMARY POSITION LIMIT SWITCH (RH)

Check primary position limit switch (RH).

Refer to SE-28, "RH: Component Inspection".

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### < COMPONENT DIAGNOSIS >

## Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace primary position limit switch (RH) [reclining device assembly (RH)]. Refer to <u>SE-114</u>, "Exploded View".

## 5. CHECK INTERMITTENT INCIDENT

Refer to GI-40, "Intermittent Incident".

>> INSPECTION END

## **RH**: Component Inspection

INFOID:0000000004758066

## 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) connector	r Terminal		Condition	Continuity
B495	1	2	Primary position limit switch (RH) is pressed	Existed
D493	, I		Primary position limit switch (RH) is released	Not existed

## Is the inspection result normal?

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

NO >> <u>SE-114, "Exploded View"</u>Replace primary position limit switch (RH) [reclining device assembly (RH)]. Refer to .

## < COMPONENT DIAGNOSIS >

## RETURN COMPLETE LIMIT SWITCH

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

## LH: Component Function Check

INFOID:0000000004758068

## 1. CHECK FUNCTION

LH: Description

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

## Is the inspection result normal?

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

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

## LH: Diagnosis Procedure

INFOID:0000000004758069

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

Turn ignition switch OFF.

2. Disconnect return complete limit switch (LH) connector.

Check voltage between return complete limit switch (LH) harness connector and ground.

(+) Return complete limit switch (LH)		(-)	Voltage (V) (Approx.)	
Connector	Terminal		(11 - 7	
B500	1	Ground	Battery voltage	

#### NOTE:

It is not low power consumption mode.

### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

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

Disconnect rear seatback power return control unit connector.

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

Rear seatback pow	Rear seatback power return control unit		Return complete limit switch (LH)	
Connector	Terminal	Connector Terminal		Continuity
B493	29	B500	1	Existed

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

Rear seatback power return control unit			Continuity
Connector Terminal		Ground	Continuity
B493	B493 29		Not existed

### Is the inspection result normal?

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YFS >> Replace rear seatback power return control unit. Refer to SE-127, "Removal and Installation".

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 return complete limit switch (LH) harness connector.

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## < COMPONENT DIAGNOSIS >

Rear seatback power return control unit		Return complete limit switch (LH)		Continuity
Connector	Terminal	Connector Terminal		Continuity
B493	31	B500	2	Existed

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

Rear seatback power return control unit			Continuity
Connector Terminal		Ground	Continuity
B493	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-30, "LH: Component Inspection".

### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace return complete limit switch (LH) [reclining device assembly (LH)]. Refer to <u>SE-114</u>, <u>"Exploded View"</u>.

# 5. CHECK INTERMITTENT INCIDENT

Refer to GI-40, "Intermittent Incident".

>> INSPECTION END

## LH: Component Inspection

INFOID:0000000004758070

## COMPONENT INSPECTION

# 1. CHECK RETURN COMPLETE LIMIT SWITCH (LH)

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

Return complete limit switch (LH) connector	Terr	ninal	Condition	Continuity
B500	1	1 2	Return complete limit switch (LH) is pressed	Existed
	'		Return complete limit switch (LH) is released	Not existed

#### Is the inspection result normal?

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

>> Replace return complete limit switch (LH) [reclining device assembly (LH)]. Refer to <u>SE-114</u>, "Exploded View".

RH

NO

RH: Description

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

## RH: Component Function Check

INFOID:0000000004758072

## 1. CHECK FUNCTION

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

### Is the inspection result normal?

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

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

## < COMPONENT DIAGNOSIS >

## RH: Diagnosis Procedure

INFOID:0000000004758073

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

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

(+)			Voltage (V)	
Return complete limit switch (RH)		(–)	(Approx.)	
Connector	Connector Terminal		, , ,	
B496	1	Ground	Battery voltage	

### NOTE:

It is not low power consumption mode.

### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

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

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

Rear seatback pow	Rear seatback power return control unit		Return complete limit switch (RH)	
Connector	Terminal	Connector Terminal		Continuity
B493	30	B496	1	Existed

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

Rear seatback power return control unit			Continuity
Connector Terminal		Ground	Continuity
B493	B493 30		Not existed

### Is the inspection result normal?

YES >> Replace rear seatback power return control unit. Refer to SE-127, "Removal and Installation".

NO >> Repair or replace harness.

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

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

Rear seatback pow	Rear seatback power return control unit		Return complete limit switch (RH)	
Connector	Terminal	Connector Terminal		Continuity
B493	23	B496	2	Existed

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

Rear seatback pov	ver return control unit		Continuity
Connector	Terminal	Ground	Continuity
B493	23		Not existed

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

# 4. CHECK RETURN COMPLETE LIMIT SWITCH (RH)

Check return complete limit switch (RH).

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

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## < COMPONENT DIAGNOSIS >

## Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace return complete limit switch (RH) [reclining device assembly (RH)]. Refer to <u>SE-114</u>, "Exploded View".

## 5. CHECK INTERMITTENT INCIDENT

Refer to GI-40, "Intermittent Incident".

>> INSPECTION END

**RH**: Component Inspection

### INFOID:0000000004758074

## COMPONENT INSPECTION

# 1. CHECK RETURN COMPLETE LIMIT SWITCH (RH)

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

Return complete limit switch (RH) connector	Terminal		Condition	Continuity
B496	1	2	Return complete limit switch (RH) is pressed	Existed
5490			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) [reclining device assembly (RH)]. Refer to <u>SE-114, "Exploded View"</u>.

### < COMPONENT DIAGNOSIS >

## MOTOR SENSOR

LH

LH: Description

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

## LH: Component Function Check

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## 1. CHECK FUNCTION

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

## Is the inspection result normal?

YES >> Motor sensor (LH) is OK.

NO >> Refer to <u>SE-33</u>, "LH: <u>Diagnosis Procedure"</u>.

## LH : Diagnosis Procedure

INFOID:0000000004758077

# 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.

	+) er return control unit	(–)	Condition	Voltage (V) (Approx.)
Connector	Terminal			(/ (PP1-5///)
B492	10	Ground	During the power return motor (LH) operation	(V) 6 4 2 0 10 ms
			When pinching between LH/RH seats occurs	The above pulse width should be expanded

### Is the inspection result normal?

YES >> GO TO 7.

NO >> GO TO 2.

# 2.CHECK MOTOR SENSOR (LH) SIGNAL CIRCUIT

- Disconnect power return motor assembly (LH) connector and rear seatback power return control unit connector.
- 2. 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 mo	Continuity	
Connector	Terminal	Connector Terminal		Continuity
B492	10	B498	3	Existed

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

Rear seatback pow	er return control unit		Continuity
Connector	Terminal	Ground	Continuity
B492	10		Not existed

#### Is the inspection result normal?

YES >> GO TO 3.

## **MOTOR SENSOR**

### < COMPONENT DIAGNOSIS >

NO >> Repair or replace harness.

# ${f 3.}$ 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.

(	+)			N. Harris (N.O.)
Power return mo	Power return motor assembly (LH)		Condition	Voltage (V) (Approx.)
Connector	Terminal			( ) 1 - /
B498	6	Ground	When the power return motor is operated	Battery voltage

### Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

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

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

Rear seatback power return control unit		Power return motor assembly (LH)		Continuity
Connector	Terminal	Connector Terminal		Continuity
B492	11	B498	6	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	
B492	11		Not existed	

### Is the inspection result normal?

YES >> Replace rear seatback power return control unit. Refer to <u>SE-127, "Removal and Installation"</u>.

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 rear seatback power return control unit harness connector and power return motor assembly harness connector.

Rear seatback pow	er return control unit	Power return motor assembly (LH)  Connector Terminal		Continuity
Connector	Terminal			Continuity
B492	9	B498	4	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 between rear seatback power return control unit harness connector and ground.

Rear seatback pow	er return control unit		Continuity
Connector	Terminal	Ground	Continuity
B492	9		Existed

## Is the inspection result normal?

YES >> Replace motor sensor (LH) [reclining device assembly (LH)]. Refer to <u>SE-114, "Exploded View"</u>.

NO >> Replace rear seatback power return control unit. Refer to <u>SE-127</u>, "Removal and Installation".

## **MOTOR SENSOR**

### < COMPONENT DIAGNOSIS >

## 7. CHECK INTERMITTENT INCIDENT

Refer to GI-40, "Intermittent Incident".

### >> INSPECTION END

RH

RH: Description

Description INFOID:0000000004758078

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).

## Is the inspection result normal?

YES >> Motor sensor (RH) is OK.

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

## RH: Diagnosis Procedure

# 1. CHECK MOTOR SENSOR (RH) OUTPUT SIGNAL

1. Turn ignition switch OFF.

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

(+) Rear seatback power return control unit				
		(–)	Condition	Voltage (V) (Approx.)
Connector	Terminal			(, , , , , , , , , , , , , , , , , , ,
B492	2	Ground	During the power return motor (RH) operation	(V) 6 4 2 0 10 ms
			When pinching between LH/RH seats occurs	The above pulse width should be expanded

## Is the inspection result normal?

YES >> GO TO 7.

NO >> GO TO 2.

# 2.CHECK MOTOR SENSOR (RH) SIGNAL CIRCUIT

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

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

Rear seatback pow	ear seatback power return control unit		Power return motor assembly (RH)		
Connector	Terminal	Connector Terminal		Continuity	
B492	2	B494	3	Existed	

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

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### **MOTOR SENSOR**

### < COMPONENT DIAGNOSIS >

Rear seatback pow	Rear seatback power return control unit		Continuity	
Connector	Terminal	Ground	Continuity	
B492	2		Not existed	

## Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

# 3.check motor sensor (RH) power supply

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

(+)				V-16 () ()	
Power return motor assembly (RH)		(–)	Condition	Voltage (V) (Approx.)	
Connector	Terminal			( ) 1 - /	
B494	6	Ground	When the power return motor is operated	Battery voltage	

### Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

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

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

Rear seatback power return control unit		Power return motor assembly (RH)		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
B492	3	B494	6	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	
B492	3		Not existed	

### Is the inspection result normal?

YES >> Replace rear seatback power return control unit. Refer to <u>SE-127, "Removal and Installation"</u>.

NO >> Repair or replace harness.

# 5. CHECK MOTOR SENSOR (RH) GROUND CIRCUIT 1

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

Rear seatback power return control unit		Power return motor assembly (RH)		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
B492	1	B494	4	Existed	

### Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

## 6.CHECK MOTOR SENSOR (RH) GROUND CIRCUIT 2

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

#### **MOTOR SENSOR**

#### < COMPONENT DIAGNOSIS >

Rear seatback pow	er return control unit		Continuity
Connector	Terminal	Ground	Continuity
B492	9		Existed

#### Is the inspection result normal?

- YES >> Replace motor sensor (RH) [reclining device assembly (RH)]. Refer to <u>SE-114, "Exploded View"</u>.
- NO >> Replace rear seatback power return control unit. Refer to <u>SE-127, "Removal and Installation"</u>.

## 7. CHECK INTERMITTENT INCIDENT

Refer to GI-40, "Intermittent Incident".

>> INSPECTION END

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#### **POWER RETURN MOTOR**

#### < COMPONENT DIAGNOSIS >

#### POWER RETURN MOTOR

LH

LH: Description

Operate the rear seatback.

LH: Component Function Check

INFOID:0000000004758082

#### 1. CHECK 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 motor (LH) is OK.

NO >> Refer to <u>SE-38</u>, "LH: <u>Diagnosis Procedure"</u>.

#### LH: Diagnosis Procedure

INFOID:0000000004758083

## 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) return operation	Battery voltage
B498		Cround	Other than the above	0
D490	B498 Ground 5		During the power return motor (LH) reverse operation	Battery voltage
			Other than the above	0

#### Is the inspection result normal?

YES >> Replace power return motor assembly (LH) [reclining device assembly (LH)]. Refer to <u>SE-114</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 power	return control unit	Power return motor assembly (LH)		Continuity
Connector	Terminal	Connector Terminal		Continuity
B492	5	B498	5	Existed
D432	6	D490	1	LXISIEU

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	
B492	5	Ground	Not existed	
	6		Not existed	

#### Is the inspection result normal?

YES >> Replace rear seatback power return control unit. Refer to <u>SE-127</u>, "Removal and Installation".

#### **POWER RETURN MOTOR**

#### < COMPONENT DIAGNOSIS >

NO >> Repair or replace harness.

RH

INFOID:0000000004758084

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Operate the rear seatback.

RH: Description

RH: Component Function Check

INFOID:0000000004758085

### 1. CHECK 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 motor (RH) is OK.

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

#### RH : Diagnosis Procedure

Е INFOID:0000000004758086

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

Turn ignition switch OFF.

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

(+) Power return motor	(+) Power return motor assembly (RH) (-)		Condition	Voltage (V) (Approx.)
Connector	Terminal			(, 44, 2,)
	During the power return motor (RH) return operation		Battery voltage	
B494	P404		Other than the above	0
D <del>4</del> 94	5	Ground	During the power return motor (RH) reverse operation	Battery voltage
			Other than the above	0

#### Is the inspection result normal?

YES >> Replace power return motor assembly (RH) [reclining device assembly (RH)]. Refer to <u>SE-114.</u> "Exploded View".

NO >> GO TO 2.

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

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

Rear seatback power	r return control unit	Power return motor assembly (RH)		Continuity
Connector	Terminal	Connector Terminal		Continuity
B492	7 B494		5	Existed
D432	8	D-194	1	LAISIEU

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
B492	7	Ground	Not existed
5432	8		1401 CXISIEU

#### Is the inspection result normal?

>> Replace rear seatback power return control unit. Refer to SE-127, "Removal and Installation". YES

NO >> Repair or replace harness. SE

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

#### < COMPONENT DIAGNOSIS >

## VEHICLE SPEED SIGNAL CIRCUIT

Description INFOID:000000004758087

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

## Component Function Check

INFOID:0000000004758088

## 1. CHECK FUNCTION

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

#### Is the inspection result normal?

YES >> Vehicle speed signal circuit is OK.

NO >> Refer to SE-40, "Diagnosis Procedure".

#### Diagnosis Procedure

INFOID:0000000004758089

## 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.

<u></u>	+) er return control unit	(–)	Condition	Voltage (V) (Approx.)
Connector	Terminal	•	(дриох.)	
B493	24	Ground	When vehicle speed is approx.40 km/h (25MPH)	NOTE:  Maximum voltage may be 12V due to specifications (connected units)  (V) 6 4 2 0  ***20ms  SKIA6649J

#### Is the inspection result normal?

YES >> GO TO 3.

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

## 3.CHECK VEHICLE SPEED SIGNAL CIRCUIT

- 1. Disconnect rear seatback power return control unit connector and combination meter connector.
- Check continuity between power return control unit harness connector and combination meter harness connector.

Rear seatback power return control unit		Combination meter		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B493	24	M34	31	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
B493	24		Not existed

# **VEHICLE SPEED SIGNAL CIRCUIT** < COMPONENT DIAGNOSIS > Is the inspection result normal? Α YES >> GO TO 4. NO >> Repair or replace harness. 4. CHECK INTERMITTENT INCIDENT В Refer to GI-40, "Intermittent Incident". >> INSPECTION END С D Е F G Н SE Κ L

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#### TILT&TELESCOPIC SWITCH

#### < COMPONENT DIAGNOSIS >

## TILT&TELESCOPIC SWITCH

Description INFOID:0000000003566153

Tilt & telescopic switch as a unit, transmits switch operation signal to automatic drive positioner control unit.

## Component Function Check

INFOID:0000000003566154

## 1. CHECK TILT & TELESCOPIC SWITCH FUNCTION

Check tilt & telescopic operation with tilt & telescopic switch.

#### Is the inspection results normal?

YES >> Tilt & telescopic switch is OK.

NO >> Refer to <u>SE-42</u>, "<u>Diagnosis Procedure</u>".

#### Diagnosis Procedure

INFOID:0000000003566155

## 1. CHECK AUTOMATIC DRIVE POSITIONER CONTROL UNIT OUTPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect tilt & telescopic switch connector.
- 3. Check voltage between tilt & telescopic switch harness connector and ground.

Tilt & tele	(+) Tilt & telescopic switch		Voltage (V) (Approx.)	
Connector	Terminal		(/ (pprox.)	
	2			
M102	3	Ground	5	
WITOZ	4	Giouna	5 	
	5			

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

## 2.CHECK TILT & TELESCOPIC SWITCH SIGNAL CIRCUIT

- 1. Disconnect automatic drive positioner control unit connector.
- Check continuity between tilt & telescopic switch harness connector and automatic drive positioner control unit harness connector.

Tilt & teles	Tilt & telescopic switch Automatic drive positioner control unit		ositioner control unit	Continuity
Connector	Terminal	Connector	Terminal	Continuity
	2		1	
M102	3	M75	13	Existed
IVI 102	4		19	Existed
	5		7	

Check continuity between tilt & telescopic switch harness connector and ground.

Tilt & telescopic switch			Continuity
Connector	Terminal		Continuity
M102	2	Ground	
	3	Giodila	Not existed
	4		
	5		

#### Is the inspection result normal?

#### TILT&TELESCOPIC SWITCH

#### < COMPONENT DIAGNOSIS >

YES >> Replace automatic drive positioner control unit. Refer to SE-134, "Removal and Installation".

NO >> Repair or replace harness.

## 3.CHECK TILT & TELESCOPIC SWITCH GROUND CIRCUIT

Check continuity between tilt & telescopic switch harness connector and ground.

Tilt & teles	copic switch		Continuity
Connector Terminal		Ground	Continuity
M102	1		Existed

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

## 4. CHECK TILT & TELESCOPIC SWITCH

Check tilt & telescopic switch.

Refer to SE-43, "Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace tilt & telescopic switch.Refer to <u>SE-135, "Removal and Installation"</u>.

#### 5. CHECK INTERMITTENT INCIDENT

Refer to GI-40, "Intermittent Incident".

>> INSPECTION END

## Component Inspection

INFOID:0000000003566156

## 1. CHECK TILT & TELESCOPIC SWITCH

- 1. Turn ignition switch OFF.
- 2. Disconnect tilt & telescopic switch connector.
- 3. Check continuity between tilt & telescopic switch terminals.

Terminal		Condition		Continuity
2			Upward position	Existed
2	2	Tilt & telescopic switch	Other than above	Not existed
2	3 1 Tilt &		Downward position	Existed
3			Other than above	Not existed
4			Backward position	Existed
4			Other than above	Not existed
-			Forward position	Existed
5			Other than above	Not existed

#### Is the inspection result normal?

YES >> Tilt & telescopic switch is OK.

NO >> Replace tilt & telescopic switch. Refer to <u>SE-135. "Removal and Installation"</u>.

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#### **TILT MOTOR**

**Description** 

Tilt motor operates with the power received from automatic drive positioner control unit.

## Component Function Check

INFOID:0000000003566158

## 1. CHECK TILT MOTOR FUNCTION

Check tilt operation with tilt & telescopic switch.

#### Is the inspection results normal?

YES >> Tilt motor is OK.

NO >> Refer to <u>SE-44, "Diagnosis Procedure"</u>.

## Diagnosis Procedure

INFOID:0000000003566159

## 1. CHECK TILT MOTOR INPUT SIGNAL

- Turn ignition switch OFF.
- 2. Disconnect tilt motor connector.
- 3. Check voltage between tilt motor harness connector and ground.

	+) motor	(-)	Condition	Voltage (V) (Approx.)	
Connector	Terminal			(Арргох.)	
	1		Tilt & telescopic switch is downward position	Battery voltage	
M446	M116	Ground	Other than above	0	
WITTO	2	Ground	Tilt & telescopic switch is upward position	Battery voltage	
2		Other than above	0		

#### Is the inspection result normal?

YES >> Replace tilt motor.

NO >> GO TO 2.

## 2. CHECK TILT MOTOR CIRCUIT

- 1. Disconnect automatic drive positioner control unit connector.
- Check continuity between tilt motor harness connector and automatic drive positioner control unit harness connector.

Tilt	motor	Automatic drive	positioner control	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M116	M116 1 M104		28	Existed
M116	2	IVI 104	29	Existed

Check continuity between tilt motor harness connector and ground.

Tilt motor			Continuity
Connector	Terminal	Ground	Continuity
M116	1	Ground	Not existed
M116	2		INOL EXISTED

#### Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to <u>SE-134, "Removal and Installation"</u>.

NO >> Repair or replace harness.

## TELESCOPIC MOTOR

Description INFOID:0000000003573807

Telescopic motor operates with the power received from automatic drive positioner control unit.

## Component Function Check

## INFOID:0000000003573808

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## 1. CHECK TELESCOPIC MOTOR FUNCTION

Check telescopic operation with tilt & telescopic switch.

#### Is the inspection results normal?

YES >> Telescopic motor is OK.

>> Refer to SE-45, "Diagnosis Procedure". NO

## Diagnosis Procedure

#### Е INFOID:0000000003573809

## 1. CHECK TELESCOPIC MOTOR INPUT SIGNAL

- Turn ignition switch OFF.
- Disconnect telescopic motor connector.
- Check voltage between telescopic motor harness connector and ground.

	(+) pic motor	(-)	Condition	Voltage (V) (Approx.)	
Connector	Terminal			(Approx.)	
	1		Tilt & telescopic switch is backward position	Battery voltage	
M117	1 Cround	Other that	Other than above	0	
IVI I 7	2	Ground	Tilt & telescopic switch is forward position	Battery voltage	
2	2		Other than above	0	

#### Is the inspection result normal?

YES >> Replace telescopic motor.

NO >> GO TO 2.

## 2.CHECK TELESCOPIC MOTOR CIRCUIT

Disconnect automatic drive positioner control unit connector.

Check continuity between telescopic motor harness connector and automatic drive positioner control unit harness connector.

Telesco	pic motor	Automatic drive	positioner control	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M117	1	M104	26	Existed
M117	2	101104	29	LAISIEU

Check continuity between telescopic motor harness connector harness connector and ground.

Telesc	opic motor		Continuity
Connector	Terminal	Ground	Continuity
M447	1	Giodila	Not existed
M117	2		Not existed

#### Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to <u>SE-134, "Removal and Installation"</u>.

NO >> Repair or replace harness.

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## **POWER SEAT**

Wiring Diagram - POWER SEAT (FOR DRIVER SIDE) -INFOID:0000000003397016 FRONT SEAT (DRIVER SIDE) 2 B18 8420\* 8420\* DOWN DOWN O O O O UP 4 DOWN \*: This connector is not shown in "Harness Layout". BACK- FOR- WARD WARD SLIDING SWITCH Ze BACK-WARD BACK- FOR- OF WARD WARD WARD WARD WARD SWITCH B18 \$411 M77 B11 POWER SEAT FOR DRIVER SIDE BCM (BODY CONTROL MODULE) (M118) (M119) FUSE BLOCK (J/B) (M1) 2008/09/23 E105 M11 40A BATTERY JCJWM0679GE

## **POWER SEAT**

PRIVER SIDE)	Decification]	(DRIVER	oscification]		A
B414 POWER SEAT SWITCH (DRIVER SIDE) NSTORW-CS 2 1 7 7 8 5 6 3 4 9 10	Color of Wire Signal Name [Specification] of Name Signal Name Sign	B418 LiFTING MOTOR (REAR) (DRIVER SIDE) F 6008-0239 Z7726	Color Signal Name (Specification) of Wire L		В
Connector No. Connector Name Connector Type	Colon   Colo	Connector No. Connector Name Connector Type	Terminal   CO   Terminal   CO   Co   V   Co   Co   Co   Co   Co   Co		D
	(fination)	DRIVER	ification]		Е
NIRE TO WIRE NSOBMW-CS  2	Signal Name [Specification]	1417 LIFTING MOTOR (FRONT) (DRIVER SIDE) F 6036-0239	Signal Name (Specification)		F
r No. B411 r Name WIRE r Type NS06i	Color of Wire B B B	r No. r Type	nal Color L/R		G
Connect Connect Connect H.S.	Terminal No.	Connecto Connecto Connecto H.S.	Terminal No. 28 29 29		Н
0 WIRE W-CS 1 1 2 3 4 5 6	Signal Name [Speoffcation]	E416 SLIDING MOTOR (DRIVER SIDE) F 6088-0344  [23	Signal Name [Specification]		SE
WIRE TO WIRE NSOFFW-CS		B416 SLIDING MO F 6098-0344			OL
Connector No. Connector Name Connector Type	Color   No.   Color   No.   Of Wire	Connector No. Connector Name Connector Type	Terminal   Color   No.		K
					L
POWER SEAT FOR DRIVER SIDE Connector No. Bi1 Connector Name WIRE TO WRE Connector Type IH80MW-CS19	Signal Name [Specification]	PA15 RECLINING MOTOR (DRIVER SIDE) F 6038-0239  [2425]	Signal Name [Specification]		M
BIT FOR WIRE TO WIRE T		RECLINING MC	Signa		Ν
POWER SI Connector No. Connector Name Connector Type	Color No. of Wire 83 BR. BR.	Connector No. Connector Name Connector Type H.S.	Color		0
DG Source State St	ř	8 8 8 E	<u> </u>	JCJWM0680GE	
					Р

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S			[
Connector No. B419	Connector No. B420	Connector No. E105	Connector No. M1
Connector Name WIRE TO WIRE	Connector Name WIRE TO WIRE	Connector Name WIRE TO WIRE	Connector Name FUSE BLOCK (J/B)
Connector Type NS10MW-CS	Connector Type NS10FW-CS	Connector Type TH70MW-CS10-M3	Connector Type NS06FW-M2
B	E		<b>E</b>
H.S. 8 7 113 14 10 9 4 3 6 5	HS 1413		H.S. 3A2A1A BA_ZA6A5A4A
Terminal Color Signal Name [Specification]	Terminal Color Signal Name [Specification]	Terminal Color Signal Name [Specification] No. of Wire	Terminal Golor Signal Name [Specification] No of Wire 3A 1.0
H	10	┨	┨
5 V	5 V		
Н	Н		
	W/A 6		
Н	10 L/B -		
Connector No. M11	Connector No. M77	Connector No. M118	Connector No. M119
Connector Name WIRE TO WIRE	Connector Name WIRE TO WIRE	Connector Name BCM (BODY CONTROL MODULE)	Connector Name BCM (BODY CONTROL MODULE)
Connector Type TH70FW-CS10-M3	Connector Type TH80FW-CS19	Connector Type M03FB-LC	Connector Type NS16FW-CS
E ST	SH	HS HS T T T T T T T T T T T T T T T T T	H.S. 4 5 6 7 10 8 9 10 11 12 13 14 15 16 17 18 19
Terminal Golor Signal Name [Specification]	Terminal Color Signal Name [Specification]	Terminal Color Signal Name [Specification]	Terminal Color Signal Name [Specification]
н	83 GR -[With driver side power seat]	1 W BAT (F/L)	11 LG BAT (FUSE)

JCJWM0681GE

Wiring Diagram - POWER SEAT (FOR PASSENGER SIDE) -INFOID:0000000003397017 Α В FRONT SEAT (PASSENGER SIDE) C POWER SEAT SWITCH (PASSENGER SIDE) (B434)\* D B214 B214 Е F BACK- FOR- OF WARD VENT OF SUIDING SWITCH G zœ Н \*: This connector is not shown in "Harness Layout". M70 B216 B431 B431 SE BCM (BODY CONTROL MODULE) (M118), (M119) K POWER SEAT FOR PASSENGER SIDE FUSE BLOCK (J/B) (M1) L M E105 M11 BATTERY Ν 2008/09/23 0

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Connector No.   8434   Connector No.   8434   Connector Name   SIDE)   Connector Type   NSTORM-CS	Terminal   Color   Signal Name [Specification]   No. or Wire   Signal Name [Specification]	Connector No. MI Connector Name FUSE BLOCK (J/B) Connector Type NS06FW-MZ  A.S. 3A	ш
Corrector No. B431 Corrector Name WIRE TO WIRE Corrector Type NSOBWW-CS  H.S.	Terminal Color Signal Name [Specification] No. of Wire 1 R	Connector No. E105 Connector Name WIFE TO WIFE Connector Type TH70MW-CS10-M3 H.S.	
Connector No.   8216   Connector Name   WIRE TO WIRE   Connector Type   NS16MBR-CS	Terminal Color   Signal Name [Specification]   No. of Wire   10   O   -	Connector No. 8436 Connector Name SLIDING MOTOR (PASSENGER SIDE) Connector Type F 6088-0344  H.S. 3 1 4	
POWER SEAT FOR PASSENGER SID	Terminal   Color   Signal Name [Specification]   No. of Wire   Color   1   Color   2   B   Color   C	tor No. B435 tor Type   F 6098-0	

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	А
NSI6FW-CS   NSI6FW   NSI6FW-CS   NSI6FW   NSI6FW-CS   NSI6FW   NSI6FW-CS   NSI6FW   NSI6FW-CS   NSI6FW   NSI6FW-CS   NSI6FW-CS   NSI6FW-CS   NSI6FW   NSI6FW-CS	В
NSI	С
Connector Name Connector Type  Terminal Olor No. of Wh. 11 LG 13 B 8	D
MODULE)  MODULE)  FER SUIPPLY (BAT)	Е
BCM (BODY CONTROL MODULE)  MOSFB-LC  Signal Name [Specification]  BAT (F/L)  POWER WINDOW POWER SUPPLY (BAT)	F
ector None B ector Type M Color I of Wire OR W	G
Connection of the connection o	Н
WIRE -CS 14	I
MATO NATE TO N	SE
Connector Nam Connector Typ Connector Typ Terminal Co No. 10 01/0	K
NGER SIDE	L
ETO WRE  FTO WRE  Spring Name (Specification)  Signal Name (Specification)	M
WINE TO WINE TO THE TO	N
POWER S  Connector Name  Connector Name  Connector Type  RS  RS  RS  RS  RS  RS  RS  RS  RS  R	0
	Р

Revision: 2008 October SE-51 2009 Murano

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## **HEATED SEAT**

Wiring Diagram - HEATED SEAT (FRONT) -

B15 B19 (NM): With automatic drive positioner (OM): Without automatic drive positioner (WS): With power seat for passenger side (OS): Without power seat for passenger side # 18460 B431\* MAIN MAIN SEAT BACK HEATER (PASSENGER SIDE) (B433) SEAT BACK HEATER (DRIVER SIDE) (B413) FRONT SEAT (PASSENGER SIDE) FRONT SEAT (DRIVER SIDE) SUBHEATER SUBHEATER SEAT CUSHION HEATER (PASSENGER SIDE) SEAT CUSHION HEATER (DRIVER SIDE) (B412) 17 ... 20 B431)\* 5 5 ★: This connector is not shown in "Harness Layout". B214 (B216) (M77) (B11) (M70) FRONT HEATED SEAT SWITCH (PASSENGER SIDE) (M203) FRONT HEATED SEAT SWITCH (DRIVER SIDE) HIGH OFF LOW NOJ HIGH OFF - N (8) FUSE BLOCK (J/B) FRONT HEATED SEAT IGNITION SWITCH ON or START 2008/09/23

peoffcation]	AIVER SIDE)	A
WIRE TO WIRE NSOBFW-CS  1	B413 SEAT BACK HEATER (DRIVER SIDE) NISDSFW-CS  [201918] Signal Name [Specification]	В
Connector No. Connector Name Connector Type  Terminal Color No. of Wire 2 d 4 GR 5 G G	Connector No. Connector Name Connector Type Terminal Color No. of Wife 18 R/B 20 W	D
6 7   Cification]	RIVER SIDE)	Е
12 13 14 14 15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8412 SEAT CUSHION HEATER (DRIVER SIDE) NSDZMW-CS  Signal Name [Specification]	F
Connector No. B19 Connector Name WIRE TO WIRE Connector Type NS16FW-CS Connector Type NS16FW-CS  12 3 4		G
Connector No.   Connector Name   Connector Type   Connector Type   Connector Type   Connector Type   Col	Connector No. Connector Name Connector Type H.S. H.S. To of M. To	Н
CS CS 4 5 6	CSS Signal Name [Specification]	I
WIRE TO WIRE NSOBFW-CS Signal Na	WIRE TO WIRE NS06MW-CS	SE
Connector No. B Connector Name W Connector Type N Connect	Connector No. B Connector Name M Connector Type N Terminal Color No. of Wire 2 B B A 5 B.R	К
[luc		L
WRE CS19 CS19 Little Li	WIRE -CS -11 12 13 14 15 16 7	M
HEATEL WIRE TO THROWN.	MIRE TO WISHMED TO MISHMED TO MIS	N
Connector No. Connector Type Connect	Commector No. Commector Name Commector Type R.S. Forminal Color No. R. Of Wie B. Of Wi	0
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PASSENGER SIDE)  Commector Name WIRE TO WIRE  Commector Type NIS16MW-CS  H.S.  T 6 5	Terminal Color   Signal Name [Specification]   No. of Ware   Signal Name [Specification]   7	Connector No. M/202 Connector Name SIDE) Connector Type M/SDEPW-CS  A.S. FROMT HEATED SEAT SWITCH (DRIVER SIDE) FROMT HEATED SEAT SWITCH (DRIVER SIDE) FROM HEATED SEAT SWITCH (DRIVER S	Terminal   Color   Signal Name [Specification]   No. of Wire   Signal Name [Specification]   1   G   1   C   Color Neate and Type Al   2   V   -None head to passwape us power and Type Al   2   V   -None head to be an and passwape us power and Type II]   2   V   -None head type III   2   V   -None head t
SEAT CUSHION HEATER (PASSENGER SIDE) SIDE) Connector Name SEAT BACK HEATER (PASSENGER SIDE) Connector Type NS03PW-CS  FIG. 12 9	Terminal Color   Signal Name [Specification]	Connector No. M77 Connector Name WIRE TO WIRE Connector Type TH80PW-CS19 Connector Type TH80PW-CS19 A TH80PW-CS19	Terminal Name [Spacification]   No. of Wire Signal Name [Spacification]
Connector No.   H432   Connector Type   NSO2MM-CS   Connector Type   NSO2	Color of Wire Signal Name [Specification] No. of Wire Signal Name [Specification] No. of Wire Signal Name Signal Name Signal No. of Wire Signal Name S	Connector No.         M3         M70           Connector Name         FUSE BLOCK (J/B)         Connector Name         WITE TO WIRE TO WI	Color   Signal Name [Specification]   Terminal   Color   Signal   Octor   Oc

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Wiring Diagram - HEATED SEAT (REAR) -INFOID:0000000003397019 SEAT BACK HEATER SEAT BACK HEATER 3 B441\* 3 B217 B217 8442 B443 8445 8446 REAR SEAT LH REAR SEAT RH SEAT CUSHION MAIN HEATER SEAT CUSHION SUB HEATER SEAT CUSHION MAIN HEATER SEAT CUSHION SUB HEATER \*: This connector is not shown in "Harness Layout" \* ۵. - Till (9) REAR HEATED SEAT SWITCH RH (D72) REAR HEATED SEAT SWITCH LH (D70) HEATED SEAT RELAY M58 REAR HEATED SEAT W 2008/09/23 BATTERY

JCJWM0705GE

## **HEATED SEAT**

		А
WIRE 1-05 11 12 13 14 15 16 7 11 12 13 14 15 16 7 12 13 14 15 16 7	WIRE  CS  Signal Name [Specification]	В
B216   WRE TO   NS16MGE   1   2   3	BB442 WIRE TO NSOZMW	С
Connector No. Connector Type Connector Type  H.S.  Terminal Color No. Or Wift	Connector No. Connector Name Connector Type Terminal No. Opin	D
offication]	offication]	Е
WIRE TO WIRE NSO3FW-CS Signal Name [Specification]	WIRE TO WIRE NS03MW-CS Signal Name [Specification]	F
B S C Vire	lor lor	G
Connector No.	Connector No.	Н
WIRE CS19 Signal Name [Specification]	NS8  NS8  15   1   2   1   1   1   1   1   1   1   1	1
O WW (months in )		SE
Connector No.   B11	Connector No.   B218	K
		L
	WIRE CS 321 Signal Name [Specification]	M
ATED B3 WIRE TO TKIOFW TO	WIRE TO NISO3FW	N
Connector No.	Cornector No.  Connector Name Connector Type  I.S.  I.S.  I. Color  No.  Of Wire  Of Color  Of C	0
		JCJWM0706GE

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Connector No. B446 Connector Name WIRE TO WIRE Connector Type NSOZFW-CS	Terminal   Codor   Signal Name [Specification]   No. of Wire   Signal Name [Specification]   1	Ocunector Name WIRE TO WIRE  Connector Type TK 10MM-NS3    1   2   3   4   5   6   7   8   9   10	Terminal   Color   Signal Name [Specification]   No. of Wire
Connector No. B445 Connector Name WIRE TO WIRE Connector Type NSOZIWI-CS H.S.	Terminal   Color   Signal Nane [Specification]	Ocurrector No. D81  Connector Type   TK10MW-NS8  MA  1 2 3 4 5   6 7 8 9 10  11 12 13 14 15   16 17 18	Terminal   Color   Signal Name [Specification]   No. of Wire   -     LG
Connector No. B444 Connector Name WIRE TO WIRE Connector Type INSOSMW-CS H.S.	Terminal   Calor   Signal Name [Specification]	Connector No. D72 Connector Name REAR HEATED SEAT SWITCH RH Connector Type NSO6FBR-CS  H.S. E	Terminal   Color   Signal Name [Specification]   No. of Wire   Y
REAR HEATED SEAT  Connector No. 8443  Connector Name WIRE TO WIRE  Connector Type INSIZEW-CS  MASTERW-CS	Terminal Color   Signal Name [Specification]   No.	Connector No. D70 Connector Name REAR HEATED SEAT SWITCH LH Connector Type NSO6FW-CS H.S. 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Terminal   Color   Signal Name [Specification]   Y

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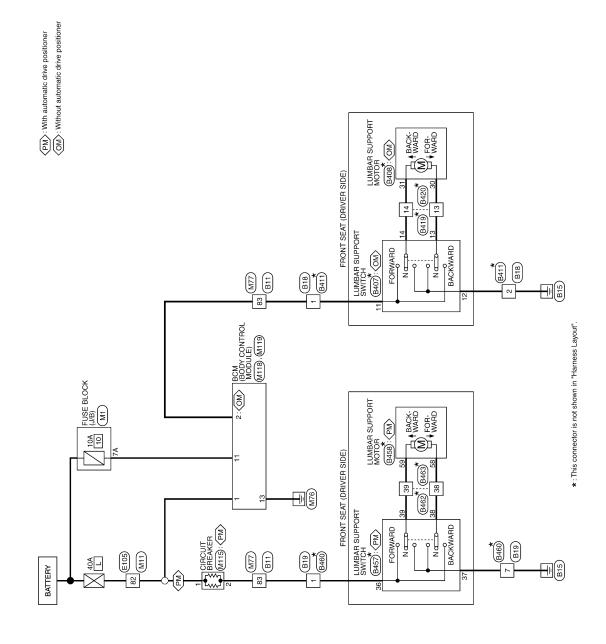
## **HEATED SEAT**

Feation]			Α
MSB HEATED SEAT RELAY MSGZPL-MZ-LC  Signal Name [Specification]			В
r No. Color of Wire B B W W W			С
Connecto Con			D
Reation			Е
WIRE TO WIRE TH70FW-CSI0-M3  **  **  **  **  **  **  **  **  **			F
			G
Connector No. Connector Name Connector Type H.S. H.S.  H.S.  73 Color No. 73 L			Н
M2 M2 M2 TABASA4A  Signal Name [Specification]	CS19		I
NSOFFW-NZ NSOFFW-NZ Signal Narr	WINE TO WRE THEOPY-CS19  Signal Name (Soo		SE
Connector No.  Connector Type  I.S.  Terminal Color  No.  Of Wire  ZA  G	Connector No.  Connector Name  Connector Type  Terminal Color  No.  of Wire  86  W		K
			L
E TO WRE  OWN-CS10-M3  Signal Name [Specification]	-CS -CS 4		M
ATED WIRE TO WIRE TO THYOMW.	M70 WIRE TO NS 16FBR		Ν
REAR HEATED SEAT Connector No. E103 Connector Type TTHOMW-CS10-MS Terminal Color No. of Wire 73 L	eetor No.  Rector Name Rector Type  Solvential Colo  O		0
R R R R R R R R R R R R R R R R R R R	Ten N N N N N N N N N N N N N N N N N N N	JCJWM0708GE	
			P

Revision: 2008 October SE-59 2009 Murano

Wiring Diagram - LUMBAR SUPPORT -

INFOID:0000000003566105



**LUMBAR SUPPORT** 



## < COMPONENT DIAGNOSIS >

H ::ificettion]	zification]	А
LUMBAR SUPPORT SWTCH INSOFFBR-CS  Signal Name [Specification]  Signal Name [Specification]	14 13	В
Connector No. Connector Name Commetter Type  Terminal Color No. 11 Co. 12 LG 13 V.W. 14 Y	Connector No. Connector Name Connector Types  H.S.  Terminal Color No. of Wire  13 Y/W  14 Y	D
[Specification]	pecification]	Е
E TO WIRE 6FW-CS 3 4 1 1 12 13 Signal Name	NSTOWW-CS   NSTOWW-CS   NSTOWW-CS   NSTOWW-CS   NSTOWW-CS   NSTOWW-CS   NSTOW   NSTO	F
Connector No. B19 Connector Name WIRS Connector Type NST Connector Type NST Terminal Color No. of Wire Terminal Color 1 BR	Connector No. B4 Connector Name WI Connector Type NS Connector Type NS Color No. of Wire 13 Y/W 14 Y	G
		Н
O WIRE  W-CS  1	W-CS W-CS W-CS Signal Name [Specification]	SE
WIRE TO WISCOSTON.	MSDRWW NSDRW NSDRW NSDRWW NSDRW NSDRW NSDRWW NSDRWW NSDRWW NSDRW NS	K
Connector Name Connector Type Connec	Connector No.  Connector Typ.  Connector Typ.  H.S.  H.S.  1 of No.  1 of No.  1 of No.  2 of No.	L
WIRE CS19 Signal Name (Specification)	SUPPORT MOTOR 783-1020  [31] 30  Signal Name [Specification]	M
SUPPO	B408 LUMBAR YAZAKI 7	N
Connector No. Connector Name Connector Type	Connector No. Connector Name Connector Type  H.S.  H.S.  Terminal Color No. of Wire  31 Y	0
		JCJWM0686GE

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Commector No. B462  Commector Name WIRE TO WIRE  Commector Type NSIOMW-CS  H.S.  B 7 m 38 39  10 9 4 3 6 5	Terminal   Color   Signal Name [Specification]   No.   Of Wire   Signal Name [Specification]   38   Y/W   -   -	Connector No. MI11 Connector Name WIRE TO WIRE Connector Type THYDFW-CS10-M3  14.S  Terminal Color No. of Wire Signal Name [Specification]
Connector No. 6460 Connector Name WIRE TO WIRE Connector Type INSTBMW-CS	Terminal   Color   Signal Nane [Specification]	Connector No.   MI
Connector No. 8458 Connector Name LUMBAR SUPPORT MOTOR Connector Type YAZAKI 7283-1020 H.S.	Terminal   Color   Signal Name [Specification]   No.	Connector No. E105 Connector Name WIRE TO WIRE Connector Type IH/70MV-CS10-M3  H.S. E105  Terminal Color No. of Wire 82 L.G.
LUMBAR SUPPORT           Connector No.         8457           Connector Name         LUMBAR SUPPORT SWITCH           Connector Type         INSG4FBR-CS           MS         18637[39]38	Terminal   Color   Signal Name [Specification]   No.   Color   Color	Connector No.   B463

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## < COMPONENT DIAGNOSIS >

		Α
MI 19  NSI 16-TW-CS  Signal Name [Specification]  Signal Name [Specification]  Signal Name [Specification]		В
		С
Connector No.   Mili9		D
infreation]		Е
MOSTER-LC MOSTER-LC Signal Name [Specification] POWER WINDOW POWER SUPPLY (BAT)		F
		G
Connector No.  Connector Type  No. of W.  No. of W.  L. W.  2 GW.		Н
BREAKER -LC Signal Name [Specification]		I
CIRCUIT BREAKER MOZFW-P-LC Signal Name	\$	SE
ector No ector Name ector Type inal Color N W W W W		K
		L
W-CS19 W-CS19 Signal Name [Specification] -[With driver side power seat]		M
S S S S S S S S S S S S S S S S S S S		Ν
Connector Name Connector Name Connector Type  Terminal Color No. 97 Wire 83 W 83 GR		0
	JCJWM0688GE	Р

Revision: 2008 October SE-63 2009 Murano

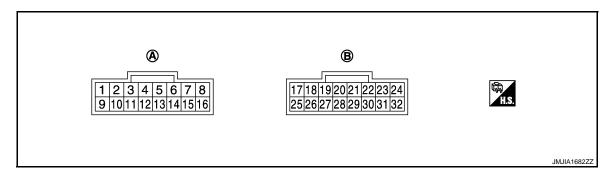
< ECU DIAGNOSIS >

## **ECU DIAGNOSIS**

## REAR SEATBACK POWER RETURN CONTROL UNIT

Reference Value

**TERMINAL LAYOUT** 



A. B492 B. B493

#### PHYSICAL VALUES

Rear seat back power return control unit

Terr	minal No.	Wire	Description			Value									
+	-	color	Signal name	Input/ Output	Condition	(Approx.)									
1	Ground	B/W	Ground (Motor sensor RH)	_	_	0									
2	Ground	G/W	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	Ground	Y/R	Motor sensor (RH) Power supply	Input	When the power return motor is operated	Battery voltage									
5	Ground	R/B	Power return motor (LH) backward signal	Output	When the power return motor (LH) performs reverse operation	Battery voltage									
					Other than the above	0									
6	Ground	L	Power return motor (LH) forward signal	Output	When the power return motor (LH) performs return operation	Battery voltage									
					Other than the above	0									
7	Ground	R/W	Power return motor (RH) backward signal	Output	When the power return motor (RH) performs reverse operation	Battery voltage									
					Other than the above	0									
8	Ground	L/W	Power return motor (RH) forward signal	Output	When the power return motor (RH) performs return operation	Battery voltage									
					Other than the above	0									

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#### < ECU DIAGNOSIS >

Terr	minal No.		Description			
+	_	Wire color	Signal name	Input/ Output	Condition	Value (Approx.)
9	Ground	B/Y	Ground (Motor sensor LH)	_	_	0
10	Ground	G	Motor sensor (LH) input signal	Input	When the power return motor (LH) is operated	(V) 6 4 2 0 10 ms
					When the pinch occurs	The above pulse width should be expanded
11	Ground	Υ	Motor sensor (LH) Power supply	Input	When the power return motor is operated	Battery voltage
13	Ground	В	Ground (power)	_	_	0
16	Ground	R	Battery power supply (power)	Input	_	Battery voltage
17	Ground	R	Battery power supply (system)	Input	_	Battery voltage
20	Ground	LG	Power return switch (RH) input signal	Input	When pressing the power return switch (RH)	0
					Other than the above	5
21	Ground	W	Primary position limit switch (LH) input sig- nal	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	Ground	W/R	Primary position limit switch (RH) input sig- nal	Input	When the sector gear (RH) is in the initial position (other than low power consumption mode)	Battery voltage
					Other than the above	0
23	Ground	BR/W	Ground (limit switch RH)	_	_	0
24	Ground	LG	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	Ground	LG/Y	Power return switch	Input	When pressing the power return switch (LH)	0
			(LH) input signal	•	Other than the above	5

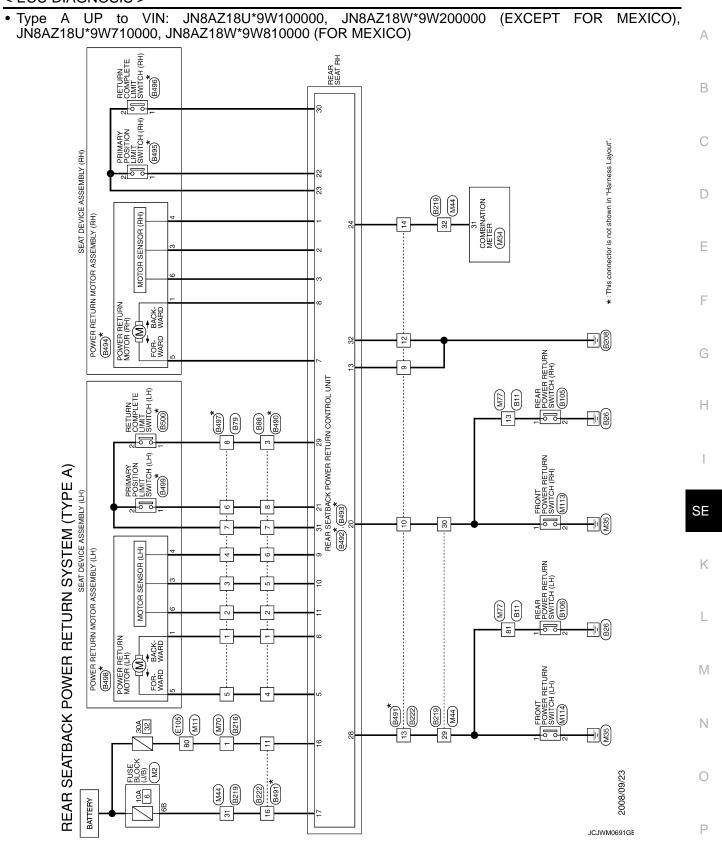
#### < ECU DIAGNOSIS >

Terr	minal No.	Wire	Description			Value
+	_	color	Signal name	Input/ Output	Condition	(Approx.)
29	Ground	L	Return complete limit switch (LH) input sig- nal	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
30	Ground	L/W	Return complete limit switch (RH) input sig- nal	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	Ground	BR	Ground (limit switch LH)	_	_	0
32	Ground	В	Ground (system)	_	_	0

Wiring Diagram - REAR SEATBACK POWER RETURN SYSTEM - INFOID:00000003396958

NOTE:

#### < ECU DIAGNOSIS >



REAR SEATBACK POWER RETURN S' Comector No.   1811	SYSTEM (TYPE A) Connector No. 1879	Connector No.   B88	Connector No.   B105
Connector Name WIRE TO WIRE	Connector Name WIRE TO WIRE	Connector Name WIRE TO WIRE	Connector Name REAR POWER RETURN SWITCH (RH)
Connector Type TH80MW-CS19	Connector Type NS08FW-CS	Connector Type NS08FW-CS	Connector Type TK04FW
XX.	HS. 8 2 1 6 7 4 3 5	4.5 3 0 2 1 8 7 6 5 4	H.S. 4 3 2 1
Terminal   Color   Signal Name [Specification]   No. of Wire   13 L	Terminal   Color   Signal Name [Specification]   No. of Wire   Signal Name [Specification]	Terminal   Color   Signal Name [Specification]     1   BR	Terminal   Color   Signal Name [Specification]
Connector No. B106 Connector Name REAP POWER RETURN SWITCH (LH)	Connector No. B216 Connector Name WIRE	Connector No. B219 Connector Name WIRE TO WIRE	Connector No. B222 Connector Name WRR TO WIRE
4321	1 2 3 <b></b> 4 5 6 7 8 9 10111213141516	17 12 3 4 5 6 7 8 9 10 11 12 13 14 15 15 17 18 18 18 18 18 18 18 18 18 18 18 18 18	11 10 9 16 15 14 13 12
Terminal Color Signal Name [Specification] No. of Wire -	Terminal Color Signal Name [Specification] No. of Wire 1 G -	Terminal Color Signal Name [Specification] No. of Wire 29 G –	Terminal Color Signal Name [Specification] No. of Wire 9 B
2 B –		Н	Д
		31 V 32 BR	11 G -
			0
			14 BR 16 V

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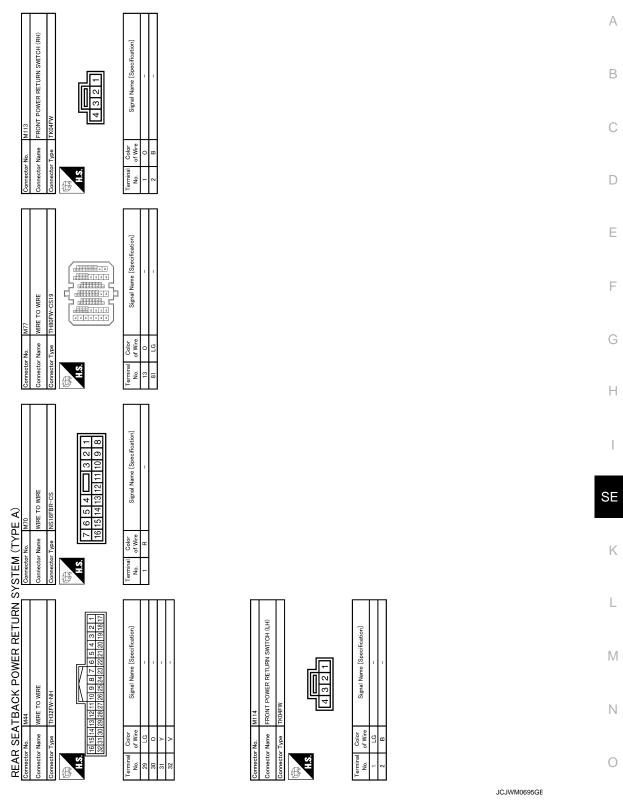
#### < ECU DIAGNOSIS >

	16 R BAT POWER		Connector No. B496 Connector Name RETURN COMPLETE LIMIT SWITCH (RH) Connector Type SUMITOMO.6098-0239  M.S.	Terminal   Color   Signal Name [Specification]   Or Wire   1   L/W   - 2   BR/W		A B C
	Connector No.   REAR SEATBACK POWER RETURN	Terminal   Color   Signal Name [Specification]   1 B/W   MOTOR SENS GND RH   2 G/W   MOTOR SENS SIG RH   3 Y/R   MOTOR SENS SIG RH   5 R/B   MOTOR SENS PAR H   1 R/W   MIT RH +	Connector No. 8495 Connector Name (RH) Connector Type 1/AZAG17283-5972 H.S.	Terminal   Color   Signal Name   Specification		E F G
SYSTEM (TYPE A)	Connector No. B491 Connector Name WIRE TO WIRE Connector Type NSQBWBR-CS  H.S. 910 11 11 11 11 11 11 11 11 11 11 11 11 1	Terminal   Color   Signal Name [Specification]   Of Wire   Signal Name [Specification]   Of Wire   Of Wi	Connector No.         B494           Connector Name         POWER RETURN MOTOR ASSEMBLY (RH)           Connector Type         SUMITOMO 6096 -0245           H.S.         1           1         2           2         3           4         6	Terminal   Color   Signal Name [Specification]   1   L/W   1   1   L/W   2   3   G/W   4   B/W   -   4   B/W   -   6   Y/R   -   -		SE
REAR SEATBACK POWER RETURN SY	Connector No.   B490	Terminal   Color   Signal Name [Specification]   Color   Signal Name [Specification]   Color   Color	Connector No. B483  Connector Name REAR SEATBACK POWER RETURN  Connector Type VAA16FW  M.S. 17 18 19 20 21 22 23 24  25 26 27 28 29 30 31 32	Terminal   Color   Signal Name [Specification]   Of Wire   17   R   BAT Signal   Part Signal   Land   Lan		M N
					JCJWM0693GE	Р

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EM (TYPE A)         Connector No.         6499         Connector No.         6499         Connector No.         6300           ector Name         POWER RETURN MOTOR ASSEMBLY (LH)         Connector Name         PREMARY POSITION LIMIT SWITCH         Connector Name         RETURN COMPLETE LIMIT SWITCH (LH)           cetor Type         SUMITOMO 6098-0245         Connector Type         SUMITOMO 6098-0239	3. 1 = 5 2 3 4 6 12 12 12 12	Color   Signal Name [Specification]   Terminal   Color   Signal Name [Specification]   No. of Wire   No. o	M2   Corrector No.   M11   Corrector No.   M11   Corrector	
SYSTEM (TYPE A)  Connector No. B498  Connector Name POWER RE  Connector Type SUMITOM				Terminal Color
REAR SEATBACK POWER RETURN SY   Connector No.   B497   Connector Name   WIRE TO WIRE   Connector Type   INSOBMW-CS	HS. 12 8 5 3 4 7 6	No. of Mire   Signal Name [Specification]   No. of Mire   Signal Name [Specification]		Terminal Color Signal Name [Specification]

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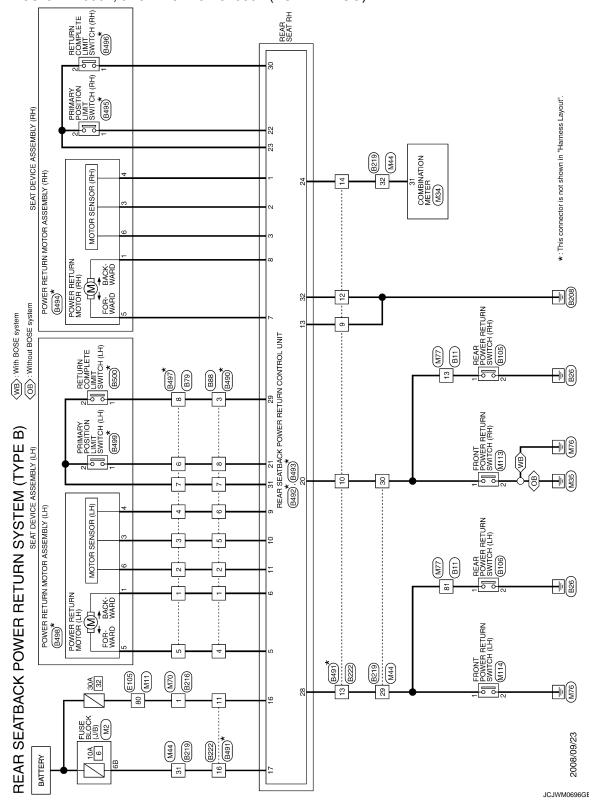


Wiring Diagram - REAR SEATBACK POWER RETURN SYSTEM - NOTE:

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#### < ECU DIAGNOSIS >

 Type B From VIN: JN8AZ18U\*9W100001, JN8AZ18W\*9W200001 (EXCEPT FOR MEXICO), JN8AZ18U\*9W710001, JN8AZ18W\*9W810001 (FOR MEXICO)



### < ECU DIAGNOSIS >

Name REAR PO Type TKG4FW	Grand   Color   Colo	Connector No.         6222           Connector Name         WIRE TO WIRE           Connector Type         NS08FBR-CS           H.S.         [11   10 9   16   15   14   13   12   12   14   13   12   14   13   12   14   13   12   14   13   12   14   13   12   15   14   13   12   15   14   13   12   15   14   13   12   15   14   13   12   15   14   13   15   15   14   13   15   15   15   15   15   15   15	Terminal   Color   Signal Name [Specification]   Color   Signal Name [Specification]   Color   Color		A B C
Name WIRE TO Type NSOBFW	Grand   Gran	Oomestor No. 8219 Connector Name WIRE TO WIRE Connector Type TH32MW-NH  A.S.	Terminal   Color   Signal Name   Specification		E F G
(TYPE B) (No. 879 FINAME WIRE TO FINAME NEOSEM FINAME NEOS	Grand   Gran	Connector No. 8216 Connector Name WIRE TO WIRE Connector Type NS16MBR-CS	Terminal Color Signal Name [Specification]		SE K
Name WIRE TO WRE THOOMW-CS19 THOOMW-CS19 THEOMW-CS19 THEOMW-CS19	Ferminal o'Golor Signal Name [Specification]   No.	Connector No. B106 Connector Name REAR POWER RETURN SWITCH (LH) Connector Type TKO4FW  M.S.  4.3 2 1	Terminal Color of Wire Signal Name [Specification]  1 R	JCJWM0697GE	M N
				2024AIMI00ALQE	Р

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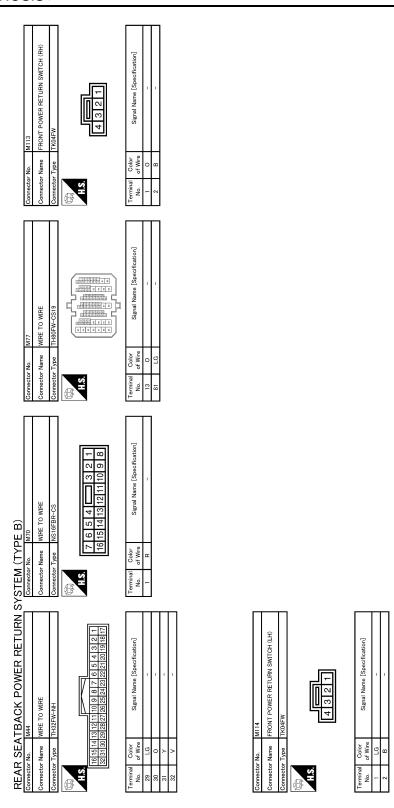
REAR SEATBACK POWER RETURN S:   Commenter No.   B450   Commenter Name   WIRE TO WIRE   Commenter Type   NISOBMW-CS	Commercer No.   E491	Connector No. 8492  Connector Name REAS EASTEACK POWER RETURN Connector Type SEATERW  M.S. 1 2 3 4 5 6 7 8 1 1 2 3 4 5 6 7 8 1 1 1 2 3 4 5 6 7 8	16 R BAT POWER
Terminal   Color   Signal Name [Specification]	Terminal   Color   Signal Name   Specification   Color   No.   Signal Name   Specification     Color     Color	Terminal   Color   Signal Name [Speaification]   Oldron   Signal Name [Speaification]   Oldron   Old	
Connector No. B493 Connector Name Control UNIT Connector Type YAA16FW  17 18 19 20 21 22 23 24  25 26 27 28 29 30 31 32	Connector No.         B494           Connector Name         POWER RETURN MOTOR ASSEMBLY (RH)           Connector Type         SUMITOMO 6099-0245           H.S.         1           I.S.         2           2         3           4         6	Connector No. 8495 Connector Name (RHJ) Connector Type VAZAK17283-5972	Connector No. 8496 Connector Name RETURN COMPLETE LIMIT SWITCH (RH) Connector Type SUMITOMO 6098 - 0239 H.S.
Terminal   Color   Signal Name [Specification]   No.   Orlow   R.   RAT SiG   Signal Name [Specification]   Signal Name [Specification]   Signal Name   Specification]   Signal Name   Signal Name	Terminal   Color   Signal Name   Specification   Color   No. of Wire   Signal Name   Specification   Color   Color	Terminal   Color   No.   Oldvre   Signal Name   Specification	Terminal   Color   Signal Name [Specification]   No.   of Wire   T   L/W   -   2   BR/W   -

JCJWM0698GE

### < ECU DIAGNOSIS >

Connector No. B500 Connector Name RETURN COMPLETE LIMIT SWITCH (LH) Connector Type SUMITOMO 6098-0239  H.S.	Terminal   Color   Signal Name [Specification]   No. of Wire   Signal Name [Specification]	Cornector No. M34 Cornector Name COMBINATION METER Cornector Type TH40FW-NH  TH40FW-NH  TL2 31 4 5 6 7 6 10 11 12 13 14 15 6 7 18 10 11 12 13 14 15 18 10 11 12 13 14 15 18 10 11 12 13 14 15 18 10 11 12 13 14 15 18 10 11 12 13 14 15 18 10 11 12 13 14 15 18 10 11 12 13 14 15 18 10 11 12 13 14 15 18 10 11 12 13 14 15 18 10 11 12 13 14 15 18 10 11 12 13 14 15 18 10 11 12 13 14 15 18 10 11 12 13 14 15 18 10 11 12 13 14 15 18 10 11 12 13 14 15 18 18 18 18 18 18 18 18 18 18 18 18 18		A B C
Connector No. B499 Connector Name (L.H) Connector Type YAZAKI;283-5972	Terminal   Color   Signal Name [Specification]	Connector No. M11 Connector Name WIRE TO WIRE Connector Type TH70FW-CS10-M3 Th. Strain Color No. of Wire Signal Name (Specification)		E F G
SYSTEM (TYPE B)  Gamestor Name POWER RETURN MOTOR ASSEMBLY (LH)  Gamestor Type SUMITOMO:6038-0245  H.S.  TIES  2 3 4 6	Terminal   Color   Signal Name (Specification)   1   L	Connector No.   M2		SE K
NEAR SEATBACK POWER RETURN SY   Connector Name   WIRE TO WIRE	Terminal Oolor No. of Wire 1 L L 1 L 2 Y 3 G 4 B 6 W 7 R 7 BR	Connector No. E105 Connector Name WIRE TO WIRE Connector Type TH70MW-CS10-M3 H.S. French Color Signal Name [Specification] 80 R R		M N
			JCJWM0699GE	Р

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Fail Safe

JCJWM0700GE

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

### < ECU DIAGNOSIS >

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

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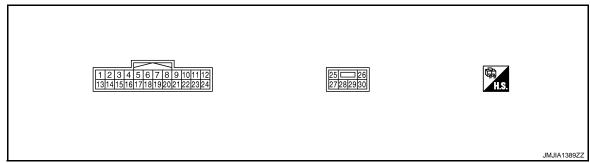
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### **AUTOMATIC DRIVE POSITIONER CONTROL UNIT**

### **AUTOMATIC DRIVE POSITIONER CONTROL UNIT**

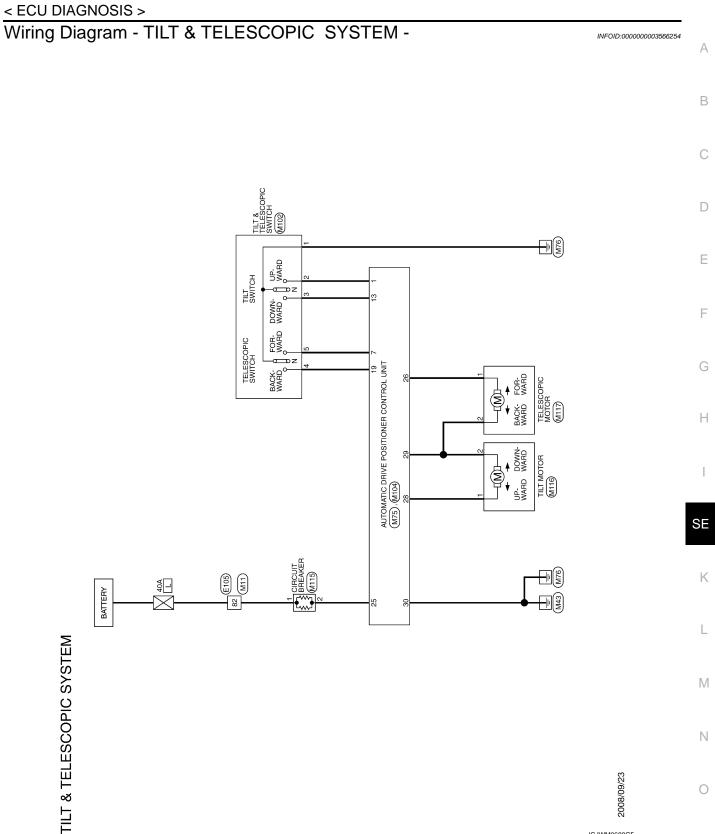
Reference Value

#### **TERMINAL LAYOUT**



#### PHYSICAL VALUES

	inal No. e color)	Description			Condition	Voltage (V)
+	-	Signal name	Input/ Output		Condition	(Approx.)
1 (Y)	Ground	Tilt switch upward signal	Input	Tilt switch	Operate (upward)	0
(1)					Other than above	5
7	Ground	Telescopic switch for-	Input	Telescopic	Operate (forward)	0
(P)	Giodila	ward signal	iliput	switch	Other than above	5
13 (LG)	Ground	Tilt switch downward	Input	Tilt switch	Operate (downward)	0
(LG)		signal			Other than above	5
19	Ground	Telescopic switch back-	Input	Telescopic switch	Operate (backward)	0
(G)		ward signal		Switch	Other than above	5
25 (W)	Ground	Power source	Input		_	Battery voltage
26 (L)	Ground	Telescopic motor back- ward output signal	Output	Steering tele- scopic	Operate (backward)	Battery voltage
(L)		ward output signal		Scopic	Other than above	0
28 (G)	Ground	Tilt motor downward output signal	Output	Steering tilt	Operate (downward)	Battery voltage
(G)		output signal			Other than above	0
		Tilt motor upward output signal		Steering tilt	Operate (upward)	Battery voltage
29	Ground	Sigilal	Output		Other than above	0
(LG)	Giound	Telescopic motor for- ward output signal	Output	Steering tele- scopic	Operate (forward)	Battery voltage
		waru output signal		Scohic	Other than above	0
30 (B)	Ground	Ground	_		_	0



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JCJWM0689GE

### **AUTOMATIC DRIVE POSITIONER CONTROL UNIT**

TILT & T	TILT & TELESCOPIC SYSTEM			
Connector No.	E105	Connector No. M11	Connector No. M75	Connector No. M102
Connector Name	e WIRE TO WIRE	Connector Name WIRE TO WIRE	Connector Name CONTROL UNIT	Connector Name TILT & TELESCOPIC SWITCH
Connector Type	TH70MW-CS10-M3	Connector Type TH70FW-CS10-M3	Connector Type TH24FW-NH	Connector Type TK06FGY
₽ H.S.	G 11		H.S.	是 H.S.
			1 2 3 4 5 6 7 8 9 1011112 131415161718192021222324	3 4 1 5 2
Terminal Color No. of Wire	or Signal Name [Specification]	Terminal Color Signal Name [Specification]	Terminal Color Signal Name [Specification]	Terminal Color Signal Name [Specification]
82 LG	-	82 W -	1 Y UPWARD	- c
				LG T
			19 G BACKWARD	Н
				- L
_		[		
Connector No.	M 104 AUTOMATIC DRIVE POSITIONER	Connector No. MILIS	Connector No. MIII 0	Connector No. TELECOBIO MOTOD
Connector Type		П	$\neg$	$\neg$
匮		香		優
H.S.	25 <u> </u>	HS.	H.S. 6 6 1 1 1 6 5 4 3	HS 2 6 5 4 3
Terminal Color No. of Wire	or Signal Name [Specification]	Terminal Color Signal Name [Specification]	Terminal Color Signal Name [Specification]	Terminal Color Signal Name [Specification]
25 W		W		ı
+	BACKWARD	2 W -	2 LG -	2 LG -
28 62	MdII			
╀				

JCJWM0690GE

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

< SYMPTOM DIAGNOSIS >

#### SYMPTOM DIAGNOSIS Α REAR SEATBACK POWER RETURN SYSTEM DOES NOT OPERATE **BOTH SIDES** В **BOTH SIDES**: Diagnosis Procedure INFOID:0000000003451750 ${f 1}$ .CHECK POWER SUPPLY AND GROUND CIRCUIT Check power supply and ground circuit. Refer to SE-15, "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-40, "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-40, "Intermittent Incident". NO >> GO TO 1. LH LH: Diagnosis Procedure INFOID:0000000003451751 SE 1.PERFORM POWER RETURN SWITCH Perform power return switch. From which power return switch (front or rear) does the seat return operation occur? FRONT>> GO TO 2. REAR >> GO TO 3. BOTH SIDES>>GO TO 4. 2.CHECK FRONT POWER RETURN SWITCH (LH) Check front power return switch (LH). Refer to SE-17, "LH: Component Function Check". Is the inspection result normal? YES >> GO TO 4. N NO >> Repair or replace the malfunctioning parts. 3.CHECK REAR POWER RETURN SWITCH (LH) Check rear power return switch (LH). Refer to SE-21, "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-38, "LH: Component Function Check". Is the inspection result normal?

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

#### < SYMPTOM DIAGNOSIS >

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

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

Check return complete limit switch (LH).

Refer to SE-29, "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-40, "Intermittent Incident".

NO >> GO TO 1.

RH

### RH: Diagnosis Procedure

INFOID:0000000003486746

### 1. PERFORM POWER RETURN SWITCH

Perform power return switch.

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

FRONT>> GO TO 2.

REAR >> GO TO 3.

BOTH SIDES>>GO TO 4.

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

Check front power return switch (RH).

Refer to SE-18, "RH: Component Function Check".

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

### 3.check rear power return switch (RH)

Check rear 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.

### 4. CHECK POWER RETURN MOTOR (RH)

Check power return motor (RH).

Refer to SE-39, "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-30, "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?

### REAR SEATBACK POWER RETURN SYSTEM DOES NOT OPERATE

#### < SYMPTOM DIAGNOSIS >

YES >> Check intermittent incident. Refer to <u>GI-40, "Intermittent Incident"</u>. NO >> GO TO 1.

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

#### < SYMPTOM DIAGNOSIS >

# MALFUNCTION DETECTION BUZZER SOUNDS DURING POWER RETURN MOTOR INVERSE ROTATION

LH

LH: Diagnosis Procedure

INFOID:0000000003396968

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

Check return complete 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 PRIMARY POSITION LIMIT SWITCH (LH)

Check primary position limit switch (LH).

Refer to SE-25, "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-38, "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-40, "Intermittent Incident".

NO >> GO TO 1.

RH

### RH: Diagnosis Procedure

INFOID:0000000003396969

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

Check return complete limit switch (RH).

Refer to SE-30, "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-26, "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-39, "RH: Component Function Check".

#### Is the inspection result normal?

YES >> GO TO 4.

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< 2 A INII	PTOM DIAGNOSIS >	
NO	>> Repair or replace the malfunctioning parts.	
<b>1.</b> con	IFIRM THE OPERATION	
Confirm	the operation again.	
s the ir	spection result normal?	
YES	>> Check intermittent incident. Refer to GI-40, "Intermittent Incident".	
NO	>> GO TO 1.	

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#### DOES NOT RETURN BUT MALFUNCTION DETECTION BUZZER SOUNDS

< SYMPTOM DIAGNOSIS >

# DOES NOT RETURN BUT MALFUNCTION DETECTION BUZZER SOUNDS

LH

### LH: Diagnosis Procedure

INFOID:0000000003420358

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

Check primary position limit switch (LH).

Refer to SE-25, "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-33, "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-40, "Intermittent Incident".

NO >> GO TO 1.

RH

### RH: Diagnosis Procedure

INFOID:0000000003420359

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

Check primary position limit switch (RH).

Refer to SE-26, "RH: 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-35, "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-40, "Intermittent Incident".

NO >> GO TO 1.

#### ANTI-PINCH FUNCTION DOES NOT OPERATE

### < SYMPTOM DIAGNOSIS > ANTI-PINCH FUNCTION DOES NOT OPERATE Α Diagnosis Procedure INFOID:0000000003566179 1. CHECK MOTOR SENSOR (LH) В Check motor sensor (LH). Refer to SE-33, "LH: Component Function Check". C Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. D 2.CHECK MOTOR SENSOR (RH) Check motor sensor (RH). Refer to SE-35, "RH: Component Function Check". Е Is the inspection result normal? YES >> Replace rear seatback power return control unit. Refer to SE-127, "Removal and Installation". NO >> Repair or replace the malfunctioning parts. F Н SE K L M Ν

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#### **TILT FUNCTION DOES NOT OPERATE**

#### < SYMPTOM DIAGNOSIS >

### **TILT FUNCTION DOES NOT OPERATE**

### Diagnosis Procedure

INFOID:0000000003566176

### 1. CHECK TILT & TELESCOPIC SWITCH

Check tilt & telescopic switch.

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

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

### 2. CHECK TILT MOTOR

Check tilt motor.

Refer to SE-44, "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-40, "Intermittent Incident".

NO >> GO TO 1.

### **TELESCOPIC FUNCTION DOES NOT OPERATE**

< SYMPTOM DIAGNOSIS >	
TELESCOPIC FUNCTION DOES NOT OPERATE	А
Diagnosis Procedure	Α
1. CHECK TILT & TELESCOPIC SWITCH	В
Check tilt & telescopic switch. Refer to SE-42, "Component Function Check".	
Is the inspection result normal?	С
YES >> GO TO 2.  NO >> Repair or replace the malfunctioning parts.	
NO >> Repair or replace the malfunctioning parts.  2. CHECK TELESCOPIC MOTOR	D
Check telescopic motor. Refer to SE-45, "Component Function Check".	_
Is the inspection result normal?	Е
YES >> GO TO 3.  NO >> Repair or replace the malfunctioning parts.	_
3.CONFIRM THE OPERATION	F
Confirm the operation again.	G
Is the inspection result normal?  YES >> Check intermittent incident. Refer to GI-40, "Intermittent Incident".	O
NO >> GO TO 1.	Н
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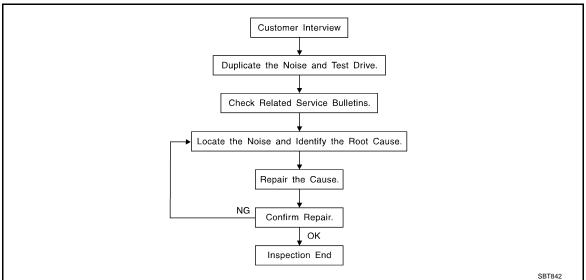
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Work Flow



#### **CUSTOMER INTERVIEW**

Interview the customer if possible, to determine the conditions that exist when the noise occurs. Use the Diagnostic Worksheet during the interview to document the facts and conditions when the noise occurs and any of customer's comments; refer to <a href="SE-94">SE-94</a>, "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 a technician
  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 the repair is reconfirmed.

#### < SYMPTOM DIAGNOSIS >

If the noise can be duplicated easily during the test drive, to help identify the source of the noise, try to dupli-
cate the noise with the vehicle stopped by doing one or all of the following:
4) 01

- 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 is are suspected to be the cause of the noise. 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 is are suspected to be the cause of the noise. Do not tap or push/pull the component with excessive force, otherwise the noise will be eliminated only tem-
- Feeling for a vibration by hand by touching the component(s) that is are suspected to be the cause of the noise.
- Placing a piece of paper between components that are suspected to be the cause of the noise.
- Looking for loose components and contact marks. Refer to SE-92, "Inspection Procedure".

#### REPAIR THE CAUSE

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

#### **CAUTION:**

### Never 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.

**SE-91** 

URETHANE PADS [1.5 mm (0.059 in) thick]

Insulates connectors, harness, etc.

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

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

INSULATOR (Foam blocks)

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

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

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

INSULATOR (Light foam block)

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

FELT CLOTHTAPE

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

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

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

UHMW (TEFLON) TAPE

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#### < SYMPTOM DIAGNOSIS >

Insulates where slight movement is present. Ideal for instrument panel applications.

SILICONE GREASE

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

SILICONE SPRAY

Used when grease cannot be applied.

**DUCT TAPE** 

Used to eliminate movement.

#### CONFIRM THE REPAIR

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

#### Inspection Procedure

INFOID:0000000004778681

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

#### **INSTRUMENT PANEL**

Most incidents are caused by contact and movement between:

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

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

#### **CAUTION:**

Never use silicone spray to isolate a squeak or rattle. If the area is saturated with silicone, the recheck of repair becomes impossible.

#### **CENTER CONSOLE**

Components to pay attention to include:

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

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

#### **DOORS**

Pay attention to the following:

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

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

#### **TRUNK**

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

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

#### < SYMPTOM DIAGNOSIS >

Most of these incidents can be repaired by adjusting, securing or insulating the item(s) or component(s) causing the noise.

#### SUNROOF/HEADLINING

Noises in the sunroof/headlining area can often be traced to one of the following:

- Sunroof lid, rail, linkage or seals making a rattle or light knocking noise
- 2. Sunvisor shaft shaking in the holder
- 3. Front or rear windshield touching headlining and squeaking

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

SEATS

When isolating seat noise it's important to note the position the seats in and the load placed on the seat when the noise occurs. These conditions should be duplicated when verifying and isolating the cause of the noise. Cause of seat noise include:

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

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

UNDERHOOD

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

Causes of transmitted underhood 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
- Hood striker out of adjustment

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

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### **Diagnostic Worksheet**

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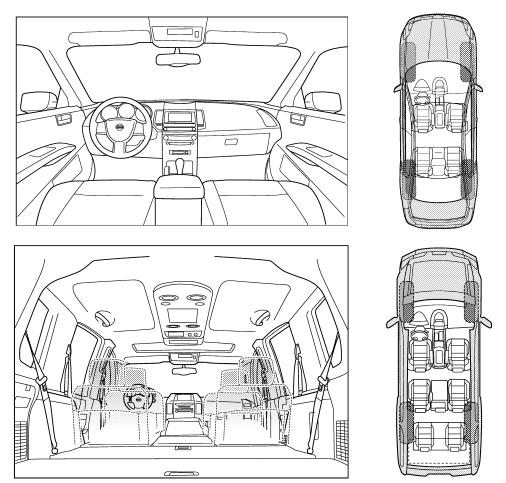
## SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

#### Dear Nissan Customer:

We are concerned about your satisfaction with your Nissan vehicle. Repairing a squeak or rattle sometimes can be very difficult. To help us fix your Nissan 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 advisor 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.

PIIB8740E

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

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### **PRECAUTION**

#### **PRECAUTIONS**

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

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

#### **WARNING:**

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which 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 the "SRS AIRBAG".
- 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

When working near the Airbag Diagnosis Sensor Unit or other Airbag System sensors while ignition switch is ON or engine is running, never use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration may activate the sensor(s), deploy the airbag(s), possibly cause serious injury.

When using air or electric power tools or hammers, always turn OFF ignition switch, disconnect the battery.

When using air or electric power tools or hammers, always turn OFF ignition switch, disconnect the battery, and wait 3 minutes or more before performing any service.

Precaution Necessary for Steering Wheel Rotation after Battery Disconnect

INFOID:0000000003685472

#### NOTE:

- Before removing and installing any control units, first turn the push-button 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-III 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.

This vehicle is equipped with a push-button ignition switch and a 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 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 push-button ignition switch to ACC position. (At this time, the steering lock will be released.)
- 3. Disconnect both battery cables. The steering lock will remain released with both battery cables disconnected and the steering wheel can be turned.
- 4. Perform the necessary repair operation.
- 5. When the repair work is completed, re-connect both battery cables. With the brake pedal released, turn the push-button ignition switch from ACC position to ON position, then to LOCK position. (The steering wheel will lock when the push-button ignition switch is turned to LOCK position.)
- Perform self-diagnosis check of all control units using CONSULT-III.

#### **PRECAUTIONS**

#### < PRECAUTION >

Service Notice

 When removing or installing various parts, place a cloth or padding onto the vehicle body to prevent scratches.

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

Precaution for Work

- When removing or disassembling each component, be careful not to damage or deform it. If a component may be subject to interference, be sure to protect it with a shop cloth.
- When removing (disengaging) components with a screwdriver or similar tool, be sure to wrap the component with a shop cloth or vinyl tape to protect it.
- Protect the removed parts with a shop cloth and keep them.
- Replace a deformed or damaged clip.
- If a part is specified as a non-reusable part, always replace it with new one.
- Be sure to tighten bolts and nuts securely to the specified torque.
- After re-installation is completed, be sure to check that each part works normally.
- Follow the steps below to clean components.
- Water soluble foul: Dip a soft cloth into lukewarm water, and wring the water out of the cloth to wipe the fouled area.
  - Then rub with a soft and dry cloth.
- Oily foul: Dip a soft cloth into lukewarm water with mild detergent (concentration: within 2 to 3%), and wipe the fouled area.
- Then dip a cloth into fresh water, and wring the water out of the cloth to wipe the detergent off. Then rub with a soft and dry cloth.
- Never use organic solvent such as thinner, benzene, alcohol, and gasoline.
- For genuine leather seats, use a genuine leather seat cleaner.

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### **PREPARATION**

### **PREPARATION**

### Special Service Tool

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

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

### **Commercial Service Tool**

INFOID:0000000003396989

	Tool name	Description
Engine ear	SIIA0995E	Locates the noise
Remover tool	JMKIA3050ZZ	Removes the clips, pawls and metal clips
Hook and pick tool	JMJIA0490ZZ	Removes the snap pins

## **ON-VEHICLE REPAIR**

### **FRONT SEAT**

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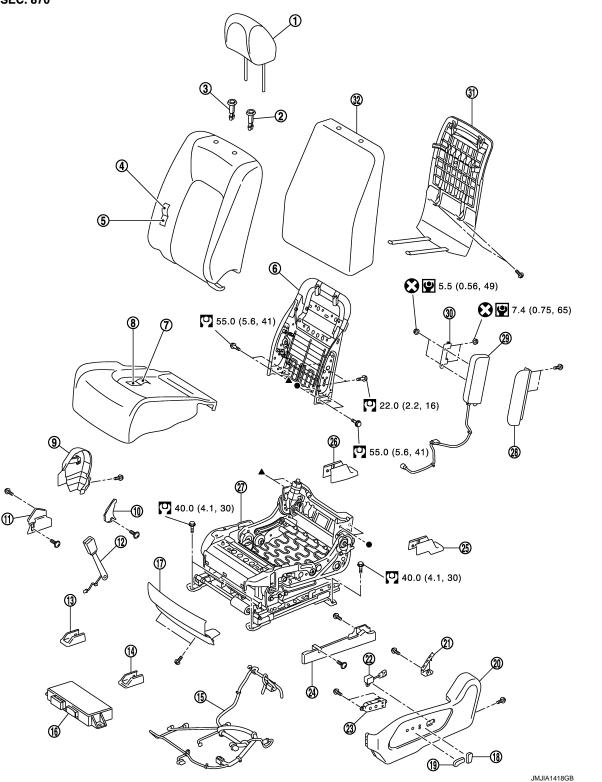
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DRIVER'S POWER SEAT

SEC. 870



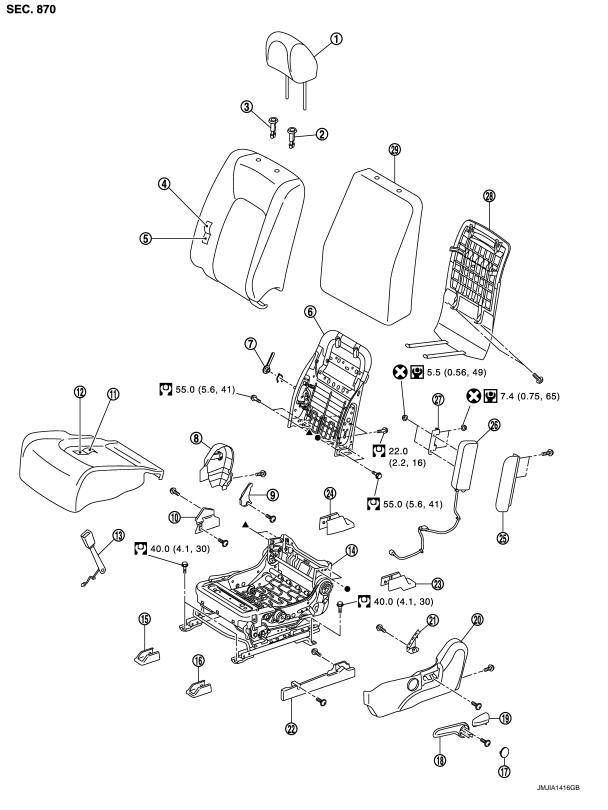
### **FRONT SEAT**

### < ON-VEHICLE REPAIR >

1.	Headrest	2.	Headrest holder (locked)	3.	Headrest holder (free)		
4.	Seatback trim	5.	Seatback pad	6.	Seatback frame		
7.	Seat cushion trim	8.	Seat cushion pad	9.	Seat cushion inner finisher outside		
10.	Seat cushion inner finisher inside (right)	11.	Seat slide inner cover	12.	Seat belt buckle		
13.	Front inner slide cover	14.	Front outer slide cover	15.	Seat harness		
16.	Seat control unit	17.	Seat cushion front finisher	18.	Seat reclining switch knob		
19.	Seat control switch knob	20.	Seat cushion outer finisher outside	21.	Seat cushion outer finisher inside (left)		
22.	Lumbar support switch	23.	Seat control switch	24.	Seat slide outer cover		
25.	Rear outer slide cover	26.	Rear inner slide cover	27.	Seat cushion frame		
28.	Side air bag module cover	29.	Side air bag module	30.	Side air bag module mounting bracket		
31.	Seatback board	32.	Seatback silencer				
Refer to GI-4, "Components" for symbols in the figure.							

### DRIVER'S MANUAL SEAT

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- 1. Headrest
- 4. Seatback trim
- 7. Lumbar support lever
- 10. Seat slide inner cover
- 13. Seat belt buckle

- 2. Headrest holder (locked)
- 5. Seatback pad
- 8. Seat cushion inner finisher outside
- 11. Seat cushion trim
- 14. Seat cushion frame

- 3. Headrest holder (free)
- 6. Seatback frame
- Seat cushion inner finisher inside (right)

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- 12. Seat cushion pad
- 15. Front inner slide cover

### **FRONT SEAT**

#### < ON-VEHICLE REPAIR >

16. Front of	uter slide cover	17.	Lifter lever knob finisher	18.	Lifter lever
19. Reclinin	ng lever	20.	Seat cushion outer finisher outside	21.	Seat cushion outer finisher inside (left)
22. Seat slid	de outer cover	23.	Rear outer slide cover	24.	Rear inner slide cover
25. Side air	bag module cover	26.	Side air bag module	27.	Side air bag module mounting bracket
28. Seatbac	ck board	29.	Seatback silencer		

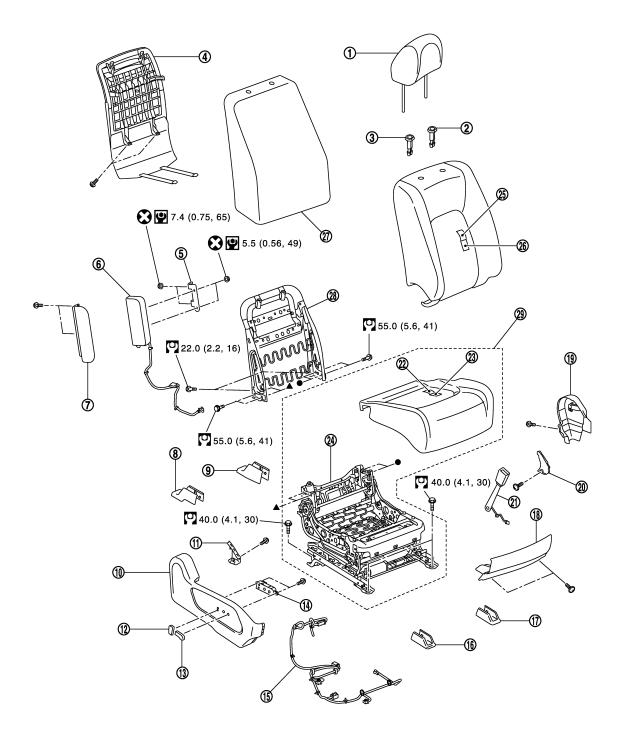
Refer to GI-4, "Components" for symbols in the figure.

#### PASSENGER'S POWER SEAT

#### **CAUTION:**

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

**SEC. 870** 



JMJIA1417GB

- 1. Headrest
- 4. Seatback board
- 7. Side air bag module cover
- 10. Seat cushion outer finisher outside
- 13. Seat control switch knob

- 2. Headrest holder (locked)
- 5. Side air bag module mounting brack- 6.
- 8. Rear outer slide cover
- 11. Seat cushion outer finisher inside (right)
- 14. Seat control switch

- 3. Headrest holder (free)
  - Side air bag module
- 9. Rear inner slide cover
- 12. Seat reclining switch knob
- 15. Seat harness

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### **FRONT SEAT**

#### < ON-VEHICLE REPAIR >

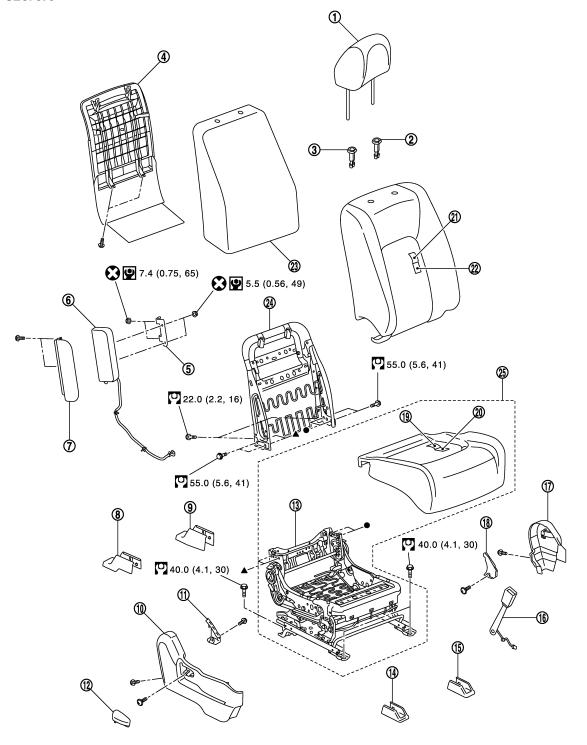
16.	Front outer slide cover	17.	Front inner slide cover	18.	Seat cushion front finisher		
19.	Seat cushion inner finisher outside	20.	Seat cushion inner finisher inside (left)	21.	Seat belt buckle		
22.	Seat cushion trim	23.	Seat cushion pad	24.	Seat cushion frame		
25.	Seatback trim	26.	Seatback pad	27.	Seatback silencer		
28.	Seatback frame	29.	Seat cushion assembly				
Refer to GI-4, "Components" for symbols in the figure.							

### PASSENGER'S MANUAL SEAT

#### **CAUTION:**

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





JMJIA1419GB

- 1. Headrest
- 4. Seatback board
- 7. Side air bag module cover
- 10. Seat cushion outer finisher outside
- 13. Seat cushion frame

- 2. Headrest holder (locked)
- 5. Side air bag module mounting brack- 6.
- 8. Rear outer slide cover
- 11. Seat cushion outer finisher inside (right)
- 14. Front outer slide cover

- 3. Headrest holder (free)
  - Side air bag module
- 9. Rear inner slide cover
- 12. Reclining lever
- 15. Front inner slide cover

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#### FRONT SEAT

#### < ON-VEHICLE REPAIR >

Seat belt buckle
 Seat cushion inner finisher outside
 Seat cushion inner finisher inside (left)

Seat cushion trim
 Seat cushion pad
 Seatback trim
 Seatback pad
 Seatback silencer
 Seatback frame

25. Seat cushion assembly

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

#### Removal and Installation

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#### REMOVAL

#### **CAUTION:**

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

- Remove the headrest.
- 2. Remove the front slide cover.
- Remove the mounting bolts on the front side of the front seat.
- 4. Remove the rear slide cover.
- 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 battery negative terminal 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.(With automatic drive positioner model) Refer to <u>ADP-8</u>, "<u>ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL</u>: <u>Description</u>".

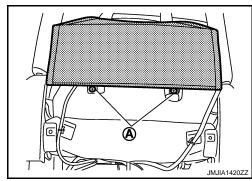
### Disassembly and Assembly

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#### **SEATBACK**

#### Disassembly

- 1. Remove the seatback board.
  - Remove the seatback board band from seat cushion bottom side.
  - Remove the seatback board mounting screws (A).

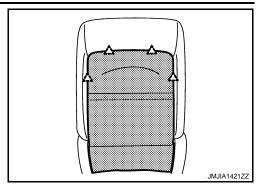


#### **FRONT SEAT**

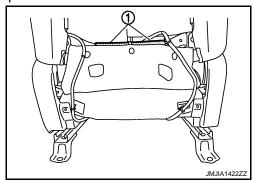
#### < ON-VEHICLE REPAIR >

• Pull down the seatback board to release the pawls.

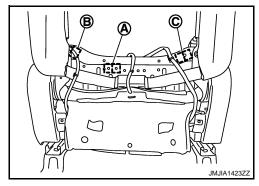




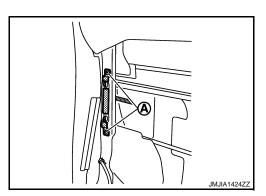
- 2. Disconnect the harness connectors and remove the harness clamps.
  - Remove the seatback trim retainer (1).



 Disconnect the seatback heater harness connector (A) (Heater seat only), lumbar support harness connector (B) (Driver's seat only) and reclining motor harness connector (C) (Power seat only).



- 3. Remove the side air bag module.
  - Remove the seatback trim retainer.
  - Remove the side air bag module cover mounting screws (A).
  - Remove the side air bag module.



4. Remove the lumbar support lever knob. (Manual lumbar support seat only.)

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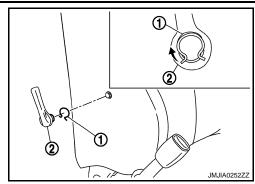
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Pull snap ring (1) upward, and remove lumbar support lever knob (2) from seatback frame with hook and pick tool.

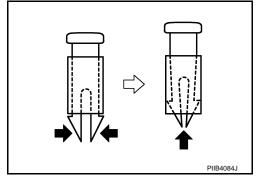


- 5. Remove the seatback trim and seatback pad.
  - Remove the headrest holder.

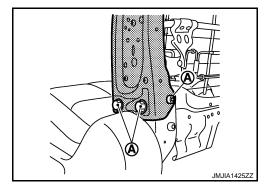
#### **CAUTION:**

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

- Remove the seatback trim and seatback pad from the seatback frame.
- Remove the hog rings, and separate the seatback trim and seatback pad.



- 6. Remove the seatback silencer.
- Remove the seatback frame.
   Remove the seatback frame mounting bolts (A).



#### Assembly

Assemble in the reverse order of disassembly.

#### **CAUTION:**

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

**SEAT CUSHION** 

#### Disassembly

#### **CAUTION:**

Never disassemble front passenger seat cushion assembly.

Always replace as an assembly.

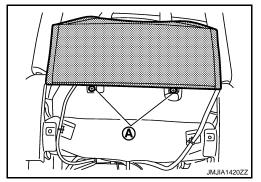
For front passenger seat service parts, refer to the service part catalogue.

1. Remove the seatback board.

# **FRONT SEAT**

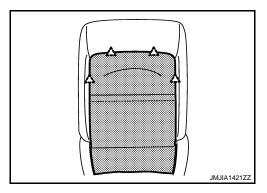
# < ON-VEHICLE REPAIR >

- Remove the seatback board fixing band on the bottom of seat cushion.
- Remove the seatback board mounting screws (A).



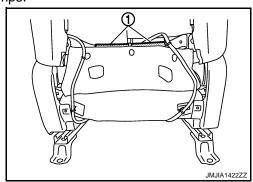
• Pull down the seatback board to release the pawls.

\_^\ : Pawl

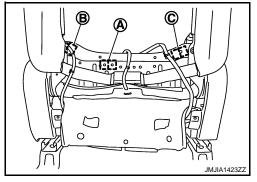


2. Disconnect the harness connectors and remove the harness clamps.

• Remove the seatback trim retainer (1).



• Remove the seatback heater harness connector (A), lumbar support harness connector (B) (Driver's power seat only) and reclining motor harness connector (C).



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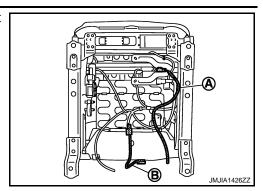
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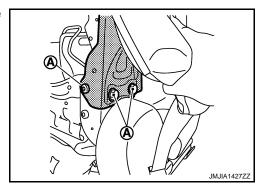
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• Remove the side air bag module harness (A) and disconnect the seat cushion heater harness connector (B).

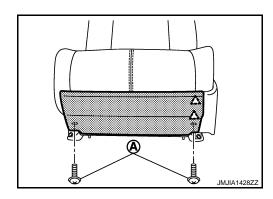


- 3. Remove the seatback assembly.
  - Remove the seatback mounting bolts (A), and then remove the seatback assembly.



- 4. Remove the seat cushion front finisher. (Power seat only)
  - Remove the seat cushion front finisher mounting screws (A).
  - Remove the seat cushion front finisher mounting pawl.

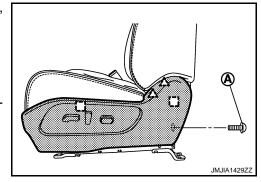




- 5. Remove the seat cushion outer finisher outside.
- a. Power seat
  - Remove the seat control switch knob and reclining switch knob and lumbar support switch.
  - Remove the seat cushion outer finisher mounting screw (A), metal clips and pawls.



• Disconnect the seat control switch, reclining switch and lumbar support switch harness connectors (Driver's seat only).



b. Manual seat

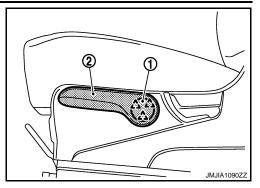
# **FRONT SEAT**

# < ON-VEHICLE REPAIR >

Remove the pawls, and then lifter lever knob finisher (1).
 (Driver's manual seat only)

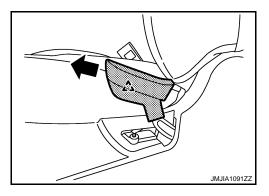


 Remove the mounting screws, and remove the lifter lever (2). (Driver's manual seat only)



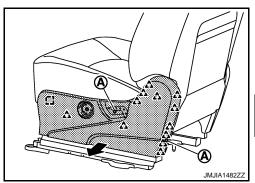
• Pull out the reclining lever while holding and raising the pawl.



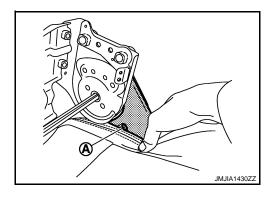


- Remove the mounting screws (A).
- Remove the metal clip and pawls, and then pull out seat cushion outer finisher outside.





- 6. Remove the seat cushion outer finisher inside (left).
  - Remove the mounting screw (A).



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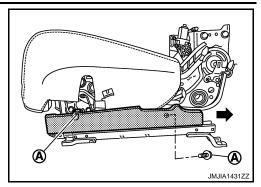
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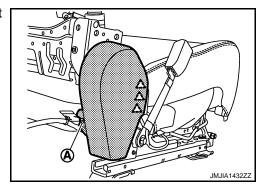
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7. Remove the seat slide outer cover (Driver's seat only) mounting screws (A), and then slide to backward.

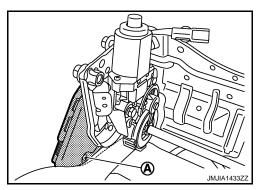


8. Remove the mounting screw (A) and pawls, and then pull out seat cushion inner finisher outer.

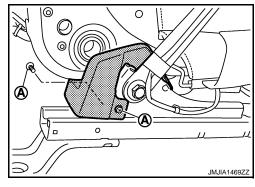




9. Remove the mounting screw (A), and then pull out seat cushion inner finisher inside (right).



10. Remove the mounting screws (A), and then pull out seat slide inner cover. (Driver's seat only)



- 11. Remove the seat cushion trim and seat cushion pad. (Without occupant classification system control unit model)
  - Remove the seat cushion trim retainer.
  - Remove the seat cushion trim and seat cushion pad from the seat cushion frame.
  - Remove the hog rings, and separate the seat cushion trim and seat cushion pad.
- 12. Remove the seat belt buckle. SB-7, "SEAT BELT BUCKLE: Exploded View"
- 13. Remove the driver seat control unit. ADP-204, "Exploded View"

Assembly

Assemble in the reverse order of disassembly.

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# **FRONT SEAT**

# < ON-VEHICLE REPAIR >

#### **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.

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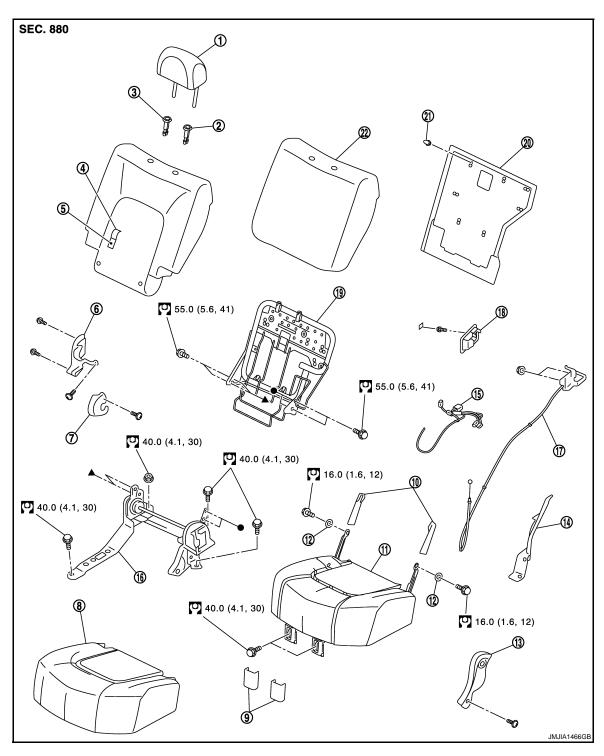
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Exploded View

# REAR SEAT (LH SIDE)



- 1. Headrest (LH)
- 4. Seatback trim
- 7. Reclining device inner cover (inside) 8.
- 10. Seat cushion link cover
- 13. Reclining device outer cover
- 2. Headrest holder (locked)
- 5. Seatback pad
- 8. Seat cushion trim
- 11. Seat cushion pad and frame
- 14. Reclining cover

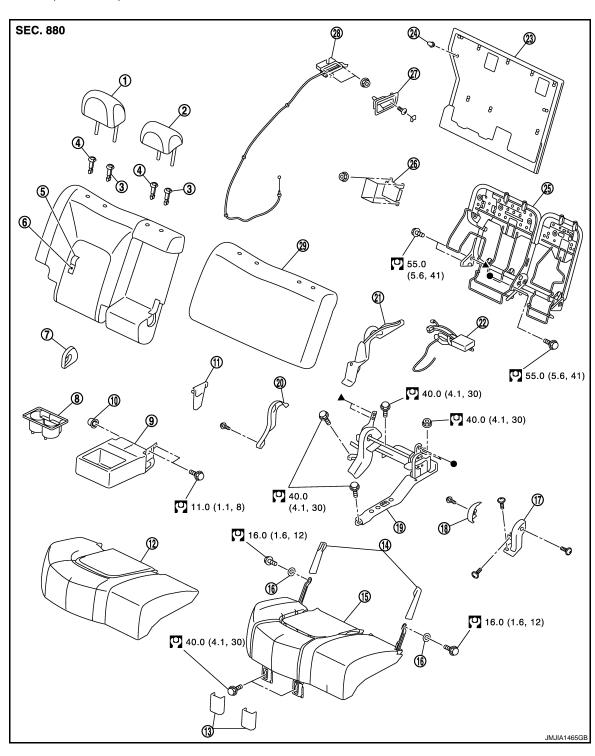
- 3. Headrest holder (free)
- 6. Reclining device inner cover (outside)
- 9. Seat cushion hinge cover
- 12. Seat cushion link bush
- 15. Rear seat harness (LH)

- 16. Reclining device assembly
- 19. Seatback frame
- 22. Seatback silencer
- 17. Seatback control cable
- 20. Seatback board

- 18. Seatback control lever escutcheon
- 21. Seatback board clip

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

# REAR SEAT (RH SIDE)



- 1. Headrest (RH)
- 4. Headrest holder (free)
- 7. Armrest inner cover
- 10. Armrest bush
- 13. Seat cushion hinge cover
- 2. Headrest (center)
- 5. Seatback trim
- 8. Cup holder
- 11. Armrest outer cover
- 14. Seat cushion link cover
- 3. Headrest holder (locked)
- 6. Seatback pad
- 9. Armrest
- 12. Seat cushion trim
- 15. Seat cushion pad and frame

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# < ON-VEHICLE REPAIR >

16. Seat cushion link bush	17. Reclining device inner cover (outside)	18. Reclining device inner cover (inside)					
19. Reclining device assembly	20. Reclining device outer cover	21. Reclining cover					
22. Rear seat harness (RH)	23. Seatback board	24. Seatback board clip					
25. Seatback frame	26. Dynamic dumper	27. Seatback control lever escutcheon					
28. Seatback control cable	29. Seatback silencer						
Refer to GI-4, "Components" for symbols in the figure.							

# Removal and Installation

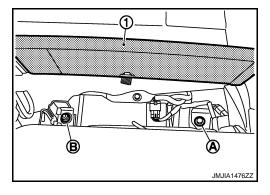
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# REMOVAL

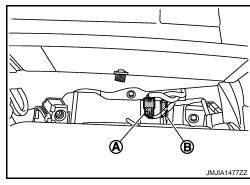
#### **CAUTION:**

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

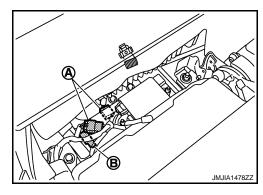
- 1. Remove the seat mounting bolts and nuts.
  - Pull up the luggage floor finisher front (1).
  - Remove the seat mounting bolt (A) and nut (B).



- 2. Disconnect the rear seat harness connector (A) and heater unit harness connector (B). (Power return seat and heater seat model only)
- a. LH side



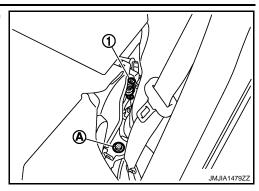
b. RH side



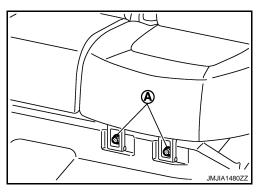
3. Remove the reclining cover.

# < ON-VEHICLE REPAIR >

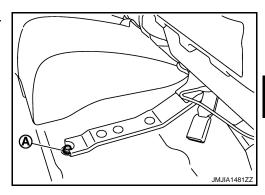
 Remove the seatback control cable (1) from reclining device assembly and seat mounting bolt (A).



- 5. Remove the seat cushion hinge cover.
- 6. Remove the rear seat mounting bolts (A).



7. Pull up the seat cushion and remove the seat mounting bolt (A).



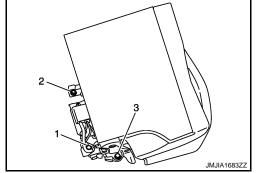
8. Remove the rear seat assembly from back door.

# **INSTALLATION**

#### NOTE:

Tighten rear seat mouniting bolts and nuts following the numerical order shown in the figure.

- Install the rear seat mounting bolt on behind the seatback (out side) and nut on behind the seatback (inside).
- 2. Install the rear seat mounting bolt on the seat cushion out side.



3. Connect the rear seat harness connector and heater harness connector. (Power return seat and heater seat only)

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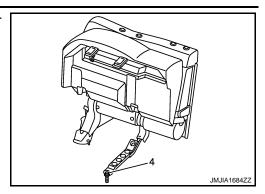
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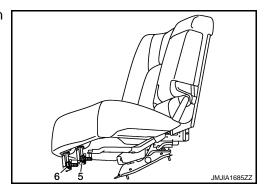
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#### < ON-VEHICLE REPAIR >

Install the rear seat mounting bolt on the reclining device extension bracket.



5. Install the rear seat mounting bolt and on the seat cushion hinge.



- 6. Connect the seatback control cable.
- 7. Install the seat cushion hinge cover.
- 8. Install the reclining cover.

#### **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.
- Before installation, check that the rear seat harness and seatback control cable is not pressed by seat frame.

Disassembly and Assembly

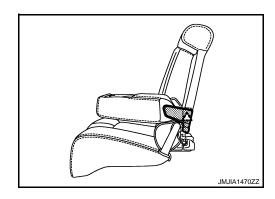
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#### **SEATBACK**

Disassembly

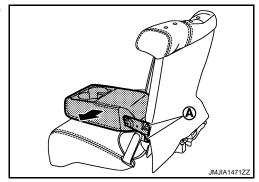
- Remove the armrest. (RH seat only)
  - · Remove the armrest outer cover.





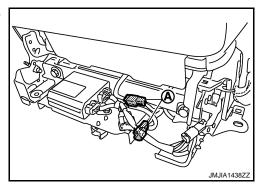
# < ON-VEHICLE REPAIR >

• Remove the armrest mounting bolts (A), and then slide the armrest to toward the arrow direction.

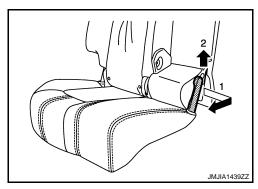


2. Separate the seatback assembly and seat cushion assembly.

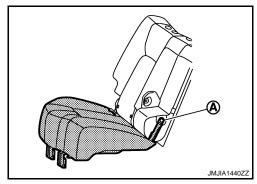
 Disconnect the seat cushion heater unit harness connectors (A) and remove the harness clamps. (with heater seat model only)



· Remove the seat cushion link cover.



• Remove the mounting bolt (A), and then separate the seatback assembly and seat cushion assembly.



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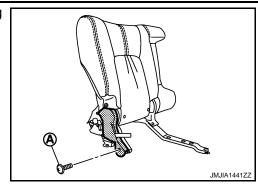
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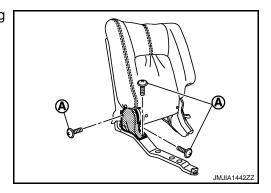
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3. Remove the mounting screw (A), and then remove the reclining device outer cover.

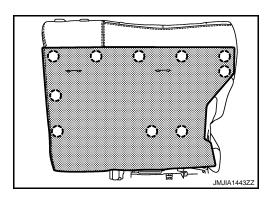


4. Remove the mounting screws (A), and then remove the reclining device inner cover (outside). (LH seat)



- 5. Remove the seatback trim and pad.
  - Remove the clips, and then pull out the seatback board.



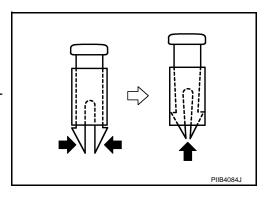


- Remove the seatback trim fixing hog rings and retainer.
- Remove the headrest holder.

#### **CAUTION:**

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

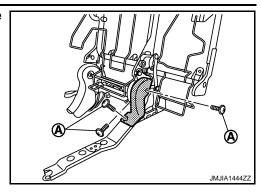
- Remove the seatback trim and pad from seatback frame.
- Remove the hog rings to separate the seatback trim and seat-back pad.



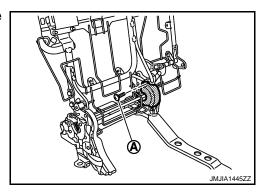
6. Remove the seatback silencer.

#### < ON-VEHICLE REPAIR >

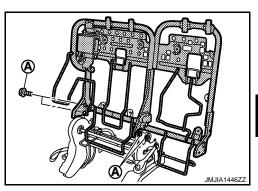
Remove the screws (A), and then remove the reclining device inner cover (outside). (RH seat)



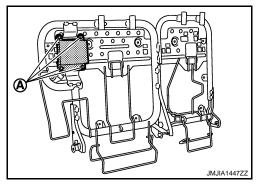
8. Remove the screw (A), and then remove the reclining device inner cover (inside).



9. Remove the mounting bolts (A), and then remove the seatback frame from reclining device assembly.



10. Remove the mounting nuts (A), and then remove the dynamic dumper. (With top road sunroof model only)



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 armrest. (RH seat only)

**SE-121** Revision: 2008 October 2009 Murano Α

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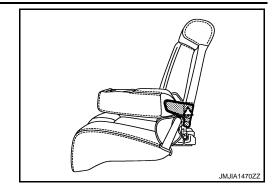
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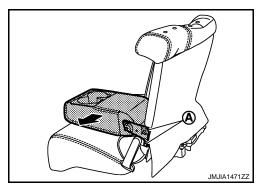
# < ON-VEHICLE REPAIR >

• Remove the pawl, and then pull out armrest outer cover.



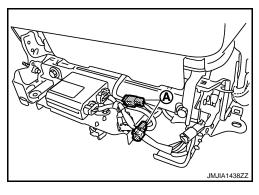


• Remove the mounting bolts (A), and then slide the armrest to outside.

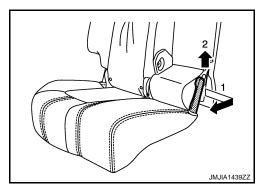


- 2. Separate the seatback assembly and seat cushion assembly.
  - Disconnect the seat cushion heater unit harness connectors

     (A) and remove the harness clamps. (with heater seat model only)

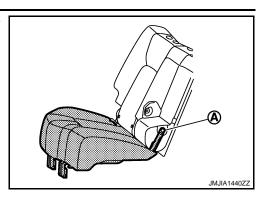


• Remove the seat cushion link cover.



# < ON-VEHICLE REPAIR >

• Remove the mounting bolt (A), and then separate the seatback assembly and seat cushion assembly.



3. Remove the seat cushion trim.

Remove the seat cushion trim fixing retainers and hog rings, and then remove the seat cushion trim from seat cushion pad and frame.

#### Assembly

Assemble in the reverse order of disassembly.

#### **CAUTION:**

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

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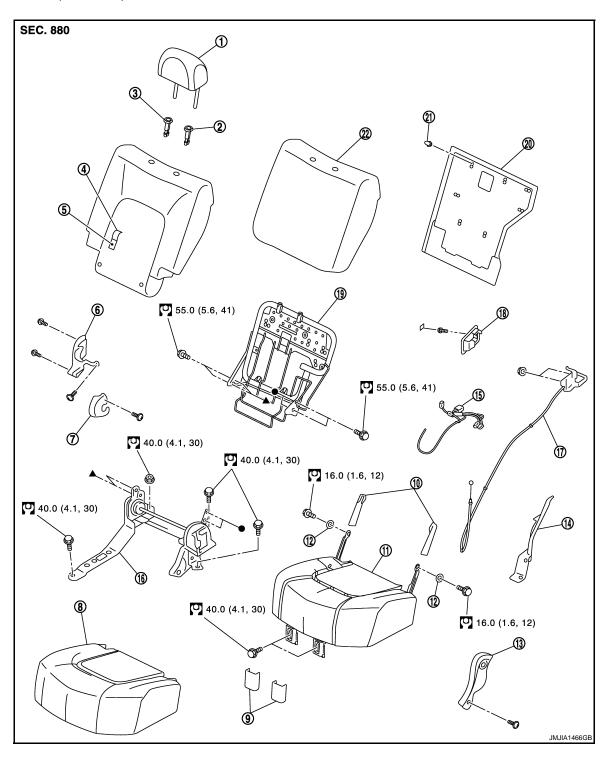
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# SEATBACK CONTROL CABLE

Exploded View

REAR SEAT (LH SIDE)



- 1. Headrest (LH)
- 4. Seatback trim
- 7. Reclining device inner cover (inside) 8.
- 10. Seat cushion link cover
- 13. Reclining device outer cover
- 2. Headrest holder (locked)
- 5. Seatback pad
- 8. Seat cushion trim
- 11. Seat cushion pad and frame
- 14. Reclining cover

- 3. Headrest holder (free)
- 6. Reclining device inner cover (outside)
- 9. Seat cushion hinge cover
- 12. Seat cushion link bush
- 15. Rear seat harness (LH)

# SEATBACK CONTROL CABLE

# < ON-VEHICLE REPAIR >

16. Reclining device assembly

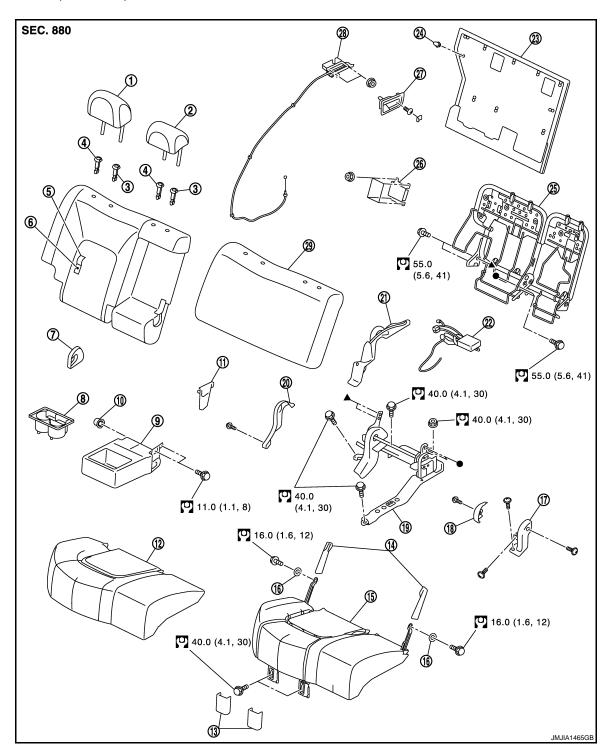
Refer to GI-4, "Components" for symbols in the figure.

- 19. Seatback frame
- 22. Seatback silencer
- 17. Seatback control cable
- 20. Seatback board

- 18. Seatback control lever escutcheon

21. Seatback board clip

# REAR SEAT (RH SIDE)



- 1. Headrest (RH)
- 4. Headrest holder (free)
- 7. Armrest inner cover
- 10. Armrest bush
- Seat cushion hinge cover
- 2. Headrest (center)
- 5. Seatback trim
- Cup holder 8.
- Armrest outer cover 11.
- Seat cushion link cover
- 3. Headrest holder (locked)
- 6. Seatback pad
- 9. Armrest
- 12. Seat cushion trim
- Seat cushion pad and frame 15.

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**SE-125** Revision: 2008 October 2009 Murano

# SEATBACK CONTROL CABLE

#### < ON-VEHICLE REPAIR >

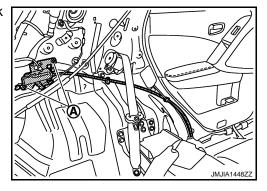
16	. Seat cushion link bush	17.	Reclining device inner cover (outside)	18.	Reclining device inner cover (inside)		
19	. Reclining device assembly	20.	Reclining device outer cover	21.	Reclining cover		
22	. Rear seat harness (RH)	23.	Seatback board	24.	Seatback board clip		
25	. Seatback frame	26.	Dynamic dumper	27.	Seatback control lever escutcheon		
28	. Seatback control cable	29.	Seatback silencer				
Refer to GI-4 "Components"for symbols in the figure							

# Removal and Installation

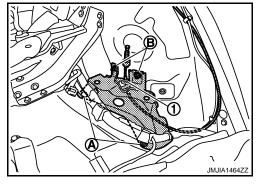
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#### **REMOVAL**

- 1. Remove the seatback control lever escutcheon.
- 2. Remove the luggage side lower finisher. Refer to <a href="INT-34">INT-34</a>, "Removal and Installation".
- 3. Remove the rear seat assembly. Refer to SE-116, "Removal and Installation"
- 4. Remove the mounting nuts (A), and then remove the seatback control lever.



- 5. Remove the rear seat mount bracket.
  - Remove the seat mount bracket mounting bolts (A) and nuts (B).
  - Remove the seatback control cable bush (1).
  - Remove the seatback control cable from the vehicle.



### **INSTALLATION**

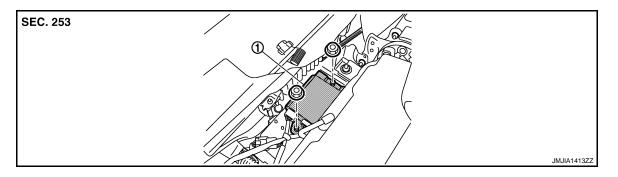
Install in the reverse order of removal.

# REAR SEAT BACK POWER RETURN CONTROL UNIT

< ON-VEHICLE REPAIR >

# REAR SEAT BACK POWER RETURN CONTROL UNIT

Exploded View



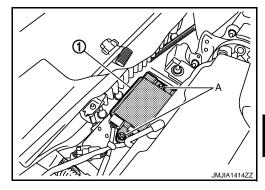
1. Rear seatback power return control unit

# Removal and Installation

REMOVAL CAUTION:

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

- 1. Remove mounting nuts (A).
- 2. Remove rear seatback power return control unit (1).



**INSTALLATION** 

Install in the reverse order of removal.

**CAUTION:** 

Be sure to clump the harness to the right place.

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# **POWER SEAT SWITCH**

# < ON-VEHICLE REPAIR >

# **POWER SEAT SWITCH**

Exploded View

Refer to SE-99, "Exploded View".

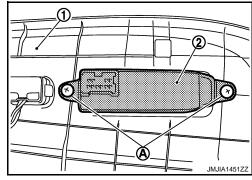
Removal and Installation

# **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-106</u>, <u>"Removal and Installation"</u>.
- 2. Remove 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 clump the harness to the right place.

# **LUMBAR SUPPORT SWITCH**

# < ON-VEHICLE REPAIR >

# **LUMBAR SUPPORT SWITCH**

Exploded View

Refer to SE-99, "Exploded View".

Removal and Installation

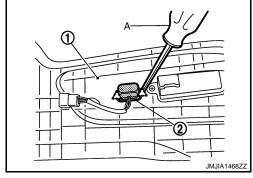
# **REMOVAL**

#### **CAUTION:**

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

- 1. Remove the seat cushion outer finisher (1). Refer to SE-106, "Removal and Installation".
- 2. Remove the lumbar support switch (2) from the seat cushion outer finisher. With flat bladed screw driver (A).





#### **INSTALLATION**

Install in the reverse order of removal.

#### **CAUTION:**

Be sure to clump the harness to the right place.

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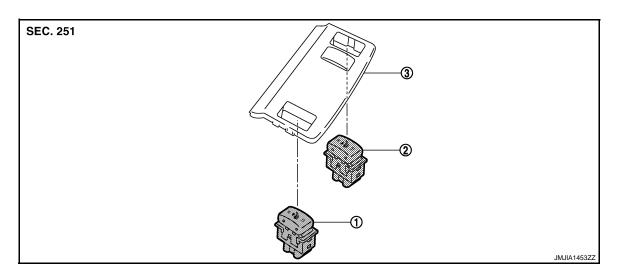
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# HEATED SEAT SWITCH FRONT SEAT

FRONT SEAT : Exploded View

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- 1. Front heated seat switch (driver side)
- Front heated seat switch (passenger 3. Console switch finisher side)

# FRONT SEAT: Removal and Installation

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# **REMOVAL**

#### **CAUTION:**

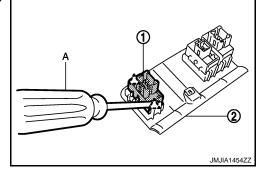
When removing and installing, use shop cloths to protect from damage.

- 1. Remove the console switch finisher (1). Refer to IP-19, "Exploded View"
- 2. Remove front heated seat switch (driver side) (2) from console switch finisher. With flat bladed screw driver (A).



#### NOTE:

The same procedure is also performed for passenger side.



**INSTALLATION** 

Install in the reverse order of removal.

REAR SEAT

# **REAR SEAT: Exploded View**

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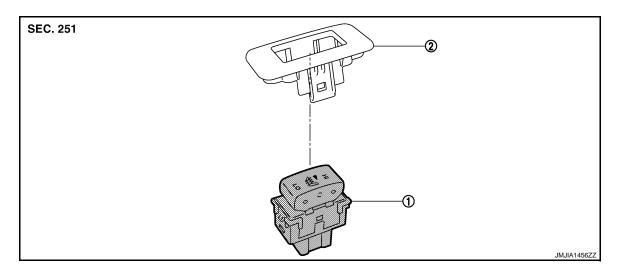
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- Rear heated seat switch
- Heated seat switch finisher

# REAR SEAT : Removal and Installation

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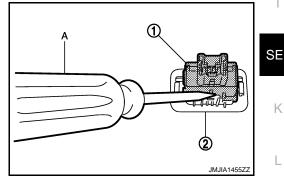
#### **REMOVAL**

#### **CAUTION:**

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

- Remove the heated seat switch finisher (2). Refer to INT-15, "REAR DOOR FINISHER: Exploded View"
- Remove rear heated seat switch (1) from heated seat switch finisher. With flat bladed screw driver (A).





#### **INSTALLATION**

Install in the reverse order of removal.

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# FRONT POWER RETURN SWITCH

# < ON-VEHICLE REPAIR >

# FRONT POWER RETURN SWITCH

Exploded View

Refer to IP-11, "Exploded View".

Removal and Installation

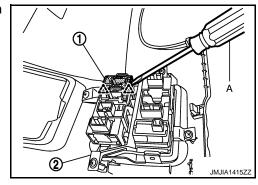
# **REMOVAL**

#### **CAUTION:**

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

- 1. Remove the instrument lower panel (LH) (1). Refer to IP-12, "Removal and Installation"
- 2. Remove front power return switch (1) from switch bracket. With flat bladed screw driver (A).





#### **INSTALLATION**

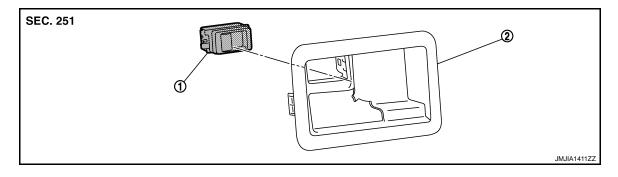
Install in the reverse order of removal.

# **REAR POWER RETURN SWITCH**

# < ON-VEHICLE REPAIR >

# REAR POWER RETURN SWITCH

Exploded View



- 1. Rear power return switch
- 2. Seatback control lever escutcheon

# Removal and Installation

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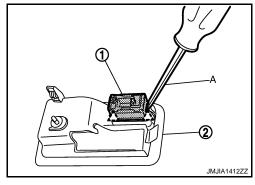
# REMOVAL

#### **CAUTION:**

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

- 1. Remove the seatback control lever escutcheon.
- 2. Remove rear power return switch (1) from seatback control lever escutcheon. With flat bladed screw driver (A).





# **INSTALLATION**

Install in the reverse order of removal.

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# **AUTOMATIC DRIVE POSITIONER CONTROL UNIT**

# < ON-VEHICLE REPAIR >

# AUTOMATIC DRIVE POSITIONER CONTROL UNIT

Exploded View

Refer to IP-11, "Exploded View".

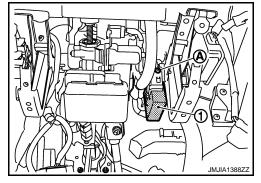
Removal and Installation

#### **REMOVAL**

#### **CAUTION:**

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

- 1. Remove the instrument driver lower panel. Refer to <u>IP-12.</u> "Removal and Installation".
- 2. Remove a screw (A).
- 3. Remove automatic drive positioner control unit (1).



#### **INSTALLATION**

Install in the reverse order of removal.

#### **CAUTION:**

Be sure to clump the harness to the right place.

# TILT&TELESCOPIC SWITCH

# < ON-VEHICLE REPAIR >

# TILT&TELESCOPIC SWITCH

Exploded View

Refer to IP-11, "Exploded View".

Removal and Installation

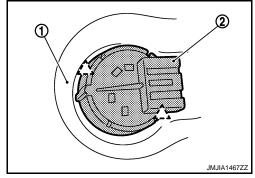
# **REMOVAL**

#### **CAUTION:**

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

- 1. Remove the steering column mask (1). Refer to <u>IP-12, "Removal and Installation"</u>.
- 2. Press pawls and remove tilt & telescopic switch (2) from the steering column mask.





#### **INSTALLATION**

Install in the reverse order of removal.

#### **CAUTION:**

Be sure to clump the harness to the right place.

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