

SECTION SE SEAT

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DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

[WITH VENTILATION SEAT]

BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

INFOID:000000003809297

DETAILED FLOW

1.OBTAIN INFORMATION ABOUT SYMPTOM

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

>> GO TO 2.

2.REPRODUCE THE MALFUNCTION INFORMATION

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

>> GO TO 3.

3.IDENTIFY THE MALFUNCTIONING SYSTEM WITH "SYMPTOM DIAGNOSIS"

Use "Symptom diagnosis" from the symptom inspection result in step 2 and then identify where to start performing the diagnosis based on possible causes and symptoms.

>> GO TO 4.

4.IDENTIFY THE MALFUNCTIONING PARTS WITH "COMPONENT DIAGNOSIS"

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

>> GO TO 5.

5.REPAIR OR REPLACE THE MALFUNCTIONING PARTS

Repair or replace the specified malfunctioning parts.

>> GO TO 6.

6.FINAL CHECK

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

Are the malfunctions corrected?

YES >> INSPECTION END
NO >> GO TO 3.

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FUNCTION DIAGNOSIS

POWER SEAT

System Description

INFOID:000000003809302

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 adjusts the front and back position of the seat.

RECLINING OPERATION

While operating the reclining switch located in power seat switch, reclining motor operates and adjusts the forward and backward position of the seatback.

LIFTING OPERATION

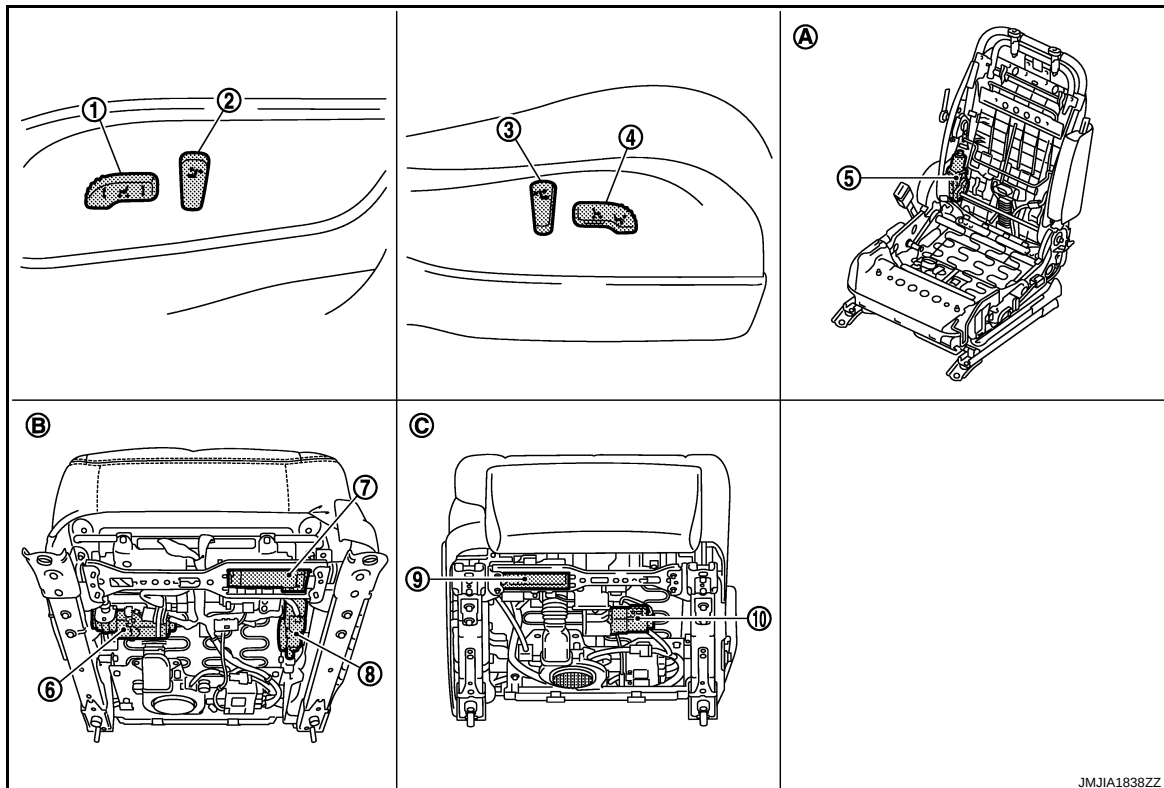
While operating the lifting switch located in power seat switch (driver side), lifting motor operates and adjusts the up and down position of the seat cushion.

OTTOMAN OPERATION

While operating the ottoman switch located in power seat switch (passenger side), ottoman motor operates and adjusts the up and down position of the ottoman.

Component Parts Location

INFOID:000000003809303



- | | | |
|---|--|---|
| 1. Sliding switch and lifting switch (driver side) B414 | 2. Reclining switch (driver side) B414 | 3. Reclining switch (passenger side) B446 |
| 4. Sliding switch and ottoman switch B446 | 5. Reclining motor (driver side) B415 | 6. Lifting motor (front) (driver side) B417 |
| 7. Sliding motor (driver side) B416 | 8. Lifting motor (rear) (driver side) B418 | 9. Sliding motor (passenger side) B437 |

POWER SEAT

< FUNCTION DIAGNOSIS >

[WITH VENTILATION SEAT]

10. Ottoman motor B445

A. View with seat cushion pad and seat-back pad removed.

B. Backside of seat cushion (driver side)

C. Backside of seat cushion (passenger side)

Component Description

INFOID:000000003809304

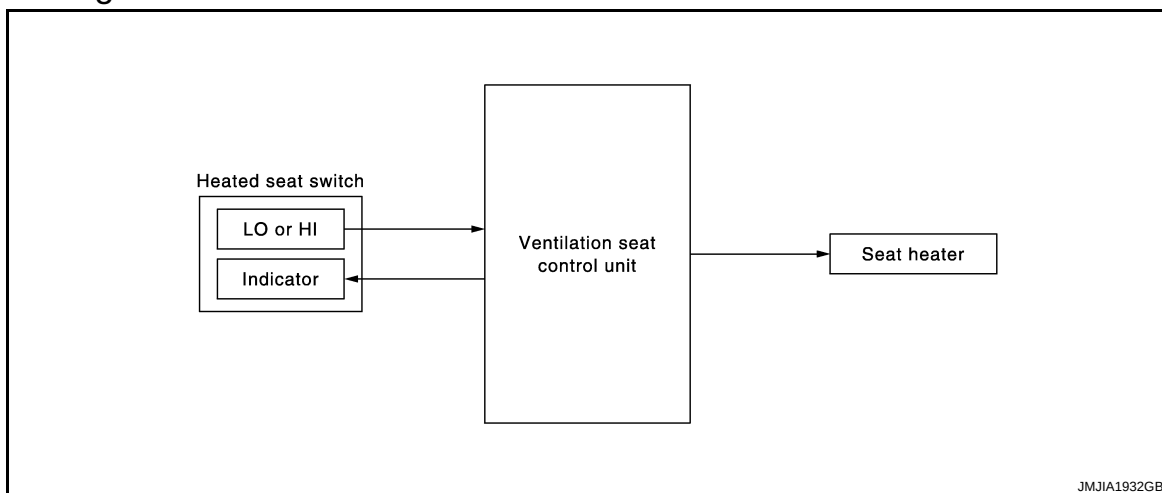
Item	Function
BCM	Supplies at all times the power received from battery to power seat switch
Power seat switch (driver side)	Built-in reclining switch, sliding switch and lifting switch, controls the power supplied to each motor
Power seat switch (passenger side)	Built-in reclining switch, sliding switch and ottoman switch, controls the power supplied to each motor
Reclining motor	With the power supplied from power seat switch, operates forward and backward movement of seatback
Sliding motor	With the power supplied from power seat switch, operates forward and backward slide of seat
Lifting motor (front/rear)	With the power supplied from power seat switch, operates up and down movement of seat cushion
Ottoman motor	With the power supplied from power seat switch, operates up and down movement of ottoman

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SE

HEATED SEAT

System Diagram



INFOID:000000003820817

JMJA1932GB

System Description

INFOID:000000003820814

- The heated seat system is controlled by the ventilation seat control unit.
 - The heated seat system consists of the heated seat switch, the heater unit and the ventilation seat control unit.
 - The function of the heated seat system is to warm the seat surface.
 - The heated seat system has a LO and HI mode that can be switched back and forth. The LO mode warms the seat surface slowly and the HI mode warms it quickly.
- The indicator on the heated seat switch indicates the operating status of each mode.

NOTE:

- The memory function is adopted for the front seat. When the ignition switch turns ON again after turning OFF, while the heated seat is being operated, the heated seat system restarts at the same warmth as the previous operation.
- For the rear seat, when the ignition switch turns ON again after turning OFF, while the heated seat is being operated, the heated seat system does not restart and stays in the OFF position.
- While the heated seat system is being operated, the ventilation seat system becomes invalid.

LO MODE OPERATION

- When the LO button of the heated seat switch is pressed, while the ignition switch is ON, the ventilation seat control unit supplies the seat heater with the LO mode power supply and simultaneously illuminates the LO mode indicator in the heated seat switch.
- The seat heater warms the seat cushion and seatback to a low temperature by the LO mode power supply.
- When the LO button is pressed again, while the heated seat switch is in the LO mode position, the indicator and the heated seat switch turn OFF.

HI MODE OPERATION

- When the HI button of the heated seat switch is pressed, while the ignition switch is ON, the Ventilation and Heated seat control unit supplies the seat heater with the HI mode power supply and simultaneously illuminates the HI mode indicator in the heated seat switch.
- The seat heater warms the seat cushion and seatback to a high temperature by the HI mode power supply.
- When the HI button is pressed again, while the heated seat switch is in the HI mode position, the indicator and the heated seat switch turn OFF.

FAIL-SAFE

The fail-safe function is adopted for the ventilation seat control unit. Refer to [SE-59, "FRONT SEAT : Fail-safe"](#).

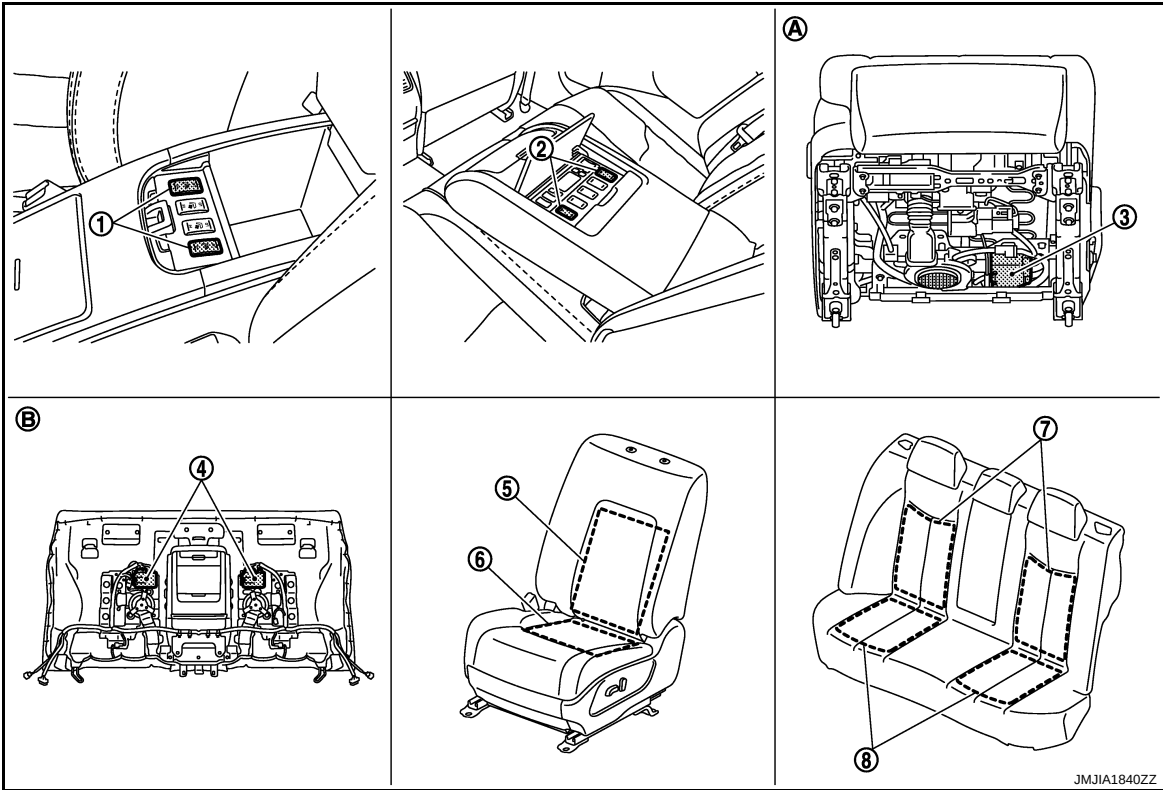
HEATED SEAT

< FUNCTION DIAGNOSIS >

[WITH VENTILATION SEAT]

Component Parts Location

INFOID:000000003820815



- | | | |
|---|---|---|
| 1. Front heated seat switch <ul style="list-style-type: none">• Driver side M206• Passenger side M207 | 2. Rear heated seat switch <ul style="list-style-type: none">• LH B494• RH B505 | 3. Front ventilation seat control unit <ul style="list-style-type: none">• Driver side B465, B466, B467• Passenger side B441, B442, B443 |
| 4. Rear ventilation seat control unit <ul style="list-style-type: none">• LH B489, B490, B491• RH B500, B501, B502 | 5. Front seatback heater <ul style="list-style-type: none">• Driver side B464• Passenger side B433 | 6. Front seat cushion heater <ul style="list-style-type: none">• Driver side B463• Passenger side B432 |
| 7. Rear seatback heater <ul style="list-style-type: none">• LH B488• RH B499 | 8. Rear seat cushion heater <ul style="list-style-type: none">• LH B487• RH B498 | |
| A. Backside of seat cushion (front seat) | B. Backside of seatback (rear seat) | |

Component Description

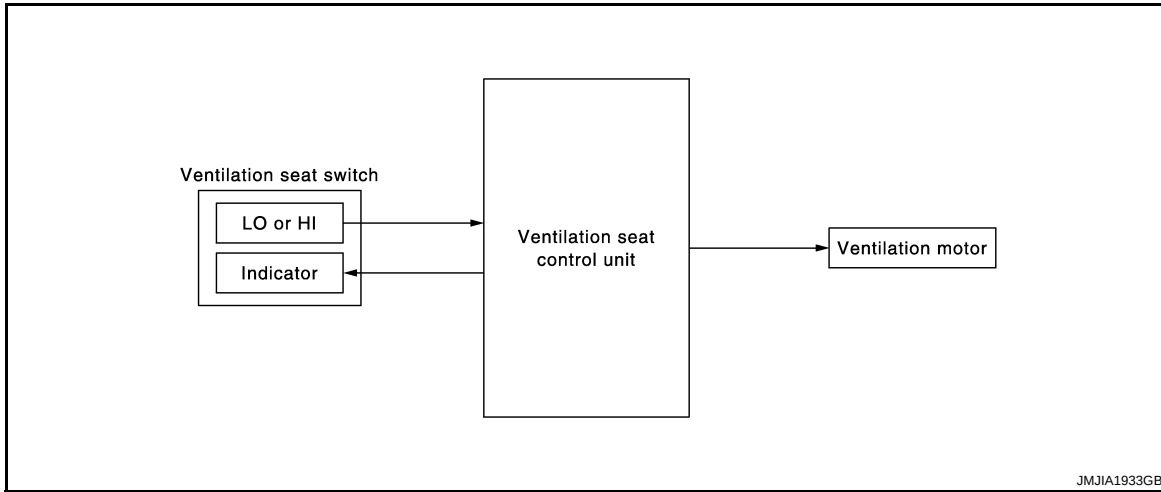
INFOID:000000003820816

Item	Function
Heated seat switch	• Switches the LO or HI temperature of the heated seat and turns OFF the heated seat operation • Illuminates the indicator that indicates the operating status of each mode
Heater unit	Warms the seat cushion and seatback
Ventilation seat control unit	Installed on each seat (driver seat, passenger seat, rear seat LH and RH) and controls the heated seat and ventilation seat functions

VENTILATION SEAT SYSTEM

System Diagram

INFOID:000000003820819



JMJIA1933GB

System Description

INFOID:000000003809309

- The ventilation seat system consists of the ventilation seat switch, the ventilation motor and the ventilation seat control unit.
 - The ventilation seat system blows air from the seat surface and reduces heat and humidity.
 - The ventilation seat system has a LO and HI mode that can be switched back and forth. The LO mode blows air moderately from the seat surface and the HI mode blows air strongly.
- The indicator on the heated seat switch indicates the operation status of each mode.

NOTE:

- The memory function is adopted for the front seat. When the ignition switch turns ON again after turning OFF, while the ventilation seat is being operated, the ventilation seat system restarts at the same air flow setting as the previous operation.
- For the rear seat, when the ignition switch turns ON again after turning OFF, while the ventilation seat is being operated, the heated ventilation seat system does not restart and stays in the OFF position.
- While the ventilation seat system is being operated, the heated seat system becomes invalid.

LO MODE OPERATION

- When the LO button of the ventilation seat switch is pressed while the ignition switch is ON, the ventilation seat control unit outputs the power supply to the ventilation motor and simultaneously illuminates the LO mode indicator in the ventilation seat switch.
- The ventilation motor is controlled in LO mode by the LO mode ventilation motor speed control signal from the ventilation control unit. The ventilation motor sends moderate air flow to the seat cushion and seat back.
- When the LO button is pressed again while the ventilation seat switch is in the LO mode position, the indicator and the ventilation seat switch turn OFF.

HI MODE OPERATION

- When the HI button of the ventilation seat switch is pressed while the ignition switch is ON, the ventilation seat control unit outputs the power supply to the ventilation motor and simultaneously illuminates the HI mode indicator in the ventilation seat switch.
- The ventilation motor is controlled in HI mode by the HI mode ventilation motor speed control signal from the ventilation control unit. The ventilation motor sends strong air flow to the seat cushion and seat back.
- When the HI button is pressed again while the ventilation seat switch is in the HI mode position, the indicator and the ventilation seat switch turn OFF.

FAIL-SAFE

The fail-safe function is adopted for the ventilation seat control unit. Refer to [SE-59, "FRONT SEAT : Fail-safe"](#).

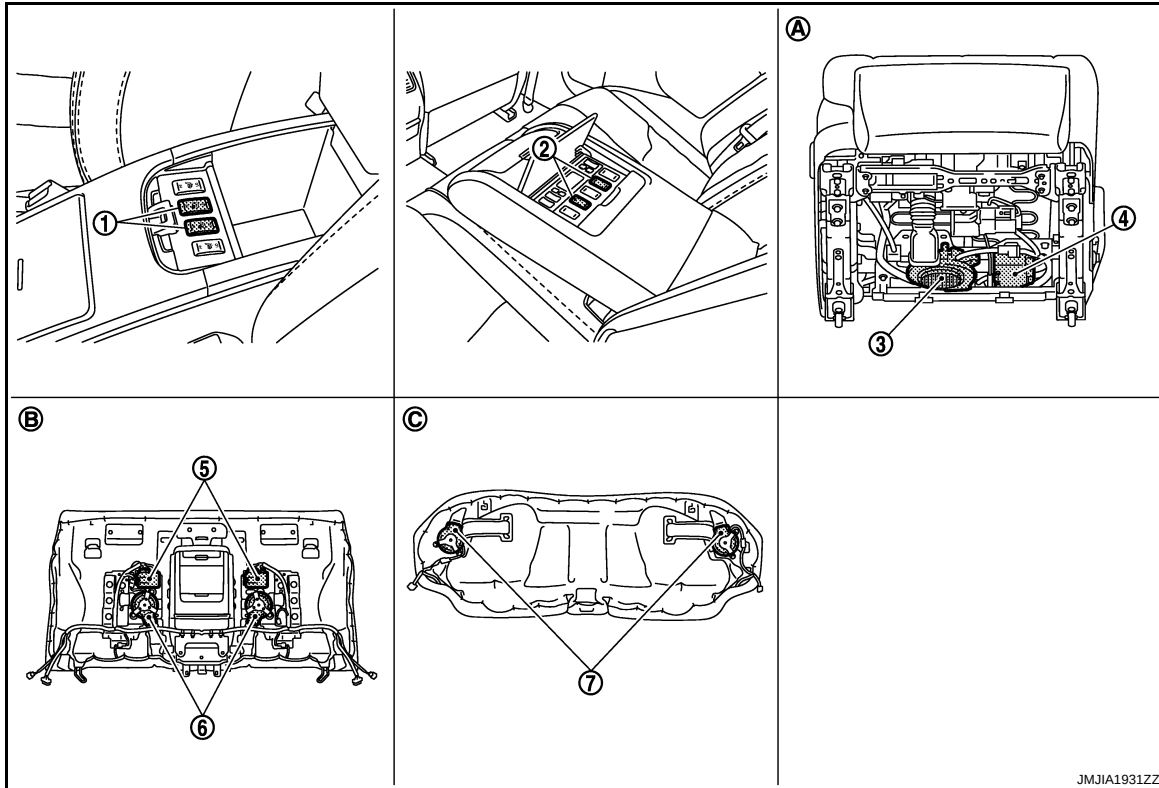
VENTILATION SEAT SYSTEM

< FUNCTION DIAGNOSIS >

[WITH VENTILATION SEAT]

Component Parts Location

INFOID:000000003809310



1. Front ventilation seat switch
 - Driver side M208
 - Passenger side M209
2. Rear ventilation seat switch
 - LH B495
 - RH B506
3. Front ventilation motor
 - Driver side B468
 - Passenger side B444
4. Front ventilation seat control unit
 - Driver side B465, B466, B467
 - Passenger side B441, B442, B443
5. Rear ventilation seat control unit
 - LH B489, B490, B491
 - RH B500, B501, B502
6. Rear ventilation motor (seatback)
 - LH B493
 - RH B504
7. Rear ventilation motor (seat cushion)
 - LH B492
 - RH B503

A. Backside of seat cushion (front seat) B. Backside of seatback (rear seat)

Component Description

INFOID:000000003809311

Item	Function
Ventilation seat switch	- Switches the LO or HI air flow of the ventilation seat and turns OFF the ventilation seat operation - Illuminates the indicator that indicates the operating status of each mode
Ventilation motor	- Sends air flow to the seat cushion and seatback - One motor is allocated for both the seat cushion and seatback in each front seat - Two motors are allocated for the seat cushion and two motors for the seatback, in the rear seat LH and RH
Ventilation seat control unit	Installed on each seat (driver seat, passenger seat, rear seat LH and RH) and controls the heated seat and ventilation seat functions

POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

[WITH VENTILATION SEAT]

COMPONENT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT

VENTILATION SEAT CONTROL UNIT

VENTILATION SEAT CONTROL UNIT : Diagnosis Procedure

INFOID:000000003809329

1.CHECK FUSE

Check that the following fuses are not fusing.

Terminal No.		Signal name	Fuse No.
Front seat	44	Battery power supply	35
Rear seat	44	Battery power supply	38
Front seat and rear seat	46	Ignition power supply	3

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

1. Turn ignition switch OFF.
2. Disconnect ventilation seat control unit connector.
3. Check voltage between ventilation seat control unit harness connector and ground.

(+) Ventilation seat control unit			(-)	Condition		Voltage (Approx.)
Connector		Terminal				
Front seat (driver side)	B466	46	Ground	Ignition switch	ON	Battery voltage
	B465	44			OFF	
Front seat (passenger side)	B442	46			ON	
	B441	44			OFF	
Rear seat (LH)	B490	46			ON	
	B489	44			OFF	
Rear seat (RH)	B501	46			ON	
	B500	44			OFF	

Is the measurement value normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK GROUND CIRCUIT

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

Ventilation seat control unit			Ground	Continuity
Connector		Terminal		Exists
Front seat (driver side)	B465	45		
Front seat (passenger side)	B441			
Rear seat (LH)	B489	45		
Rear seat (RH)	B500			

Does continuity exist?

YES >> INSPECTION END

NO >> Repair or replace harness.

HEATED SEAT SWITCH

[WITH VENTILATION SEAT]

< COMPONENT DIAGNOSIS >

HEATED SEAT SWITCH FRONT SEAT

FRONT SEAT : Description

INFOID:000000003809330

Switches the LO or HI temperature of the front heated seat and turns OFF the front heated seat operation.

FRONT SEAT : Component Function Check

INFOID:000000003809331

1.CHECK FUNCTION

Check that the related indicator lamp illuminates when front heated seat switch is set to LO or HI position.

Is the inspection result normal?

YES >> Front heated seat switch function is OK.

NO >> Refer to [SE-13, "FRONT SEAT : Diagnosis Procedure"](#).

FRONT SEAT : Diagnosis Procedure

INFOID:000000003809332

1.CHECK FRONT VENTILATION SEAT CONTROL UNIT INPUT SIGNAL

1. Turn ignition switch ON.
2. Check voltage between front ventilation seat control unit harness connector and ground.

(+) Front ventilation seat control unit			(−)	Condition			Voltage (V) (Approx.)
Connector		Terminal					
Driver side	B466	52	Ground	Front heated seat switch	LO mode	Pressed	0
						Released	Battery voltage
		51			HI mode	Pressed	0
						Released	Battery voltage
Passenger side	B442	52		Front heated seat switch	LO mode	Pressed	0
						Released	Battery voltage
		51			HI mode	Pressed	0
						Released	Battery voltage

Is the inspection result normal?

YES >> Front heated seat switch circuit is OK.

NO-1 >> LO or HI mode is NG: GO TO 2.

NO-2 >> LO and HI modes are NG: GO TO 3.

2.CHECK FRONT HEATED SEAT SWITCH CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect front heated seat switch connector and front ventilation seat control unit connector.
3. Check continuity between front heated seat switch harness connector and front ventilation seat control unit harness connector.

Front heated seat switch				Front ventilation seat control unit		Continuity
Connector		Terminal		Connector	Terminal	
Driver side	LO	M206	2	B466	52	Existed
	HI		1		51	
Passenger side	LO	M207	2	B442	52	
	HI		1		51	

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

HEATED SEAT SWITCH

< COMPONENT DIAGNOSIS >

[WITH VENTILATION SEAT]

Front heated seat switch				Ground	Continuity
Connector			Terminal		Not existed
Driver side	LO	M206	2		
	HI		1		
Passenger side	LO	M207	2		
	HI		1		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK FRONT HEATED SEAT SWITCH

Check front heated seat switch.

Refer to [SE-15, "FRONT SEAT : Component Inspection"](#).

Is the inspection result normal?

YES-1 >> LO or HI mode is NG: GO TO 5.

YES-2 >> LO and HI modes are NG: GO TO 4.

NO >> Replace front heated seat switch. Refer to [SE-104, "FRONT SEAT : Removal and Installation"](#).

4.CHECK FRONT HEATED SEAT SWITCH GROUND CIRCUIT

Check continuity front heated seat switch harness connector and ground.

Front heated seat switch			Ground	Continuity
Connector		Terminal		
Driver side	M206	3		Existed
Passenger side	M207			

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

5.CHECK FRONT VENTILATION SEAT CONTROL UNIT OUTPUT SIGNAL

1. Connect front ventilation seat control unit connector.
2. Turn ignition switch ON.
3. Check voltage between front ventilation seat control unit harness connector and ground.

(+)				(-)	Voltage (V) (Approx.)
Front ventilation seat control unit					
Connector			Terminal		
Driver side	LO	B466	52	Ground	Battery voltage
	HI		51		
Passenger side	LO	B442	52		
	HI		51		

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace front ventilation seat control unit. Refer to [SE-93, "Disassembly and Assembly"](#).

6.CHECK INTERMITTENT INCIDENT

Refer to [GI-35, "Intermittent Incident"](#).

>> INSPECTION END

HEATED SEAT SWITCH

< COMPONENT DIAGNOSIS >

[WITH VENTILATION SEAT]

FRONT SEAT : Component Inspection

INFOID:000000003809333

1.CHECK FRONT HEATED SEAT SWITCH

1. Turn ignition OFF.
2. Disconnect front heated seat switch connector.
3. Check front heated seat switch terminals.

Front heated seat switch		Terminal		Condition			Continuity
Driver side	M206	2	3	Front heated seat switch	LO mode	Pressed	Existed
						Released	Not existed
		1			HI mode	Pressed	Existed
						Released	Not existed
Passenger side	M207	2	3	Front heated seat switch	LO mode	Pressed	Existed
						Released	Not existed
		1			HI mode	Pressed	Existed
						Released	Not existed

Is the inspection result normal?

YES >> Front heated seat switch is OK.

NO >> Replace front heated seat switch. Refer to [SE-104, "FRONT SEAT : Removal and Installation"](#).

REAR SEAT

REAR SEAT : Description

INFOID:000000003825952

Switches the LO or HI temperature of the rear heated seat and turns OFF the rear heated seat operation.

REAR SEAT : Component Function Check

INFOID:000000003843318

1.CHECK FUNCTION

Check that the related indicator lamp illuminates when rear heated seat switch is set to LO or HI position.

Is the inspection result normal?

YES >> Rear heated seat switch function is OK.

NO >> Refer to [SE-15, "REAR SEAT : Diagnosis Procedure"](#).

REAR SEAT : Diagnosis Procedure

INFOID:000000003847096

1.CHECK REAR VENTILATION SEAT CONTROL UNIT INPUT SIGNAL

1. Turn ignition switch ON.
2. Check voltage between rear ventilation seat control unit harness connector and ground.

(+)			(-)	Condition			Voltage (V) (Approx.)
Rear ventilation seat control unit							
Connector		Terminal					
LH	B490	52	Ground	Rear heated seat switch	LO mode	Pressed	0
						Released	Battery voltage
		51			HI mode	Pressed	0
						Released	Battery voltage
RH	B501	52		Rear heated seat switch	LO mode	Pressed	0
						Released	Battery voltage
		51			HI mode	Pressed	0
						Released	Battery voltage

Is the inspection result normal?

HEATED SEAT SWITCH

[WITH VENTILATION SEAT]

< COMPONENT DIAGNOSIS >

- YES >> Rear heated seat switch circuit is OK.
 NO-1 >> LO or HI mode is NG: GO TO 2.
 NO-2 >> LO and HI modes are NG: GO TO 3.

2.CHECK REAR HEATED SEAT SWITCH CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect rear heated seat switch connector and rear ventilation seat control unit connector.
3. Check continuity between rear heated seat switch harness connector and rear ventilation seat control unit harness connector.

Rear heated seat switch				Rear ventilation seat control unit		Continuity
Connector		Terminal		Connector	Terminal	
LH	LO		2	B490	52	Existed
	HI		1		51	
RH	LO	B505	2	B501	52	
	HI		1		51	

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

Rear heated seat switch				Ground	Continuity
Connector			Terminal		Not existed
LH	LO	B494	2		
	HI		1		
RH	LO	B505	2		
	HI		1		

Is the inspection result normal?

- YES >> GO TO 3.
 NO >> Repair or replace harness.

3.CHECK REAR HEATED SEAT SWITCH

Check rear heated seat switch.

Refer to [SE-17, "REAR SEAT : Component Inspection"](#).

Is the inspection result normal?

- YES-1 >> LO or HI mode is NG: GO TO 5.
 YES-2 >> LO and HI modes are NG: GO TO 4.
 NO >> Replace rear heated seat switch. Refer to [SE-105, "REAR SEAT : Removal and Installation"](#).

4.CHECK REAR HEATED SEAT SWITCH GROUND CIRCUIT

Check continuity rear heated seat switch harness connector and ground.

Rear heated seat switch			Ground	Continuity
Connector		Terminal		Existed
LH	B494	3		
RH	B505			

Is the inspection result normal?

- YES >> GO TO 6.
 NO >> Repair or replace harness.

5.CHECK REAR VENTILATION SEAT CONTROL UNIT OUTPUT SIGNAL

1. Connect rear ventilation seat control unit connector.
2. Turn ignition switch ON.
3. Check voltage between rear ventilation seat control unit harness connector and ground.

HEATED SEAT SWITCH

< COMPONENT DIAGNOSIS >

[WITH VENTILATION SEAT]

(+)				(-)	Voltage (V) (Approx.)
Rear ventilation seat control unit					
Connector		Terminal			
LH	LO	B490	52	Ground	Battery voltage
	HI		51		
RH	LO	B501	52		
	HI		51		

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace rear ventilation seat control unit. Refer to [SE-100, "Disassembly and Assembly"](#).

6.CHECK INTERMITTENT INCIDENT

Refer to [GI-35, "Intermittent Incident"](#).

>> INSPECTION END

REAR SEAT : Component Inspection

INFOID:000000003847097

1.CHECK HEATED SEAT SWITCH

1. Turn ignition OFF.
2. Disconnect rear heated seat switch connector.
3. Check rear heated seat switch terminals.

Rear heated seat switch		Terminal		Condition			Continuity
LH	B494	2	3	Rear heated seat switch	LO mode	Pressed	Existed
						Released	Not existed
		1			HI mode	Pressed	Existed
						Released	Not existed
RH	B505	2	3	Rear heated seat switch	LO mode	Pressed	Existed
						Released	Not existed
		1			HI mode	Pressed	Existed
						Released	Not existed

Is the inspection result normal?

YES >> Rear heated seat switch is OK.

NO >> Replace rear heated seat switch. Refer to [SE-105, "REAR SEAT : Removal and Installation"](#).

VENTILATION SEAT SWITCH

< COMPONENT DIAGNOSIS >

[WITH VENTILATION SEAT]

VENTILATION SEAT SWITCH

FRONT SEAT

FRONT SEAT : Description

INFOID:000000003825956

Switches the LO or HI air flow of the front ventilation seat and turns OFF the front ventilation seat operation.

FRONT SEAT : Component Function Check

INFOID:000000003825957

1.CHECK FUNCTION

Check that the related indicator lamp illuminates when front ventilation seat switch is set to LO or HI position.

Is the inspection result normal?

YES >> Front ventilation seat switch function is OK.

NO >> Refer to [SE-18, "FRONT SEAT : Diagnosis Procedure"](#).

FRONT SEAT : Diagnosis Procedure

INFOID:000000003847164

1.CHECK FRONT VENTILATION SEAT CONTROL UNIT INPUT SIGNAL

1. Turn ignition switch ON.
2. Check voltage between front ventilation seat control unit harness connector and ground.

(+)			(−)	Condition			Voltage (V) (Approx.)
Front ventilation seat control unit							
Connector		Terminal					
Driver side	B466	48	Ground	Front ventilation seat switch	LO mode	Pressed	0
						Released	Battery voltage
		47			HI mode	Pressed	0
						Released	Battery voltage
Passenger side	B442	48		Front ventilation seat switch	LO mode	Pressed	0
						Released	Battery voltage
		47			HI mode	Pressed	0
						Released	Battery voltage

Is the inspection result normal?

YES >> Front ventilation seat switch circuit is OK.

NO-1 >> LO or HI mode is NG: GO TO 2.

NO-2 >> LO and HI modes are NG: GO TO 3.

2.CHECK FRONT VENTILATION SEAT SWITCH CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect front ventilation seat switch connector and front ventilation seat control unit connector.
3. Check continuity between front ventilation seat switch harness connector and front ventilation seat control unit harness connector.

Front ventilation seat switch				Front ventilation seat control unit		Continuity
Connector		Terminal		Connector	Terminal	
Driver side	LO		2	B446	48	Existed
	HI		1		47	
Passenger side	LO	M209	2	B442	48	
	HI		1		47	

4. Check continuity between front ventilation seat switch harness connector and ground.

VENTILATION SEAT SWITCH

< COMPONENT DIAGNOSIS >

[WITH VENTILATION SEAT]

Front ventilation seat switch				Ground	Continuity
Connector			Terminal		Not existed
Driver side	LO	M208	2		
	HI		1		
Passenger side	LO	M209	2		
	HI		1		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK FRONT VENTILATION SEAT SWITCH

Check front ventilation seat switch.

Refer to [SE-20, "FRONT SEAT : Component Inspection"](#).

Is the inspection result normal?

YES-1 >> LO or HI mode is NG: GO TO 5.

YES-2 >> LO and HI modes are NG: GO TO 4.

NO >> Replace front ventilation seat switch. Refer to [SE-106, "FRONT SEAT : Removal and Installation"](#).

4.CHECK FRONT VENTILATION SEAT SWITCH GROUND CIRCUIT

Check continuity front ventilation seat switch harness connector and ground.

Front ventilation seat switch			Ground	Continuity
Connector		Terminal		Existed
Driver side	M208	3		
Passenger side	M209			

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

5.CHECK FRONT VENTILATION SEAT CONTROL UNIT OUTPUT SIGNAL

1. Connect front ventilation seat control unit connector.
2. Turn ignition switch ON.
3. Check voltage between front ventilation seat control unit harness connector and ground.

Front ventilation seat control unit				Ground	Voltage (V) (Approx.)
Connector			Terminal		
Driver side	LO	B466	48		
	HI		47		
Passenger side	LO	B442	48		Battery voltage
	HI		47		

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace front ventilation seat control unit. Refer to [SE-93, "Disassembly and Assembly"](#).

6.CHECK INTERMITTENT INCIDENT

Refer to [GI-35, "Intermittent Incident"](#).

>> INSPECTION END

VENTILATION SEAT SWITCH

< COMPONENT DIAGNOSIS >

[WITH VENTILATION SEAT]

FRONT SEAT : Component Inspection

INFOID:000000003847165

1.CHECK FRONT VENTILATION SEAT SWITCH

1. Turn ignition OFF.
2. Disconnect front ventilation seat switch connector.
3. Check front ventilation seat switch terminals.

Front ventilation seat switch		Terminal		Condition			Continuity
Driver side	M208	2	3	Front ventilation seat switch	LO mode	Pressed	Existed
						Released	Not existed
		1			HI mode	Pressed	Existed
						Released	Not existed
Passenger side	M209	2	3	Front ventilation seat switch	LO mode	Pressed	Existed
						Released	Not existed
		1			HI mode	Pressed	Existed
						Released	Not existed

Is the inspection result normal?

YES >> Front ventilation seat switch is OK.

NO >> Replace front ventilation seat switch. Refer to [SE-106, "FRONT SEAT : Removal and Installation"](#).

REAR SEAT

REAR SEAT : Description

INFOID:000000003843435

Switches the LO or HI air flow of the rear ventilation seat and turns OFF the rear ventilation seat operation.

REAR SEAT : Component Function Check

INFOID:000000003843436

1.CHECK FUNCTION

Check that the related indicator lamp illuminates when rear ventilation seat switch is set to LO or HI position.

Is the inspection result normal?

YES >> Rear ventilation seat switch function is OK.

NO >> Refer to [SE-20, "REAR SEAT : Diagnosis Procedure"](#).

REAR SEAT : Diagnosis Procedure

INFOID:000000003847166

1.CHECK REAR VENTILATION SEAT CONTROL UNIT INPUT SIGNAL

1. Turn ignition switch ON.
2. Check voltage between rear ventilation seat control unit harness connector and ground.

(+) Rear ventilation seat control unit			(−)	Condition			Voltage (V) (Approx.)
Connector		Terminal					
LH	B490	48		Ground	Rear ventilation seat switch	LO mode	
			Released				Battery voltage
		47	HI mode			Pressed	0
						Released	Battery voltage
RH	B501	48	Rear ventilation seat switch		LO mode	Pressed	0
						Released	Battery voltage
		47			HI mode	Pressed	0
						Released	Battery voltage

Is the inspection result normal?

VENTILATION SEAT SWITCH

[WITH VENTILATION SEAT]

< COMPONENT DIAGNOSIS >

- YES >> Rear ventilation seat switch circuit is OK.
 NO-1 >> LO or HI mode is NG: GO TO 2.
 NO-2 >> LO and HI modes are NG: GO TO 3.

2.CHECK REAR VENTILATION SEAT SWITCH CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect rear ventilation seat switch connector and rear ventilation seat control unit connector.
3. Check continuity between rear ventilation seat switch harness connector and rear ventilation seat control unit harness connector.

Rear ventilation seat switch			Rear ventilation seat control unit		Continuity
Connector		Terminal	Connector	Terminal	
LH	LO	B495	B490	48	Existed
	HI			47	
RH	LO	B506	B501	48	
	HI			47	

4. Check continuity between rear ventilation seat switch harness connector and ground.

Rear ventilation seat switch				Ground	Continuity
Connector			Terminal		Not existed
LH	LO	B495	2		
	HI		1		
RH	LO	B506	2		
	HI		1		

Is the inspection result normal?

- YES >> GO TO 3.
 NO >> Repair or replace harness.

3.CHECK REAR VENTILATION SEAT SWITCH

Check rear ventilation seat switch.

Refer to [SE-22, "REAR SEAT : Component Inspection"](#).

Is the inspection result normal?

- YES-1 >> LO or HI mode is NG: GO TO 5.
 YES-2 >> LO and HI modes are NG: GO TO 4.
 NO >> Replace rear ventilation seat switch. Refer to [SE-107, "REAR SEAT : Removal and Installation"](#).

4.CHECK REAR VENTILATION SEAT SWITCH GROUND CIRCUIT

Check continuity rear ventilation seat switch harness connector and ground.

Rear ventilation seat switch				Continuity
Connector		Terminal		
LH	B495	3	Ground	Existed
RH	B506			

Is the inspection result normal?

- YES >> GO TO 6.
 NO >> Repair or replace harness.

5.CHECK REAR VENTILATION SEAT CONTROL UNIT OUTPUT SIGNAL

1. Connect rear ventilation seat control unit connector.
2. Turn ignition switch ON.
3. Check voltage between rear ventilation seat control unit harness connector and ground.

VENTILATION SEAT SWITCH

< COMPONENT DIAGNOSIS >

[WITH VENTILATION SEAT]

(+)				(-)	Voltage (V) (Approx.)
Rear ventilation seat control unit					
Connector			Terminal		
LH	LO	B490	48	Ground	Battery voltage
	HI		47		
RH	LO	B501	48		
	HI		47		

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace rear ventilation seat control unit. Refer to [SE-100, "Disassembly and Assembly"](#).

6.CHECK INTERMITTENT INCIDENT

Refer to [GI-35, "Intermittent Incident"](#).

>> INSPECTION END

REAR SEAT : Component Inspection

INFOID:000000003847167

1.CHECK REAR VENTILATION SEAT SWITCH

1. Turn ignition OFF.
2. Disconnect rear ventilation seat switch connector.
3. Check rear ventilation seat switch terminals.

Rear ventilation seat switch		Terminal		Condition			Continuity
LH	B495	2	3	Rear ventilation seat switch	LO mode	Pressed	Existed
						Released	Not existed
		1			HI mode	Pressed	Existed
						Released	Not existed
RH	B506	2	3	Rear ventilation seat switch	LO mode	Pressed	Existed
						Released	Not existed
		1			HI mode	Pressed	Existed
						Released	Not existed

Is the inspection result normal?

YES >> Rear ventilation seat switch is OK.

NO >> Replace rear ventilation seat switch. Refer to [SE-107, "REAR SEAT : Removal and Installation"](#).

VENTILATION MOTOR

< COMPONENT DIAGNOSIS >

[WITH VENTILATION SEAT]

VENTILATION MOTOR FRONT SEAT

FRONT SEAT : Description

INFOID:000000003841898

Sends air flow to the seat cushion and seatback.

FRONT SEAT : Component Function Check

INFOID:000000003841899

1.CHECK FUNCTION

When turning the front ventilation switch to the LO and HI mode position, check that the front ventilation motor is operated in each specific mode.

Is the inspection result normal?

YES >> Front ventilation motor function is OK.

NO >> Refer to [SE-23, "FRONT SEAT : Diagnosis Procedure"](#).

FRONT SEAT : Diagnosis Procedure

INFOID:000000003841900

1.CHECK FRONT VENTILATION MOTOR POWER SUPPLY

1. Turn ignition switch ON.
2. Check voltage between front ventilation motor harness connector and ground.

(+) Front ventilation motor		(-)	Condition		Voltage (V) (Approx.)	
Connector						Terminal
Driver side	B468	57	Ground	Ventilation seat	LO mode	Battery voltage
					HI mode	
					Other than above	
Passenger side	B444			Ventilation seat	LO mode	Battery voltage
					HI mode	
					Other than above	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK FRONT VENTILATION MOTOR POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect front ventilation motor connector and front ventilation seat control unit connector.
3. Check continuity between front ventilation motor harness connector and front ventilation seat control unit harness connector.

Front ventilation motor		Terminal	Front ventilation seat control unit		Continuity
Connector			Connector	Terminal	
Driver side	B468	57	B467	57	Existed
Passenger side	B444		B443		

4. Check continuity between front ventilation motor harness connector and ground.

Front ventilation motor		Terminal	Ground	Continuity
Connector				
Driver side	B468	57		Not existed
Passenger side	B444			

Is the inspection result normal?

VENTILATION MOTOR

[WITH VENTILATION SEAT]

< COMPONENT DIAGNOSIS >

- YES >> Replace front ventilation seat control unit. Refer to [SE-93, "Disassembly and Assembly"](#).
 NO >> Repair or replace harness.

3. CHECK FRONT VENTILATION MOTOR SPEED CONTROL SIGNAL

1. Check voltage between front ventilation motor harness connector and ground.

(+)			(-)	Condition		Voltage (V) (Approx.)
Front ventilation motor						
Connector		Terminal				
Driver side	B468	56	Ground	Ventilation seat	LO mode	8
					HI mode	10.5
					Other than above	0
Passenger side	B444			Ventilation seat	LO mode	8
					HI mode	10.5
					Other than above	0

Is the inspection result normal?

- YES >> GO TO 5.
 NO >> GO TO 4.

4. CHECK FRONT VENTILATION MOTOR SPEED CONTROL SIGNAL CIRCUIT

- Turn ignition switch OFF.
- Disconnect front ventilation motor connector and front ventilation seat control unit connector.
- Check continuity between front ventilation motor harness connector and front ventilation seat control unit harness connector.

Front ventilation motor		Front ventilation seat control unit		Continuity
Connector	Terminal	Connector	Terminal	
Driver side	B468	B467	56	Existed
Passenger side	B444	B443		

4. Check continuity between front ventilation motor harness connector and ground.

Front ventilation motor		Ground	Continuity
Connector	Terminal		
Driver side	B468	56	Not existed
Passenger side	B444		

Is the inspection result normal?

- YES >> Replace front ventilation seat control unit. Refer to [SE-93, "Disassembly and Assembly"](#).
 NO >> Repair or replace harness.

5. CHECK FRONT VENTILATION MOTOR GROUND CIRCUIT

- Turn ignition switch OFF.
- Disconnect front ventilation motor connector and front ventilation seat control unit connector.
- Check continuity between front ventilation motor harness connector and front ventilation seat control unit harness connector.

Front ventilation motor		Front ventilation seat control unit		Continuity
Connector	Terminal	Connector	Terminal	
Driver side	B468	B467	55	Existed
Passenger side	B444	B443		

4. Check continuity between front ventilation motor harness connector and ground.

VENTILATION MOTOR

< COMPONENT DIAGNOSIS >

[WITH VENTILATION SEAT]

Front ventilation motor			Ground	Continuity
Connector		Terminal		
Driver side	B468	55		
Passenger side	B444			Not existed

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

6.CHECK FRONT VENTILATION MOTOR GROUND

1. Connect front ventilation motor connector and front ventilation seat control unit connector.
2. Check continuity between front ventilation motor harness connector and ground.

Front ventilation motor			Ground	Continuity
Connector		Terminal		
Driver side	B468	55		
Passenger side	B444			Existed

Is the inspection result normal?

YES >> Replace front ventilation motor. Refer to [SE-93, "Disassembly and Assembly"](#).

NO >> Replace front ventilation seat control unit. Refer to [SE-93, "Disassembly and Assembly"](#).

REAR SEAT

REAR SEAT : Description

INFOID:000000003843502

Sends air flow to the rear seat cushion and rear seatback.

REAR SEAT : Component Function Check

INFOID:000000003843503

1.CHECK FUNCTION

When turning the rear ventilation switch to the LO and HI mode position, check that the rear ventilation motor is operated in each specific mode.

Is the inspection result normal?

YES >> Rear ventilation motor function is OK.

NO >> Refer to [SE-25, "REAR SEAT : Diagnosis Procedure"](#).

REAR SEAT : Diagnosis Procedure

INFOID:000000003843501

1.CHECK REAR VENTILATION MOTOR POWER SUPPLY

1. Turn ignition switch ON.
2. Check voltage between rear ventilation motor harness connector and ground.

VENTILATION MOTOR

< COMPONENT DIAGNOSIS >

[WITH VENTILATION SEAT]

(+) Rear ventilation motor			(-)	Condition		Voltage (V) (Approx.)		
Connector		Terminal						
Seat cushion (LH)	B492	57	Ground	Ventilation seat	LO mode	Battery voltage		
					HI mode			
					Other than above		0	
Seatback (LH)	B493				57	Ventilation seat	LO mode	Battery voltage
							HI mode	
							Other than above	
Seat cushion (RH)	B503	57		Ventilation seat			LO mode	Battery voltage
							HI mode	
							Other than above	
Seatback (RH)	B504				57	Ventilation seat	LO mode	Battery voltage
							HI mode	
							Other than above	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK REAR VENTILATION MOTOR POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect rear ventilation motor connector and rear ventilation seat control unit connector.
3. Check continuity between rear ventilation motor harness connector and rear ventilation seat control unit harness connector.

Rear ventilation motor		Rear ventilation seat control unit		Continuity
Connector	Terminal	Connector	Terminal	
Seat cushion (LH)	B492	B491	62	Existed
Seatback (LH)	B493		57	
Seat cushion (RH)	B503	B502	62	
Seatback (RH)	B504		57	

4. Check continuity between rear ventilation motor harness connector and ground.

Rear ventilation motor			Ground	Continuity
Connector		Terminal		Not existed
Seat cushion (LH)	B492	57		
Seatback (LH)	B493			
Seat cushion (RH)	B503	57		
Seatback (RH)	B504			

Is the inspection result normal?

YES >> Replace rear ventilation seat control unit. Refer to [SE-100. "Disassembly and Assembly"](#).

NO >> Repair or replace harness.

3. CHECK REAR VENTILATION MOTOR SPEED CONTROL SIGNAL

1. Check voltage between rear ventilation motor harness connector and ground.

VENTILATION MOTOR

< COMPONENT DIAGNOSIS >

[WITH VENTILATION SEAT]

(+)			(-)	Condition		Voltage (V) (Approx.)
Rear ventilation motor						
Connector		Terminal				
Seat cushion (LH)	B492	56	Ground	Ventilation seat	LO mode	7
					HI mode	10
					Other than above	0
Seatback (LH)	B493				LO mode	7
					HI mode	8.8
					Other than above	0
Seat cushion (RH)	B503	56		Ventilation seat	LO mode	7
					HI mode	10
					Other than above	0
Seatback (RH)	B504				LO mode	7
					HI mode	8.8
					Other than above	0

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

4.CHECK REAR VENTILATION MOTOR SPEED CONTROL SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect rear ventilation motor connector and rear ventilation seat control unit connector.
3. Check continuity between rear ventilation motor harness connector and rear ventilation seat control unit harness connector.

Rear ventilation motor			Rear ventilation seat control unit		Continuity
Connector		Terminal	Connector	Terminal	
Seat cushion (LH)	B492	56	B491	61	Existed
Seatback (LH)	B493			56	
Seat cushion (RH)	B503	56	B502	61	
Seatback (RH)	B504			56	

4. Check continuity between rear ventilation motor harness connector and ground.

Rear ventilation motor			Ground	Continuity
Connector		Terminal		Not existed
Seat cushion (LH)	B492	56		
Seatback (LH)	B493			
Seat cushion (RH)	B503	56		
Seatback (RH)	B504			

Is the inspection result normal?

YES >> Replace rear ventilation seat control unit. Refer to [SE-100. "Disassembly and Assembly"](#).

NO >> Repair or replace harness.

5.CHECK REAR VENTILATION MOTOR GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect rear ventilation motor connector and rear ventilation seat control unit connector.
3. Check continuity between rear ventilation motor harness connector and rear ventilation seat control unit harness connector.

VENTILATION MOTOR

< COMPONENT DIAGNOSIS >

[WITH VENTILATION SEAT]

Rear ventilation motor		Rear ventilation seat control unit			Continuity
Connector		Terminal	Connector	Terminal	
Seat cushion (LH)	B492	55	B491	55	Existed
Seatback (LH)	B493				
Seat cushion (RH)	B503	55	B502	55	
Seatback (RH)	B504				

4. Check continuity between rear ventilation motor harness connector and ground.

Rear ventilation motor		Ground	Continuity
Connector	Terminal		
Seat cushion (LH)	B492		Not existed
Seatback (LH)	B493		
Seat cushion (RH)	B503		
Seatback (RH)	B504		

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

6.CHECK REAR VENTILATION MOTOR GROUND

1. Connect rear ventilation motor connector and rear ventilation seat control unit connector.
2. Check continuity rear ventilation motor harness connector and ground.

Rear ventilation motor		Ground	Continuity
Connector	Terminal		
Seat cushion (LH)	B492		Existed
Seatback (LH)	B493		
Seat cushion (RH)	B503		
Seatback (RH)	B504		

Is the inspection result normal?

YES >> Replace rear ventilation motor. Refer to [SE-100. "Disassembly and Assembly"](#).

NO >> Replace rear ventilation seat control unit. Refer to [SE-100. "Disassembly and Assembly"](#).

HEATED SEAT HI MODE GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

[WITH VENTILATION SEAT]

HEATED SEAT HI MODE GROUND CIRCUIT FRONT SEAT

FRONT SEAT : Description

INFOID:000000003846101

Warms the front seat cushion and front seatback.

FRONT SEAT : Component Function Check

INFOID:000000003846102

1.CHECK FUNCTION

When turning the front heated seat switch to the HI mode position, check that the front heated seat is operated in HI mode.

Is the inspection result normal?

- YES >> Front heated seat HI mode ground circuit function is OK.
NO >> Refer to [SE-29, "FRONT SEAT : Diagnosis Procedure"](#).

FRONT SEAT : Diagnosis Procedure

INFOID:000000003846103

1.CHECK FRONT HEATED SEAT (HI MODE) GROUND CIRCUIT 1

- Turn ignition switch ON.
- Check voltage between front ventilation seat control unit harness connector and ground.

(+)		(-)	Condition		Voltage (V) (Approx.)	
Front ventilation seat control unit						
Connector	Terminal					
Driver side	B465	59	Ground	Heated seat	LO mode	6.5
Passenger side	B441			Heated seat		

Is the inspection result normal?

- YES >> Replace front ventilation seat control unit. Refer to [SE-93, "Disassembly and Assembly"](#).
NO >> GO TO 2.

2.CHECK FRONT HEATED SEAT (HI MODE) GROUND CIRCUIT 2

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

Front seat cushion heater		Front ventilation seat control unit		Continuity
Connector	Terminal	Connector	Terminal	
Driver side	B463	59	B465	Existed
Passenger side	B432		B441	

- Check continuity between front seat cushion heater harness connector and ground.

Front seat cushion heater		Ground	Continuity
Connector	Terminal		
Driver side	B463		Not existed
Passenger side	B432	59	

Is the inspection result normal?

- YES >> Replace front seat cushion heater. Refer to [SE-89, "Exploded View"](#).
NO >> Repair or replace harness.

REAR SEAT

HEATED SEAT HI MODE GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

[WITH VENTILATION SEAT]

REAR SEAT : Description

INFOID:000000003846112

Warms the rear seat cushion and rear seatback.

REAR SEAT : Component Function Check

INFOID:000000003846113

1.CHECK FUNCTION

When turning the rear heated seat switch to the HI mode position, check that the rear heated seat is operated in HI mode.

Is the inspection result normal?

YES >> Rear heated seat HI mode ground circuit function is OK.

NO >> Refer to [SE-30, "REAR SEAT : Diagnosis Procedure"](#).

REAR SEAT : Diagnosis Procedure

INFOID:000000003846114

1.CHECK REAR HEATED SEAT (HI MODE) GROUND CIRCUIT 1

1. Turn ignition switch ON.
2. Check voltage between rear ventilation seat control unit harness connector and ground.

(+)		(-)	Condition		Voltage (V) (Approx.)	
Rear ventilation seat control unit						
Connector	Terminal					
LH	B489	59	Ground	Heated seat	LO mode	6.5
RH	B500			Heated seat		

Is the inspection result normal?

YES >> Replace rear ventilation seat control unit. Refer to [SE-100, "Disassembly and Assembly"](#).

NO >> GO TO 2.

2.CHECK REAR HEATED SEAT (HI MODE) GROUND CIRCUIT 2

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

Rear seat cushion heater		Rear ventilation seat control unit		Continuity
Connector	Terminal	Connector	Terminal	
LH	B487	B489	59	Existed
RH	B498	B500		

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

Rear seat cushion heater		Ground	Continuity
Connector	Terminal		
LH	B487	59	Not existed
RH	B498		

Is the inspection result normal?

YES >> Replace rear seat cushion heater. Refer to [SE-98, "Exploded View"](#).

NO >> Repair or replace harness.

SEAT CUSHION HEATER

< COMPONENT DIAGNOSIS >

[WITH VENTILATION SEAT]

SEAT CUSHION HEATER FRONT SEAT

FRONT SEAT : Description

INFOID:000000003841906

Warms the seat cushion.

FRONT SEAT : Component Function Check

INFOID:000000003841907

1.CHECK FUNCTION

When turning the front heated seat switch to the LO and HI mode position, check that the front seat cushion heater is operated in each specific mode.

Is the inspection result normal?

YES >> Front seat cushion heater function is OK.

NO >> Refer to [SE-31, "FRONT SEAT : Diagnosis Procedure"](#).

FRONT SEAT : Diagnosis Procedure

INFOID:000000003841908

1.CHECK FRONT SEAT CUSHION HEATER INPUT SIGNAL

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

(+) Front seat cushion heater			(-)	Condition		Voltage (V) (Approx.)
Connector		Terminal				
Driver side	B463	60	Ground	Heated seat	HI mode	Battery voltage
					Other than above	0
Passenger side	B432	60		Heated seat	HI mode	Battery voltage
					Other than above	0

Is the inspection result normal?

YES >> Replace front seat cushion heater. Refer to [SE-89, "Exploded View"](#).

NO >> GO TO 2.

2.CHECK FRONT SEAT CUSHION HEATER CIRCUIT

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

Front seat cushion heater			Front ventilation seat control unit		Continuity
Connector	Terminal		Connector	Terminal	
Driver side	B463	60	B465	60	Existed
Passenger side	B432		B441		

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

Front seat cushion heater			Ground	Continuity
Connector		Terminal		
Driver side	B463	60		Not existed
Passenger side	B432			

Is the inspection result normal?

YES >> Replace front ventilation seat control unit. Refer to [SE-93, "Disassembly and Assembly"](#).

NO >> Repair or replace harness.

REAR SEAT

SEAT CUSHION HEATER

[WITH VENTILATION SEAT]

< COMPONENT DIAGNOSIS >

REAR SEAT : Description

INFOID:000000003846420

Warms the rear seat cushion.

REAR SEAT : Component Function Check

INFOID:000000003846421

1.CHECK FUNCTION

When turning the rear heated seat switch to the LO and HI mode position, check that the rear seat cushion heater is operated in each specific mode.

Is the inspection result normal?

YES >> Rear seat cushion heater function is OK.

NO >> Refer to [SE-32, "REAR SEAT : Diagnosis Procedure"](#).

REAR SEAT : Diagnosis Procedure

INFOID:000000003846422

1.CHECK REAR SEAT CUSHION HEATER INPUT SIGNAL

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

(+)			(-)	Condition		Voltage (V) (Approx.)
Rear seat cushion heater						
Connector		Terminal				
LH	B487	60	Ground	Heated seat	HI mode	Battery voltage
					Other than above	0
RH	B498	60		Heated seat	HI mode	Battery voltage
					Other than above	0

Is the inspection result normal?

YES >> Replace rear seat cushion heater. Refer to [SE-98, "Exploded View"](#).

NO >> GO TO 2.

2.CHECK REAR SEAT CUSHION HEATER CIRCUIT

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

Rear seat cushion heater			Rear ventilation seat control unit		Continuity
Connector		Terminal	Connector	Terminal	
LH	B487	60	B489	60	Existed
RH	B498		B500		

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

Rear seat cushion heater			Ground	Continuity
Connector		Terminal		
LH	B487	60		Not existed
RH	B498			

Is the inspection result normal?

YES >> Replace rear ventilation seat control unit. Refer to [SE-100, "Disassembly and Assembly"](#).

NO >> Repair or replace harness.

SEATBACK HEATER

< COMPONENT DIAGNOSIS >

[WITH VENTILATION SEAT]

SEATBACK HEATER FRONT SEAT

FRONT SEAT : Description

INFOID:000000003846484

Warms the front seatback.

FRONT SEAT : Component Function Check

INFOID:000000003846485

1.CHECK FUNCTION

When turning the front heated seat switch to the LO and HI mode position, check that the front seatback heater is operated in each specific mode.

Is the inspection result normal?

YES >> Front seatback heater function is OK.

NO >> Refer to [SE-33, "FRONT SEAT : Diagnosis Procedure"](#).

FRONT SEAT : Diagnosis Procedure

INFOID:000000003846486

1.CHECK FRONT SEATBACK HEATER SIGNAL 1

1. Turn ignition switch ON.
2. Check voltage between front seatback heater harness connector and ground.

(+) Front seatback heater			(-)	Condition		Voltage (V) (Approx.)
Connector		Terminal				
Driver side	B464	58	Ground	Heated seat	HI and LO mode	Battery voltage
					Other than above	0
Passenger side	B433	58		Heated seat	HI and LO mode	Battery voltage
					Other than above	0

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK FRONT SEATBACK HEATER CIRCUIT 1

1. Turn ignition switch OFF.
2. Disconnect front ventilation seat control unit connector and front seatback heater connector.
3. Check continuity between front ventilation seat control unit harness connector and front seatback heater harness connector.

Front ventilation seat control unit			Front seatback heater		Continuity
Connector	Terminal		Connector	Terminal	
Driver side	B465	58	B464	58	Existed
Passenger side	B441		B433		

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

Front ventilation seat control unit			Ground	Continuity
Connector		Terminal		
Driver side	B465	58		
Passenger side	B441			Not existed

Is the inspection result normal?

YES >> Replace front ventilation seat control unit. Refer to [SE-93, "Disassembly and Assembly"](#).

NO >> Repair or replace harness.

SEATBACK HEATER

< COMPONENT DIAGNOSIS >

[WITH VENTILATION SEAT]

3.CHECK FRONT SEATBACK HEATER SIGNAL 2

Check voltage between front seatback heater harness connector and ground.

(+)			(-)	Condition		Voltage (V) (Approx.)
Front seatback heater						
Connector		Terminal				
Driver side	B464	61	Ground	Heated seat	HI mode	1.3
					LO mode	7.3
					Other than above	0
Passenger side	B433	61		Heated seat	HI mode	1.3
					LO mode	7.3
					Other than above	0

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace front seatback heater. Refer to [SE-89. "Exploded View"](#).

4.CHECK FRONT SEATBACK HEATER CIRCUIT 2

1. Turn ignition switch OFF.
2. Disconnect front seat cushion heater connector and front seatback heater connector.
3. Check continuity between front seat cushion heater harness connector and front seatback heater harness connector.

Front seat cushion heater			Front seatback heater		Continuity
Connector		Terminal	Connector	Terminal	
Driver side	B463	61	B464	61	Existed
Passenger side	B432		B433		

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

Front seat cushion heater			Ground	Continuity
Connector		Terminal		Not existed
Driver side	B463	61		
Passenger side	B432			

Is the inspection result normal?

YES >> Replace front seat cushion heater. Refer to [SE-89. "Exploded View"](#).

NO >> Repair or replace harness.

REAR SEAT

REAR SEAT : Description

INFOID:000000003851303

Warms the rear seatback.

REAR SEAT : Component Function Check

INFOID:000000003851304

1.CHECK FUNCTION

When turning the rear heated seat switch to the LO and HI mode position, check that the rear seatback heater is operated in each specific mode.

Is the inspection result normal?

YES >> Rear seatback heater function is OK.

NO >> Refer to [SE-35. "REAR SEAT : Diagnosis Procedure"](#).

SEATBACK HEATER

< COMPONENT DIAGNOSIS >

[WITH VENTILATION SEAT]

REAR SEAT : Diagnosis Procedure

INFOID:000000003846563

1.CHECK REAR SEATBACK HEATER SIGNAL 1

1. Turn ignition switch ON.
2. Check voltage between rear seatback heater harness connector and ground.

(+) Rear seatback heater			(-)	Condition		Voltage (V) (Approx.)
Connector		Terminal				
LH	B488	58	Ground	Heated seat	HI and LO mode	Battery voltage
					Other than above	0
RH	B499	58		Heated seat	HI and LO mode	Battery voltage
					Other than above	0

Is the inspection result normal?

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

2.CHECK REAR SEATBACK HEATER CIRCUIT 1

1. Turn ignition switch OFF.
2. Disconnect rear ventilation seat control unit connector and rear seatback heater connector.
3. Check continuity between rear ventilation seat control unit harness connector and rear seatback heater harness connector.

Rear ventilation seat control unit			Rear seatback heater		Continuity
Connector	Terminal		Connector	Terminal	
LH	B489	58	B488	58	Existed
RH	B500		B499		

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

Rear ventilation seat control unit			Ground	Continuity
Connector		Terminal		
LH	B489	58		Not existed
RH	B500			

Is the inspection result normal?

- YES >> Replace rear ventilation seat control unit. Refer to [SE-100. "Disassembly and Assembly"](#).
NO >> Repair or replace harness.

3.CHECK REAR SEATBACK HEATER SIGNAL 2

1. Check voltage between rear seatback heater harness connector and ground.

(+)			(–)	Condition		Voltage (V) (Approx.)
Rear seatback heater						
Connector		Terminal				
LH	B488	61	Ground	Heated seat	HI mode	1.3
					LO mode	7.3
					Other than above	0
RH	B499	61		Heated seat	HI mode	1.3
					LO mode	7.3
					Other than above	0

Is the inspection result normal?

SEATBACK HEATER

< COMPONENT DIAGNOSIS >

[WITH VENTILATION SEAT]

YES >> GO TO 4.

NO >> Replace rear seatback heater. Refer to [SE-98, "Exploded View"](#).

4. CHECK REAR SEATBACK HEATER CIRCUIT 2

1. Turn ignition switch OFF.
2. Disconnect rear seat cushion heater connector and rear seatback heater connector.
3. Check continuity between rear seat cushion heater harness connector and rear seatback heater harness connector.

Rear seat cushion heater		Rear seatback heater		Continuity
Connector	Terminal	Connector	Terminal	
LH	B487	B488	61	Existed
RH	B498	B499		

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

Rear seat cushion heater		Ground	Continuity
Connector	Terminal		
LH	B487	61	Not existed
RH	B498		

Is the inspection result normal?

YES >> Replace rear seat cushion heater. Refer to [SE-98, "Exploded View"](#).

NO >> Repair or replace harness.

HEATED SEAT SWITCH INDICATOR

< COMPONENT DIAGNOSIS >

[WITH VENTILATION SEAT]

HEATED SEAT SWITCH INDICATOR FRONT SEAT

FRONT SEAT : Description

INFOID:000000003841922

Illuminates the indicator that indicates the operating status of front heated seat LO or HI mode.

FRONT SEAT : Component Function Check

INFOID:000000003841923

1.CHECK FUNCTION

Check that the related indicator lamp illuminates when front heated seat switch is set to LO or HI mode.

Is the inspection result normal?

YES >> Front heated seat switch indicator function is OK.

NO >> Refer to [SE-37, "FRONT SEAT : Diagnosis Procedure"](#).

FRONT SEAT : Diagnosis Procedure

INFOID:000000003841924

1.CHECK FRONT HEATED SEAT SWITCH INDICATOR

Check front heated seat switch indicator.

Which side of the indicator does not illuminate?

Only LO mode or HI mode>> GO TO 3.

Both LO mode and HI mode>> GO TO 2.

2.CHECK FRONT HEATED SEAT SWITCH INDICATOR POWER SUPPLY

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

(+) Front heated seat switch		(-)	Voltage (V) (Approx.)
Connector	Terminal		
Driver side	M206	Ground	Battery voltage
Passenger side	M207		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK FRONT HEATED SEAT SWITCH

Check front heated seat switch.

Refer to [SE-38, "FRONT SEAT : Component Inspection"](#).

Is the inspection result normal?

YES-1 >> LO or HI mode is NG: GO TO 4.

YES-2 >> LO and HI modes are NG: INSPECTION END

NO >> Replace front heated seat switch. Refer to [SE-104, "FRONT SEAT : Removal and Installation"](#).

4.CHECK FRONT HEATED SEAT SWITCH INDICATOR CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect front ventilation seat control unit connector.
3. Check continuity between front heated seat switch harness connector and front ventilation seat control unit harness connector.

HEATED SEAT SWITCH INDICATOR

< COMPONENT DIAGNOSIS >

[WITH VENTILATION SEAT]

Front heated seat switch				Front ventilation seat control unit		Continuity
Connector			Terminal	Connector	Terminal	
Driver side	LO	M206	5	B467	54	Existed
	HI		4		53	
Passenger side	LO	M207	5	B443	54	
	HI		4		53	

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

Front heated seat switch					Continuity
Connector			Terminal		
Driver side	LO	M206	5	Ground	Not existed
	HI		4		
Passenger side	LO	M207	5		
	HI		4		

Is the inspection result normal?

- YES >> Replace front ventilation seat control unit. Refer to [SE-93, "Disassembly and Assembly"](#).
 NO >> Repair or replace harness.

FRONT SEAT : Component Inspection

INFOID:0000000003841925

1.CHECK FRONT HEATED SEAT SWITCH

1. Turn ignition OFF.
2. Disconnect front heated seat switch connector.
3. Check front heated seat switch terminals.

Terminal				Continuity
Front heated seat switch		(+)*	(-)*	
Driver side	LO indicator	6	5	Existed
	HI indicator		4	
Passenger side	LO indicator	6	5	
	HI indicator		4	

*For a digital tester.

NOTE:

When check is performed using an analog tester, the polarity (+) and (–) becomes inverse.

Is the inspection result normal?

- YES >> Front heated seat switch is OK.
 NO >> Replace front heated seat switch. Refer to [SE-104, "FRONT SEAT : Removal and Installation"](#).

REAR SEAT

REAR SEAT : Description

INFOID:0000000003851305

Turns ON the indicator that indicates the operating status of rear heated seat LO or HI mode.

REAR SEAT : Component Function Check

INFOID:0000000003851306

1.CHECK FUNCTION

Check that the related indicator lamp illuminates when rear heated seat switch is set to LO or HI mode.

Is the inspection result normal?

- YES >> Rear heated seat switch indicator function is OK.
 NO >> Refer to [SE-39, "REAR SEAT : Diagnosis Procedure"](#).

HEATED SEAT SWITCH INDICATOR

< COMPONENT DIAGNOSIS >

[WITH VENTILATION SEAT]

REAR SEAT : Diagnosis Procedure

INFOID:000000003844064

1.CHECK REAR HEATED SEAT SWITCH INDIACTOR

Check rear heated seat switch indicator.

Which side of the indicator does not turn ON?

Only LO mode or HI mode.>>GO TO 3.

Both LO mode and HI mode.>>GO TO 2.

2.CHECK REAR HEATED SEAT SWITCH INDICATOR POWER SUPPLY

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

(+)		Terminal	(-)	Voltage (V) (Approx.)
Rear heated seat switch				
Connector				
LH	B494	6	Ground	Battery voltage
RH	B505			

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK REAR HEATED SEAT SWITCH

Check rear heated seat switch.

Refer to [SE-40. "REAR SEAT : Component Inspection"](#).

Is the inspection result normal?

YES-1 >> LO or HI mode is NG: GO TO 4.

YES-2 >> LO and HI modes are NG: INSPECTION END

NO >> Replace rear heated seat switch. Refer to [SE-105. "REAR SEAT : Removal and Installation"](#).

4.CHECK REAR HEATED SEAT SWITCH INDICATOR CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect rear ventilation seat control unit connector.
3. Check continuity between rear heated seat switch harness connector and rear ventilation seat control unit harness connector.

Rear heated seat switch				Rear ventilation seat control unit		Continuity
Connector		Terminal		Connector	Terminal	
LH	LO		5	B491	54	Existed
	HI		4		53	
RH	LO	B505	5	B502	54	
	HI		4		53	

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

Rear heated seat switch				Ground	Continuity
Connector			Terminal		Not existed
LH	LO	B494	5		
	HI		4		
RH	LO	B505	5		
	HI		4		

Is the inspection result normal?

HEATED SEAT SWITCH INDICATOR

< COMPONENT DIAGNOSIS >

[WITH VENTILATION SEAT]

- YES >> Replace rear ventilation seat control unit. Refer to [SE-100, "Disassembly and Assembly"](#).
NO >> Repair or replace harness.

REAR SEAT : Component Inspection

INFOID:000000003844065

1. CHECK REAR HEATED SEAT SWITCH

1. Turn ignition OFF.
2. Disconnect rear heated seat switch connector.
3. Check rear heated seat switch terminals.

Terminal			Continuity
Rear heated seat switch			
		(+)*	(-)*
LH	LO indicator	6	5
	HI indicator		4
RH	LO indicator	6	5
	HI indicator		4

*For a digital tester.

NOTE:

When check is performed using an analog tester, the polarity (+) and (–) becomes inverse.

Is the inspection result normal?

- YES >> Rear heated seat switch is OK.
NO >> Replace rear heated seat switch. Refer to [SE-105, "REAR SEAT : Removal and Installation"](#).

VENTILATION SEAT SWITCH INDICATOR

< COMPONENT DIAGNOSIS >

[WITH VENTILATION SEAT]

VENTILATION SEAT SWITCH INDICATOR FRONT SEAT

FRONT SEAT : Description

INFOID:000000003820978

Illuminates the indicator that indicates the operating status of front ventilation seat LO or HI mode.

FRONT SEAT : Component Function Check

INFOID:000000003820979

1.CHECK FUNCTION

Check that the related indicator lamp illuminates when front ventilation seat switch is set to LO or HI mode.

Is the inspection result normal?

- YES >> Front ventilation seat switch indicator function is OK.
NO >> Refer to [SE-41. "FRONT SEAT : Diagnosis Procedure"](#).

FRONT SEAT : Diagnosis Procedure

INFOID:000000003844066

1.CHECK FRONT VENTILATION SEAT SWITCH INDICATOR

Check front ventilation seat switch indicator.

Which side of indicator does not illuminate?

- Only LO mode or HI mode>>GO TO 3.
Both LO mode and HI mode>> GO TO 2.

2.CHECK FRONT VENTILATION SEAT SWITCH INDICATOR POWER SUPPLY

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

(+) Front ventilation seat switch		(-)	Voltage (V) (Approx.)
Connector	Terminal		
Driver side	M208	Ground	Battery voltage
Passenger side	M209		

Is the inspection result normal?

- YES >> GO TO 3.
NO >> Repair or replace harness.

3.CHECK FRONT VENTILATION SEAT SWITCH

Check front ventilation seat switch.

Refer to [SE-42. "FRONT SEAT : Component Inspection"](#).

Is the inspection result normal?

- YES >> GO TO 4.
NO >> Replace front ventilation seat switch. Refer to [SE-106. "FRONT SEAT : Removal and Installation"](#).

4.CHECK FRONT VENTILATION SEAT SWITCH INDICATOR CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect front ventilation seat control unit connector.
3. Check continuity between front ventilation seat switch harness connector and front ventilation seat control unit harness connector.

VENTILATION SEAT SWITCH INDICATOR

< COMPONENT DIAGNOSIS >

[WITH VENTILATION SEAT]

Front ventilation seat switch				Front ventilation seat control unit		Continuity
Connector		Terminal		Connector	Terminal	
Driver side	LO		5	B467	50	Existed
	HI		4		49	
Passenger side	LO	M209	5	B443	50	
	HI		4		49	

4. Check continuity between front ventilation seat switch harness connector and ground.

Front ventilation seat switch				Ground	Continuity
Connector			Terminal		Not existed
Driver side	LO	M208	5		
	HI		4		
Passenger side	LO	M209	5		
	HI		4		

Is the inspection result normal?

- YES >> Replace front ventilation seat control unit. Refer to [SE-93, "Disassembly and Assembly"](#).
 NO >> Repair or replace harness.

FRONT SEAT : Component Inspection

INFOID:000000003844067

1.CHECK FRONT VENTILATION SEAT SWITCH

1. Turn ignition OFF.
2. Disconnect front ventilation seat switch connector.
3. Check front ventilation seat switch terminals.

Terminal				Continuity
Front ventilation seat switch		(+)*	(-)*	
Driver side	LO indicator	6	5	Existed
	HI indicator		4	
Passenger side	LO indicator	6	5	
	HI indicator		4	

*For a digital tester.

NOTE:

When check is performed using an analog tester, the polarity (+) and (–) becomes inverse.

Is the inspection result normal?

- YES >> Front ventilation seat switch is OK.
 NO >> Replace front ventilation seat switch. Refer to [SE-106, "FRONT SEAT : Removal and Installation"](#).

REAR SEAT

REAR SEAT : Description

INFOID:000000003851307

Turns ON the indicator that indicates the operating status of rear ventilation seat LO or HI mode.

REAR SEAT : Component Function Check

INFOID:000000003851308

1.CHECK FUNCTION

Check that the related indicator lamp illuminates when rear ventilation seat switch is set to LO or HI mode.

Is the inspection result normal?

- YES >> Rear ventilation seat switch indicator function is OK.
 NO >> Refer to [SE-43, "REAR SEAT : Diagnosis Procedure"](#).

VENTILATION SEAT SWITCH INDICATOR

< COMPONENT DIAGNOSIS >

[WITH VENTILATION SEAT]

REAR SEAT : Diagnosis Procedure

INFOID:000000003844068

1.CHECK REAR VENTILATION SEAT SWITCH INDICATOR

Check rear ventilation seat switch indicator.

Which side of the indicator does not turn ON?

Only LO mode or HI mode>> GO TO 3.

Both LO mode and HI mode>> GO TO 2.

2.CHECK REAR VENTILATION SEAT SWITCH INDICATOR POWER SUPPLY

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

(+)		Terminal	(-)	Voltage (V) (Approx.)
Rear ventilation seat switch				
Connector				
LH	B495	6	Ground	Battery voltage
RH	B506			

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK REAR VENTILATION SEAT SWITCH

Check rear ventilation seat switch.

Refer to [SE-44. "REAR SEAT : Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace rear ventilation seat switch. Refer to [SE-107. "REAR SEAT : Removal and Installation"](#).

4.CHECK REAR VENTILATION SEAT SWITCH INDICATOR CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect rear ventilation seat control unit connector.
3. Check continuity between rear ventilation seat switch harness connector and rear ventilation seat control unit harness connector.

Rear ventilation seat switch				Rear ventilation seat control unit		Continuity
Connector		Terminal		Connector	Terminal	
LH	LO		5	B491	50	Existed
	HI		4		49	
RH	LO	B506	5	B502	50	
	HI		4		49	

4. Check continuity between rear ventilation seat switch harness connector and ground.

Rear ventilation seat switch				Ground	Continuity
Connector			Terminal		Not existed
LH	LO	B495	5		
	HI		4		
RH	LO	B506	5		
	HI		4		

Is the inspection result normal?

YES >> Replace rear ventilation seat control unit. Refer to [SE-100. "Disassembly and Assembly"](#).

VENTILATION SEAT SWITCH INDICATOR

< COMPONENT DIAGNOSIS >

[WITH VENTILATION SEAT]

NO >> Repair or replace harness.

REAR SEAT : Component Inspection

INFOID:000000003844069

1. CHECK REAR VENTILATION SEAT SWITCH

1. Turn ignition OFF.
2. Disconnect rear ventilation seat switch connector.
3. Check rear ventilation seat switch terminals.

Terminal			Continuity
Rear ventilation seat switch			
		(+)*	(-)*
LH	LO indicator	6	5
	HI indicator		4
RH	LO indicator	6	5
	HI indicator		4

*For a digital tester.

NOTE:

When check is performed using an analog tester, the polarity (+) and (-) becomes inverse.

Is the inspection result normal?

YES >> Rear ventilation seat switch is OK.

NO >> Replace rear ventilation seat switch. Refer to [SE-107, "REAR SEAT : Removal and Installation"](#).

POWER SEAT

< COMPONENT DIAGNOSIS >

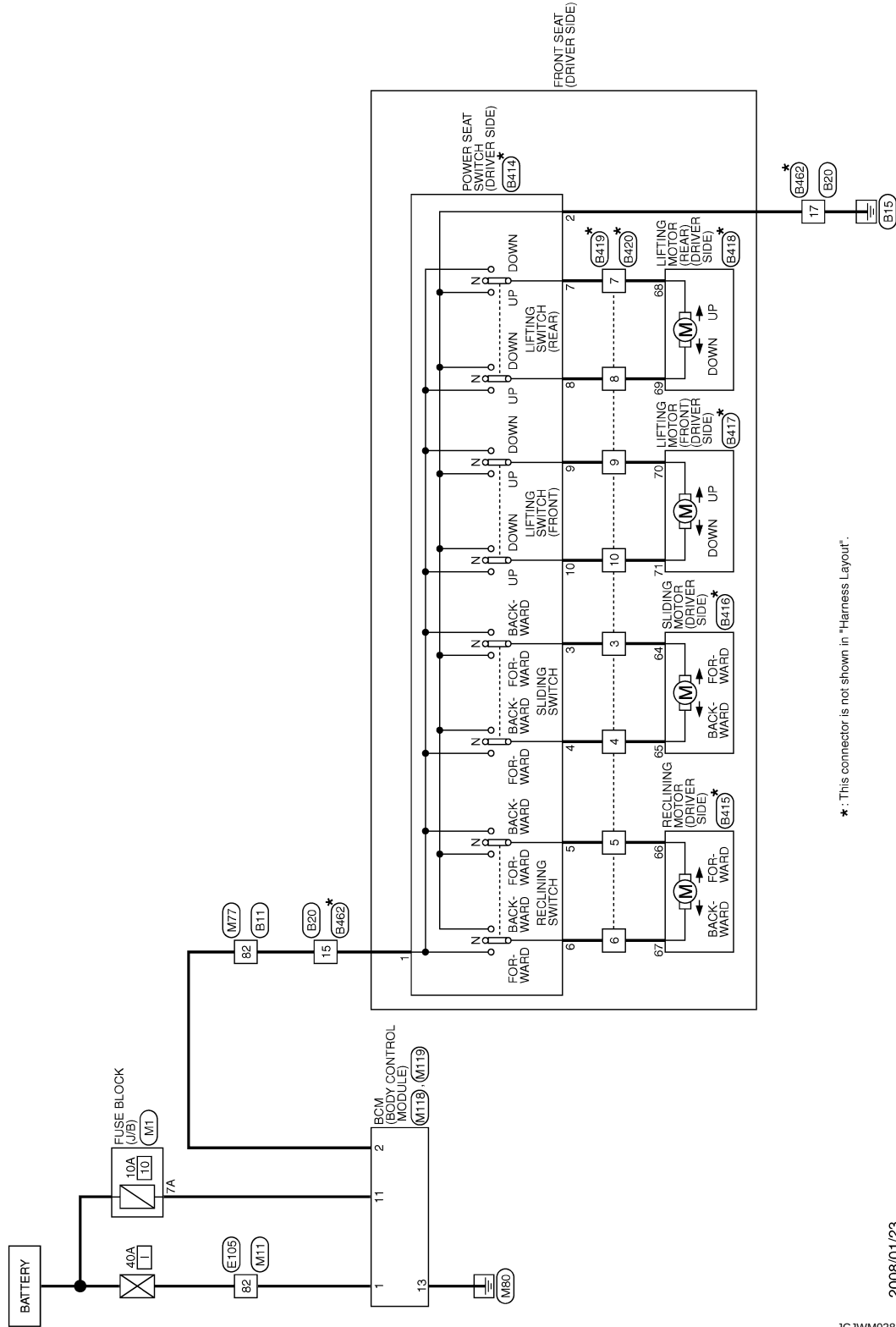
[WITH VENTILATION SEAT]

POWER SEAT

Wiring Diagram - POWER SEAT FOR DRIVER SIDE -

INFOID:000000003809257

POWER SEAT FOR DRIVER SIDE



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

2008/01/23

JCJWM0281GE

POWER SEAT

< COMPONENT DIAGNOSIS >

[WITH VENTILATION SEAT]

POWER SEAT FOR DRIVER SIDE

Connector No.	B11
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS19



Terminal No.	Color of Wire	Signal Name [Specification]
82	BR	-

Connector No.	B20
Connector Name	WIRE TO WIRE
Connector Type	TK10FW-HS8



Terminal No.	Color of Wire	Signal Name [Specification]
15	BR	-
17	B/W	-

Connector No.	B414
Connector Name	POWER SEAT SWITCH (DRIVER SIDE) (WITHOUT AUTOMATIC DRIVE POSITIONER)
Connector Type	NS10FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	B	-
3	G	-
4	G/R	-
5	V	-
6	R/L	-
7	L	-
8	L/W	-
9	L/R	-
10	L/B	-

Connector No.	B415
Connector Name	RECLINING MOTOR (DRIVER SIDE) (WITHOUT AUTOMATIC DRIVE POSITIONER)
Connector Type	F 6098-0239



Terminal No.	Color of Wire	Signal Name [Specification]
66	V	-
67	R/L	-

Connector No.	B416
Connector Name	SLIDING MOTOR (DRIVER SIDE) (WITHOUT AUTOMATIC DRIVE POSITIONER)
Connector Type	F 6098-0344



Connector No.	B417
Connector Name	LIFTING MOTOR (FRONT) (DRIVER SIDE) (WITHOUT AUTOMATIC DRIVE POSITIONER)
Connector Type	F 6098-0239



Connector No.	B418
Connector Name	LIFTING MOTOR (REAR) (DRIVER SIDE) (WITHOUT AUTOMATIC DRIVE POSITIONER)
Connector Type	F 6098-0239



Connector No.	B419
Connector Name	WIRE TO WIRE
Connector Type	NS10MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
64	G	-
65	G/R	-

Terminal No.	Color of Wire	Signal Name [Specification]
70	L/R	-
71	L/B	-

Terminal No.	Color of Wire	Signal Name [Specification]
68	L	-
69	L/W	-

Terminal No.	Color of Wire	Signal Name [Specification]
3	G	-
4	G/R	-
5	V	-
6	R/L	-
7	L	-
8	L/W	-
9	L/R	-
10	L/B	-

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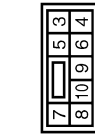
POWER SEAT

< COMPONENT DIAGNOSIS >

[WITH VENTILATION SEAT]

POWER SEAT FOR DRIVER SIDE

Connector No.	B420
Connector Name	WIRE TO WIRE
Connector Type	NS08FW-CS



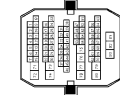
Terminal No.	Color of Wire	Signal Name [Specification]
3	G	-
4	G/R	-
5	V	-
6	R/L	-
7	L	-
8	L/W	-
9	L/R	-
10	L/B	-

Connector No.	B462
Connector Name	WIRE TO WIRE
Connector Type	TK10MP-HS3



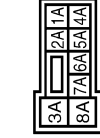
Terminal No.	Color of Wire	Signal Name [Specification]
15	R	-
17	B	-

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH70MW-CS10-M3



Terminal No.	Color of Wire	Signal Name [Specification]
82	LG	-

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS08FW-M2



Terminal No.	Color of Wire	Signal Name [Specification]
7A	Y/R	-

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH70FW-CS10-M3



Terminal No.	Color of Wire	Signal Name [Specification]
82	W/B	-

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS19



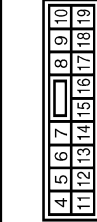
Terminal No.	Color of Wire	Signal Name [Specification]
82	R/Y	-[Without automatic drive positioner]

Connector No.	M118
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	MD08FE-LC



Terminal No.	Color of Wire	Signal Name [Specification]
1	W/B	BAT (F/L)
2	R/Y	POWER WINDOW POWER SUPPLY (BAT)

Connector No.	M119
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS16FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
11	Y/R	BAT (FUSE)
13	B	GND

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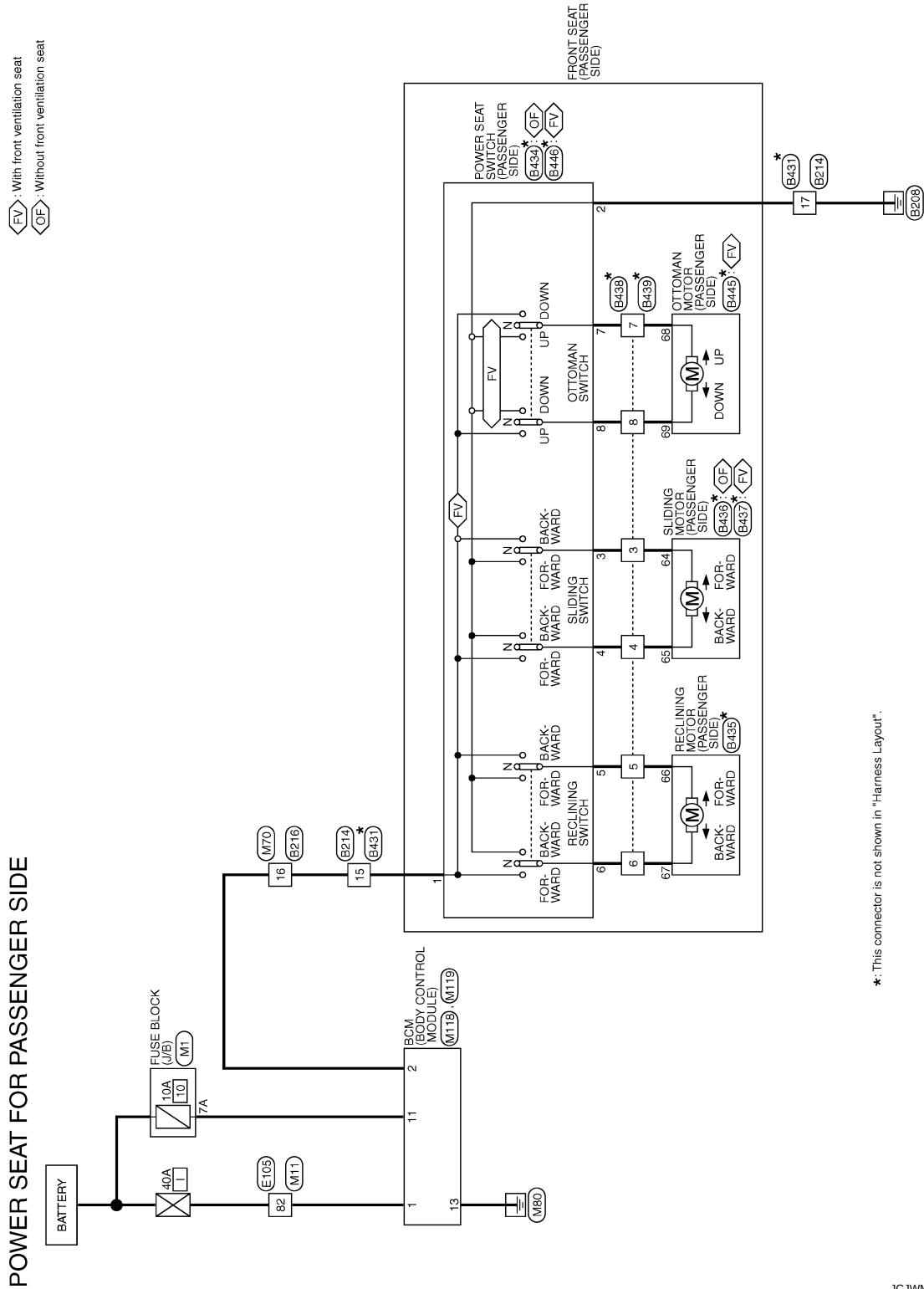
POWER SEAT

< COMPONENT DIAGNOSIS >

[WITH VENTILATION SEAT]

Wiring Diagram - POWER SEAT FOR PASSENGER SIDE -

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POWER SEAT

< COMPONENT DIAGNOSIS >

[WITH VENTILATION SEAT]

POWER SEAT FOR PASSENGER SIDE

Connector No.	B214
Connector Name	WIRE TO WIRE
Connector Type	TK0FW-NS3



10	9	8	7	6	5	4	3	2	1
18	17	16	15	14	13	12	11		

Terminal No.	Color of Wire	Signal Name [Specification]
15	O	-
17	B/Y	-

Connector No.	B216
Connector Name	WIRE TO WIRE
Connector Type	NS16MR-CS



1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16					

Terminal No.	Color of Wire	Signal Name [Specification]
16	O	-

Connector No.	B431
Connector Name	WIRE TO WIRE
Connector Type	TK10MW-NS3



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18		

Terminal No.	Color of Wire	Signal Name [Specification]
15	R	-
17	B	-

Connector No.	B434
Connector Name	POWER SEAT SWITCH (PASSENGER SIDE) (WITHOUT FRONT VENTILATION SEAT)
Connector Type	NS30FW-CS



4	6
3	2
1	5

Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	B	-
3	G	-
4	G/R	-
5	V	-
6	R/L	-

Connector No.	B435
Connector Name	RECLINING MOTOR (PASSENGER SIDE)
Connector Type	F 6098-0239



66	67
----	----

Connector No.	B438
Connector Name	SLIDING MOTOR (PASSENGER SIDE) (WITHOUT FRONT VENTILATION SEAT)
Connector Type	F 6098-0344



64	65
----	----

Connector No.	B437
Connector Name	SLIDING MOTOR (PASSENGER SIDE) (WITH FRONT VENTILATION SEAT)
Connector Type	F 6098-0239



64	65
----	----

Connector No.	B438
Connector Name	WIRE TO WIRE
Connector Type	NS30MW-CS



3	5	6
4	6	7
8		

Terminal No.	Color of Wire	Signal Name [Specification]
66	V	-
67	R/L	-

Terminal No.	Color of Wire	Signal Name [Specification]
64	G	-
65	G/R	-

Terminal No.	Color of Wire	Signal Name [Specification]
64	G	-
65	G/R	-

Terminal No.	Color of Wire	Signal Name [Specification]
3	G	-
4	G/R	-
5	V	-
6	R/L	-
7	L	-
8	L/W	-

JCJWM0285GE

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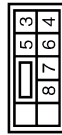
POWER SEAT

< COMPONENT DIAGNOSIS >

[WITH VENTILATION SEAT]

POWER SEAT FOR PASSENGER SIDE

Connector No.	B439
Connector Name	WIRE TO WIRE
Connector Type	NS06FW-CS



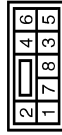
Terminal No.	Color of Wire	Signal Name [Specification]
3	G	-
4	G/R	-
5	V	-
6	R/L	-
7	L	-
8	L/W	-

Connector No.	B445
Connector Name	OTTOMAN MOTOR (PASSENGER SIDE)
Connector Type	M02FW-GY



Terminal No.	Color of Wire	Signal Name [Specification]
68	L	-
69	L/W	-

Connector No.	B446
Connector Name	POWER SEAT SWITCH (PASSENGER SIDE) (WITH FRONT VENTILATION SEAT)
Connector Type	NS06FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	B	-
3	G	-
4	G/R	-
5	V	-
6	R/L	-
7	L	-
8	L/W	-

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH70MM-CS10-M3



Terminal No.	Color of Wire	Signal Name [Specification]
82	LG	-

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS06FW-M2



Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH70FW-CS10-M3



Connector No.	M70
Connector Name	WIRE TO WIRE
Connector Type	NS16FB-CS



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



Terminal No.	7A
Color of Wire	Y/R
Signal Name [Specification]	-

Terminal No.	82
Color of Wire	W/B
Signal Name [Specification]	-

Terminal No.	18
Color of Wire	R/Y
Signal Name [Specification]	-

Terminal No.	1
Color of Wire	W/B
Signal Name [Specification]	BAT (F/L)
Terminal No.	2
Color of Wire	R/Y
Signal Name [Specification]	POWER WINDOW POWER SUPPLY (BAT)

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POWER SEAT FOR PASSENGER SIDE

Connector No.	IM119
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	MS16FW-CS



4	5	6	7		8	9	10	
11	12	13	14	15	16	17	18	19

Terminal No.	Color of Wire	Signal Name [Specification]
11	Y/R	BAT (FUSE)
13	B	GND

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VENTILATION SEAT CONTROL UNIT

< ECU DIAGNOSIS >

[WITH VENTILATION SEAT]

ECU DIAGNOSIS

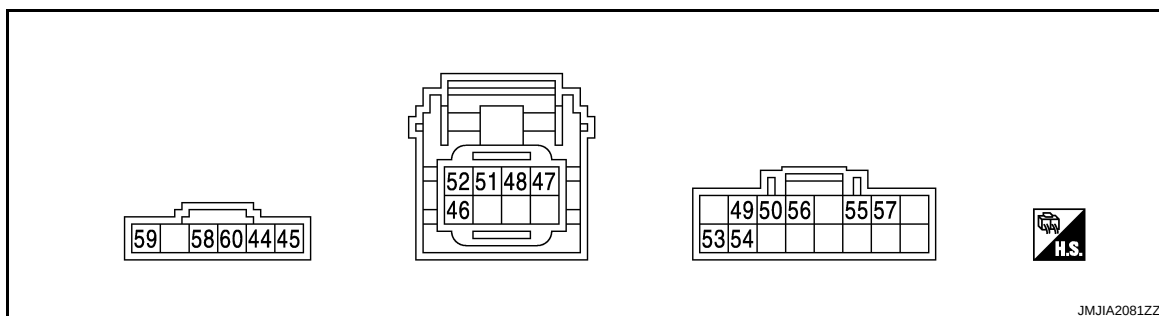
VENTILATION SEAT CONTROL UNIT

FRONT SEAT

FRONT SEAT : Reference Value

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TERMINAL LAYOUT



PHYSICAL VALUES

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
(+)	(-)	Signal name	Input/ Output			
44 (GR/R)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage
45 (B/P)	Ground	Ground	—	Ignition switch ON		0 V
46 (B/W)	Ground	IGN power supply	Input	Ignition switch	OFF or ACC	0 V
					ON	Battery voltage
47 (Y/G)	Ground	Ventilation seat switch HI signal	Input	Ventilation seat switch HI	Pressed	0 V
					Other than above	Battery voltage
48 (P/B)	Ground	Ventilation seat switch LO signal	Input	Ventilation seat switch LO	Pressed	0 V
					Other than above	Battery voltage
49 (BR)	Ground	Ventilation seat HI indicator signal	Output	Ventilation seat HI indicator	Illuminate	3 V
					Other than above	Battery voltage
50 (BR/W)	Ground	Ventilation seat LO indicator signal	Output	Ventilation seat LO indicator	Illuminate	3 V
					Other than above	Battery voltage
51 (W/V)	Ground	Heated seat switch HI signal	Input	Heated seat switch HI	Pressed	0 V
					Other than above	Battery voltage
52 (R/V)	Ground	Heated seat switch LO signal	Input	Heated seat switch LO	Pressed	0 V
					Other than above	Battery voltage
53 (Y/L)	Ground	Heated seat HI indicator signal	Output	Heated seat HI indicator	Illuminate	3 V
					Other than above	Battery voltage

VENTILATION SEAT CONTROL UNIT

< ECU DIAGNOSIS >

[WITH VENTILATION SEAT]

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
(+)	(−)	Signal name	Input/ Output			
54 (O/B)	Ground	Heated seat LO indictor signal	Output	Heated seat LO indicator	Illuminate	3 V
					Other than above	Battery voltage
55 (V/R)	Ground	Ventilation motor ground	—	Ignition switch ON		0 V
56 (GR/L)	Ground	Ventilation motor speed control signal	Output	Ventilation seat	LO mode	8 V
					HI mode	10.5 V
57 (Y)	Ground	Ventilation motor power supply	Output	Ventilation seat	LO mode	Battery voltage
					HI mode	Battery voltage
					Other than above	0 V
58 (B/R)	Ground	Heated seat power supply	Output	Heated seat	LO mode	Battery voltage
					HI mode	Battery voltage
					Other than above	0 V
59 (W/R)	Ground	Ground (Heated seat HI mode)	—	Heated seat	LO mode	6.5 V
					HI mode	0 V
					Other than above	0 V
60 (R/B)	Ground	Heated seat HI mode power supply	Output	Heated seat	LO mode	0 V
		Heated seat LO mode ground	—		HI mode	Battery voltage
					Other than above	0 V

FRONT SEAT : Wiring Diagram - FRONT HEATED SEAT AND VENTILATION SEAT

VENTILATION SEAT CONTROL UNIT

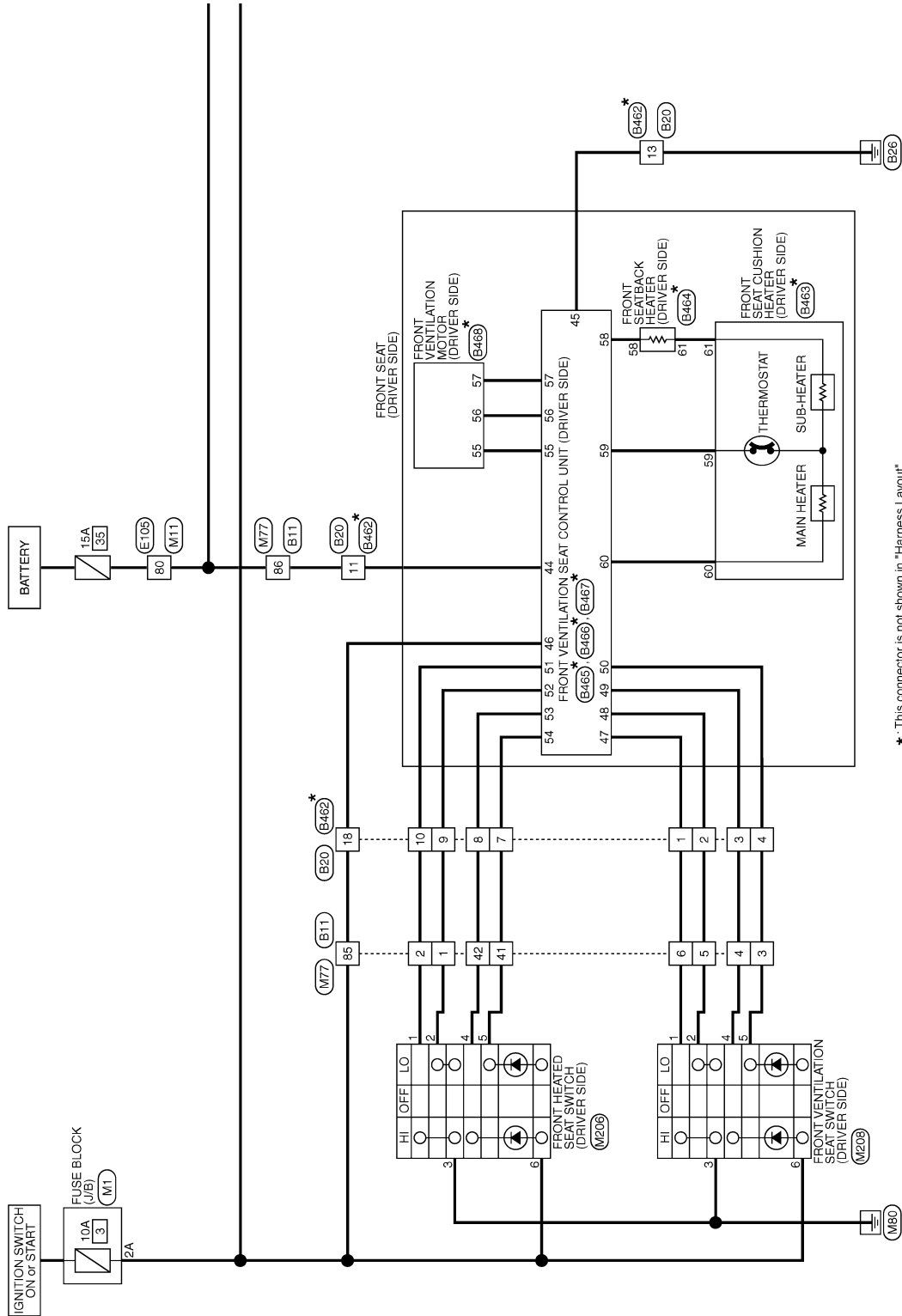
[WITH VENTILATION SEAT]

< ECU DIAGNOSIS >

SYSTEM -

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FRONT HEATED SEAT (WITH VENTILATION SEAT)



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

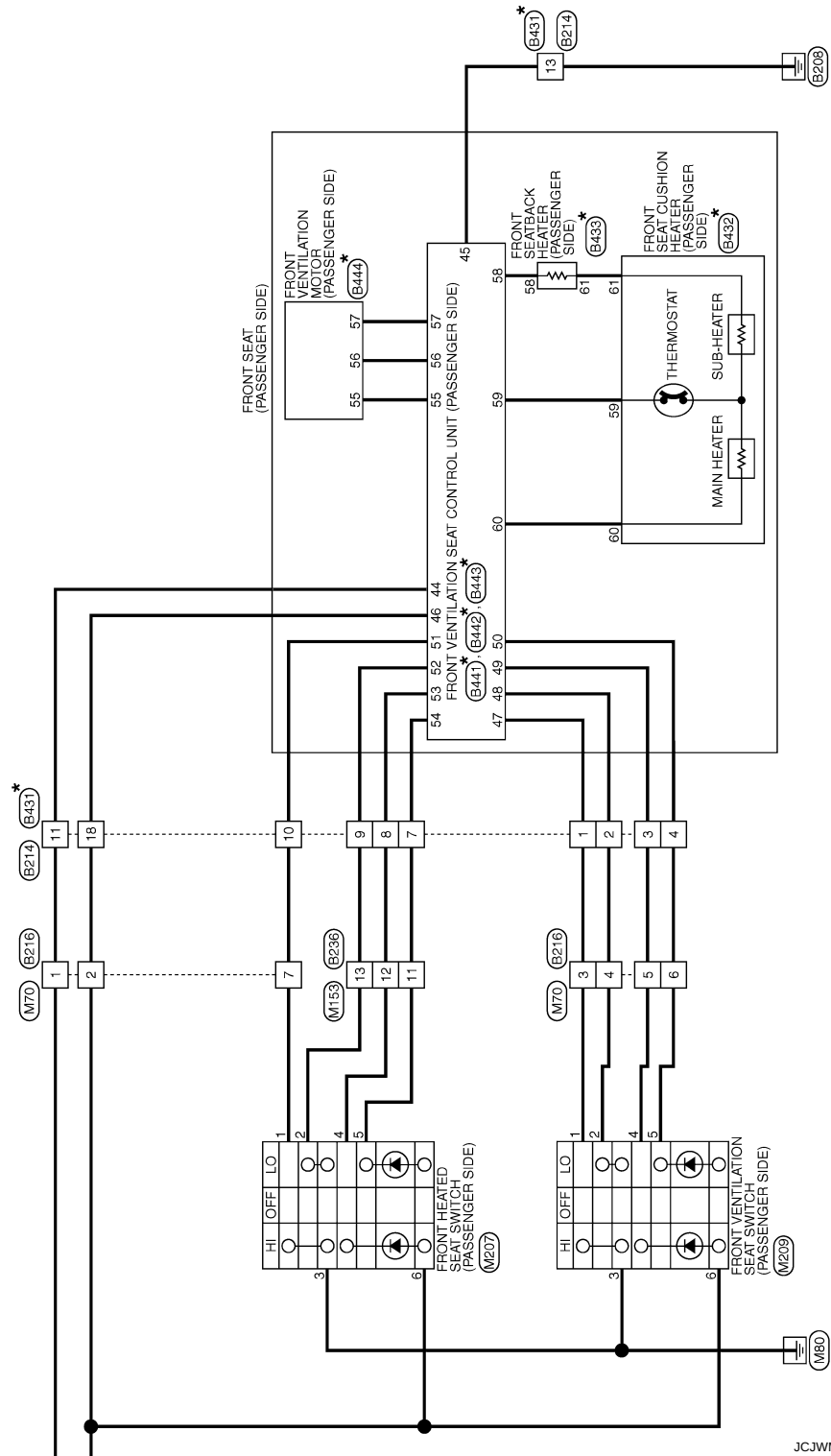
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VENTILATION SEAT CONTROL UNIT

< ECU DIAGNOSIS >

[WITH VENTILATION SEAT]



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VENTILATION SEAT CONTROL UNIT

< ECU DIAGNOSIS >

[WITH VENTILATION SEAT]

FRONT HEATED SEAT (WITH VENTILATION SEAT)

Connector No.	B11
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS19



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20



Connector No.	B214
Connector Name	WIRE TO WIRE
Connector Type	TK10FW-NS8



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20



Connector No.	B216
Connector Name	WIRE TO WIRE
Connector Type	NS16MER-CS



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

Terminal No.	Color of Wire	Signal Name [Specification]
1	P	-
2	R	-
3	BR	-
4	Y	-
5	LG	-
6	SB	-
41	O	-
42	W	-
85	SB	-[With front ventilation seat]
86	V	-[With front ventilation seat]

Terminal No.	Color of Wire	Signal Name [Specification]
1	SB	-
2	LG	-
3	Y	-
4	BR	-
7	O	-
8	W	-
9	P	-
10	R	-
11	V	-[With front ventilation seat]
13	B/Y	-
18	SB	-[With front ventilation seat]

Terminal No.	Color of Wire	Signal Name [Specification]
1	SB	-
2	LG	-
3	Y	-
4	BR	-
7	O	-
8	W	-
9	P	-
10	R	-
11	V	-[With front ventilation seat]
13	B/R	-
18	G	-[With front ventilation seat]

Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-[With front ventilation seat]
2	G	-[With front ventilation seat]
3	SB	-
4	LG	-
5	Y	-
8	BR	-
7	R	-

Connector No.	B238
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-NH



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

Connector No.	B431
Connector Name	WIRE TO WIRE
Connector Type	TK10MW-NS8



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

Connector No.	B432
Connector Name	FRONT SEAT CUSHION HEATER (PASSENGER SIDE)
Connector Type	NS03MW-CS



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

Connector No.	B433
Connector Name	FRONT SEATBACK HEATER (PASSENGER SIDE)
Connector Type	NS02MW-CS



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

Terminal No.	Color of Wire	Signal Name [Specification]
11	O	-
12	W	-
13	P	-

Terminal No.	Color of Wire	Signal Name [Specification]
1	Y/G	-
2	P/B	-
3	BR	-
4	BR/W	-
7	O/B	-
8	Y/L	-
9	R/V	-
10	W/V	-
11	GR/R	-[With front ventilation seat]
13	B/P	-[With front ventilation seat]
18	B/W	-[With front ventilation seat]

Terminal No.	Color of Wire	Signal Name [Specification]
59	W/R	-
60	R/B	-
61	L	-[With front ventilation seat]

Terminal No.	Color of Wire	Signal Name [Specification]
58	B/R	-
61	L	-[With front ventilation seat]

VENTILATION SEAT CONTROL UNIT

< ECU DIAGNOSIS >

[WITH VENTILATION SEAT]

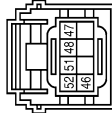
FRONT HEATED SEAT (WITH VENTILATION SEAT)

Connector No.	B441
Connector Name	FRONT VENTILATION SEAT CONTROL UNIT (PASSENGER SIDE)
Connector Type	DELPHI 1532141



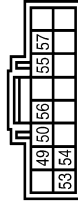
Terminal No.	Color of Wire	Signal Name [Specification]
44	GR/R	VEHICLE BATTERY
45	B/P	GROUND
58	B/R	HEAT MAT 1 WHITE
59	W/R	HEAT MAT 3 BLACK
60	R/B	HEAT MAT 2 GREEN

Connector No.	B442
Connector Name	FRONT VENTILATION SEAT CONTROL UNIT (PASSENGER SIDE)
Connector Type	DELPHI 15408141



Terminal No.	Color of Wire	Signal Name [Specification]
46	B/W	IGNITION RUN
47	Y/G	VENT HIGH SWITCH
48	P/B	VENT LOW SWITCH
51	W/V	HEAT HIGH SWITCH
52	R/V	HEAT LOW SWITCH

Connector No.	B443
Connector Name	FRONT VENTILATION SEAT CONTROL UNIT (PASSENGER SIDE)
Connector Type	DELPHI 15394150



Terminal No.	Color of Wire	Signal Name [Specification]
49	BR	VENT HIGH INDICATOR
50	BR/W	VENT LOW INDICATOR
53	Y/L	HEAT HIGH INDICATOR
54	O/B	HEAT LOW INDICATOR
55	V/R	BLOWER GROUND
56	GR/L	VSP1 (SPEED CONTROL)
57	Y	VMI (BLOWER POWER)

Connector No.	B444
Connector Name	FRONT VENTILATION MOTOR (PASSENGER SIDE)
Connector Type	YAZAKI 7283-3830



Terminal No.	Color of Wire	Signal Name [Specification]
55	V/R	BLOWER GROUND
56	GR/L	VSP1 (SPEED CONTROL)
57	Y	VMI (BLOWER POWER)

Connector No.	B462
Connector Name	WIRE TO WIRE
Connector Type	TK10MW-NS8



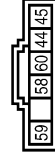
Connector No.	B463
Connector Name	FRONT SEAT CUSHION HEATER (DRIVER SIDE)
Connector Type	NS03MMH-CS



Connector No.	B484
Connector Name	FRONT SEATBACK HEATER (DRIVER SIDE)
Connector Type	NS02MW-CS



Connector No.	B465
Connector Name	FRONT VENTILATION SEAT CONTROL UNIT (DRIVER SIDE)
Connector Type	DELPHI 15332141



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y/G	-
2	P/B	-
3	BR	-
4	BR/W	-
7	O/B	-
8	Y/L	-
9	R/V	-
10	W/V	-
11	GR/R	- [With front ventilation seat]
13	B/P	- [With front ventilation seat]
18	B/W	- [With front ventilation seat]

Terminal No.	Color of Wire	Signal Name [Specification]
59	W/R	-
60	R/B	-
61	L	-

Terminal No.	Color of Wire	Signal Name [Specification]
58	B/R	-
61	L	-

Terminal No.	Color of Wire	Signal Name [Specification]
44	GR/R	VEHICLE BATTERY
45	B/P	GROUND
58	B/R	HEAT MAT 1 WHITE
59	W/R	HEAT MAT 3 BLACK
60	R/B	HEAT MAT 2 GREEN

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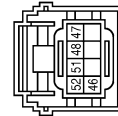
VENTILATION SEAT CONTROL UNIT

< ECU DIAGNOSIS >

[WITH VENTILATION SEAT]

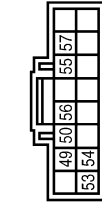
FRONT HEATED SEAT (WITH VENTILATION SEAT)

Connector No.	B465
Connector Name	FRONT VENTILATION SEAT CONTROL UNIT (DRIVER SIDE)
Connector Type	DELPHI 5406141



Terminal No.	Color of Wire	Signal Name [Specification]
46	B/W	IGNITION RUN
47	Y/G	VENT HIGH SWITCH
48	P/B	VENT LOW SWITCH
51	W/V	HEAT HIGH SWITCH
52	R/V	HEAT LOW SWITCH

Connector No.	B467
Connector Name	FRONT VENTILATION SEAT CONTROL UNIT (DRIVER SIDE)
Connector Type	DELPHI 15394150



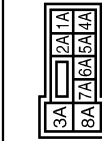
Terminal No.	Color of Wire	Signal Name [Specification]
49	BR	VENT HIGH INDICATOR
50	BR/W	VENT LOW INDICATOR
53	Y/L	HEAT HIGH INDICATOR
54	O/B	HEAT LOW INDICATOR
55	V/R	BLOWER GROUND
56	GR/L	VSP1 (SPEED CONTROL)
57	Y	VM1 (BLOWER POWER)

Connector No.	B468
Connector Name	FRONT VENTILATION MOTOR (DRIVER SIDE)
Connector Type	YAZAKI 7285-5830



Terminal No.	Color of Wire	Signal Name [Specification]
55	V/R	BLOWER GROUND
56	GR/L	VSP1 (SPEED CONTROL)
57	Y	VM1 (BLOWER POWER)

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS06FW-M2

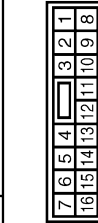


Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH70FW-CS10-M3



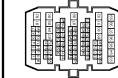
Terminal No.	Color of Wire	Signal Name [Specification]
2A	G/O	-

Connector No.	M70
Connector Name	WIRE TO WIRE
Connector Type	NS18FBR-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	R/W	-[With front ventilation seat]
2	G	-[With front ventilation seat]
3	V	-
4	R/G	-
5	B/W	-
6	BR/Y	-
7	G/R	-

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS19



Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	-
2	G/R	-
3	R/W	-
4	Y	-
5	L/B	-
6	G	-
41	L/B	-
42	GR/R	-
85	G	-[With front ventilation seat]
86	R/W	-[With front ventilation seat]

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VENTILATION SEAT CONTROL UNIT

< ECU DIAGNOSIS >

[WITH VENTILATION SEAT]

FRONT HEATED SEAT (WITH VENTILATION SEAT)

Connector No.	M153
Connector Name	WIRE TO WIRE
Connector Type	TK08FW-NH



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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Terminal No.	Color of Wire	Signal Name [Specification]
11	BR/Y	-
12	GR/R	-
13	GR	-

Connector No.	M209
Connector Name	FRONT VENTILATION SEAT SWITCH (PASSENGER SIDE)
Connector Type	TK08FW



7	2	5		
4	1	8	3	6

Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
2	R/G	-
3	B/Y	-
4	B/W	-
5	BR/Y	-
6	G	-

Connector No.	M206
Connector Name	FRONT HEATED SEAT SWITCH (DRIVER SIDE) (WITH FRONT VENTILATION SEAT)
Connector Type	TK10FW



	7	2	5		
	4	1	8	3	6

Terminal No.	Color of Wire	Signal Name [Specification]
1	G/R	-
2	GR	-
3	B/Y	-
4	GR/R	-
5	L/B	-
6	G	-

Connector No.	M207
Connector Name	FRONT SEATED SEAT SWITCH (PASSENGER SIDE) (WITH FRONT VENTILATION SEAT)
Connector Type	TK10FW



7	2	5		
4	1	8	3	6

Terminal No.	Color of Wire	Signal Name [Specification]
1	G/R	-
2	GR	-
3	B/Y	-
4	GR/R	-
5	BR/Y	-
6	G	-

Connector No.	M208
Connector Name	FRONT VENTILATION SEAT SWITCH (DRIVER SIDE)
Connector Type	TK08FW



7	2	5		
4	1	8	3	6

Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
2	L/B	-
3	B	-
4	Y	-
5	R/W	-
6	G	-

FRONT SEAT : Fail-safe

- The ventilation seat control unit is equipped with the fail-safe function.
- When a malfunction occurs in the system as per the following, the ventilation seat control unit stops all outputs. The system enters in the system turns OFF position.

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VENTILATION SEAT CONTROL UNIT

< ECU DIAGNOSIS >

[WITH VENTILATION SEAT]

Malfunction	Malfunctioning condition	Reset procedure
Ventilation motor system open circuit	In ventilation seat mode, ventilation motor system open circuit is detected for 10 seconds or more	Turn OFF key switch and turn ON key switch again. System is reset
Ventilation motor system short circuit	In ventilation seat mode, heater unit system short circuit is detected for 0.2 seconds or more	Turn OFF key switch and turn ON key switch again. System is reset
Heater unit system open circuit	In heated seat LO mode, heater unit system open circuit is detected for 0.1 seconds or more	Turn OFF key switch and turn ON key switch again. System is reset
Heater unit system short circuit	In heated seat LO mode, heater unit system short circuit is detected for 0.1 seconds or more	Turn OFF key switch and turn ON key switch again. System is reset
System voltage out of range	System voltage* of ventilation seat control unit is out of operation range (8.5 V - 16.5 V)	- When system voltage* returns within normal range after more than 0.5 seconds, system recovers - When recovering, system returns to the same status as previous

*: System voltage is the voltage between ventilation seat control unit power source and the ground.

NOTE:

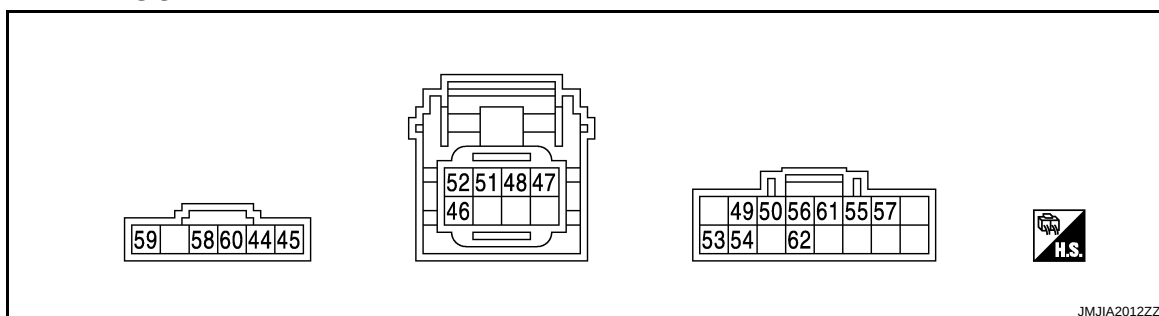
When the system enters in the fail-safe mode again after performing resetting procedure, perform diagnosis.

REAR SEAT

REAR SEAT : Reference Value

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TERMINAL LAYOUT



PHYSICAL VALUES

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
(+)	(-)	Signal name	Input/ Output			
44 (R)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage
45 (B/W)	Ground	Ground	—	Ignition switch ON		0 V
46 (R/W)	Ground	IGN power supply	Input	Ignition switch	OFF or ACC	0 V
					ON	Battery voltage
47 LH:(V) RH:(G/O)	Ground	Ventilation seat switch HI signal	Input	Ventilation seat switch HI	Pressed	0 V
					Other than above	Battery voltage
48 LH:(V/W) RH:(G/L)	Ground	Ventilation seat switch LO signal	Input	Ventilation seat switch LO	Pressed	0 V
					Other than above	Battery voltage

VENTILATION SEAT CONTROL UNIT

< ECU DIAGNOSIS >

[WITH VENTILATION SEAT]

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
(+)	(-)	Signal name	Input/ Output			
49 LH:(O/B) RH:(BR/W)	Ground	Ventilation seat HI indictor signal	Output	Ventilation seat HI indica- tor	Illuminate	3 V
					Other than above	Battery voltage
50 LH:(O/L) RH:(BR/Y)	Ground	Ventilation seat LO indictor signal	Output	Ventilation seat LO indi- cator	Illuminate	3 V
					Other than above	Battery voltage
51 LH:(P/L) RH:(G/Y)	Ground	Heated seat switch HI signal	Input	Heated seat switch HI	Pressed	0 V
					Other than above	Battery voltage
52 LH:(P/B) RH:(G/R)	Ground	Heated seat switch LO signal	Input	Heated seat switch LO	Pressed	0 V
					Other than above	Battery voltage
53 LH:(GR/R) RH:(LG/B)	Ground	Heated seat HI indictor signal	Output	Heated seat HI indicator	Illuminate	3 V
					Other than above	Battery voltage
54 LH:(GR/L) RH:(LG/R)	Ground	Heated seat LO indictor signal	Output	Heated seat LO indicator	Illuminate	3 V
					Other than above	Battery voltage
55 (B/W)	Ground	Ventilation motor ground	—	Ignition switch ON		0 V
56 LH:(L/B) RH:(Y/R)	Ground	Ventilation motor speed control signal (seatback)	Output	Ventilation seat	LO mode	7 V
					HI mode	8.8 V
57 LH:(L/W) RH:(Y/B)	Ground	Ventilation motor power supply (seatback)	Output	Ventilation seat	LO mode	Battery voltage
					HI mode	Battery voltage
					Other than above	0 V
58 LH:(G/W) RH:(W)	Ground	Heated seat power supply	Output	Heated seat	LO mode	Battery voltage
					HI mode	Battery voltage
					Other than above	0 V
59 LH:(G/B) RH:(W/B)	Ground	Ground (Heated seat HI mode)	—	Heated seat	LO mode	6.5 V
					HI mode	0 V
					Other than above	0 V
60 LH:(G) RH:(W/G)	Ground	Heated seat HI mode power sup- ply	Output	Heated seat	LO mode	0 V
		Heated seat LO mode ground	—		HI mode	Battery voltage
					Other than above	0 V
61 LH:(L/Y) RH:(Y/L)	Ground	Ventilation motor speed control signal (seat cushion)	Output	Ventilation seat	LO mode	7 V
					HI mode	10 V
62 LH:(L/R) RH:(Y/G)	Ground	Ventilation motor power supply (seat cushion)	Output	Ventilation seat	LO mode	Battery voltage
					HI mode	Battery voltage
					Other than above	0 V

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VENTILATION SEAT CONTROL UNIT

< ECU DIAGNOSIS >

[WITH VENTILATION SEAT]

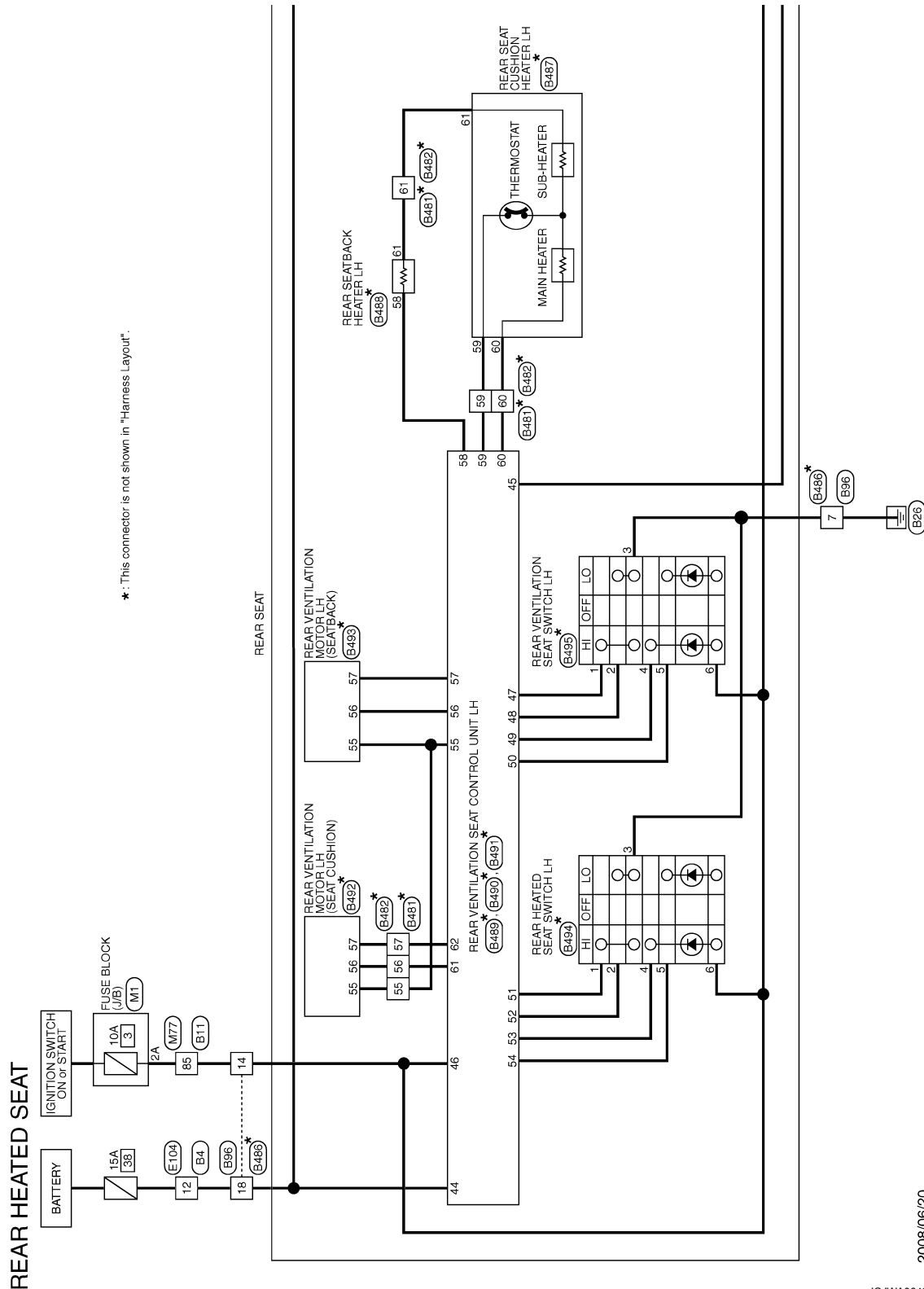
ECU DIAGNOSIS

VENTILATION SEAT CONTROL UNIT

REAR SEAT

REAR SEAT : Wiring Diagram - REAR HEATED SEAT AND VENTILATION SEAT SYSTEM -

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2008/06/20

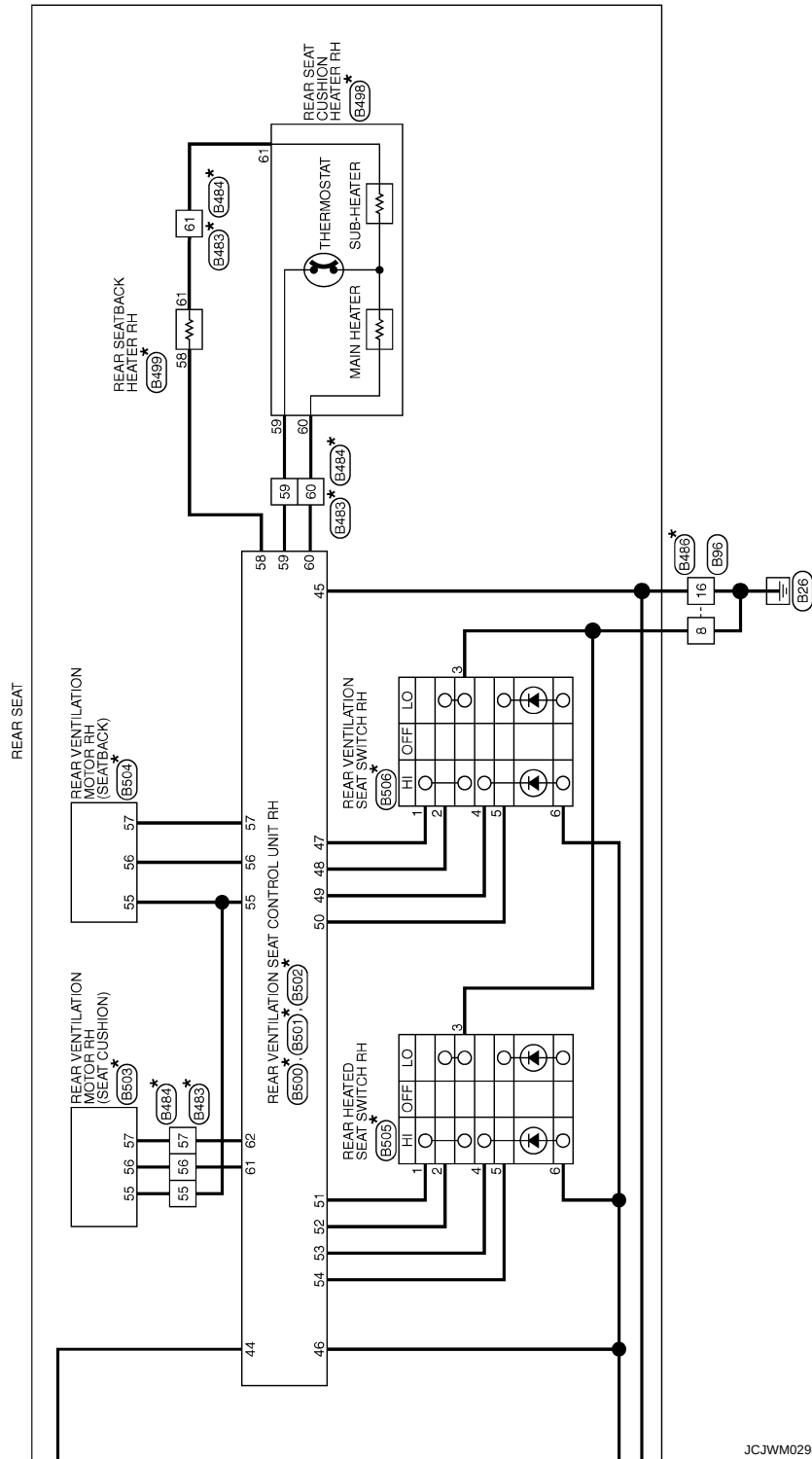
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VENTILATION SEAT CONTROL UNIT

< ECU DIAGNOSIS >

[WITH VENTILATION SEAT]

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



VENTILATION SEAT CONTROL UNIT

< ECU DIAGNOSIS >

[WITH VENTILATION SEAT]

REAR HEATED SEAT

Connector No.	B4
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS



1	2	3	4	5	6	7		
8	9	10	11	12	13	14	15	16

Terminal No.	Color of Wire	Signal Name [Specification]
12	GR	-

Connector No.	B11
Connector Name	WIRE TO WIRE
Connector Type	TH60MW-CS19



Terminal No.	Color of Wire	Signal Name [Specification]
85	SB	[With front ventilation seat]

Connector No.	B96
Connector Name	WIRE TO WIRE
Connector Type	TK10MW-NS



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18		

Terminal No.	Color of Wire	Signal Name [Specification]
7	B	-
8	B	-
14	SB	-
16	B	-
18	GR	-

Connector No.	B481
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS



59	60	61	55	56
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Terminal No.	Color of Wire	Signal Name [Specification]
55	B/W	-
56	L/Y	-
57	L/R	-
59	G/B	-
60	G	-
61	G/R	-

Connector No.	B482
Connector Name	WIRE TO WIRE
Connector Type	NS08FW-CS



57		59
56	55	61
		60

Terminal No.	Color of Wire	Signal Name [Specification]
55	B	-
56	Y	-
57	R	-
59	B/W	-
60	G	-
61	B/R	-

Connector No.	B483
Connector Name	WIRE TO WIRE
Connector Type	NS08MW-CS



59	60	61	55	56
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Terminal No.	Color of Wire	Signal Name [Specification]
55	B/W	-
56	Y/L	-
57	Y/G	-
59	W/B	-
60	W/G	-
61	W/R	-

Connector No.	B484
Connector Name	WIRE TO WIRE
Connector Type	NS08FW-CS



57		59
56	55	61
		60

Terminal No.	Color of Wire	Signal Name [Specification]
55	B	-
56	Y	-
57	R	-
59	B/W	-
60	G	-
61	B/R	-

Connector No.	B485
Connector Name	WIRE TO WIRE
Connector Type	TK10PW-NS



10	9	8	7	6	5	4	3	2	1
18	17	16	15	14	13	12	11		

Terminal No.	Color of Wire	Signal Name [Specification]
7	B/R	-
8	L	-
14	R/W	-
16	B/W	-
18	R	-

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VENTILATION SEAT CONTROL UNIT

[WITH VENTILATION SEAT]

< ECU DIAGNOSIS >

REAR HEATED SEAT

Connector No.	B487
Connector Name	REAR SEAT CUSHION HEATER LH
Connector Type	NS03MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
59	B/W	-
60	G	-
61	B/R	-

Connector No.	B488
Connector Name	REAR SEATBACK HEATER LH
Connector Type	NS02MW-CS



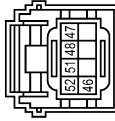
Terminal No.	Color of Wire	Signal Name [Specification]
58	G/W	-
61	G/R	-

Connector No.	B489
Connector Name	REAR VENTILATION SEAT CONTROL UNIT LH
Connector Type	DELPHI 15332141



Terminal No.	Color of Wire	Signal Name [Specification]
44	R	VEHICLE BATTERY
45	B/W	GROUND
58	G/W	HEAT MAT 1 WHITE
59	G/B	HEAT MAT 3 BLACK
60	G	HEAT MAT 2 GREEN

Connector No.	B490
Connector Name	REAR VENTILATION SEAT CONTROL UNIT LH
Connector Type	DELPHI 15408141



Terminal No.	Color of Wire	Signal Name [Specification]
46	R/W	IGNITION RUN
47	V	VENT HIGH SWITCH
48	V/W	VENT LOW SWITCH
51	P/L	HEAT HIGH SWITCH
52	P/B	HEAT LOW SWITCH

Connector No.	B401
Connector Name	REAR VENTILATION SEAT CONTROL UNIT LH
Connector Type	DELPHI 15394150



Terminal No.	Color of Wire	Signal Name [Specification]
49	O/B	VENT HIGH INDICATOR
50	O/L	VENT LOW INDICATOR
53	GR/R	HEAT HIGH INDICATOR
54	GR/L	HEAT LOW INDICATOR
55	B/W	BLOWER GROUND
56	L/B	VSP1 (SPEED CONTROL)
57	L/W	VMI (BLOWER POWER)
61	L/Y	VSP2 (SPEED CONTROL)
62	L/R	VWZ (BLOWER POWER)

Connector No.	B402
Connector Name	REAR VENTILATION MOTOR LH (SEAT CUSHION)
Connector Type	YAZAKI 7283-5630



Terminal No.	Color of Wire	Signal Name [Specification]
55	B	-
56	Y	-
57	R	-

Connector No.	B403
Connector Name	REAR VENTILATION MOTOR LH (SEATBACK)
Connector Type	YAZAKI 7283-5630



Terminal No.	Color of Wire	Signal Name [Specification]
55	B/W	-
56	L/B	-
57	L/W	-

Connector No.	B494
Connector Name	REAR HEATED SEAT SWITCH LH
Connector Type	TK10FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	P/L	-
2	P/B	-
3	B/W	-
4	GR/R	-
5	GR/L	-
6	R/W	-

VENTILATION SEAT CONTROL UNIT

< ECU DIAGNOSIS >

[WITH VENTILATION SEAT]

REAR HEATED SEAT

Connector No.	B495
Connector Name	REAR VENTILATION SEAT SWITCH LH
Connector Type	TK08FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
2	V/W	-
3	B/W	-
4	O/B	-
5	O/L	-
6	R/W	-

Connector No.	B498
Connector Name	REAR SEAT CUSHION HEATER RH
Connector Type	NS03MW-CS



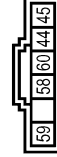
Terminal No.	Color of Wire	Signal Name [Specification]
59	B/W	-
60	G	-
61	B/R	-

Connector No.	B499
Connector Name	REAR SEATBACK HEATER RH
Connector Type	NS03MW-CS



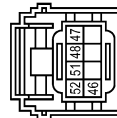
Terminal No.	Color of Wire	Signal Name [Specification]
58	W	-
61	W/R	-

Connector No.	B500
Connector Name	REAR VENTILATION SEAT CONTROL UNIT RH
Connector Type	DELPHI 15332141



Terminal No.	Color of Wire	Signal Name [Specification]
44	R	VEHICLE BATTERY
45	B/W	GROUND
58	W	HEAT MAT 1 WHITE
59	W/B	HEAT MAT 3 BLACK
60	W/G	HEAT MAT 2 GREEN

Connector No.	B501
Connector Name	REAR VENTILATION SEAT CONTROL UNIT RH
Connector Type	DELPHI 15408141



Terminal No.	Color of Wire	Signal Name [Specification]
46	R/W	IGNITION RUN
47	G/O	VENT HIGH SWITCH
48	G/L	VENT LOW SWITCH
51	G/Y	HEAT HIGH SWITCH
52	G/R	HEAT LOW SWITCH

Connector No.	B502
Connector Name	REAR VENTILATION SEAT CONTROL UNIT RH
Connector Type	DELPHI 15384150



Terminal No.	Color of Wire	Signal Name [Specification]
49	BR/W	VENT HIGH INDICATOR
50	BR/Y	VENT LOW INDICATOR
53	LG/B	HEAT HIGH INDICATOR
54	LG/R	HEAT LOW INDICATOR
55	B/W	BLOWER GROUND
56	Y/R	VSP1 (SPEED CONTROL)
57	Y/B	VMI (BLOWER POWER)
61	Y/L	VSP2 (SPEED CONTROL)
62	Y/G	VME (BLOWER POWER)

Connector No.	B503
Connector Name	REAR VENTILATION MOTOR RH (SEAT CUSHION)
Connector Type	TAZAKI 7283-5830



Terminal No.	Color of Wire	Signal Name [Specification]
55	B	-
56	Y	-
57	R	-

Connector No.	B504
Connector Name	REAR VENTILATION MOTOR RH (SEATBACK)
Connector Type	TAZAKI 7283-5830



Terminal No.	Color of Wire	Signal Name [Specification]
55	B/W	-
56	Y/R	-
57	Y/B	-

VENTILATION SEAT CONTROL UNIT

< ECU DIAGNOSIS >

[WITH VENTILATION SEAT]

REAR HEATED SEAT

Connector No.	B505
Connector Name	REAR HEATED SEAT SWITCH RH
Connector Type	TK0FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	G/Y	-
2	G/R	-
3	B/W	-
4	LG/B	-
5	LG/R	-
6	R/W	-

Connector No.	B506
Connector Name	REAR VENTILATION SEAT SWITCH RH
Connector Type	TK08FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	G/O	-
2	G/L	-
3	B/W	-
4	BR/W	-
5	BR/Y	-
6	R/W	-

Connector No.	E104
Connector Name	WIRE TO WIRE
Connector Type	NSJ6FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
12	GR	-

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS06FW-M2



Terminal No.	Color of Wire	Signal Name [Specification]
2A	G/O	-

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH06FW-CS19



Terminal No.	Color of Wire	Signal Name [Specification]
85	G	- [With front ventilation seat]

REAR SEAT : Fail-safe

- The ventilation seat control unit is equipped with the fail-safe function.
- When a malfunction occurs in the system as per the following, the ventilation seat control unit stops all outputs. The system enters in the system turns OFF position.

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VENTILATION SEAT CONTROL UNIT

< ECU DIAGNOSIS >

[WITH VENTILATION SEAT]

Malfunction	Malfunctioning condition	Reset procedure
Ventilation motor system open circuit	In ventilation seat mode, ventilation motor system open circuit is detected for 10 seconds or more	Turn OFF key switch and turn ON key switch again. System is reset
Ventilation motor system short circuit	In ventilation seat mode, heater unit system short circuit is detected for 0.2 seconds or more	Turn OFF key switch and turn ON key switch again. System is reset
Heater unit system open circuit	In heated seat LO mode, heater unit system open circuit is detected for 0.1 seconds or more	Turn OFF key switch and turn ON key switch again. System is reset
Heater unit system short circuit	In heated seat LO mode, heater unit system short circuit is detected for 0.1 seconds or more	Turn OFF key switch and turn ON key switch again. System is reset
System voltage out of range	System voltage* of ventilation seat control unit is out of operation range (8.5 V - 16.5 V)	- When system voltage* returns within normal range after more than 0.5 seconds, system recovers - When recovering, system returns to the same status as previous

*: System voltage is the voltage between ventilation seat control unit power source and the ground.

NOTE:

When the system enters in the fail-safe mode again after performing resetting procedure, perform diagnosis.

VENTILATION SEAT AND HEATED SEAT DO NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH VENTILATION SEAT]

SYMPTOM DIAGNOSIS

VENTILATION SEAT AND HEATED SEAT DO NOT OPERATE

Diagnosis Procedure

INFOID:000000003850483

1.CHECK POWER SUPPLY AND GROUND CIRCUIT

Check power supply and ground circuit.

Refer to [SE-12, "VENTILATION SEAT CONTROL UNIT : Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-35, "Intermittent Incident"](#).

NO >> GO TO 1.

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P

VENTILATION SEAT DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH VENTILATION SEAT]

VENTILATION SEAT DOES NOT OPERATE FRONT SEAT

FRONT SEAT : Diagnosis Procedure

INFOID:000000003850486

1.CHECK FRONT VENTILATION SEAT SWITCH

Check front ventilation seat switch.

Refer to [SE-18, "FRONT SEAT : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK FRONT VENTILATION MOTOR

Check front ventilation motor.

Refer to [SE-23, "FRONT SEAT : 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-35, "Intermittent Incident"](#).

NO >> GO TO 1.

REAR SEAT

REAR SEAT : Diagnosis Procedure

INFOID:000000003851182

1.CHECK REAR VENTILATION SEAT SWITCH

Check rear ventilation seat switch.

Refer to [SE-20, "REAR SEAT : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK REAR VENTILATION MOTOR

Check rear ventilation motor.

Refer to [SE-25, "REAR SEAT : 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-35, "Intermittent Incident"](#).

NO >> GO TO 1.

HI MODE AND LO MODE OF HEATED SEAT DO NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH VENTILATION SEAT]

HI MODE AND LO MODE OF HEATED SEAT DO NOT OPERATE FRONT SEAT

FRONT SEAT : Description

INFOID:0000000003900696

NOTE:

- When short or open circuit occurs in heater unit circuit, the system enters fail-safe mode. Refer to [SE-59, "FRONT SEAT : Fail-safe"](#).

FRONT SEAT : Diagnosis Procedure

INFOID:0000000003850497

1.CHECK FRONT HEATED SEAT SWITCH

Check front heated seat switch.

Refer to [SE-13, "FRONT SEAT : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK FRONT SEATBACK HEATER

Check front seatback heater.

Refer to [SE-33, "FRONT SEAT : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK FRONT SEAT CUSHION HEATER

Check front seat cushion heater.

Refer to [SE-31, "FRONT SEAT : 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-35, "Intermittent Incident"](#).

NO >> GO TO 1.

REAR SEAT

REAR SEAT : Description

INFOID:0000000003900697

NOTE:

- When short or open circuit occurs in heater unit circuit, the system enters fail-safe mode. Refer to [SE-67, "REAR SEAT : Fail-safe"](#).

REAR SEAT : Diagnosis Procedure

INFOID:0000000003853477

1.CHECK REAR HEATED SEAT SWITCH

Check rear heated seat switch.

Refer to [SE-15, "REAR SEAT : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK REAR SEATBACK HEATER

Check rear seatback heater.

Refer to [SE-34, "REAR SEAT : Component Function Check"](#).

HI MODE AND LO MODE OF HEATED SEAT DO NOT OPERATE

[WITH VENTILATION SEAT]

< SYMPTOM DIAGNOSIS >

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. CHECK REAR SEAT CUSHION HEATER

Check rear seat cushion heater.

Refer to [SE-32, "REAR SEAT : 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-35, "Intermittent Incident"](#).

NO >> GO TO 1.

HI MODE OF HEATED SEAT DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH VENTILATION SEAT]

HI MODE OF HEATED SEAT DOES NOT OPERATE FRONT SEAT

FRONT SEAT : Diagnosis Procedure

INFOID:000000003850501

1.CHECK FRONT HEATED SEAT SWITCH

Check front heated seat switch.

Refer to [SE-13, "FRONT SEAT : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK FRONT HEATED SEAT HI MODE GROUND CIRCUIT

Check front heated seat HI mode ground circuit.

Refer to [SE-29, "FRONT SEAT : 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-35, "Intermittent Incident"](#).

NO >> GO TO 1.

REAR SEAT

REAR SEAT : Diagnosis Procedure

INFOID:000000003853478

1.CHECK REAR HEATED SEAT SWITCH

Check rear heated seat switch.

Refer to [SE-15, "REAR SEAT : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK REAR HEATED SEAT HI MODE GROUND CIRCUIT

Check rear heated seat HI mode ground circuit.

Refer to [SE-30, "REAR SEAT : 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-35, "Intermittent Incident"](#).

NO >> GO TO 1.

LO MODE OF HEATED SEAT DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH VENTILATION SEAT]

LO MODE OF HEATED SEAT DOES NOT OPERATE FRONT SEAT

FRONT SEAT : Description

INFOID:0000000003901738

NOTE:

- When short or open circuit occurs in heater unit circuit, the system enters fail-safe mode. Refer to [SE-59, "FRONT SEAT : Fail-safe"](#).

FRONT SEAT : Diagnosis Procedure

INFOID:0000000003850499

1.CHECK FRONT HEATED SEAT SWITCH

Check front heated seat switch.

Refer to [SE-13, "FRONT SEAT : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK FRONT SEATBACK HEATER

Check front seatback heater.

Refer to [SE-33, "FRONT SEAT : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK FRONT SEAT CUSHION HEATER

Check front seat cushion heater.

Refer to [SE-31, "FRONT SEAT : 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-35, "Intermittent Incident"](#).

NO >> GO TO 1.

REAR SEAT

REAR SEAT : Description

INFOID:0000000003901739

NOTE:

- When short or open circuit occurs in heater unit circuit, the system enters fail-safe mode. Refer to [SE-67, "REAR SEAT : Fail-safe"](#).

REAR SEAT : Diagnosis Procedure

INFOID:0000000003853479

1.CHECK REAR HEATED SEAT SWITCH

Check rear heated seat switch.

Refer to [SE-15, "REAR SEAT : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK REAR SEATBACK HEATER

Check rear seatback heater.

Refer to [SE-34, "REAR SEAT : Component Function Check"](#).

LO MODE OF HEATED SEAT DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH VENTILATION SEAT]

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK REAR SEAT CUSHION HEATER

Check rear seat cushion heater.

Refer to [SE-32, "REAR SEAT : 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-35, "Intermittent Incident"](#).

NO >> GO TO 1.

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ONLY SEATBACK HEATER IS OPERATED IN HI MODE OF HEATED SEAT

< SYMPTOM DIAGNOSIS >

[WITH VENTILATION SEAT]

ONLY SEATBACK HEATER IS OPERATED IN HI MODE OF HEATED SEAT FRONT SEAT

FRONT SEAT : Description

INFOID:0000000003900698

NOTE:

- The phenomenon appears when a malfunction occurs while HI mode is being activated.
- When mode changes to LO mode, the system enters fail-safe mode. Refer to [SE-59, "FRONT SEAT : Fail-safe"](#).

FRONT SEAT : Diagnosis Procedure

INFOID:0000000003850488

1.CHECK FRONT SEAT CUSHION HEATER

Check front seat cushion heater.

Refer to [SE-31, "FRONT SEAT : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-35, "Intermittent Incident"](#).

NO >> GO TO 1.

REAR SEAT

REAR SEAT : Description

INFOID:0000000003900699

NOTE:

- The phenomenon appears when a malfunction occurs while HI mode is being activated.
- When mode changes to LO mode, the system enters fail-safe mode. Refer to [SE-67, "REAR SEAT : Fail-safe"](#).

REAR SEAT : Diagnosis Procedure

INFOID:0000000003853480

1.CHECK REAR SEAT CUSHION HEATER

Check rear seat cushion heater.

Refer to [SE-32, "REAR SEAT : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-35, "Intermittent Incident"](#).

NO >> GO TO 1.

ONLY SEAT CUSHION HEATER IS OPERATED IN HI MODE OF HEATED SEAT

FRONT SEAT

FRONT SEAT : Description

INFOID:0000000003900700

NOTE:

- The phenomenon appears when a malfunction occurs while HI mode is being activated.
- When mode changes to LO mode, the system enters fail-safe mode. Refer to [SE-59, "FRONT SEAT : Fail-safe"](#).

FRONT SEAT : Diagnosis Procedure

INFOID:0000000003850770

1.CHECK FRONT SEATBACK HEATER

Check front seatback heater.

Refer to [SE-33, "FRONT SEAT : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-35, "Intermittent Incident"](#).

NO >> GO TO 1.

REAR SEAT

REAR SEAT : Description

INFOID:0000000003900701

NOTE:

- The phenomenon appears when a malfunction occurs while HI mode is being activated.
- When mode changes to LO mode, the system enters fail-safe mode. Refer to [SE-67, "REAR SEAT : Fail-safe"](#).

REAR SEAT : Diagnosis Procedure

INFOID:0000000003853481

1.CHECK REAR SEATBACK HEATER

Check rear seatback heater.

Refer to [SE-34, "REAR SEAT : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-35, "Intermittent Incident"](#).

NO >> GO TO 1.

HEATED SEAT SWITCH INDICATOR DOES NOT TURN ON

< SYMPTOM DIAGNOSIS >

[WITH VENTILATION SEAT]

HEATED SEAT SWITCH INDICATOR DOES NOT TURN ON FRONT SEAT

FRONT SEAT : Diagnosis Procedure

INFOID:0000000003850772

1.CHECK FRONT HEATED SEAT SWITCH INDICATOR

Check front heated seat switch indicator.

Refer to [SE-37, "FRONT SEAT : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-35, "Intermittent Incident"](#).

NO >> GO TO 1.

REAR SEAT

REAR SEAT : Diagnosis Procedure

INFOID:0000000003853482

1.CHECK REAR HEATED SEAT SWITCH INDICATOR

Check rear heated seat switch indicator.

Refer to [SE-38, "REAR SEAT : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-35, "Intermittent Incident"](#).

NO >> GO TO 1.

VENTILATION SEAT SWITCH INDICATOR DOES NOT TURN ON

< SYMPTOM DIAGNOSIS >

[WITH VENTILATION SEAT]

VENTILATION SEAT SWITCH INDICATOR DOES NOT TURN ON FRONT SEAT

FRONT SEAT : Diagnosis Procedure

INFOID:000000003850774

1.CHECK FRONT VENTILATION SEAT SWITCH INDICATOR

Check front ventilation seat switch indicator.

Refer to [SE-41, "FRONT SEAT : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-35, "Intermittent Incident"](#).

NO >> GO TO 1.

REAR SEAT

REAR SEAT : Diagnosis Procedure

INFOID:000000003853483

1.CHECK REAR VENTILATION SEAT SWITCH INDICATOR

Check rear ventilation seat switch indicator.

Refer to [SE-42, "REAR SEAT : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-35, "Intermittent Incident"](#).

NO >> GO TO 1.

SQUEAK AND RATTLE TROUBLE DIAGNOSES

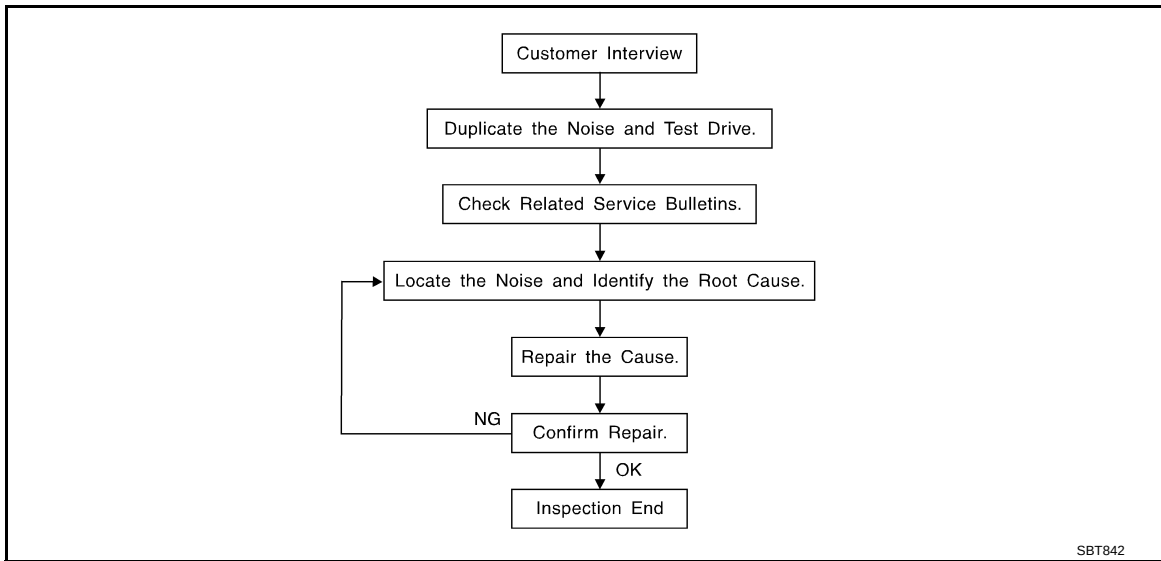
< SYMPTOM DIAGNOSIS >

[WITH VENTILATION SEAT]

SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow

INFOID:000000003940143



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 the customer's comments; refer to [SE-84, "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, be sure to diagnose and repair the noise that the customer is concerned about. This can be accomplished by a test drive 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 bumble bee)
Buzz characteristics include high frequency rattle/firm contact.
- Often the degree of acceptable noise level will vary depending upon 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.

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITH VENTILATION SEAT]

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

- 1) Close a door.
 - 2) Tap or push/pull around the area where the noise appears to be coming from.
 - 3) Rev the engine.
 - 4) Use a floor jack to recreate vehicle "twist".
 - 5) At idle, apply engine load (electrical load, half-clutch on M/T model, drive position on A/T model).
 - 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.

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 (Engine Ear or 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 temporarily.
 - 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 is are suspected to be the cause of the noise.
 - Looking for loose components and contact marks.
Refer to [SE-82, "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. These insulators are available through the authorized Nissan Parts Department.

CAUTION:

Never use excessive force as many components are constructed of plastic and may be damaged.

NOTE:

- URETHANE PADS
Insulates connectors, harness, etc.
- INSULATOR (Foam blocks)
Insulates components from contact. Can be used to fill space behind a panel.
- INSULATOR (Light foam block)
- FELT CLOTHTAPE
Used to insulate where movement does not occur. Ideal for instrument panel applications.
The following materials, not available through NISSAN Parts Department, can also be used to repair squeaks and rattles.
- UHMW(TEFLON) TAPE
Insulates where slight movement is present. Ideal for instrument panel applications.
- SILICONE GREASE
Used in place of UHMW tape that is be visible or does not fit.
Note: 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.

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITH VENTILATION SEAT]

Inspection Procedure

INFOID:000000003940144

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

INSTRUMENT PANEL

Most incidents are caused by contact and movement between:

1. 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
2. A/C control unit and cluster lid C
3. Wiring harnesses behind audio and A/C control unit

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

DOORS

Pay attention to the following:

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

Tapping or moving the components or pressing on them while driving to duplicate the conditions can isolate many of these incidents. The areas can usually be insulated with felt cloth tape or insulator foam blocks 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
2. Trunk lid striker out of adjustment
3. Trunk lid torsion bars knocking together
4. A loose license plate or bracket

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

SUNROOF/HEADLINING

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

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

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

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITH VENTILATION SEAT]

SEATS

When isolating seat noise it is important to note the position the seat is 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. 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
3. Engine wall mounts and connectors
4. Loose radiator mounting pins
5. Hood bumpers out of adjustment
6. Hood striker out of adjustment

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

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SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITH VENTILATION SEAT]

Diagnostic Worksheet

INFOID:000000003940145



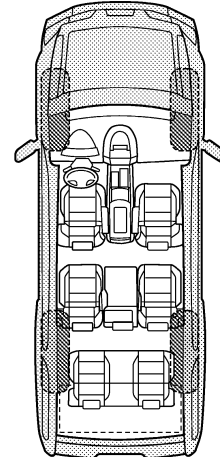
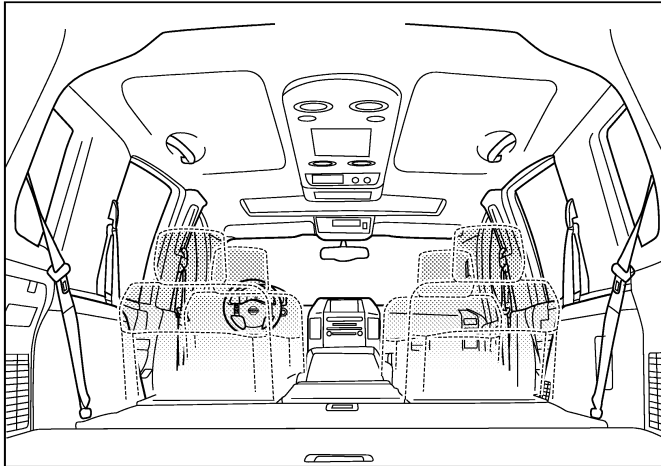
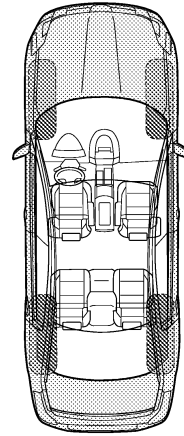
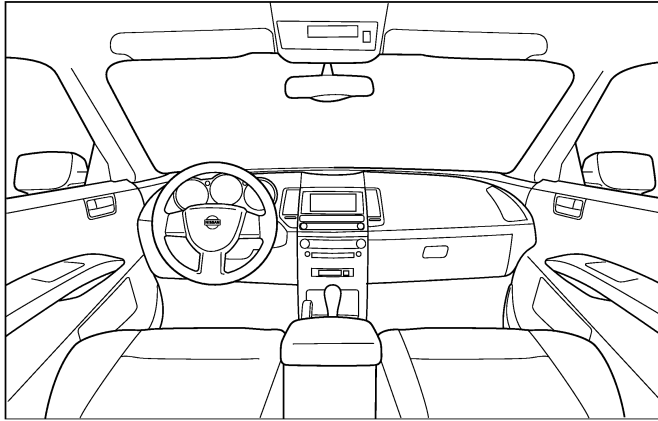
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

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.

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SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITH VENTILATION SEAT]

SQUEAK & RATTLE DIAGNOSTIC WORKSHEET - page 2

Briefly describe the location where the noise occurs:

II. WHEN DOES IT OCCUR? (please check the boxes that apply)

- | | |
|---|--|
| ☐ anytime | ☐ 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:

- ☐ through driveways
- ☐ over rough roads
- ☐ over speed bumps
- ☐ only about ____ mph
- ☐ on acceleration
- ☐ coming to a stop
- ☐ on turns: left, right or either (circle)
- ☐ with passengers or cargo
- ☐ other: _____
- ☐ after driving ____ miles or ____ minutes

IV. WHAT TYPE OF NOISE

- ☐ squeak (like tennis shoes on a clean floor)
- ☐ creak (like walking on an old wooden floor)
- ☐ rattle (like shaking a baby rattle)
- ☐ knock (like a knock at the door)
- ☐ tick (like a clock second hand)
- ☐ thump (heavy, muffled knock noise)
- ☐ buzz (like a bumble bee)

TO BE COMPLETED BY DEALERSHIP PERSONNEL

Test Drive Notes:

	YES	NO	Initials of person performing
Vehicle test driven with customer	☐	☐	_____
- Noise verified on test drive	☐	☐	_____
- Noise source located and repaired	☐	☐	_____
- Follow up test drive performed to confirm repair	☐	☐	_____

VIN: _____ Customer Name: _____
W.O.# _____ Date: _____

This form must be attached to Work Order

PIIB8742E

PRECAUTION

PRECAUTIONS

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

INFOID:000000003940149

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. 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.

Precaution Necessary for Steering Wheel Rotation after Battery Disconnect

INFOID:000000003885169

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.)
6. Perform self-diagnosis check of all control units using CONSULT-III.

Service Notice

INFOID:000000003809271

- 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.

PRECAUTIONS

< PRECAUTION >

[WITH VENTILATION SEAT]

- When replacing any metal parts (for example body outer panel, members, etc.), be sure to take rust prevention measures.

A

Precaution for Work

INFOID:000000003809272

- 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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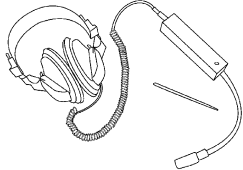
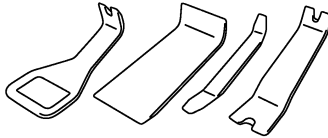
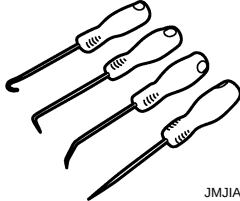
P

PREPARATION

PREPARATION

Commercial Service Tools

INFOID:000000003809274

Tool name	Description
Engine ear  SIIA0995E	Locating the noise
Remover tool  PIIB7923J	Removes clips, pawls, metal clips
Hook and pick tool  JMJIA0490ZZ	Removes the snap pins

FRONT SEAT

< ON-VEHICLE REPAIR >

[WITH VENTILATION SEAT]

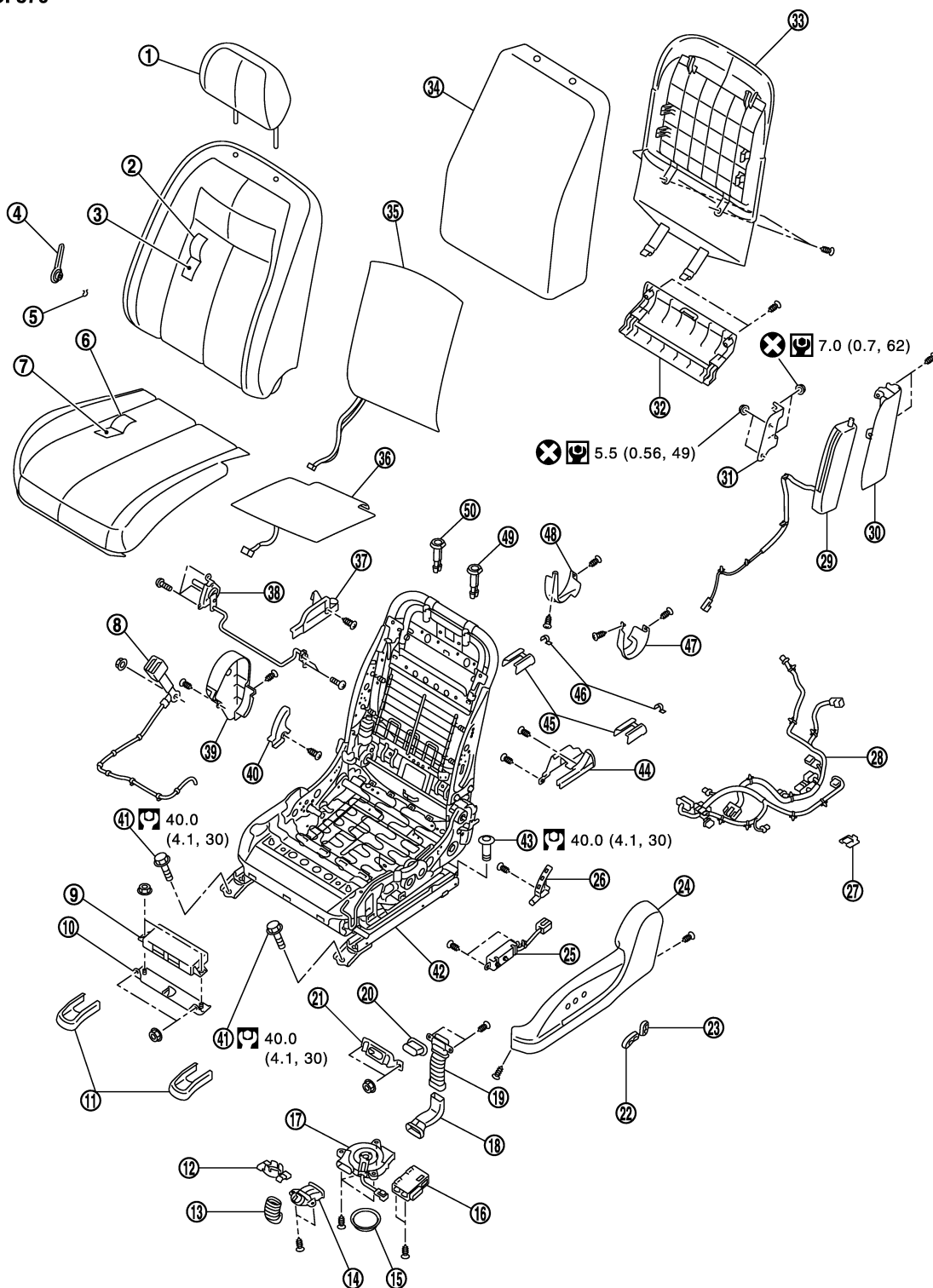
ON-VEHICLE REPAIR

FRONT SEAT

Exploded View

DRIVER'S POWER SEAT

SEC. 870



JMJIA1714GB

FRONT SEAT

< ON-VEHICLE REPAIR >

[WITH VENTILATION SEAT]

- | | | |
|--|--|----------------------------------|
| 1. Headrest | 2. Seatback trim | 3. Seatback pad |
| 4. Lumbar support lever knob | 5. Snap pin | 6. Seat cushion trim |
| 7. Seat cushion pad | 8. Seat belt buckle | 9. Seat control unit |
| 10. Seat cushion frame bracket | 11. Front slide cover | 12. Clip |
| 13. Seat cushion duct B | 14. Seat cushion duct A | 15. Blower filter |
| 16. Ventilation seat control unit | 17. Ventilation motor | 18. Seatback duct A |
| 19. Seatback duct B | 20. Seatback duct C | 21. Clip |
| 22. Seat slide and lifter switch knob | 23. Reclining switch knob | 24. Seat cushion outer finisher |
| 25. Seat control switch | 26. Seat cushion outer finisher inside | 27. Seat harness clamp |
| 28. Seat harness | 29. Side air bag module | 30. Seatback finisher |
| 31. Side air bag module bracket | 32. Seat cushion rear finisher | 33. Seatback board |
| 34. Seatback silencer | 35. Seatback heater unit | 36. Seat cushion heater unit |
| 37. Seat slide inner cover | 38. Lumbar support unit | 39. Seat cushion inner finisher |
| 40. Seat cushion inner finisher inside | 41. TORX bolt | 42. Seat frame assembly |
| 43. TORX bolt | 44. Seat slide outer cover | 45. Rear slide cover |
| 46. End cap | 47. Reclining device outer cover | 48. Reclining device inner cover |
| 49. Headrest holder (locked) | 50. Headrest holder (free) | |

Refer to [GI-4, "Components"](#) for symbols in the figure.

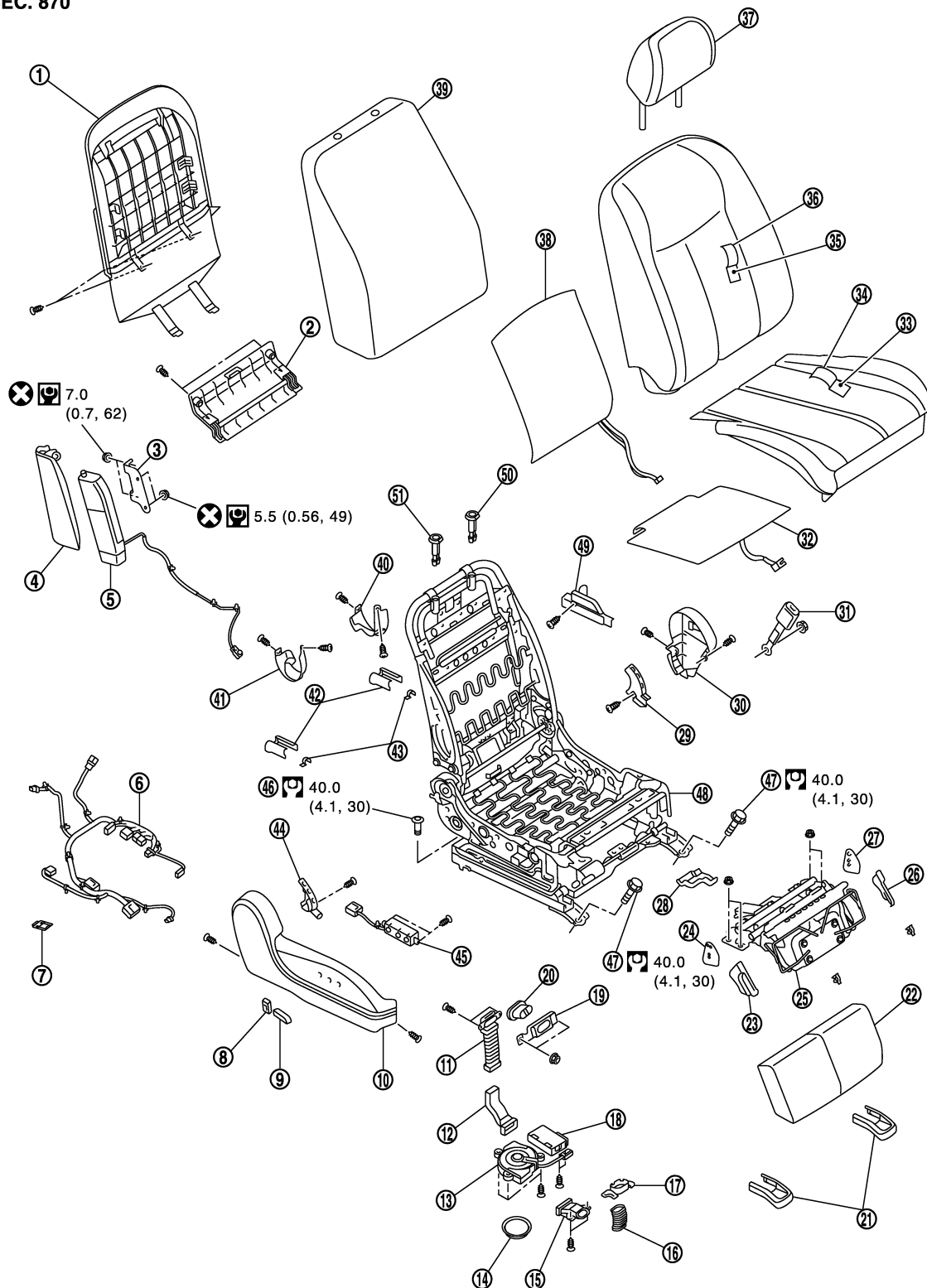
PASSENGER'S POWER SEAT

FRONT SEAT

< ON-VEHICLE REPAIR >

[WITH VENTILATION SEAT]

SEC. 870



- | | | |
|---------------------------------|-------------------------------|--------------------------------------|
| 1. Seatback board | 2. Seat cushion rear finisher | 3. Side air bag module bracket |
| 4. Seatback finisher | 5. Side air bag module | 6. Seat harness |
| 7. Seat harness clamp | 8. Reclining switch knob | 9. Seat slide and lifter switch knob |
| 10. Seat cushion outer finisher | 11. Seatback duct B | 12. Seatback duct A |
| 13. Ventilation motor | 14. Blower filter | 15. Seat cushion duct A |
| 16. Seat cushion duct B | 17. Clip | 18. Ventilation seat control unit |

JMJIA1715GB

FRONT SEAT

< ON-VEHICLE REPAIR >

[WITH VENTILATION SEAT]

- | | | |
|----------------------------------|--|---------------------------------|
| 19. Clip | 20. Seatback duct C | 21. Front slide cover |
| 22. Ottoman trim and pad | 23. Front outer link cover | 24. Rear outer link cover |
| 25. Ottoman unit assembly | 26. Front inner link cover | 27. Rear inner link cover |
| 28. Ottoman protector | 29. Seat cushion inner finisher inside | 30. Seat cushion inner finisher |
| 31. Seat belt buckle | 32. Seat cushion heater unit | 33. Seat cushion pad |
| 34. Seat cushion trim | 35. Seatback pad | 36. Seatback trim |
| 37. Headrest | 38. Seatback heater unit | 39. Seatback silencer |
| 40. Reclining device inner cover | 41. Reclining device outer cover | 42. Rear slide cover |
| 43. End cap | 44. Seat cushion outer finisher inside | 45. Seat control switch |
| 46. TORX bolt | 47. TORX bolt | 48. Seat frame assembly |
| 49. Seat slide inner cover | 50. Headrest holder (locked) | 51. Headrest holder (free) |

Refer to [GI-4, "Components"](#) for symbols in the figure.

Removal and Installation

INFOID:000000003812466

REMOVAL

CAUTION:

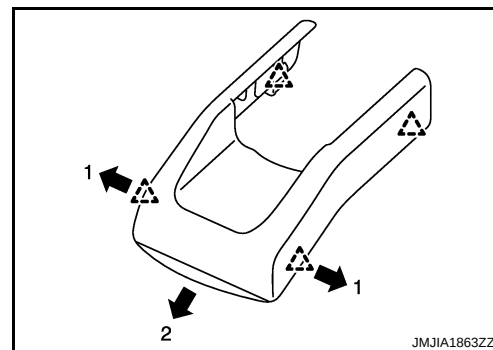
- When removing and installing, use shop cloths to protect parts from damage.
- Before removal, turn ignition switch OFF, disconnect battery negative terminal and then wait for at least 3 minutes.

NOTE:

Confirm the position of connector before starting work.

1. Remove the headrest.
2. Slide the seat to the frontmost position.
3. Remove the rear outer mounting TORX bolt.
4. Remove the rear inner mounting TORX bolt.
5. Slide the seat to the rearmost position.
6. Remove the front slide cover.
 - Open the front end of the front slide cover to release the pawls.
 - Slide the front slide cover forward to release the pawls.

 : Pawl



7. Remove the front outer mounting TORX bolt.
8. Remove the front inner mounting TORX bolt.
9. Set seatback in a standing position.
10. Lift the seat to the uppermost position.
11. Lift the ottoman to the uppermost position. (With ottoman model)
12. Disconnect harness connector under the seat and remove harness clamps.
13. Remove seat from the vehicle.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

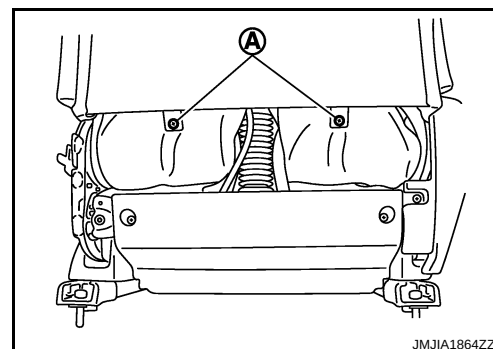
- Before installation, turn ignition switch OFF, disconnect battery negative terminal, and then wait for at least 3 minutes.
- Clamp the harness in position.

Disassembly and Assembly

SEATBACK

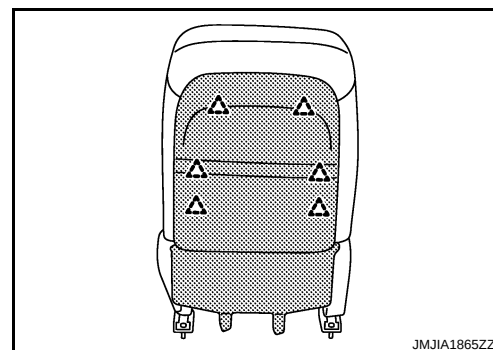
Disassembly

1. Remove the seatback board.
 - Remove the hook, and then remove screws (A).

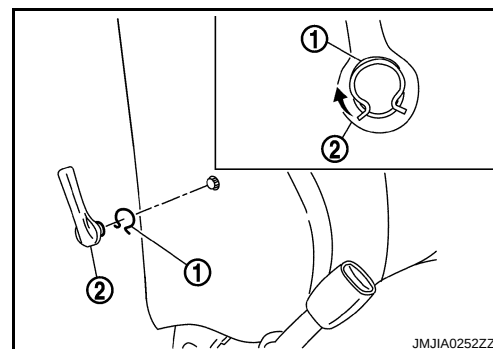


- Remove the pawls, and then pull out seatback board.
- Pull down the seatback board to release the upper pawls.

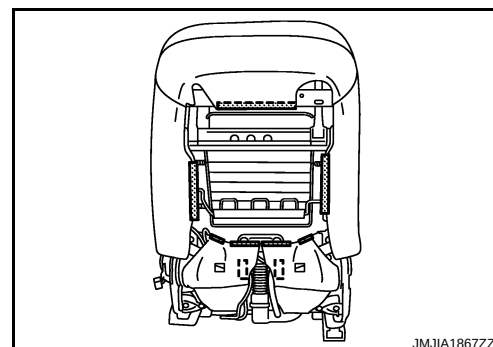
 : Pawl



2. Remove the lumbar support lever knob. Pull snap pin (1) upward, and remove lumbar support lever knob (2) from seatback using hook and pick tool.



3. Remove the seatback pad and seatback trim.
 - Remove the seatback retainer on the back side of the seatback.
 - Remove the screws, and then remove seatback finisher.
 - Remove the side air bag module. Refer to [SR-16. "Removal and Installation"](#).



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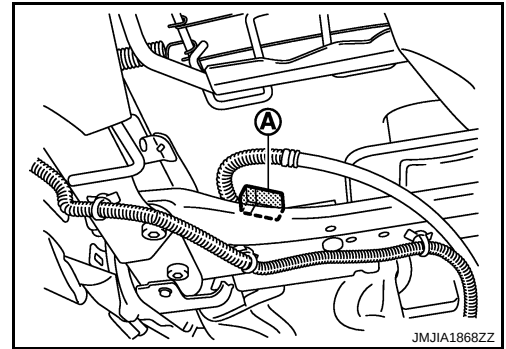
P

FRONT SEAT

< ON-VEHICLE REPAIR >

[WITH VENTILATION SEAT]

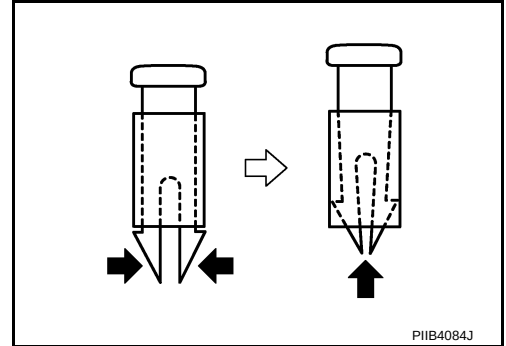
- Disconnect the seatback heater unit harness connector (A).



- 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 seat frame assembly.
 - Remove the hog rings to separate the seatback trim and seatback pad.
4. Remove the seatback silencer.
 5. Remove the lumbar support unit.
 - Remove the screws.
 - Remove the lumbar support unit while pulling the seatback spring.
 6. Remove the reclining device outer and inner cover.
Remove the screws, and then remove reclining device outer and inner cover.

Assembly

Assemble in the reverse order of disassembly.

CAUTION:

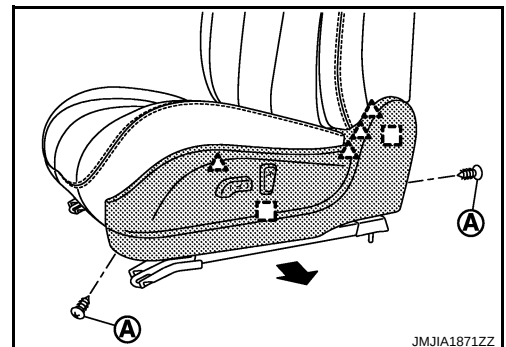
Install the hog rings of seatback trim in position, and then securely connect the trim or trim cord with the pad side wire.

SEAT CUSHION

Disassembly

1. Remove the seat cushion outer finisher.
 - Remove the screws (A).
 - Remove the metal clips and pawls, and then pull out seat cushion outer finisher.

- : Metal clip
△ : Pawl



- Disconnect the harness connector and remove harness clamp.
2. Remove the seat belt buckle. Refer to [SB-7. "SEAT BELT BUCKLE : Removal and Installation"](#).
 3. Remove the seat cushion inner finisher.

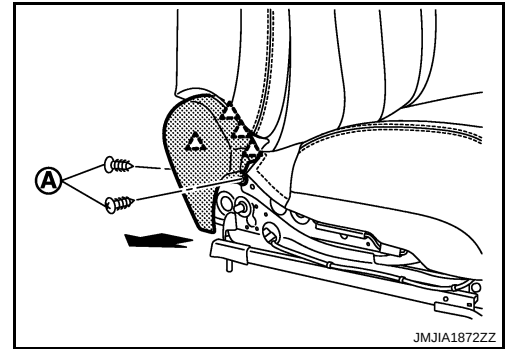
FRONT SEAT

< ON-VEHICLE REPAIR >

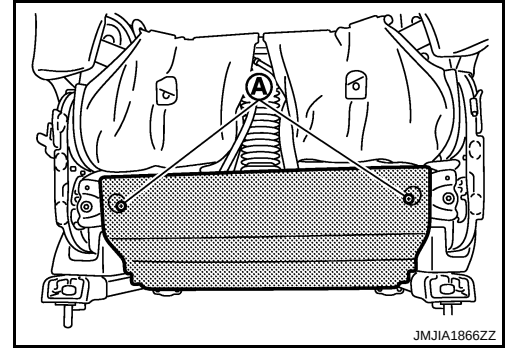
[WITH VENTILATION SEAT]

- Remove the screws (A).
- Remove the pawls, and then pull out seat cushion inner finisher.

 : Pawl

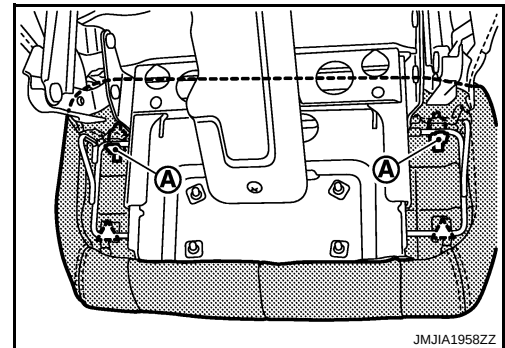


- Remove the seat cushion rear finisher.
Remove the screws (A), and then pull out seat cushion rear finisher.

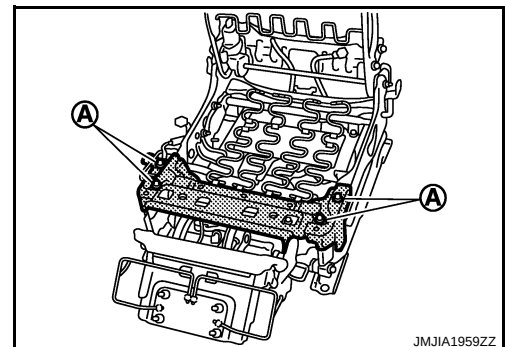


- Remove the ottoman pad. (With ottoman model)
Remove the clips (A), and then side forward and remove pawl.

 : Pawl



- Remove the seat cushion trim and seat cushion pad.
 - Remove the seat cushion retainer.
 - Disconnect the seat cushion heater unit harness connector.
 - Remove the seat cushion trim and seat cushion pad from the seat frame assembly.
 - Remove the hog rings, and separate the seat cushion trim and seat cushion pad.
- Remove the ottoman frame. (With ottoman model)
 - Remove the bolts (A), and then lift the seat cushion plate.



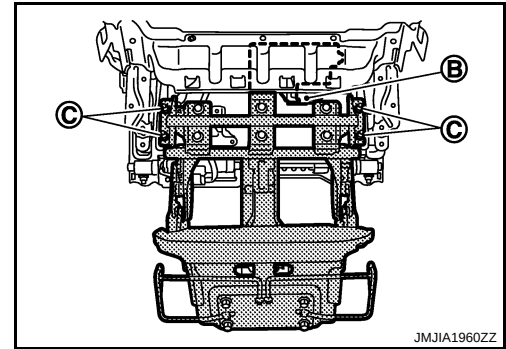
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FRONT SEAT

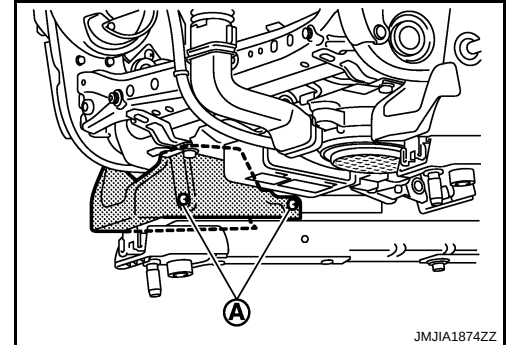
< ON-VEHICLE REPAIR >

[WITH VENTILATION SEAT]

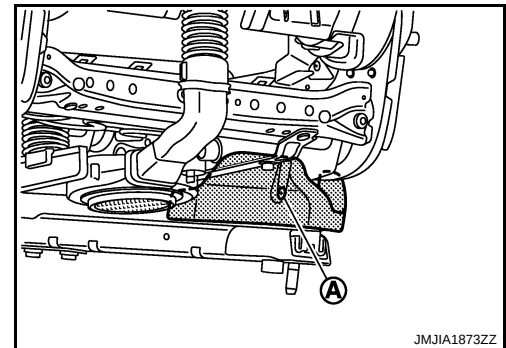
- Disconnect the harness connector (B).
- Remove the bolts (C), and then remove the ottoman frame.



8. Remove the seat slide outer cover.
Remove the screws (A), and then remove seat slide outer cover.



9. Remove seat slide inner cover.
Remove the screw (A), and then remove seat slide inner cover.



10. Remove the seat cushion outer and inner finisher inside.
Remove the screw, and then remove the seat cushion outer and inner finisher inside.
11. Remove the driver seat control unit. (Automatic drive positioner model only) [ADP-7, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement"](#).

Assembly

Assemble in the reverse order of disassembly.

CAUTION:

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

VENTILATION UNIT

Disassembly

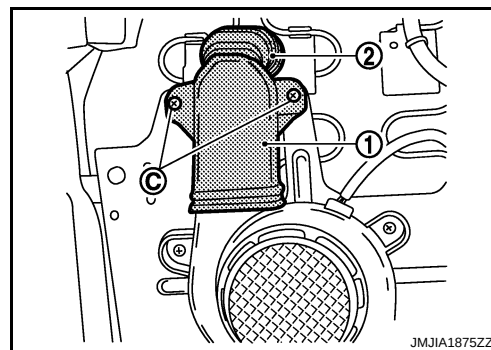
1. Remove the seat cushion duct A and B.

FRONT SEAT

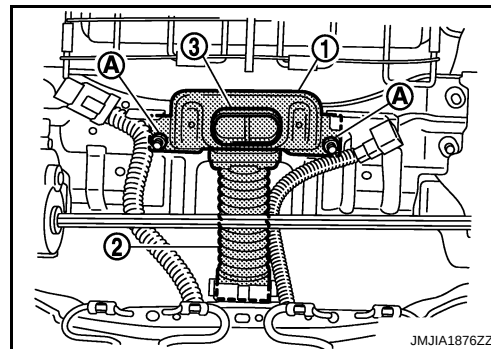
< ON-VEHICLE REPAIR >

[WITH VENTILATION SEAT]

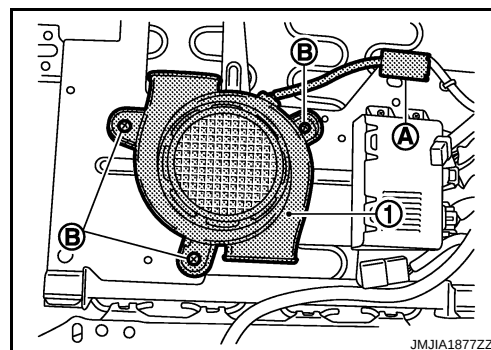
Remove the screws (C), and then remove seat cushion duct A (1) and B (2).



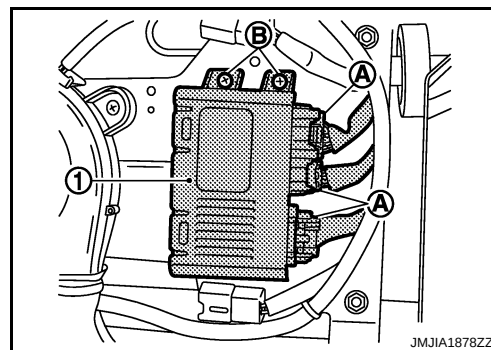
2. Remove the clip, seatback duct B and C.
Remove the nuts (A), and then remove clip (1), seatback duct B (2) and C (3).



3. Remove the seatback duct A.
4. Remove the ventilation motor.
 - Disconnect the harness connector (A).
 - Remove the screws (B), and then remove ventilation motor (1).



5. Remove the ventilation seat control unit.
 - Disconnect the harness connectors (A).
 - Remove the screws (B), and then remove ventilation seat control unit (1).



Assembly

Assemble in the reverse order of disassembly.

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REAR SEAT

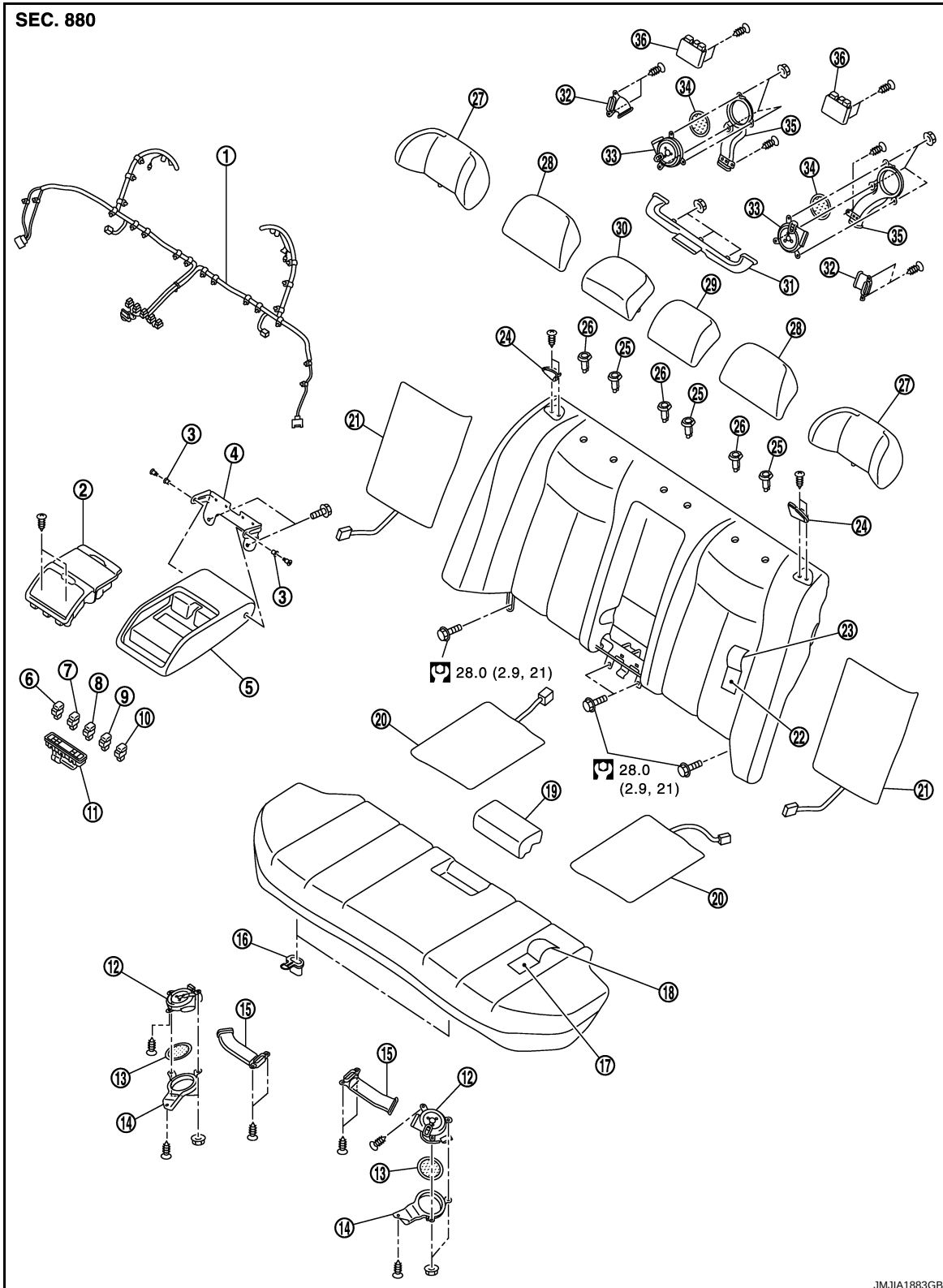
< ON-VEHICLE REPAIR >

[WITH VENTILATION SEAT]

REAR SEAT

Exploded View

INFOID:000000003809278



- | | | |
|-------------------------------|-------------------------|-------------------------------|
| 1. Seat harness | 2. Cup holder | 3. Bushing |
| 4. Armrest bracket | 5. Armrest assembly | 6. Seat heater switch RH |
| 7. Air conditioning switch RH | 8. Rear sunshade switch | 9. Air conditioning switch LH |

REAR SEAT

< ON-VEHICLE REPAIR >

[WITH VENTILATION SEAT]

- | | | |
|---------------------------------|-----------------------------------|--------------------------------------|
| 10. Seat heater switch LH | 11. Rear audio switch | 12. Ventilation motor (seat cushion) |
| 13. Blower filter | 14. Seat cushion duct A | 15. Seat cushion duct B |
| 16. Seat cushion hook | 17. Seat cushion pad | 18. Seat cushion trim |
| 19. Seatback center pad | 20. Seat cushion heater unit | 21. Seatback heater unit |
| 22. Seatback pad | 23. Seatback trim | 24. Seat belt hook |
| 25. Headrest holder (locked) | 26. Headrest holder (free) | 27. Headrest side (long type) |
| 28. Headrest side (normal type) | 29. Headrest center (normal type) | 30. Headrest center (long type) |
| 31. Seatback duct C | 32. Seatback duct B | 33. Ventilation motor (seatback) |
| 34. Blower filter | 35. Seatback duct A | 36. Ventilation seat control unit |

Refer to [GI-4, "Components"](#) for symbols in the figure.

Removal and Installation

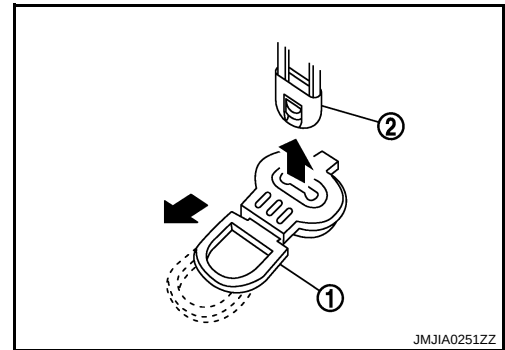
INFOID:000000003809279

REMOVAL

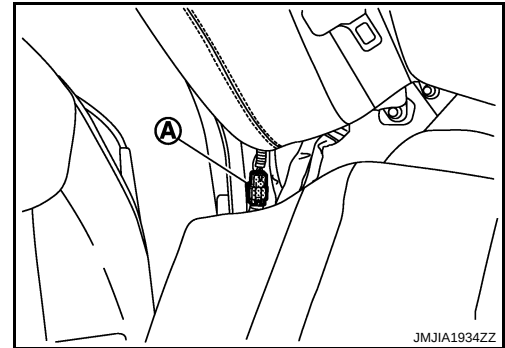
CAUTION:

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

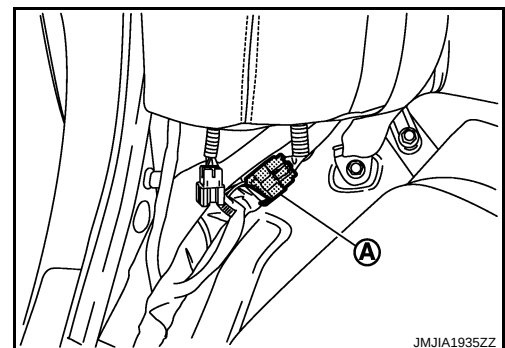
1. Remove the headrest.
2. Remove the seat cushion.
 - Pull the lock lever (1) at the front bottom of the seat cushion forward (1 for each side), and pull the seat cushion upward to release the wire (2) from the seat cushion hook. Then pull the seat cushion forward to remove.



- Disconnect the harness connectors (A).



3. Remove the seatback.
 - Remove the bolts under seatback.
 - Disconnect the harness connectors (A).



REAR SEAT

< ON-VEHICLE REPAIR >

[WITH VENTILATION SEAT]

- Lift up seatback from underneath, and then remove seatback from seatback hook that is fixed to the vehicle.
- Remove the seatback from the vehicle.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

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

Disassembly and Assembly

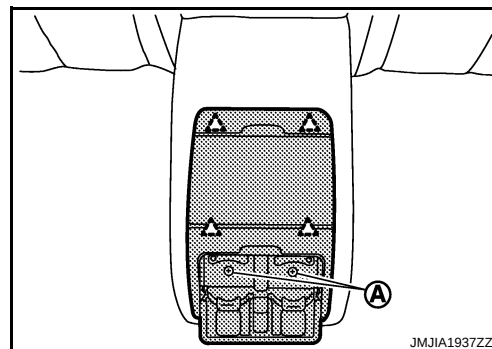
INFOID:000000003809280

SEATBACK

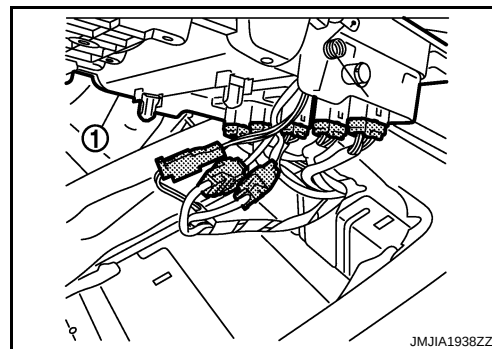
Disassembly

1. Remove armrest assembly.
 - Remove the screws (A) and pawls.

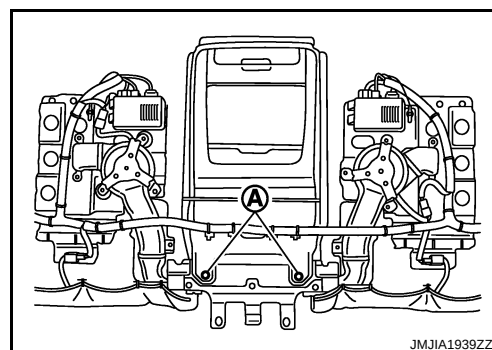
 : Pawl



- Disconnect the connectors, and then remove cup holder (1).



- Remove the bolts (A), and then remove armrest retainer.



- Remove the harness clamp in the armrest and pull out seat harness.
 - Remove the armrest assembly.
2. Remove the seatback trim.
 - Remove the screws, and then seat belt hook.

REAR SEAT

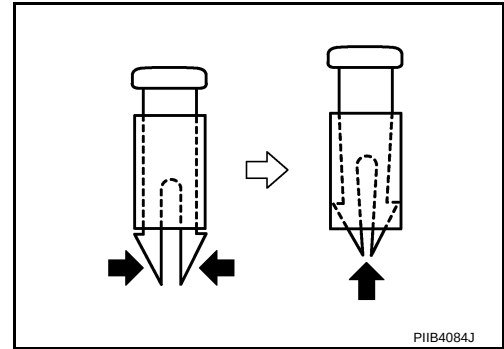
< ON-VEHICLE REPAIR >

[WITH VENTILATION SEAT]

- Remove the headrest holder.

CAUTION:

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



- Remove the hog rings, and then remove seatback center pad.
- Remove the hog rings to separate the seatback trim and seatback pad.
- Remove the seatback heater unit.

Assembly

Assemble in the reverse order of disassembly.

SEAT CUSHION

Disassembly

Remove the seat cushion trim.

- Remove the hog rings, and separate the seat cushion trim and seat cushion pad.
- Remove the seat cushion heater unit.

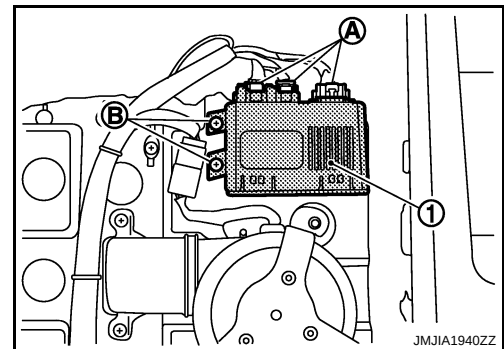
Assembly

Assemble in the reverse order of disassembly.

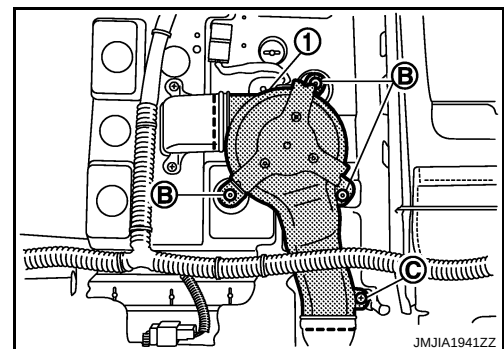
VENTILATION UNIT

Disassembly

- Remove the ventilation seat control unit.
 - Disconnect the harness connectors (A).
 - Remove the screws (B), and then remove ventilation seat control unit (1).



- Remove the seatback duct A.
Remove the nuts (B) and screw (C), and then remove seatback duct A (1).



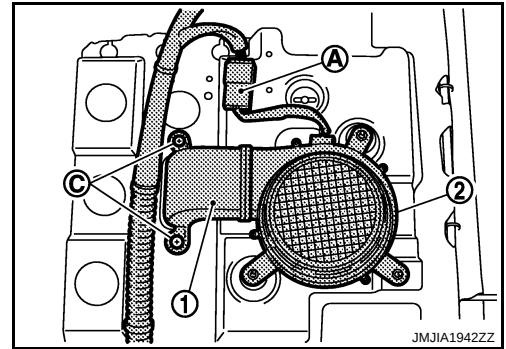
- Remove the seatback duct B ventilation motor (seatback).

REAR SEAT

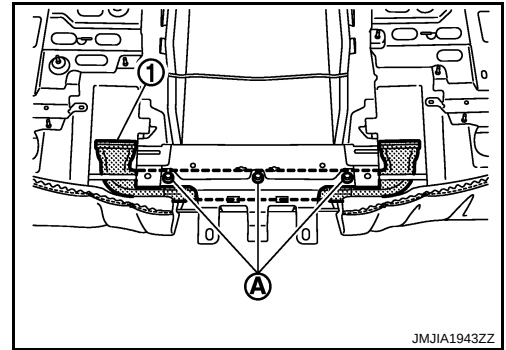
< ON-VEHICLE REPAIR >

[WITH VENTILATION SEAT]

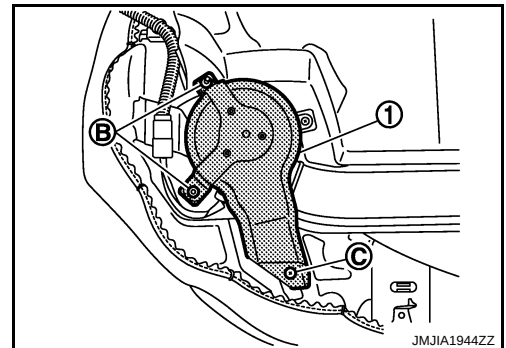
- Disconnect the harness connector (A).
- Remove the screws (C), and then remove seatback duct B (1) and ventilation motor (seatback) (2).



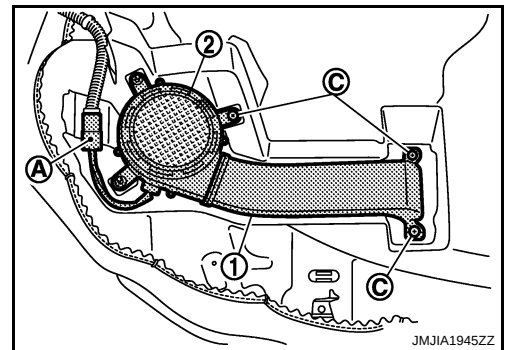
4. Remove the seatback duct C.
- Remove the hob rings, and then remove seatback center pad.
 - Remove the nuts (A), and then remove seatback duct C (1).



5. Remove the seat cushion duct A.
- Remove the nuts (B) and screw (C), and then seat cushion duct A (1).



6. Remove the seat cushion duct B and ventilation motor (seat cushion).
- Disconnect the harness connector (A).
 - Remove the screws (C), and then remove seat cushion duct B (1) and ventilation motor (seat cushion) (2).



Assembly

Assemble in the reverse order of disassembly.

POWER SEAT SWITCH

< ON-VEHICLE REPAIR >

[WITH VENTILATION SEAT]

POWER SEAT SWITCH

Exploded View

INFOID:000000003849136

Refer to [SE-89, "Exploded View"](#).

Removal and Installation

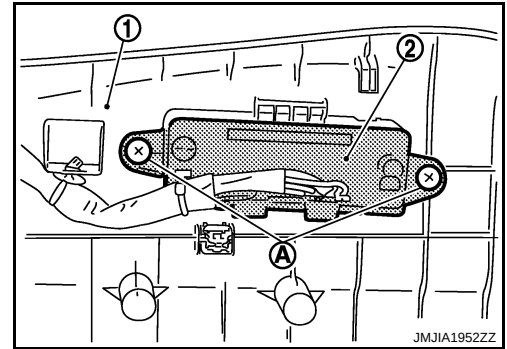
INFOID:000000003849137

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-92, "Removal and Installation"](#).
2. Remove switch knob.
3. Remove screws (A).
4. 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.

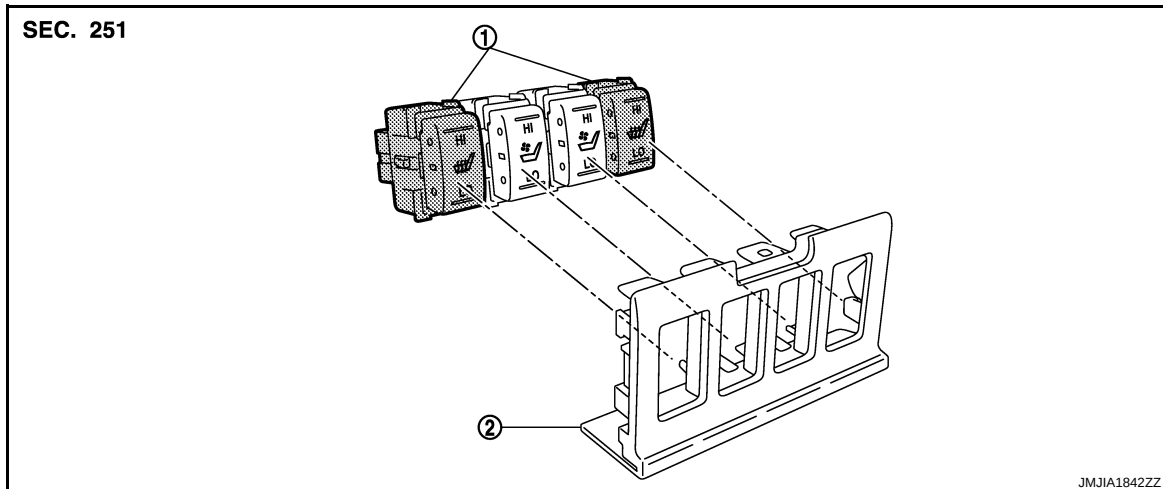
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SE

HEATED SEAT SWITCH FRONT SEAT

FRONT SEAT : Exploded View

INFOID:000000003849128



1. Heated seat switch (front seat)
2. Console switch finisher

FRONT SEAT : Removal and Installation

INFOID:000000003849129

REMOVAL

CAUTION:

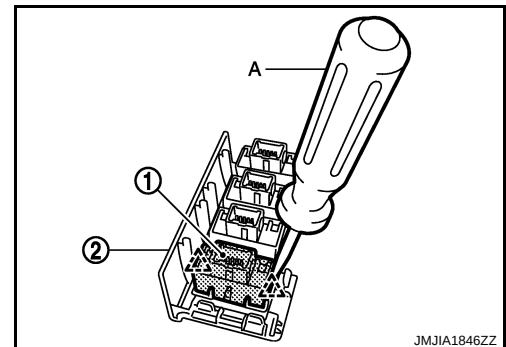
When removing and installing, use shop cloths to protect from damage.

1. Remove the console switch finisher (2). Refer to [IP-22, "Exploded View"](#)
2. Remove heated seat switch (driver side) (1) from console switch finisher, with flat- bladed screw driver (A).

 : Pawl

NOTE:

The same procedure is also performed for passenger side.



INSTALLATION

Install in the reverse order of removal.

REAR SEAT

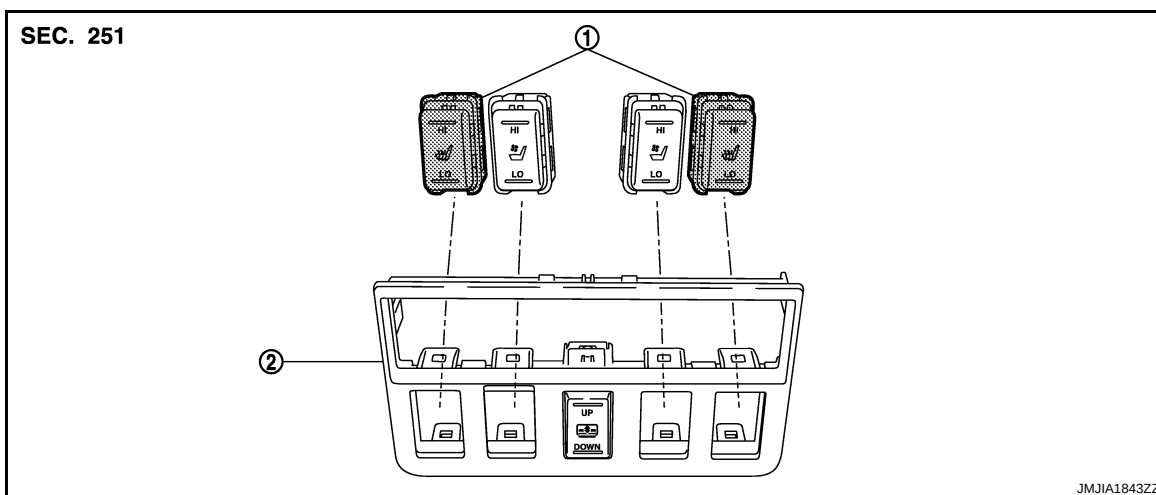
HEATED SEAT SWITCH

< ON-VEHICLE REPAIR >

[WITH VENTILATION SEAT]

REAR SEAT : Exploded View

INFOID:000000003849130



1. Heated seat switch (rear seat) 2. Switch panel

REAR SEAT : Removal and Installation

INFOID:000000003849131

REMOVAL

CAUTION:

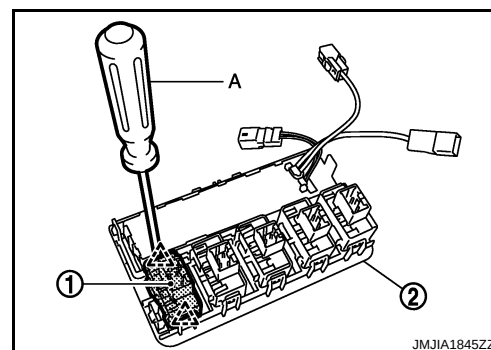
When removing and installing, use shop cloths to protect from damage.

1. Remove the switch panel (2). Refer to [SE-98, "Exploded View"](#)
2. Remove heated seat switch (rear LH side) (1) from switch panel, with flat-bladed screw driver (A).

 : Pawl

NOTE:

The same procedure is also performed for rear RH side.



INSTALLATION

Install in the reverse order of removal.

VENTILATION SEAT SWITCH

< ON-VEHICLE REPAIR >

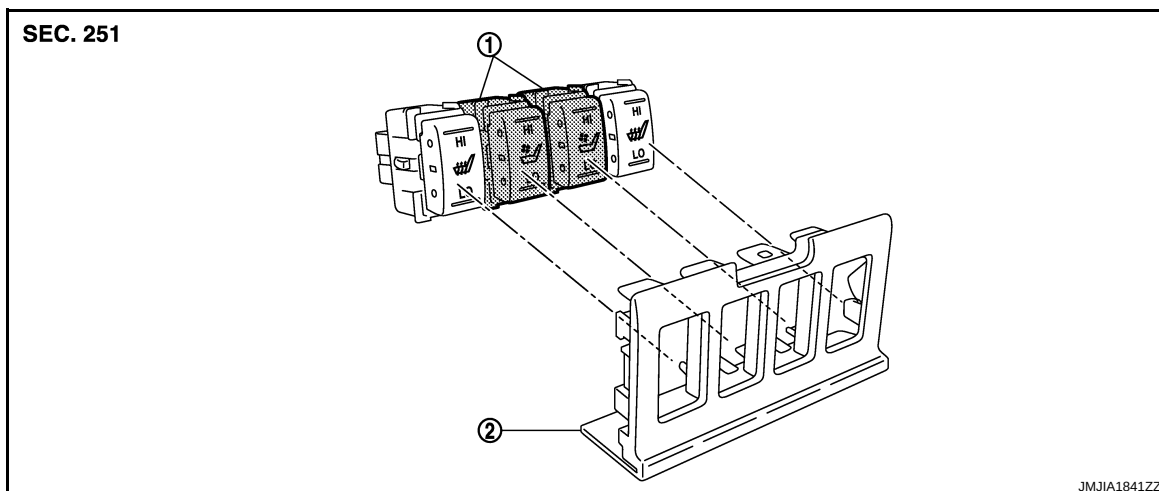
[WITH VENTILATION SEAT]

VENTILATION SEAT SWITCH

FRONT SEAT

FRONT SEAT : Exploded View

INFOID:000000003849132



1. Ventilation seat switch (driver seat) 2. Console switch finisher

FRONT SEAT : Removal and Installation

INFOID:000000003849133

REMOVAL

CAUTION:

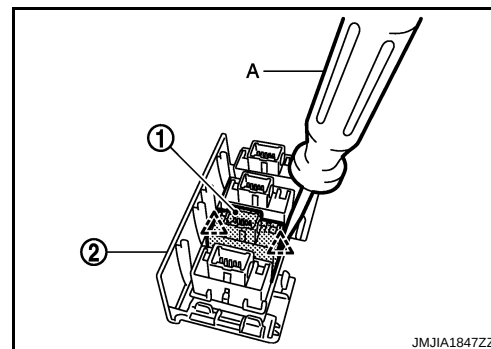
When removing and installing, use shop cloths to protect from damage.

1. Remove the console switch finisher (2). Refer to [IP-22, "Exploded View"](#)
2. Remove ventilation seat switch (driver side) (1) from console switch finisher. With flat bladed screw driver (A).

 : Pawl

NOTE:

The same procedure is also performed for passenger side.



INSTALLATION

Install in the reverse order of removal.

REAR SEAT

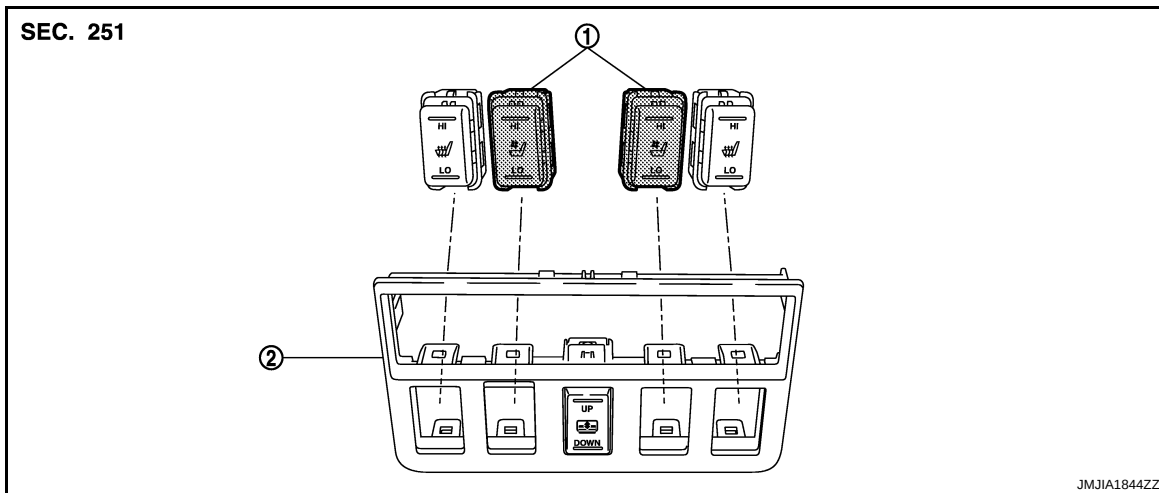
VENTILATION SEAT SWITCH

< ON-VEHICLE REPAIR >

[WITH VENTILATION SEAT]

REAR SEAT : Exploded View

INFOID:000000003849134



1. Ventilation seat switch (rear seat) 2. Switch panel

REAR SEAT : Removal and Installation

INFOID:000000003849135

REMOVAL

CAUTION:

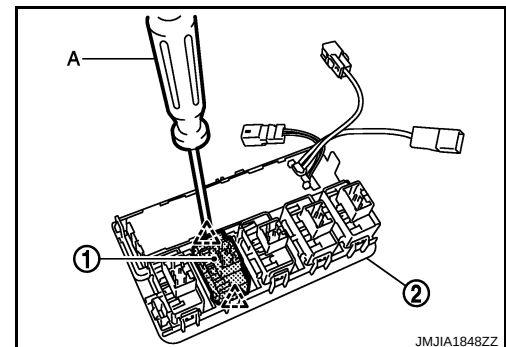
When removing and installing, use shop cloths to protect from damage.

1. Remove the switch panel (2). Refer to [SE-98, "Exploded View"](#)
2. Remove heated seat switch (rear LH side) (1) from switch panel. With flat bladed screw driver (A).

 : Pawl

NOTE:

The same procedure is also performed for rear RH side.



INSTALLATION

Install in the reverse order of removal.

FUNCTION DIAGNOSIS

POWER SEAT

System Description

INFOID:000000003839942

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 adjusts the front and back position of the seat.

RECLINING OPERATION

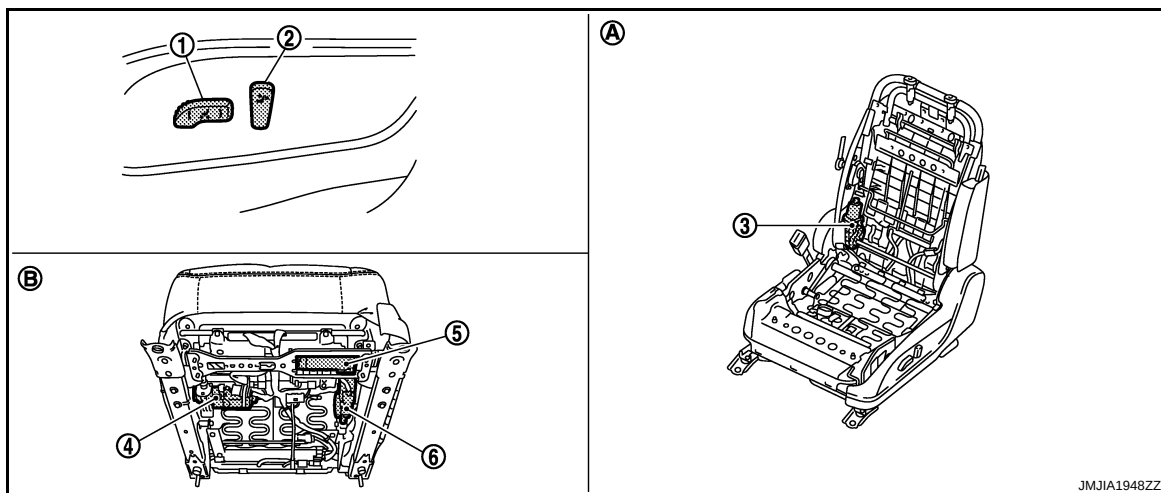
While operating the reclining switch located in power seat switch, reclining motor operates and adjusts the forward and backward position of the seatback.

LIFTING OPERATION

While operating the lifting switch located in power seat switch (driver side), lifting motor operates and adjusts the up and down position of the seat cushion.

Component Parts Location

INFOID:000000003839943



- | | | |
|--|---|--|
| 1. Sliding switch and lifting switch (driver side) B414 | 2. Reclining switch (driver side) B414 | 3. Reclining motor (driver side) B415 |
| 4. Lifting motor (front) (driver side) B417 | 5. Sliding motor (driver side) B416 | 6. Lifting motor (rear) (driver side) B418 |
| A. View with seat cushion pad and seat-back pad are removed. | B. Backside of seat cushion (driver side) | |

Component Description

INFOID:000000003839944

Item	Function
BCM	Supplies at all times the power received from battery to power seat switch
Power seat switch (driver side)	Built-in reclining switch, sliding switch and lifting switch, controls the power supplied to each motor
Power seat switch (passenger side)	Built-in reclining switch, sliding switch, controls the power supplied to each motor
Reclining motor	With the power supplied from power seat switch, operates forward and backward movement of seatback

POWER SEAT

< FUNCTION DIAGNOSIS >

[WITHOUT VENTILATION SEAT]

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

A

B

C

D

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HEATED SEAT

< FUNCTION DIAGNOSIS >

[WITHOUT VENTILATION SEAT]

HEATED SEAT

System Description

INFOID:000000003839949

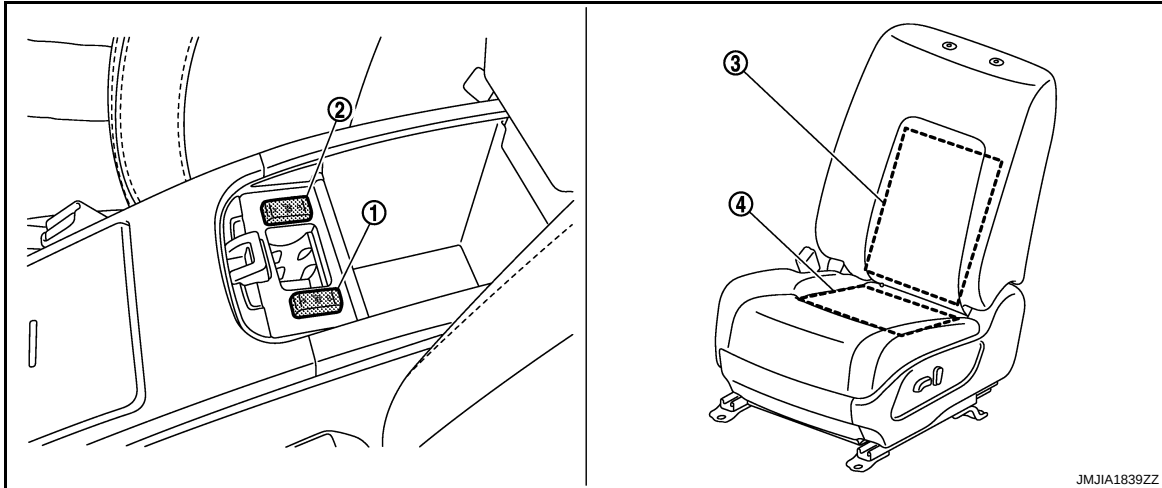
Heated seat is a system that operates when ignition switch is in the ON position.

HEATER OPERATION

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

Component Parts Location

INFOID:000000003839950



1. Front heated seat switch (driver side) M202
2. Front heated seat switch (passenger side) M203
3. Seatback heater
 - Driver side B464
 - Passenger side B433
4. Seat cushion heater
 - Driver side B463
 - Passenger side B432

Component Description

INFOID:000000003839951

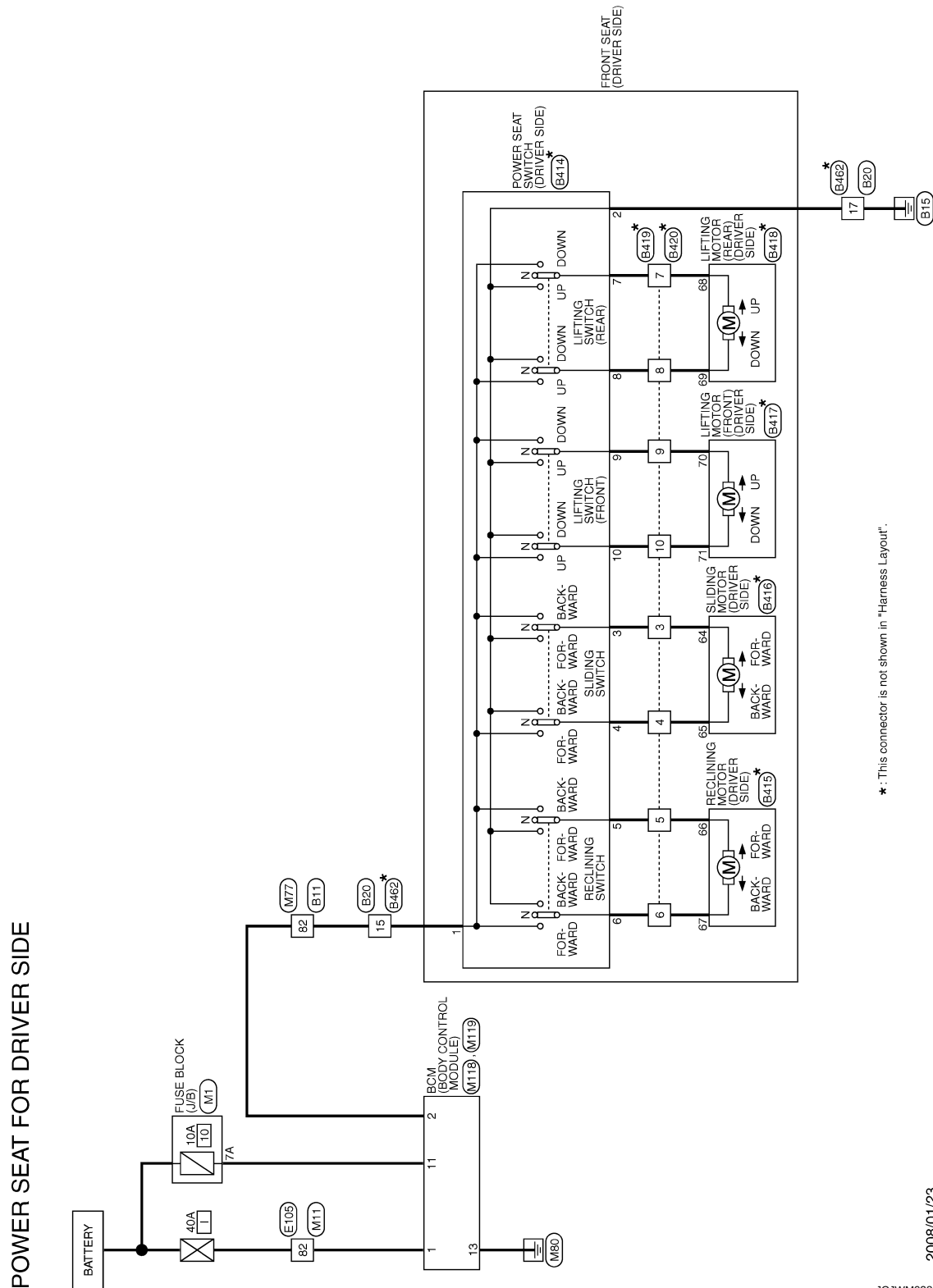
Item	Function
Heated seat switch	• Power is supplied to each heater • Depending on LO/HI position of switch, the temperature is changeable
Seat cushion heater	Built-in seat cushion, heater operates with the power supplied from heater seat switch
Seatback heater	Built-in seatback, heater operates with the power supplied from heater seat switch

COMPONENT DIAGNOSIS

POWER SEAT

Wiring Diagram - POWER SEAT FOR DRIVER SIDE -

INFOID:000000003941312



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

2008/01/23

JCJWM0281GE

POWER SEAT

< COMPONENT DIAGNOSIS >

[WITHOUT VENTILATION SEAT]

POWER SEAT FOR DRIVER SIDE

Connector No.	B11
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS19



Terminal No.	Color of Wire	Signal Name [Specification]
82	BR	-

Connector No.	B20
Connector Name	WIRE TO WIRE
Connector Type	TK10FW-HS8



Terminal No.	Color of Wire	Signal Name [Specification]
15	BR	-
17	B/W	-

Connector No.	B414
Connector Name	POWER SEAT SWITCH (DRIVER SIDE) (WITHOUT AUTOMATIC DRIVE POSITIONER)
Connector Type	NS10FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	B	-
3	G	-
4	G/R	-
5	V	-
6	R/L	-
7	L	-
8	L/W	-
9	L/R	-
10	L/B	-

Connector No.	B415
Connector Name	RECLINING MOTOR (DRIVER SIDE) (WITHOUT AUTOMATIC DRIVE POSITIONER)
Connector Type	F 6098-0239



Terminal No.	Color of Wire	Signal Name [Specification]
66	V	-
67	R/L	-

Connector No.	B416
Connector Name	SLIDING MOTOR (DRIVER SIDE) (WITHOUT AUTOMATIC DRIVE POSITIONER)
Connector Type	F 6098-0344



Connector No.	B417
Connector Name	LIFTING MOTOR (FRONT) (DRIVER SIDE) (WITHOUT AUTOMATIC DRIVE POSITIONER)
Connector Type	F 6098-0239



Connector No.	B418
Connector Name	LIFTING MOTOR (REAR) (DRIVER SIDE) (WITHOUT AUTOMATIC DRIVE POSITIONER)
Connector Type	F 6098-0239



Connector No.	B419
Connector Name	WIRE TO WIRE
Connector Type	NS10MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
64	G	-
65	G/R	-

Terminal No.	Color of Wire	Signal Name [Specification]
70	L/R	-
71	L/B	-

Terminal No.	Color of Wire	Signal Name [Specification]
68	L	-
69	L/W	-

Terminal No.	Color of Wire	Signal Name [Specification]
3	G	-
4	G/R	-
5	V	-
6	R/L	-
7	L	-
8	L/W	-
9	L/R	-
10	L/B	-

JC3WM0282GE

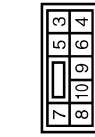
POWER SEAT

< COMPONENT DIAGNOSIS >

[WITHOUT VENTILATION SEAT]

POWER SEAT FOR DRIVER SIDE

Connector No.	B420
Connector Name	WIRE TO WIRE
Connector Type	NS08FW-CS



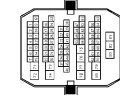
Terminal No.	Color of Wire	Signal Name [Specification]
3	G	-
4	G/R	-
5	V	-
6	R/L	-
7	L	-
8	L/W	-
9	L/R	-
10	L/B	-

Connector No.	B462
Connector Name	WIRE TO WIRE
Connector Type	TK10MP-HS3



Terminal No.	Color of Wire	Signal Name [Specification]
15	R	-
17	B	-

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH70MF-CS10-M3



Terminal No.	Color of Wire	Signal Name [Specification]
82	LG	-

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS08FW-M2



Terminal No.	Color of Wire	Signal Name [Specification]
7A	Y/R	-

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH70FW-CS10-M3



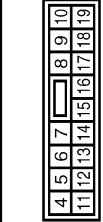
Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS19



Connector No.	M118
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	MD08FE-LC



Connector No.	M119
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS16FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
82	W/B	-

Terminal No.	Color of Wire	Signal Name [Specification]
82	R/Y	-[Without automatic drive positioner]

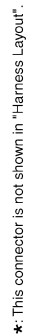
Terminal No.	Color of Wire	Signal Name [Specification]
1	W/B	BAT (F/L)
2	R/Y	POWER WINDOW POWER SUPPLY (BAT)

Terminal No.	Color of Wire	Signal Name [Specification]
11	Y/R	BAT (FUSE)
13	B	GND

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SE-114

INFOID:0000000003941313



JCJWM0284GE

POWER SEAT

< COMPONENT DIAGNOSIS >

[WITHOUT VENTILATION SEAT]

POWER SEAT FOR PASSENGER SIDE

Connector No.	B214
Connector Name	WIRE TO WIRE
Connector Type	TK0FW-NS3



10	9	8	7	6	5	4	3	2	1
18	17	16	15	14	13	12	11		

Terminal No.	Color of Wire	Signal Name [Specification]
15	O	-
17	B/Y	-

Connector No.	B216
Connector Name	WIRE TO WIRE
Connector Type	NS16MR-CS



1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16					

Terminal No.	Color of Wire	Signal Name [Specification]
16	O	-

Connector No.	B431
Connector Name	WIRE TO WIRE
Connector Type	TK10MW-NS3



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18		

Terminal No.	Color of Wire	Signal Name [Specification]
15	R	-
17	B	-

Connector No.	B434
Connector Name	POWER SEAT SWITCH (PASSENGER SIDE) (WITHOUT FRONT VENTILATION SEAT)
Connector Type	NS30FW-CS



4	6
3	2
1	5

Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	B	-
3	G	-
4	G/R	-
5	V	-
6	R/L	-

Connector No.	B435
Connector Name	RECLINING MOTOR (PASSENGER SIDE)
Connector Type	F 6098-0239



66	67
----	----

Connector No.	B438
Connector Name	SLIDING MOTOR (PASSENGER SIDE) (WITHOUT FRONT VENTILATION SEAT)
Connector Type	F 6098-0344



64	65
----	----

Connector No.	B437
Connector Name	SLIDING MOTOR (PASSENGER SIDE) (WITH FRONT VENTILATION SEAT)
Connector Type	F 6098-0239



64	65
----	----

Connector No.	B438
Connector Name	WIRE TO WIRE
Connector Type	NS30MW-CS



3	5	6
4	6	7
8		

Terminal No.	Color of Wire	Signal Name [Specification]
66	V	-
67	R/L	-

Terminal No.	Color of Wire	Signal Name [Specification]
64	G	-
65	G/R	-

Terminal No.	Color of Wire	Signal Name [Specification]
64	G	-
65	G/R	-

Terminal No.	Color of Wire	Signal Name [Specification]
3	G	-
4	G/R	-
5	V	-
6	R/L	-
7	L	-
8	L/W	-

JCJWM0285GE

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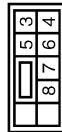
POWER SEAT

< COMPONENT DIAGNOSIS >

[WITHOUT VENTILATION SEAT]

POWER SEAT FOR PASSENGER SIDE

Connector No.	B439
Connector Name	WIRE TO WIRE
Connector Type	NS06FW-CS



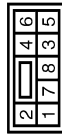
Terminal No.	Color of Wire	Signal Name [Specification]
3	G	-
4	G/R	-
5	V	-
6	R/L	-
7	L	-
8	L/W	-

Connector No.	B445
Connector Name	OTTOMAN MOTOR (PASSENGER SIDE)
Connector Type	M02FW-GY



Terminal No.	Color of Wire	Signal Name [Specification]
68	L	-
69	L/W	-

Connector No.	B446
Connector Name	POWER SEAT SWITCH (PASSENGER SIDE) (WITH FRONT VENTILATION SEAT)
Connector Type	NS06FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	B	-
3	G	-
4	G/R	-
5	V	-
6	R/L	-
7	L	-
8	L/W	-

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH70MM-CS10-M3



Terminal No.	Color of Wire	Signal Name [Specification]
82	LG	-

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS06FW-M2



Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH70FW-CS10-M3



Connector No.	M70
Connector Name	WIRE TO WIRE
Connector Type	NS16FB-CS



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



Terminal No.	7A
Color of Wire	Y/R
Signal Name [Specification]	-

Terminal No.	82
Color of Wire	W/B
Signal Name [Specification]	-

Terminal No.	18
Color of Wire	R/Y
Signal Name [Specification]	-

Terminal No.	1
Color of Wire	W/B
Signal Name [Specification]	BAT (F/L)
Terminal No.	2
Color of Wire	R/Y
Signal Name [Specification]	POWER WINDOW POWER SUPPLY (BAT)

JC3WM0286GE

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POWER SEAT FOR PASSENGER SIDE

Connector No.	IM119
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	MS16FW-CS



4	5	6	7		8	9	10	
11	12	13	14	15	16	17	18	19

Terminal No.	Color of Wire	Signal Name [Specification]
11	Y/R	BAT (FUSE)
13	B	GND

JCJWM0287GE

HEATED SEAT

< COMPONENT DIAGNOSIS >

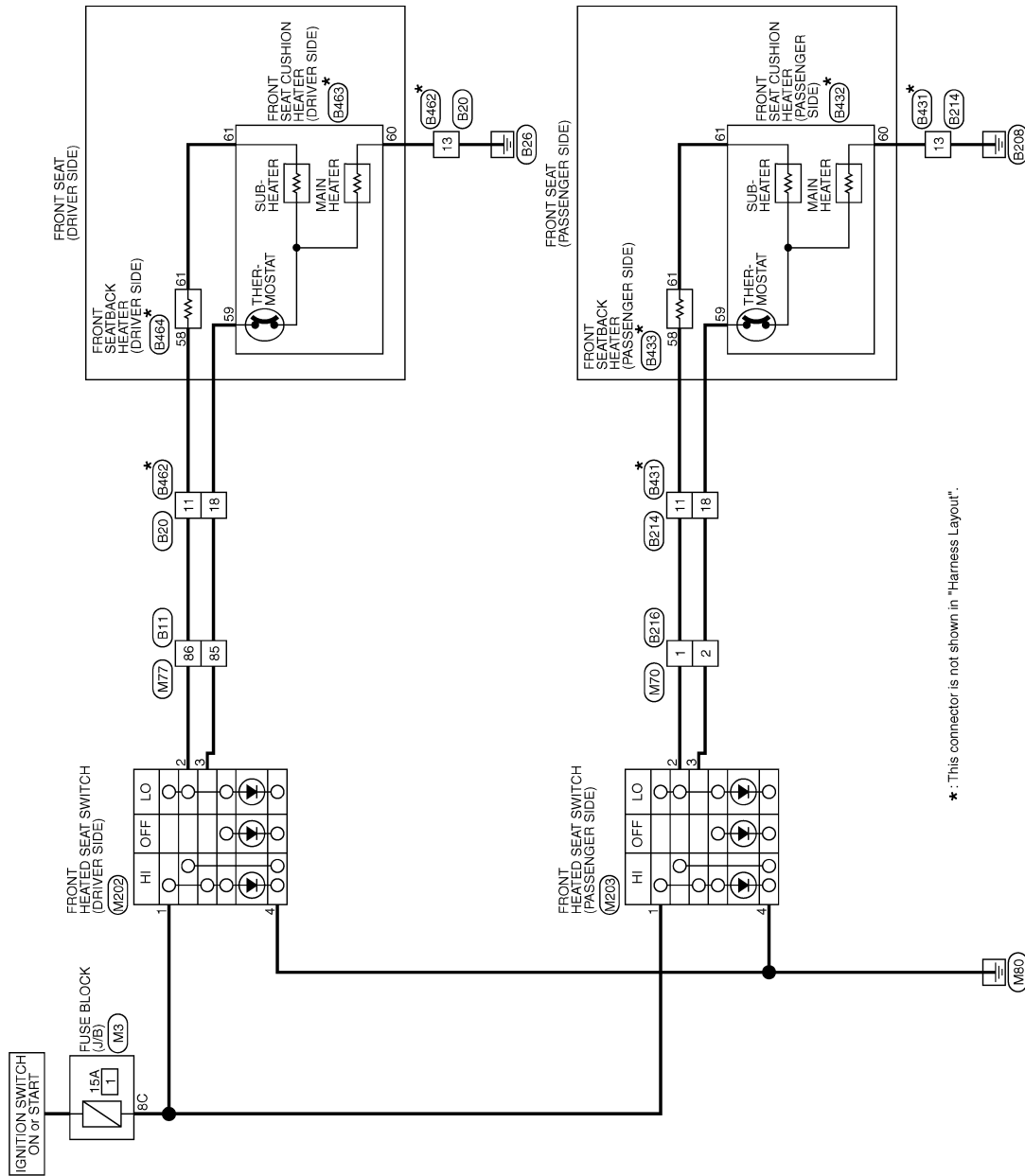
[WITHOUT VENTILATION SEAT]

HEATED SEAT

Wiring Diagram - HEATED SEAT -

INFOID:000000003840009

FRONT HEATED SEAT (WITHOUT VENTILATION SEAT)



2008/01/23

JCJWM0294GE

HEATED SEAT

< COMPONENT DIAGNOSIS >

[WITHOUT VENTILATION SEAT]

FRONT HEATED SEAT (WITHOUT VENTILATION SEAT)

Connector No.	B11
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS19



Terminal No.	Color of Wire	Signal Name [Specification]
85	O	—[Without front ventilation seat]
86	G	—[Without front ventilation seat]

Connector No.	B20
Connector Name	WIRE TO WIRE
Connector Type	TK10PW-NS8



Terminal No.	Color of Wire	Signal Name [Specification]
11	G	—[Without front ventilation seat]
13	B/Y	—
18	O	—[Without front ventilation seat]

Connector No.	B214
Connector Name	WIRE TO WIRE
Connector Type	TK10PW-NS8



Terminal No.	Color of Wire	Signal Name [Specification]
11	G	—[Without front ventilation seat]
13	B/R	—
18	GR	—[Without front ventilation seat]

Connector No.	B216
Connector Name	WIRE TO WIRE
Connector Type	NS18MER-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	—[Without front ventilation seat]
2	GR	—[Without front ventilation seat]

Connector No.	B431
Connector Name	WIRE TO WIRE
Connector Type	TK10MW-NS8



Connector No.	B432
Connector Name	FRONT SEAT CUSHION HEATER (PASSENGER SIDE)
Connector Type	NS30MW-CS



Connector No.	B433
Connector Name	FRONT SEATBACK HEATER (PASSENGER SIDE)
Connector Type	NS02MW-CS



Connector No.	B462
Connector Name	WIRE TO WIRE
Connector Type	TK10MW-NS8



Terminal No.	Color of Wire	Signal Name [Specification]
11	B/R	—[Without front ventilation seat]
13	R/B	—[Without front ventilation seat]
18	W/R	—[Without front ventilation seat]

Terminal No.	Color of Wire	Signal Name [Specification]
59	W/R	—
60	R/B	—
61	Y	—[Without front ventilation seat]

Terminal No.	Color of Wire	Signal Name [Specification]
59	B/R	—
61	Y	—[Without front ventilation seat]

Terminal No.	Color of Wire	Signal Name [Specification]
11	B/R	—[Without front ventilation seat]
13	R/B	—[Without front ventilation seat]
18	W/R	—[Without front ventilation seat]

HEATED SEAT

< COMPONENT DIAGNOSIS >

[WITHOUT VENTILATION SEAT]

FRONT HEATED SEAT (WITHOUT VENTILATION SEAT)

Connector No.	B463
Connector Name	FRONT SEAT CUSHION HEATER (DRIVER SIDE)
Connector Type	NS33MW-CS



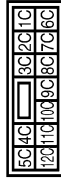
Terminal No.	Color of Wire	Signal Name [Specification]
59	W/R	-
60	R/B	-
61	L	-

Connector No.	B464
Connector Name	FRONT SEATBACK HEATER (DRIVER SIDE)
Connector Type	NS02MH-CS



Terminal No.	Color of Wire	Signal Name [Specification]
58	B/R	-
61	L	-

Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
8C	G/R	-

Connector No.	M70
Connector Name	WIRE TO WIRE
Connector Type	NS16FBR-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	GR/G	-[Without front ventilation seat]
2	GR/G	-[Without front ventilation seat]

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH60FW-CS19



Connector No.	M202
Connector Name	FRONT HEATED SEAT SWITCH (DRIVER SIDE) (WITHOUT FRONT VENTILATION SEAT)
Connector Type	NS00FW-CS



Connector No.	M203
Connector Name	FRONT HEATED SEAT SWITCH (PASSENGER SIDE) (WITHOUT FRONT VENTILATION SEAT)
Connector Type	NS00FBR-CS



Terminal No.	Color of Wire	Signal Name [Specification]
85	GR/R	-[Without front ventilation seat]
86	GR	-[Without front ventilation seat]

Terminal No.	Color of Wire	Signal Name [Specification]
1	G/R	-
2	GR	-
3	GR/R	-
4	B/Y	-

Terminal No.	Color of Wire	Signal Name [Specification]
1	G/R	-
2	GR/G	-
3	GR/G	-
4	B/Y	-

JC3WM0296GE

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

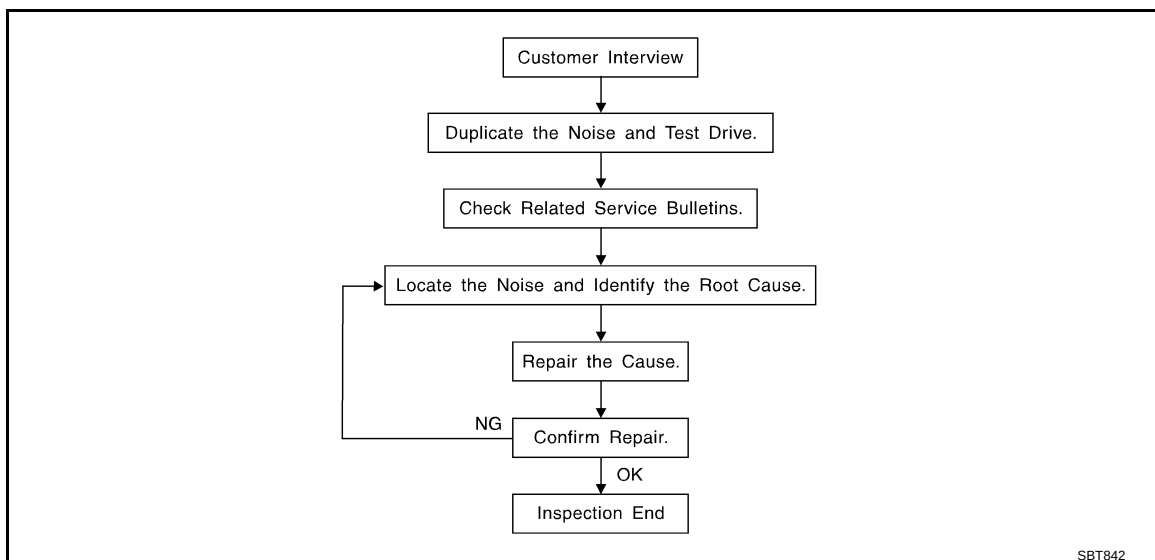
[WITHOUT VENTILATION SEAT]

SYMPTOM DIAGNOSIS

SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow

INFOID:000000003940140



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 the customer's comments; refer to [SE-125. "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, be sure to diagnose and repair the noise that the customer is concerned about. This can be accomplished by a test drive 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 bumble bee)
Buzz characteristics include high frequency rattle/firm contact.
- Often the degree of acceptable noise level will vary depending upon 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

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITHOUT VENTILATION SEAT]

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.

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

- 1) Close a door.
 - 2) Tap or push/pull around the area where the noise appears to be coming from.
 - 3) Rev the engine.
 - 4) Use a floor jack to recreate vehicle "twist".
 - 5) At idle, apply engine load (electrical load, half-clutch on M/T model, drive position on A/T model).
 - 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.

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 (Engine Ear or 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 temporarily.
 - 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 is are suspected to be the cause of the noise.
 - Looking for loose components and contact marks.
Refer to [SE-123. "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. These insulators are available through the authorized Nissan Parts Department.

CAUTION:

Never use excessive force as many components are constructed of plastic and may be damaged.

NOTE:

- URETHANE PADS
Insulates connectors, harness, etc.
- INSULATOR (Foam blocks)
Insulates components from contact. Can be used to fill space behind a panel.
- INSULATOR (Light foam block)
- FELT CLOTHTAPE
Used to insulate where movement does not occur. Ideal for instrument panel applications.
The following materials, not available through NISSAN Parts Department, can also be used to repair squeaks and rattles.
- UHMW(TEFLON) TAPE
Insulates where slight movement is present. Ideal for instrument panel applications.
- SILICONE GREASE
Used in place of UHMW tape that is be visible or does not fit.
Note: Will only last a few months.
- SILICONE SPRAY
Used when grease cannot be applied.
- DUCT TAPE
Used to eliminate movement.

CONFIRM THE REPAIR

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITHOUT VENTILATION SEAT]

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:000000003940141

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

INSTRUMENT PANEL

Most incidents are caused by contact and movement between:

1. 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
2. A/C control unit and cluster lid C
3. Wiring harnesses behind audio and A/C control unit

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

DOORS

Pay attention to the following:

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

Tapping or moving the components or pressing on them while driving to duplicate the conditions can isolate many of these incidents. The areas can usually be insulated with felt cloth tape or insulator foam blocks 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
2. Trunk lid striker out of adjustment
3. Trunk lid torsion bars knocking together
4. A loose license plate or bracket

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

SUNROOF/HEADLINING

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

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

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITHOUT VENTILATION SEAT]

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 is important to note the position the seat is 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. 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
3. Engine wall mounts and connectors
4. Loose radiator mounting pins
5. Hood bumpers out of adjustment
6. Hood striker out of adjustment

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

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITHOUT VENTILATION SEAT]

Diagnostic Worksheet

INFOID:000000003940142



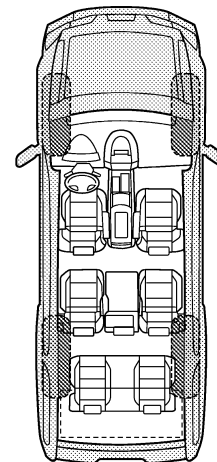
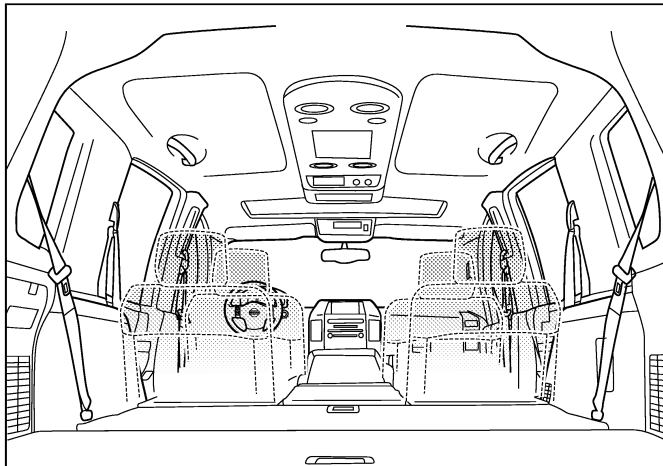
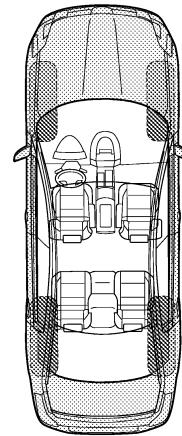
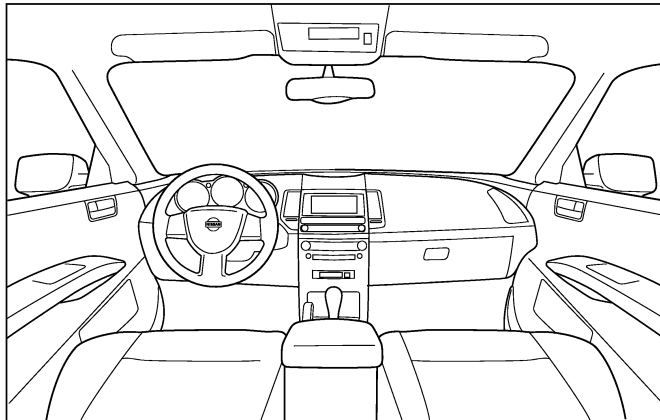
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

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

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITHOUT VENTILATION SEAT]

SQUEAK & RATTLE DIAGNOSTIC WORKSHEET - page 2

Briefly describe the location where the noise occurs:

II. WHEN DOES IT OCCUR? (please check the boxes that apply)

- | | |
|---|--|
| ☐ anytime | ☐ 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:

- ☐ through driveways
- ☐ over rough roads
- ☐ over speed bumps
- ☐ only about ____ mph
- ☐ on acceleration
- ☐ coming to a stop
- ☐ on turns: left, right or either (circle)
- ☐ with passengers or cargo
- ☐ other: _____
- ☐ after driving ____ miles or ____ minutes

IV. WHAT TYPE OF NOISE

- ☐ squeak (like tennis shoes on a clean floor)
- ☐ creak (like walking on an old wooden floor)
- ☐ rattle (like shaking a baby rattle)
- ☐ knock (like a knock at the door)
- ☐ tick (like a clock second hand)
- ☐ thump (heavy, muffled knock noise)
- ☐ buzz (like a bumble bee)

TO BE COMPLETED BY DEALERSHIP PERSONNEL

Test Drive Notes:

	YES	NO	Initials of person performing
Vehicle test driven with customer	☐	☐	_____
- Noise verified on test drive	☐	☐	_____
- Noise source located and repaired	☐	☐	_____
- Follow up test drive performed to confirm repair	☐	☐	_____

VIN: _____ Customer Name: _____
W.O.# _____ Date: _____

This form must be attached to Work Order

PIIB8742E

PRECAUTION

PRECAUTIONS

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

INFOID:000000003940150

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. 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.

Precaution Necessary for Steering Wheel Rotation after Battery Disconnect

INFOID:000000003885171

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.)
6. Perform self-diagnosis check of all control units using CONSULT-III.

Service Notice

INFOID:000000003840019

- 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.

PRECAUTIONS

< PRECAUTION >

[WITHOUT VENTILATION SEAT]

- When replacing any metal parts (for example body outer panel, members, etc.), be sure to take rust prevention measures.

Precaution for Work

INFOID:000000003840020

- 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.

PREPARATION

< PREPARATION >

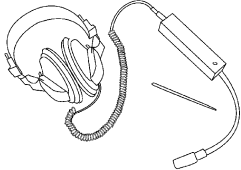
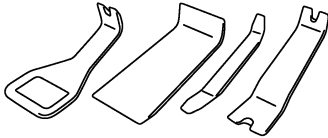
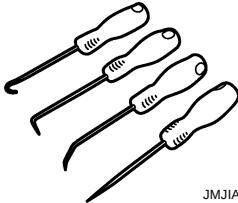
[WITHOUT VENTILATION SEAT]

PREPARATION

PREPARATION

Commercial Service Tools

INFOID:000000003840022

Tool name	Description
Engine ear  SIA0995E	Locating the noise
Remover tool  PIIB7923J	Removes clips, pawls, metal clips
Hook and pick tool  JMJIA0490ZZ	Removes the snap pins

A

B

C

D

E

F

G

H

I

SE

K

L

M

N

O

P

FRONT SEAT

< ON-VEHICLE REPAIR >

[WITHOUT VENTILATION SEAT]

ON-VEHICLE REPAIR

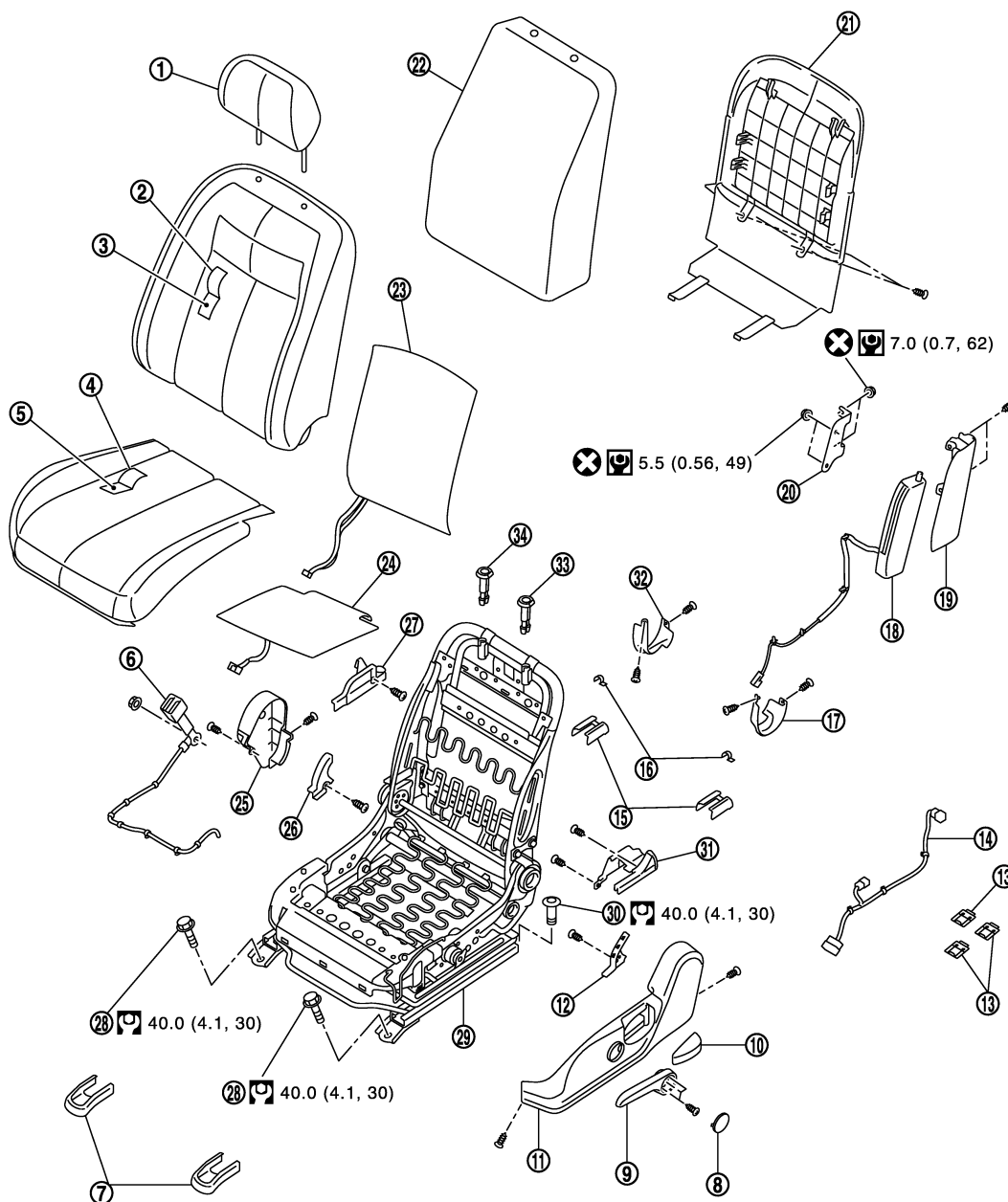
FRONT SEAT

Exploded View

INFOID:000000003840023

MANUAL SEAT

SEC. 870



JMJIA1713GB

- | | | |
|--------------------------|---------------------------------|--|
| 1. Headrest | 2. Seatback trim | 3. Seatback pad |
| 4. Seat cushion trim | 5. Seat cushion pad | 6. Seat belt buckle |
| 7. Front slide cover | 8. Lifter lever knob cap | 9. Lifter lever knob |
| 10. Reclining lever knob | 11. Seat cushion outer finisher | 12. Seat cushion outer finisher inside |

FRONT SEAT

< ON-VEHICLE REPAIR >

[WITHOUT VENTILATION SEAT]

13. Seat harness clamp

14. Seat harness

15. Rear slide cover
16. End cap

17. Reclining device outer cover

18. Side air bag module
19. Seatback finisher

20. Side air bag module bracket

21. Seatback board
22. Seatback silencer

23. Seatback heater unit

24. Seat cushion heater unit
25. Seat cushion inner finisher

26. Seat cushion inner finisher inside

27. Seat slide inner cover
28. TORX bolt

29. Seat frame assembly

30. TORX bolt
31. Seat slide outer cover

32. Reclining device inner cover

33. Headrest holder (locked)
34. Headrest holder (free)

Refer to [GI-4. "Components"](#) for symbols in the figure.

DRIVER'S POWER SEAT

A

B

C

D

E

F

G

H

I

SE

K

L

M

N

O

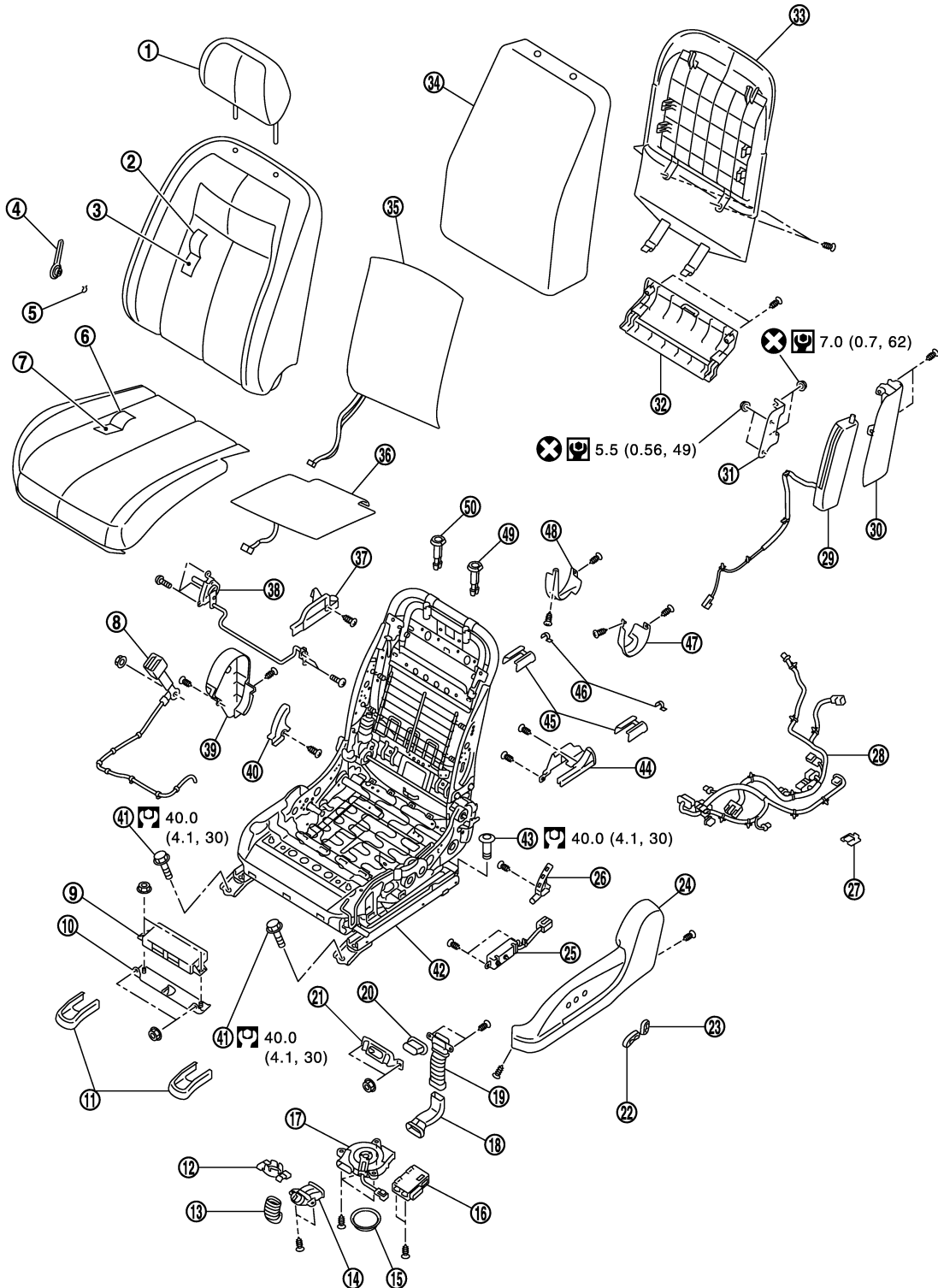
P

FRONT SEAT

< ON-VEHICLE REPAIR >

[WITHOUT VENTILATION SEAT]

SEC. 870



JMJIA1714GB

- | | | |
|-----------------------------------|-------------------------|----------------------|
| 1. Headrest | 2. Seatback trim | 3. Seatback pad |
| 4. Lumbar support lever knob | 5. Snap pin | 6. Seat cushion trim |
| 7. Seat cushion pad | 8. Seat belt buckle | 9. Seat control unit |
| 10. Seat cushion frame bracket | 11. Front slide cover | 12. Clip |
| 13. Seat cushion duct B | 14. Seat cushion duct A | 15. Blower filter |
| 16. Ventilation seat control unit | 17. Ventilation motor | 18. Seatback duct A |

FRONT SEAT

< ON-VEHICLE REPAIR >

[WITHOUT VENTILATION SEAT]

- | | | | |
|--|--|----------------------------------|---|
| 19. Seatback duct B | 20. Seatback duct C | 21. Clip | A |
| 22. Seat slide and lifter switch knob | 23. Reclining switch knob | 24. Seat cushion outer finisher | |
| 25. Seat control switch | 26. Seat cushion outer finisher inside | 27. Seat harness clamp | |
| 28. Seat harness | 29. Side air bag module | 30. Seatback finisher | B |
| 31. Side air bag module bracket | 32. Seat cushion rear finisher | 33. Seatback board | |
| 34. Seatback silencer | 35. Seatback heater unit | 36. Seat cushion heater unit | C |
| 37. Seat slide inner cover | 38. Lumbar support unit | 39. Seat cushion inner finisher | |
| 40. Seat cushion inner finisher inside | 41. TORX bolt | 42. Seat frame assembly | |
| 43. TORX bolt | 44. Seat slide outer cover | 45. Rear slide cover | D |
| 46. End cap | 47. Reclining device outer cover | 48. Reclining device inner cover | |
| 49. Headrest holder (locked) | 50. Headrest holder (free) | | |

Refer to [GI-4, "Components"](#) for symbols in the figure.

PASSENGER'S POWER SEAT

A
B
C
D
E
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I
K
L
M
N
O
P

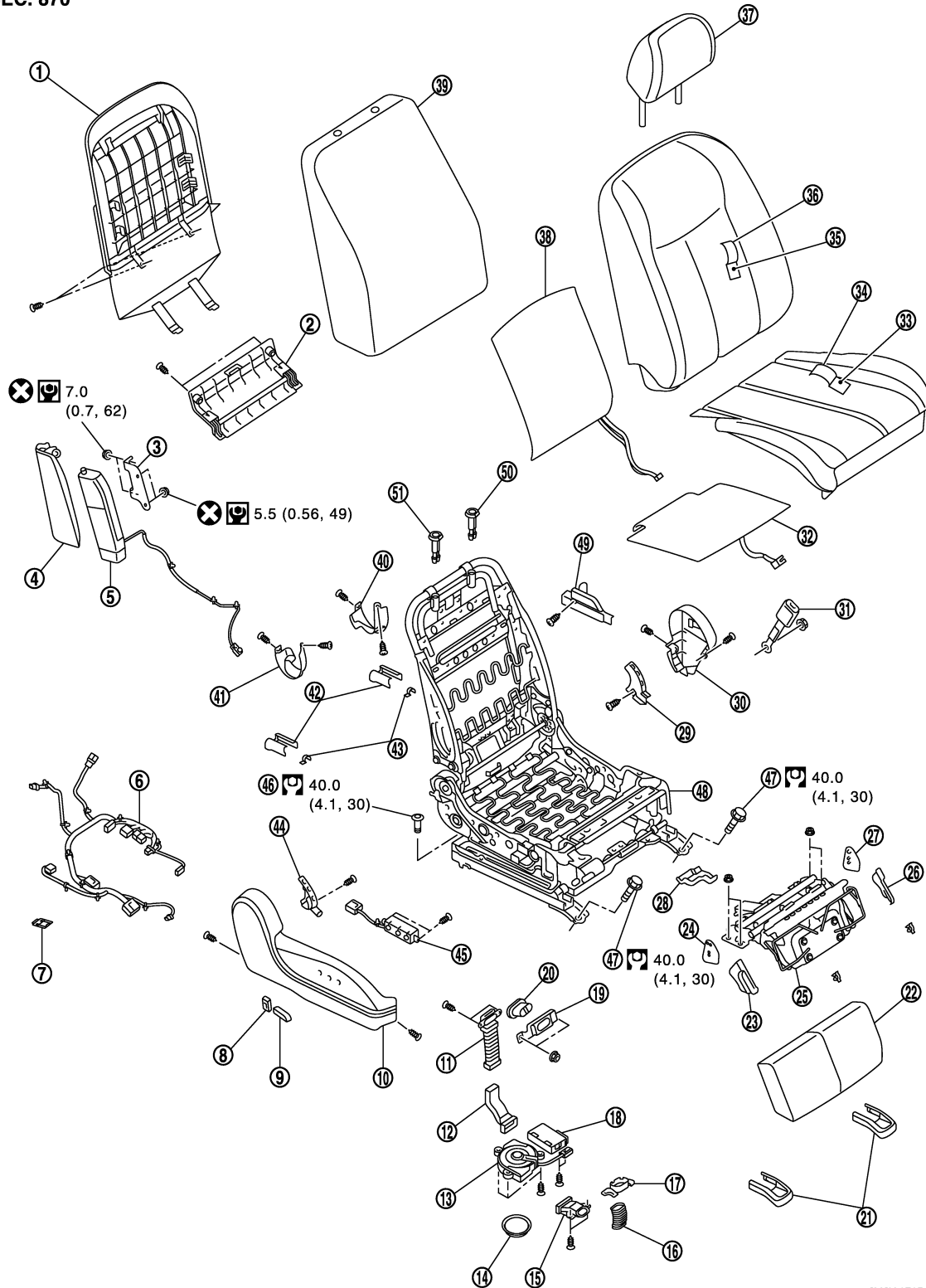
SE

FRONT SEAT

< ON-VEHICLE REPAIR >

[WITHOUT VENTILATION SEAT]

SEC. 870



JMJ1A1715GB

- | | | |
|---------------------------------|-------------------------------|--------------------------------------|
| 1. Seatback board | 2. Seat cushion rear finisher | 3. Side air bag module bracket |
| 4. Seatback finisher | 5. Side air bag module | 6. Seat harness |
| 7. Seat harness clamp | 8. Reclining switch knob | 9. Seat slide and lifter switch knob |
| 10. Seat cushion outer finisher | 11. Seatback duct B | 12. Seatback duct A |
| 13. Ventilation motor | 14. Blower filter | 15. Seat cushion duct A |
| 16. Seat cushion duct B | 17. Clip | 18. Ventilation seat control unit |

FRONT SEAT

< ON-VEHICLE REPAIR >

[WITHOUT VENTILATION SEAT]

- | | | |
|----------------------------------|--|---------------------------------|
| 19. Clip | 20. Seatback duct C | 21. Front slide cover |
| 22. Ottoman trim and pad | 23. Front outer link cover | 24. Rear outer link cover |
| 25. Ottoman unit assembly | 26. Front inner link cover | 27. Rear inner link cover |
| 28. Ottoman protector | 29. Seat cushion inner finisher inside | 30. Seat cushion inner finisher |
| 31. Seat belt buckle | 32. Seat cushion heater unit | 33. Seat cushion pad |
| 34. Seat cushion trim | 35. Seatback pad | 36. Seatback trim |
| 37. Headrest | 38. Seatback heater unit | 39. Seatback silencer |
| 40. Reclining device inner cover | 41. Reclining device outer cover | 42. Rear slide cover |
| 43. End cap | 44. Seat cushion outer finisher inside | 45. Seat control switch |
| 46. TORX bolt | 47. TORX bolt | 48. Seat frame assembly |
| 49. Seat slide inner cover | 50. Headrest holder (locked) | 51. Headrest holder (free) |

Refer to [GI-4, "Components"](#) for symbols in the figure.

Removal and Installation

INFOID:000000003840024

REMOVAL

CAUTION:

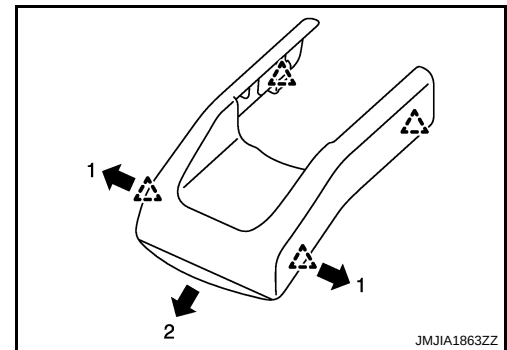
- When removing and installing, use shop cloths to protect parts from damage.
- Before removal, turn ignition switch OFF, disconnect battery negative terminal, and then wait for at least 3 minutes.

NOTE:

Confirming a position of connector before work.

1. Remove the headrest.
2. Slide the seat to the frontmost position.
3. Remove the rear outer mounting TORX bolt.
4. Remove the rear inner mounting TORX bolt.
5. Slide the seat to the rearmost position.
6. Remove the front slide cover.
 - Open the front end of the front slide cover to release the pawls.
 - Slide the front slide cover forward to release the pawls.

 : Pawl



7. Remove the front outer mounting TORX bolt.
8. Remove the front inner mounting TORX bolt.
9. Set seatback in a standing position.
10. Lift the seat to the uppermost position.
11. Disconnect harness connector under the seat and remove harness clamps.
12. Remove seat from the vehicle.

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.

Disassembly and Assembly

INFOID:000000003840025

SEATBACK

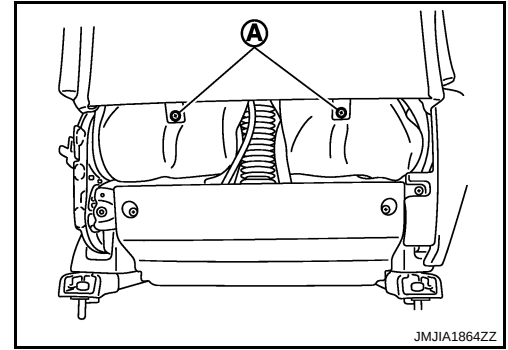
FRONT SEAT

< ON-VEHICLE REPAIR >

[WITHOUT VENTILATION SEAT]

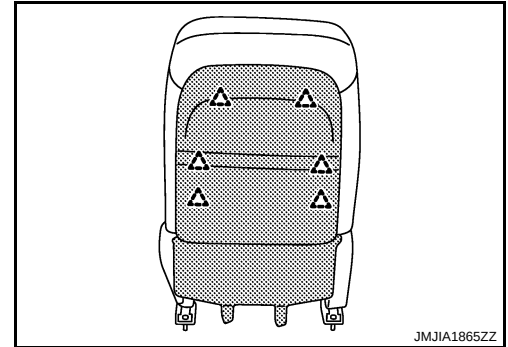
Disassembly

1. Remove the seatback board.
 - Remove the hook, and then remove screws (A).

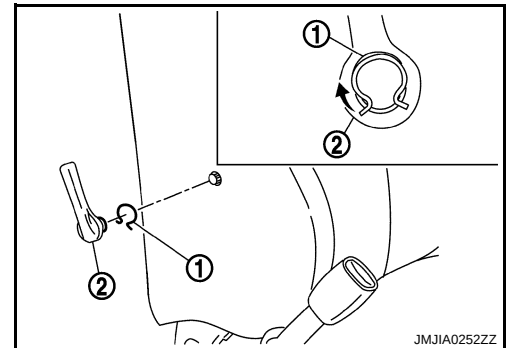


- Remove the pawls, and then pull out seatback board.
- Pull down the seatback board to release the upper pawls.

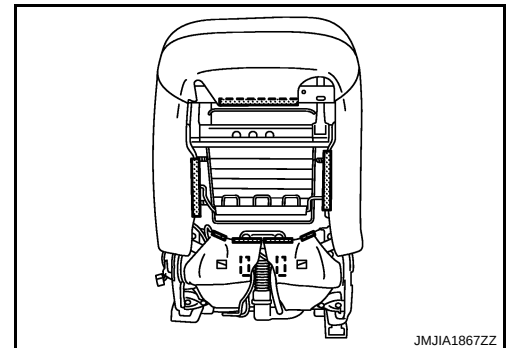
 : Pawl



2. Remove the lumbar support lever knob. (With lumbar support model)
Pull snap pin (1) upward, and remove lumbar support lever knob (2) from seatback using hook and pick tool.



3. Remove the seatback pad and seatback trim.
 - Remove the seatback retainer on the back side of the seatback.
 - Remove the screws, and then remove seatback finisher.
 - Remove the side air bag module. Refer to [SR-16, "Removal and Installation"](#).

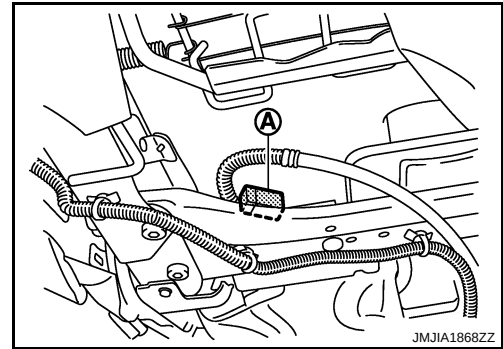


FRONT SEAT

< ON-VEHICLE REPAIR >

[WITHOUT VENTILATION SEAT]

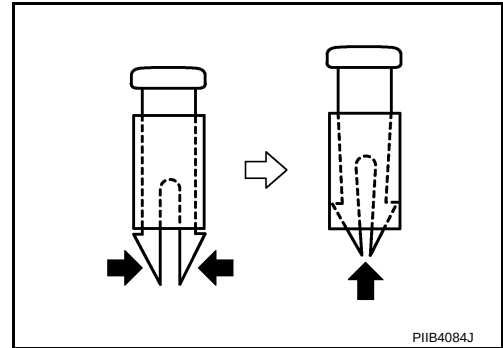
- Disconnect the seatback heater unit harness connector (A).



- 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 seat frame assembly.
 - Remove the hog rings to separate the seatback trim and seatback pad.
4. Remove the seatback silencer.
 5. Remove the lumbar support unit. (With lumbar support model)
 - Remove the screws.
 - Remove the lumbar support unit while pulling the seatback spring.
 6. Remove the reclining device outer and inner cover.

Remove the screws, and then remove reclining device outer and inner cover.

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.

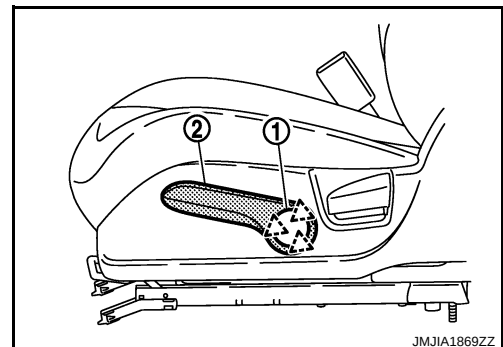
SEAT CUSHION

Disassembly

1. Remove the seat cushion outer finisher.
 - a. Manual seat
 - Remove the pawls, and then remove lifter lever knob finisher (1).

 : Pawl

- Remove the mounting screws, and remove lifter lever knob (2).



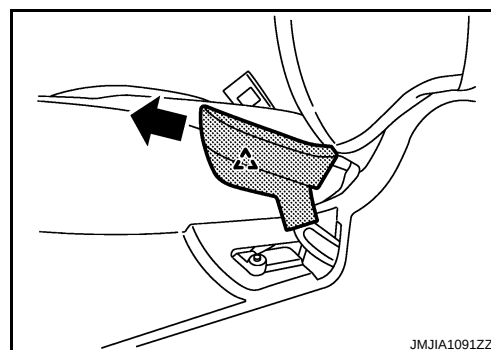
FRONT SEAT

< ON-VEHICLE REPAIR >

[WITHOUT VENTILATION SEAT]

- Pull out the reclining lever knob while holding and raising the pawls.

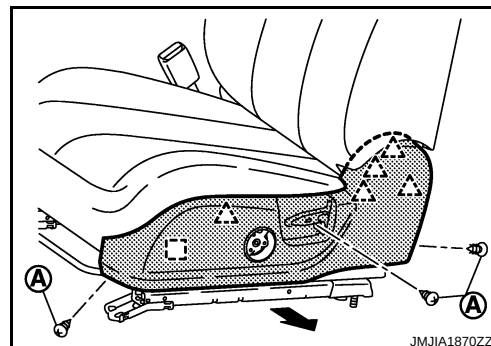
 : Pawl



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

 : Metal clip

 : Pawl

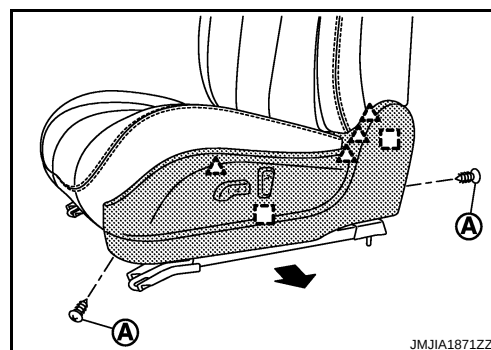


b. Power seat

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

 : Metal clip

 : Pawl



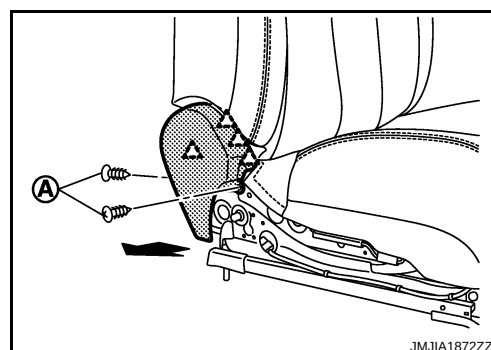
- Disconnect the harness connector and remove harness clamp.

2. Remove the seat belt buckle. Refer to [SB-7. "SEAT BELT BUCKLE : Removal and Installation"](#).

3. Remove the seat cushion inner finisher.

- Remove the screws (A).
- Remove the pawls, and then pull out seat cushion inner finisher.

 : Pawl



4. Remove the seat cushion trim and seat cushion pad.

- Remove the seat cushion retainer.
- Disconnect the seat cushion heater unit harness connector.
- Remove the seat cushion trim and seat cushion pad from the seat frame assembly.
- Remove the hog rings, and separate the seat cushion trim and seat cushion pad.

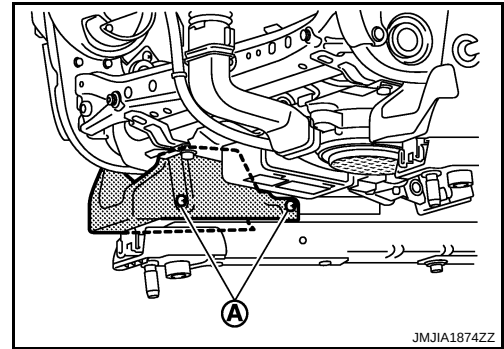
5. Remove the seat slide outer cover.

FRONT SEAT

< ON-VEHICLE REPAIR >

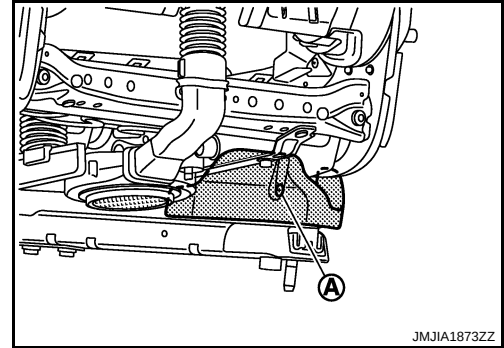
[WITHOUT VENTILATION SEAT]

Remove the screws (A), and then remove seat slide outer cover.



6. Remove seat slide inner cover.

Remove the screw (A), and then remove seat slide inner cover.



7. Remove the seat cushion outer and inner finisher inside.

Remove the screw, and then remove the seat cushion outer and inner finisher inside.

Assembly

Assemble in the reverse order of disassembly.

CAUTION:

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

REAR SEAT

< ON-VEHICLE REPAIR >

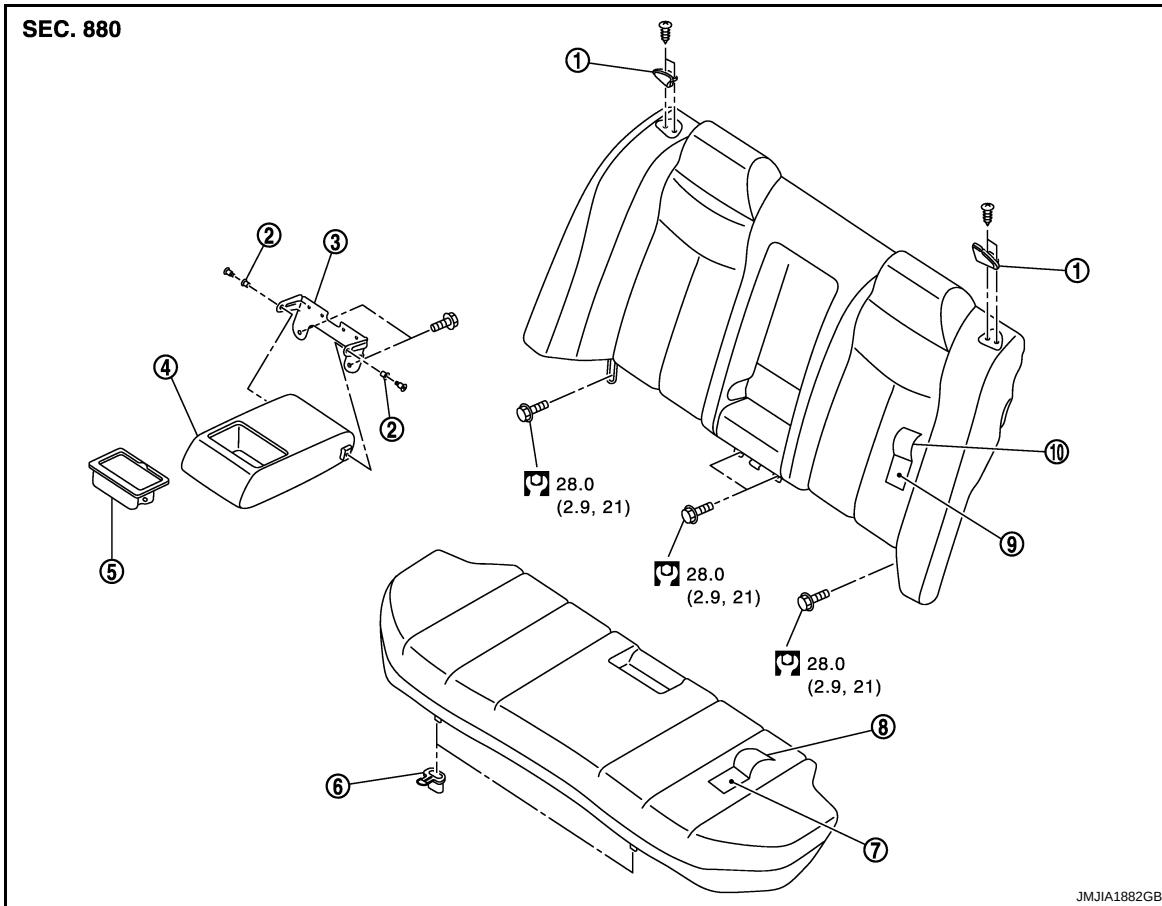
[WITHOUT VENTILATION SEAT]

REAR SEAT

Exploded View

INFOID:000000003840026

HEADREST FIXED TYPE



- | | | |
|---------------------|----------------------|----------------------|
| 1. Seat belt hook | 2. Bushing | 3. Armrest bracket |
| 4. Armrest assembly | 5. Cup holder | 6. Seat cushion hook |
| 7. Seat cushion pad | 8. Seat cushion trim | 9. Seatback pad |
| 10. Seatback trim | | |

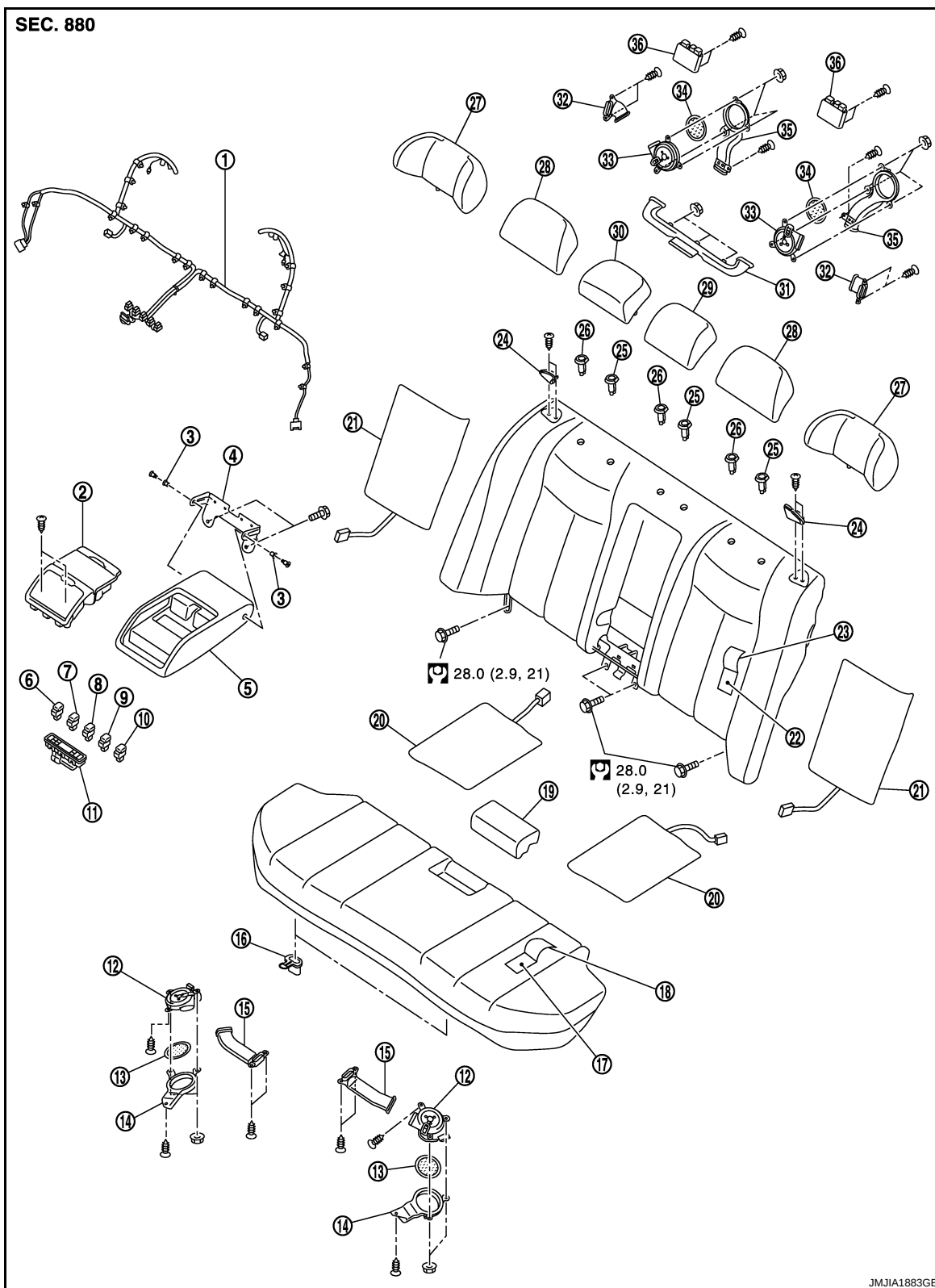
Refer to [GI-4, "Components"](#) for symbols in the figure.

HEADREST REMOVED AND INSTALLED TYPE

REAR SEAT

< ON-VEHICLE REPAIR >

[WITHOUT VENTILATION SEAT]



- | | | |
|-------------------------------|-------------------------|--------------------------------------|
| 1. Seat harness | 2. Cup holder | 3. Bushing |
| 4. Armrest bracket | 5. Armrest assembly | 6. Seat heater switch RH |
| 7. Air conditioning switch RH | 8. Rear sunshade switch | 9. Air conditioning switch LH |
| 10. Seat heater switch LH | 11. Rear audio switch | 12. Ventilation motor (seat cushion) |
| 13. Blower filter | 14. Seat cushion duct A | 15. Seat cushion duct B |
| 16. Seat cushion hook | 17. Seat cushion pad | 18. Seat cushion trim |

REAR SEAT

< ON-VEHICLE REPAIR >

[WITHOUT VENTILATION SEAT]

- | | | |
|---------------------------------|-----------------------------------|-----------------------------------|
| 19. Seatback center pad | 20. Seat cushion heater unit | 21. Seatback heater unit |
| 22. Seatback pad | 23. Seatback trim | 24. Seat belt hook |
| 25. Headrest holder (locked) | 26. Headrest holder (free) | 27. Headrest side (long type) |
| 28. Headrest side (normal type) | 29. Headrest center (normal type) | 30. Headrest center (long type) |
| 31. Seatback duct C | 32. Seatback duct B | 33. Ventilation motor (seatback) |
| 34. Blower filter | 35. Seatback duct A | 36. Ventilation seat control unit |

Refer to [GI-4, "Components"](#) for symbols in the figure.

Removal and Installation

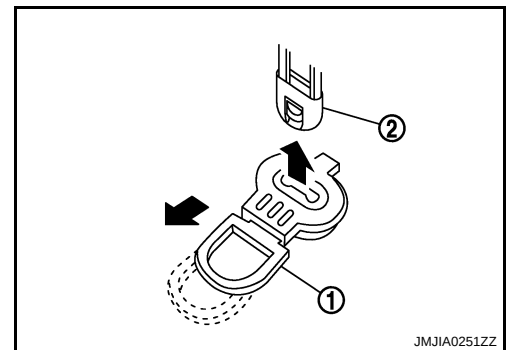
INFOID:000000003840027

REMOVAL

CAUTION:

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

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



- Remove the seat cushion from the vehicle.
3. Remove the seatback.
 - Remove the bolts under seatback.
 - Lift up seatback from underneath, and then remove seatback from seatback hook that is fixed to the vehicle.
 - Remove the seatback from the vehicle.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

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

Disassembly and Assembly

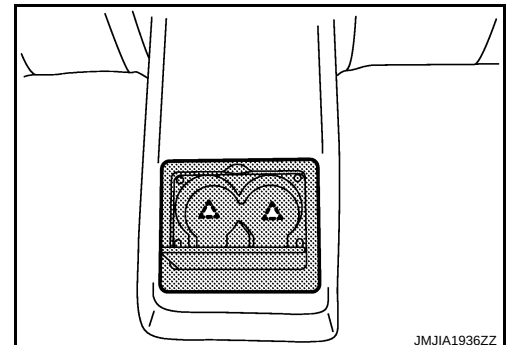
INFOID:000000003840028

SEATBACK

Disassembly

1. Remove armrest assembly.
 - Remove the pawls, and pull out the cup holder.

 : Pawl

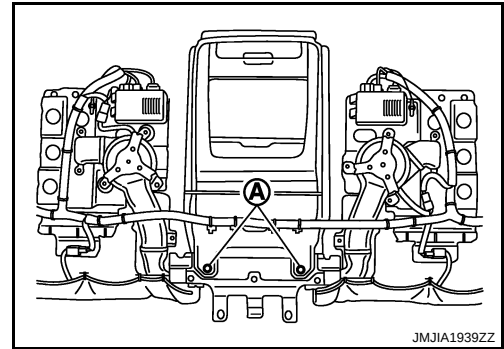


REAR SEAT

< ON-VEHICLE REPAIR >

[WITHOUT VENTILATION SEAT]

- Remove the bolts (A), and then remove armrest retainer.

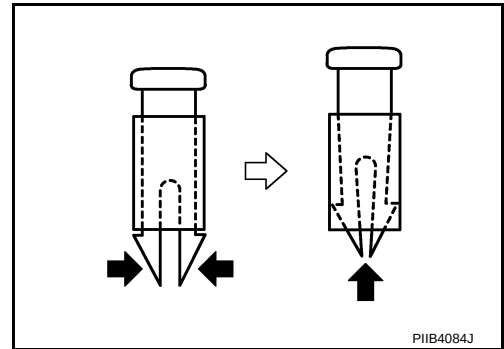


- Remove the armrest assembly.

2. Remove the seatback trim.
 - Remove the screws, and then seat belt hook.
 - Remove the headrest holder.

CAUTION:

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



- Remove the hog rings to separate the seatback trim and seatback pad.

Assembly

Assemble in the reverse order of disassembly.

SEAT CUSHION

Disassembly

Remove the hog rings, and separate the seat cushion trim and seat cushion pad.

Assembly

Assemble in the reverse order of disassembly.

A
B
C
D
E
F
G
H
I
SE
K
L
M
N
O
P

POWER SEAT SWITCH

Exploded View

INFOID:000000003885027

Refer to [SE-130, "Exploded View"](#).

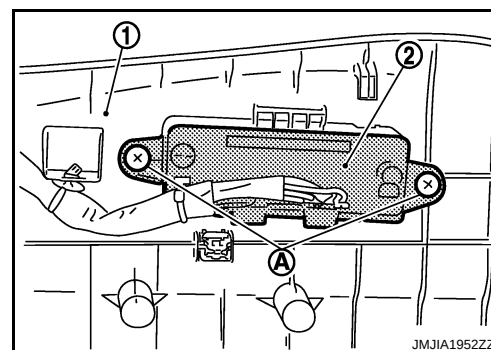
Removal and Installation

INFOID:000000003885028

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-135, "Removal and Installation"](#).
2. Remove switch knob.
3. Remove screws (A).
4. 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.**

HEATED SEAT SWITCH

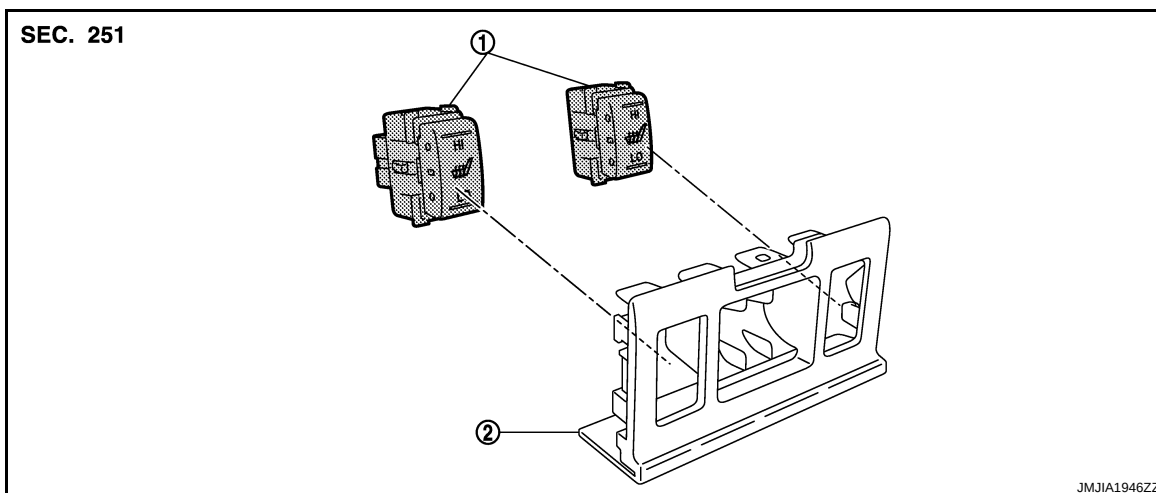
< ON-VEHICLE REPAIR >

[WITHOUT VENTILATION SEAT]

HEATED SEAT SWITCH

Exploded View

INFOID:000000003853803



1. Heated seat switch

2. Switch panel

Removal and Installation

INFOID:000000003840029

REMOVAL

CAUTION:

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

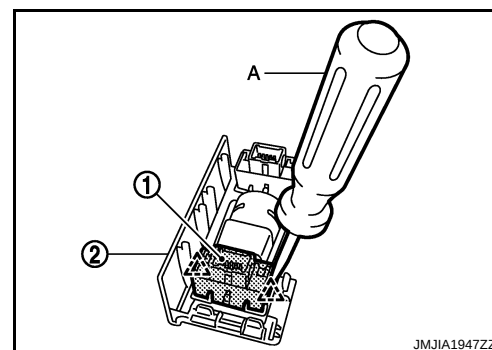
1. Remove the switch panel (2). Refer to [IP-22, "Exploded View"](#).
2. Remove heated seat switch (driver side) (1) from switch panel with flat bladed screw driver (A).

NOTE:

The same procedure is also performed for passenger side.



Pawl



INSTALLATION

Install in the reverse order of removal.