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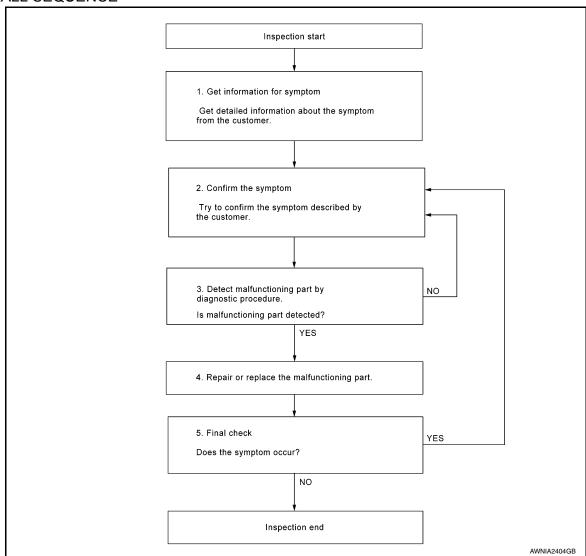
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# **BASIC INSPECTION**

# DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

### **OVERALL SEQUENCE**



### **DETAILED FLOW**

### 1.GET INFORMATION FOR SYMPTOM

Get detailed information from the customer about the symptom (the condition and the environment when the incident/malfunction occurred).

>> GO TO 2.

### 2.CONFIRM THE SYMPTOM

Try to confirm the symptom described by the customer. Verify relation between the symptom and the condition when the symptom is detected. Refer to <u>SE-51</u>, "Symptom Table".

>> GO TO 3.

# 3. DETECT MALFUNCTIONING PART BY DIAGNOSTIC PROCEDURE

Inspect according to Diagnostic Procedure of the system.

# **DIAGNOSIS AND REPAIR WORK FLOW**

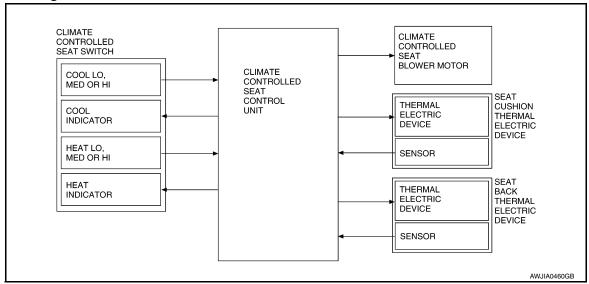
<pre></pre>	TH CLIMATE CONTROLLED SEATS]
Is malfunctioning part detected?	
YES >> GO TO 4.	A
NO >> GO TO 2.	
$oldsymbol{4}.$ REPAIR OR REPLACE THE MALFUNCTIONING PART	E
<ol> <li>Repair or replace the malfunctioning part.</li> <li>Reconnect parts or connectors disconnected during Diagnostic P</li> </ol>	
>> GO TO 5.	
5. FINAL CHECK	
Refer to confirmed symptom in step 2, and make sure that the symptom	om is not detected.
Was the repair confirmed?	
YES >> Inspection End. NO >> GO TO 2.	E
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# SYSTEM DESCRIPTION

### CLIMATE CONTROLLED SEAT SYSTEM

System Diagram

INFOID:0000000010049459



### System Description

INFOID:0000000010049460

- The climate controlled seat system is controlled by the climate controlled seat control unit.
- Operation of the climate controlled seat switch sends heated or cooled airflow and adjusts the seat temperature.

### SEAT CUSHION AND SEATBACK TEMPERATURE ADJUSTMENT FUNCTION

- A thermal electric device (TED) unit is installed in the seat cushion and seatback. The device heats or cools, sends airflow to the seat surface, and adjusts the seat temperature.
- The thermal electric device (TED) is a heat exchanger that has a function to heat or cool the airflow from the climate controlled seat blower motor. By changing the direction of the current from the power supply, the device takes or gives heat, and adjusts the heat exchange process depending on voltage.

### NOTE

The climate controlled seat blower motor maintains low speed for approximately 60 seconds after turning the climate controlled seat switch off.

### **CAUTION:**

- The thermal electric device has a dual-climate function that allows one side to operate at a high temperature and the other to operate at a low temperature simultaneously.
- Before starting work, always turn OFF the switch and check that the thermal electric device is cold.

### FAIL-SAFE

The fail-safe function is adopted for the climate controlled seat control unit. Refer to SE-26, "Fail-safe".

# **Component Parts Location**

INFOID:0000000010049461

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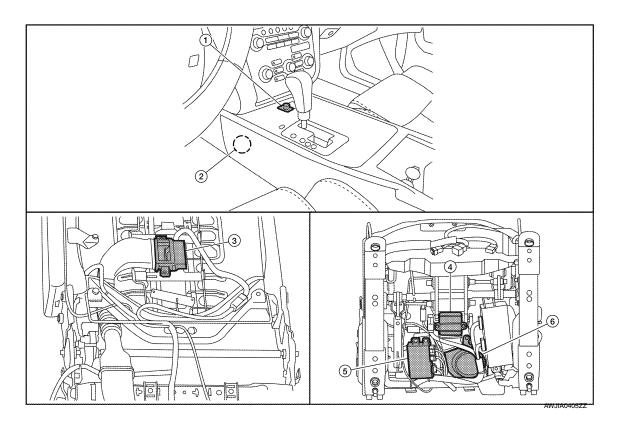
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- 1. Climate controlled seat switch M302
- 4. Seat cushion thermal electric device B219
- Climate controlled seat relay M58
- Climate controlled seat control unit 6. B212, B216, B217
- Seatback thermal electric device B218
- Climate controlled seat blower motor B220

# **Component Description**

INFOID:0000000010049462

Item	Function
Climate controlled seat relay	Supplies power to the climate controlled seat control unit in accordance with the key switch position that is ON or OFF
Climate controlled seat control unit	Installed in the seat cushion backside and controls the climate controlled seat blower motor, seatback thermal electric device, and seat cushion thermal electric device in accordance with the input signal
Climate controlled seat switch	Installed in the center console and transmits signals to climate controlled seat control unit in accordance with the HEAT (heated airflow) or COOL (cooled airflow) switch operation and the temperature switch operation
Climate controlled seat blower motor	Installed in the seat cushion backside and sends the airflow to the seatback thermal electric device and seat cushion thermal electric device in accordance with the control from the climate controlled seat control unit
Seatback thermal electric device	Installed in the seatback backside and heats or cools the airflow from the climate controlled seat blower motor in accordance with the control from the climate controlled seat control unit
Seat cushion thermal electric device	Installed in the seat cushion backside and heats or cools the airflow from the climate controlled seat blower motor in accordance with the control from the climate controlled seat control unit

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Revision: August 2013 SE-7 2014 Maxima NAM

# DTC/CIRCUIT DIAGNOSIS

# POWER SUPPLY AND GROUND CIRCUIT CLIMATE CONTROLLED SEAT CONTROL UNIT

CLIMATE CONTROLLED SEAT CONTROL UNIT: Diagnosis Procedure INFOID:000000010049463

Regarding Wiring Diagram information, refer to SE-44, "Wiring Diagram".

### 1. CHECK FUSES

Check for blown fuses.

System component	Power Source	Fuse or Fusible Link	Location
	Ignition switch ON or START	3 (10A)	Fuse block (J/B)
Climate controlled seat control unit	Battery	28 (15A)	Fuse and fusible link box
	Battery	H (40A)	Fuse and fusible link box

### Is the inspection result normal?

YES >> GO TO 2.

NO >> If fuse or fusible link is blown, be sure to eliminate cause of malfunction before installing new fuse or fusible link.

# 2. CHECK BATTERY POWER SUPPLY CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect climate controlled seat control unit connector B217.
- 3. Check voltage between climate controlled seat control unit connector B217 terminal 29 and ground.

Connector	Terminal	Ground	Voltage (Approx.)		
B217	29		Battery voltage		
1 (1 ) (2 ) (4 ) 10					

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### Is the inspection result normal?

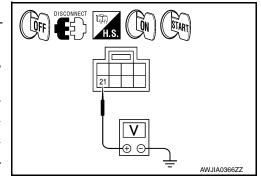
YES >> GO TO 3.

NO >> GO TO 6.

# 3.CHECK IGNITION POWER SUPPLY CIRCUIT

- 1. Disconnect climate controlled seat control unit connector B216.
- 2. Check voltage between climate controlled seat control unit connector B216 terminal 21 and ground.

Connector	Terminal	Ground	Ignitlon switch	Voltage (Approx.)
			OFF	0V
B216	21	_	ON	Battery voltage
			START	Battery voltage



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### Is the inspection result normal?

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

4. CHECK GROUND CIRCUIT

### POWER SUPPLY AND GROUND CIRCUIT

### < DTC/CIRCUIT DIAGNOSIS >

### [WITH CLIMATE CONTROLLED SEATS]

- 1. Turn ignition switch OFF.
- 2. Check continuity between climate controlled seat control unit connector B217 terminal 30 and ground.

Connector	Terminal Ground		Continuity
B217	30	30 — Yes	

### Is the inspection result normal?

YES >> Inspection End.

NO >> Repair the harness or connectors.

# DISCONNECT THE STATE OF THE STA

# 5. CHECK CLIMATE CONTROLLED SEAT RELAY

Perform the climate controlled seat relay component inspection. Refer to <u>SE-10, "CLIMATE CONTROLLED SEAT CONTROL UNIT: Component Inspection (Climate Controlled Seat Relay)"</u>.

### Is the inspection result normal?

YES >> GO TO 8.

NO >> Replace the climate controlled seat relay.

### 6.CHECK CIRCUIT BREAKER POWER SUPPLY CIRCUIT

- 1. Disconnect the circuit breaker connector M84.
- Check voltage between circuit breaker connector M84 terminal 1 and ground.

Connector	Terminal	Ground	Voltage (Approx.)
M84	1	_	Battery voltage

# Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair the harness or connectors.

# 7.CHECK BATTERY POWER SUPPLY CIRCUIT FOR OPEN

Check continuity between circuit breaker connector M84 (A) terminal 2 and climate controlled seat control unit connector B217 (B) terminal 29.

Circuit Breaker		Climate Controlled	Continuity	
Connector	Terminal	Connector Terminal		Continuity
M84 (A)	2	B217 (B)	29	Yes

### Is the inspection result normal?

YES >> Replace the circuit breaker.

NO >> Repair the harness or connectors.

# 8. CHECK CLIMATE CONTROLLED SEAT RELAY BATTERY POWER SUPPLY CIRCUIT

1. Disconnect climate controlled seat relay connector.

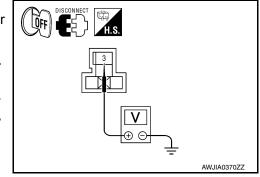
2. Check voltage between climate controlled seat relay connector M58 terminal 3 and ground.

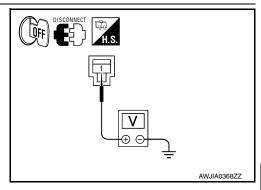
Connector	Terminal	Ground	Voltage (Approx.)
M58	3	_	Battery voltage

### Is the inspection result normal?

YES >> GO TO 9.

NO >> Repair the harness or connectors.





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9. CHECK CLIMATE CONTROLLED SEAT RELAY IGNITION POWER SUPPLY CIRCUIT

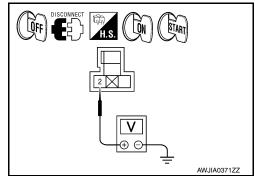
### POWER SUPPLY AND GROUND CIRCUIT

### < DTC/CIRCUIT DIAGNOSIS >

### [WITH CLIMATE CONTROLLED SEATS]

Check voltage between climate controlled seat relay connector M58 terminal 2 and ground.

Connector	Terminal	Ground	IgnitIon switch	Voltage (Approx.)
			OFF	0V
M58	2	_	ON	Battery voltage
			START	Battery voltage



### Is the inspection result normal?

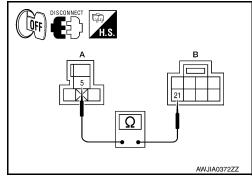
YES >> GO TO 10.

NO >> Repair the harness or connectors.

# 10. CHECK IGNITION POWER SUPPLY CIRCUIT FOR OPEN

Check continuity between climate controlled seat relay connector M58 (A) terminal 5 and climate controlled seat control unit connector B216 (B) terminal 21.

Climate Controll	Climate Controlled Seat Relay		Climate Controlled Seat Control Unit		
Connector	Terminal	Connector Terminal		Continuity	
M58 (A)	5	B216 (B)	21	Yes	



### Is the inspection result normal?

YES >> GO TO 11.

NO >> Repair the harness or connectors.

# 11. CHECK CLIMATE CONTROLLED SEAT RELAY GROUND CIRCUIT

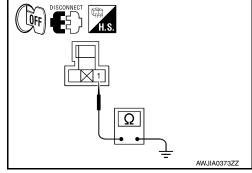
Check continuity between climate controlled seat relay connector M58 terminal 1 and ground.

Connector	Terminal	Ground	Continuity
M58	1	_	Yes

### Is the inspection result normal?

YES >> Check intermittent incident. Refer to <u>GI-41, "Intermittent Incident"</u>.

NO >> Repair the harness or connectors.



# CLIMATE CONTROLLED SEAT CONTROL UNIT : Component Inspection (Climate Controlled Seat Relay)

1. CHECK CLIMATE CONTROLLED SEAT RELAY

### POWER SUPPLY AND GROUND CIRCUIT

### < DTC/CIRCUIT DIAGNOSIS >

### [WITH CLIMATE CONTROLLED SEATS]

1. Apply battery voltage between terminals 2 and 1 of the climate controlled seat relay.

### **CAUTION:**

Connect a fuse between the terminals when applying battery voltage.

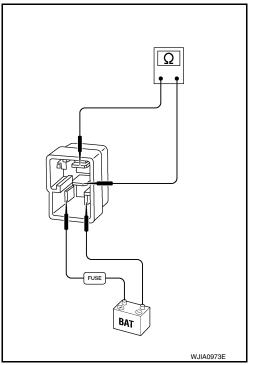
2. Check continuity between climate controlled seat relay terminals 5 and 3.

Climate Controlled Seat Relay Terminals	Condition	Continuity
5 and 3	Battery voltage applied between terminals 2 and 1.	Yes

### Is the inspection result normal?

YES >> Inspection End.

NO >> Replace climate controlled seat relay.



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### **CLIMATE CONTROLLED SEAT BLOWER MOTOR**

< DTC/CIRCUIT DIAGNOSIS >

[WITH CLIMATE CONTROLLED SEATS]

### CLIMATE CONTROLLED SEAT BLOWER MOTOR

Description INFOID:000000010049468

Sends airflow to the seat cushion and seatback.

### Component Function Check

### INFOID:0000000010049466

## ${f 1}.$ CHECK CLIMATE CONTROLLED SEAT BLOWER MOTOR FUNCTION

Turn the climate controlled seat switch to the H (Heat) LO, MED, and HI positions and the C (Cool) LO, MED, and HI positions. Check that the climate controlled seat blower motor operates at low, medium and high speed.

### Is the inspection result normal?

YES >> Climate controlled seat blower motor function is OK.

NO >> Refer to <u>SE-12</u>, "<u>Diagnosis Procedure</u>".

### Diagnosis Procedure

INFOID:0000000010049467

Regarding Wiring Diagram information, refer to SE-44, "Wiring Diagram".

# 1. CHECK CLIMATE CONTROLLED SEAT BLOWER MOTOR

Perform climate controlled seat blower motor component inspection. Refer to <u>SE-14, "Component Inspection (Climate Controlled Seat Blower Motor)"</u>.

### Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace climate controlled seat blower motor. Refer to <u>SE-65, "Exploded View"</u>.

# 2.CHECK CLIMATE CONTROLLED SEAT BLOWER MOTOR POWER SUPPLY

1. Turn ignition switch ON.

2. Check voltage between climate controlled seat blower motor connector B220 terminal 2 and ground.

Climate controlled seat blower motor		Ground	Voltage	
Connector	Terminal	Ground	(Approx.)	
B220	2	_	Battery voltage	

# CONNECT CONNEC

### Is the inspection result normal?

YES >> GO TO 4.

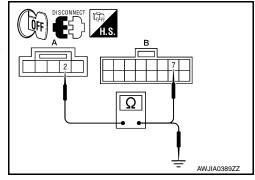
NO >> GO TO 3.

# 3.CHECK CLIMATE CONTROLLED SEAT BLOWER MOTOR POWER SUPPLY CIRCUIT

Turn ignition switch OFF.

- 2. Disconnect climate controlled seat blower motor connector and climate controlled seat control unit connector B212.
- Check continuity between climate controlled seat blower motor connector B220 (A) terminal 2 and climate controlled seat control unit connector B212 (B) terminal 7.

	Climate controlled seat blower motor		Climate controlled seat control unit	
Connector	Terminal	Connector	Terminal	
B220 (A)	2	B212 (B)	7	Yes



4. Check continuity between climate controlled seat blower motor connector B220 (A) terminal 2 and ground.

### **CLIMATE CONTROLLED SEAT BLOWER MOTOR**

< DTC/CIRCUIT DIAGNOSIS >

### [WITH CLIMATE CONTROLLED SEATS]

Climate controlled seat blower motor		Ground	Continuity
Connector	Terminal		
B220 (A)	2	_	No

### Is the inspection result normal?

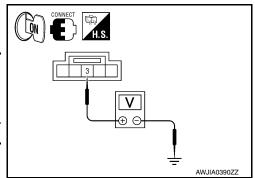
YES >> Replace climate controlled seat control unit. Refer to <u>SE-65, "Exploded View"</u>.

NO >> Repair harness or connectors.

## 4. CHECK CLIMATE CONTROLLED SEAT BLOWER MOTOR SPEED CONTROL SIGNAL

Check voltage between climate controlled seat blower motor connector B220 terminal 3 and ground.

	ntrolled seat r motor	Cround		Voltage
Connector	Terminal	Ground	Climate controlled seat switch	(Approx.)
B220	3	_	HEAT or COOL	4.5V – 8.0V



### Is the inspection result normal?

YES >> GO TO 6.

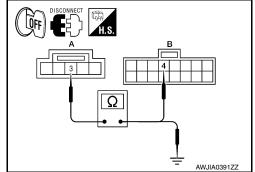
NO >> GO TO 5.

# 5. CHECK CLIMATE CONTROLLED SEAT BLOWER MOTOR SPEED CONTROL SIGNAL CIRCUIT

Turn ignition switch OFF.

- 2. Disconnect climate controlled seat blower motor connector and climate controlled seat control unit connector B212.
- Check continuity between climate controlled seat blower motor connector B220 (A) terminal 3 and climate controlled seat control unit connector B212 (B) terminal 4.

	lled seat blower otor	Climate controlled seat control unit		Continuity
Connector	Terminal	Connector Terminal		
B220 (A)	3	B212 (B)	4	Yes



4. Check continuity between climate controlled seat blower motor connector B220 (A) terminal 3 and ground.

Climate controlled seat blower motor		Ground	Continuity
Connector	Terminal		
B220 (A)	3	_	No

### Is the inspection result normal?

YES >> Replace climate controlled seat control unit. Refer to <u>SE-65, "Exploded View"</u>.

NO >> Repair harness or connectors.

### $\mathsf{6}.$ CHECK CLIMATE CONTROLLED SEAT BLOWER MOTOR GROUND CIRCUIT

1. Turn ignition switch OFF.

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### **CLIMATE CONTROLLED SEAT BLOWER MOTOR**

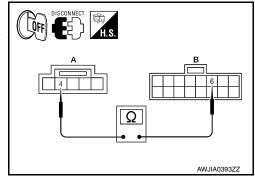
### < DTC/CIRCUIT DIAGNOSIS >

### [WITH CLIMATE CONTROLLED SEATS]

Disconnect climate controlled seat blower motor connector and climate controlled seat control unit connector B212.

3. Check continuity between climate controlled seat blower motor connector B220 (A) terminal 4 and climate controlled seat control unit connector B212 (B) terminal 6.

	lled seat blower otor	Climate controlled seat control unit		Continuity
Connector	Terminal	Connector Terminal		
B220 (A)	4	B212 (B)	6	Yes



### Is the inspection result normal?

YES >> Replace climate controlled seat control unit. Refer to <u>SE-65, "Exploded View"</u>.

NO >> Repair harness or connectors.

### Component Inspection (Climate Controlled Seat Blower Motor)

INFOID:0000000010049468

# 1. CHECK CLIMATE CONTROLLED SEAT BLOWER MOTOR PART 1

- 1. Turn ignition switch OFF.
- 2. Disconnect climate controlled seat blower motor connector.
- 3. Measure the resistance of the climate controlled seat blower motor between terminals 2 and 4.

Climate Controlled Seat	Resistance	
2	4	$600-800~\Omega$

### Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace climate controlled seat blower motor. Refer to <u>SE-65</u>, "Exploded View".

# 2. CHECK CLIMATE CONTROLLED SEAT BLOWER MOTOR PART 2

Measure the resistance of the climate controlled seat blower motor between terminals 3 and 4.

Climate Controlled Seat	Resistance	
3	3 4	

### Is the inspection result normal?

YES >> Inspection End.

NO >> Replace climate controlled seat blower motor. Refer to <u>SE-65</u>, "Exploded View".

### SEAT CUSHION THERMAL ELECTRIC DEVICE

< DTC/CIRCUIT DIAGNOSIS >

[WITH CLIMATE CONTROLLED SEATS]

### SEAT CUSHION THERMAL ELECTRIC DEVICE

Description INFOID:0000000110049469

Provides cooling and heat for the seat cushion.

## Component Function Check

# 1. CHECK SEAT CUSHION THERMAL ELECTRIC DEVICE FUNCTION

- 1. Turn the climate controlled seat switch to the H (Heat) HI position and check that the seat cushion thermal electric device operates correctly.
- 2. Turn the climate controlled seat switch to the C (Cool) HI position and check that the seat cushion thermal electric device operates correctly.

### Is the inspection result normal?

YES >> Seat cushion thermal electric device is OK.

NO >> Refer to <u>SE-15, "Diagnosis Procedure"</u>.

### Diagnosis Procedure

Regarding Wiring Diagram information, refer to SE-44, "Wiring Diagram".

# 1. CHECK SEAT CUSHION THERMAL ELECTRIC DEVICE

Perform thermal electric device component inspection for the seat cushion. Refer to <u>SE-16, "Component Inspection (Thermal Electric Device)"</u>.

### Is the inspection result normal?

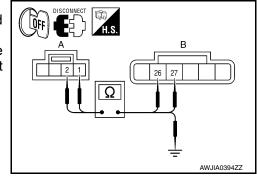
YES >> GO TO 2.

NO >> Replace seat cushion thermal electric device. Refer to SE-65, "Exploded View".

# 2.CHECK SEAT CUSHION THERMAL ELECTRIC DEVICE CIRCUITS

- 1. Turn ignition switch OFF.
- 2. Disconnect seat cushion thermal electric device connector and climate controlled seat control unit connector B217.
- 3. Check continuity between seat cushion thermal electric device connector B219 (A) terminals 1, 2 and climate controlled seat control unit connector B217 (B) terminals 26, 27.

	thermal electric vice	Climate controlled seat control unit		Continuity
Connector	Terminal	Connector	Terminal	
B219 (A)	1	B217 (B)	27	Yes
D2 19 (A)	2	DZ17 (D)	26	165



4. Check continuity between seat cushion thermal electric device connector B219 (A) terminals 1, 2 and ground.

	ermal electric de- ce		Continuity
Connector	Terminal	Ground	
B219 (A)	1		No
B2 19 (A)	2		INO

### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair harness or connectors.

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### SEAT CUSHION THERMAL ELECTRIC DEVICE

< DTC/CIRCUIT DIAGNOSIS >

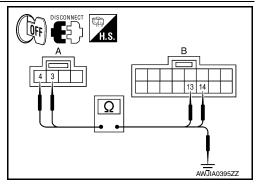
[WITH CLIMATE CONTROLLED SEATS]

# 3. CHECK SEAT CUSHION THERMAL ELECTRIC DEVICE SENSOR CIRCUITS

1. Disconnect climate controlled seat control unit connector B212.

2. Check continuity between seat cushion thermal electric device connector B219 (A) terminals 3, 4 and climate controlled seat control unit connector B212 (B) terminals 13, 14.

	thermal electric vice	Climate controlled seat control unit		Continuity
Connector	Terminal	Connector	Terminal	
B219 (A)	3	B212 (B)	14	Yes
D2 19 (A)	4	DZ 1Z (B)	13	165



Check continuity between seat cushion thermal electric device connector B219 (A) terminals 3, 4 and ground.

Seat cushion thermal electric device			Continuity
Connector	Terminal	Ground	
B219 (A)	3		No
D2 19 (A)	4		NO

### Is the inspection result normal?

YES >> Replace climate controlled seat control unit. Refer to <u>SE-65, "Exploded View"</u>.

NO >> Repair harness or connectors.

## Component Inspection (Thermal Electric Device)

INFOID:0000000010049472

# 1. CHECK THERMAL ELECTRIC DEVICE

- 1. Turn ignition switch OFF.
- 2. Disconnect thermal electric device connector.
- Measure the resistance of the thermal electric device between terminals 1 and 2.

### NOTE:

The resistance value in the table below will change under any of the following conditions:

- air blowing across the thermal electric device
- · changing the surrounding temperature of the thermal electric device
- measuring at other than 23°C (73°F)

Thermal electric device terminals		Temperature	Resistance
1	2	23°C (73°F)	$0.9-10~\Omega$

### Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace thermal electric device. Refer to <u>SE-65, "Exploded View"</u>.

### 2.CHECK THERMAL ELECTRIC DEVICE SENSOR

Measure the resistance of the thermal electric device sensor between terminals 3 and 4.

Thermal electric device terminals		Temperature	Resistance
		0 – 10° C (32 – 50° F)	2785– 1660 Ω
		10 – 20° C (50 – 68° F)	1840 – 1135 Ω
3	4	20 – 30° C (68 – 86° F)	1265 – 800 Ω
		30 – 40° C (86 – 104° F)	895 – 565 Ω
		40 – 50° C (104 – 122° F)	635 – 425 Ω

### Is the inspection result normal?

# SEAT CUSHION THERMAL ELECTRIC DEVICE [WITH CLIMATE CONTROLLED SEATS]

< DTC/CIRCUIT DIAGNOSIS >

YES >> Inspection End.

NO >> Replace thermal electric device. Refer to <u>SE-65, "Exploded View"</u>.

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### SEATBACK THERMAL ELECTRIC DEVICE

< DTC/CIRCUIT DIAGNOSIS >

[WITH CLIMATE CONTROLLED SEATS]

# SEATBACK THERMAL ELECTRIC DEVICE

Description INFOID:000000010049473

Provides cooling and heat for the seatback.

### Component Function Check

INFOID:0000000010049474

# 1. CHECK SEATBACK THERMAL ELECTRIC DEVICE FUNCTION

- 1. Turn the climate controlled seat switch to the H (Heat) HI position and check that the seatback thermal electric device operates correctly.
- 2. Turn the climate controlled seat switch to the C (Cool) HI position and check that the seatback thermal electric device operates correctly.

### Is the inspection result normal?

YES >> Seatback thermal electric device is OK.

NO >> Refer to <u>SE-18, "Diagnosis Procedure"</u>.

### Diagnosis Procedure

INFOID:0000000010049475

Regarding Wiring Diagram information, refer to SE-44, "Wiring Diagram".

# 1. CHECK SEATBACK THERMAL ELECTRIC DEVICE

Perform thermal electric device component inspection for the seatback. Refer to <u>SE-19</u>, "Component Inspection (Thermal Electric Device)".

### Is the inspection result normal?

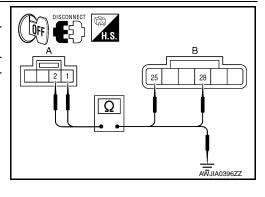
YES >> GO TO 2.

NO >> Replace seatback thermal electric device. Refer to <u>SE-65</u>. "Exploded View".

# 2. CHECK SEATBACK THERMAL ELECTRIC DEVICE CIRCUITS

- Turn ignition switch OFF.
- Disconnect seatback thermal electric device connector and climate controlled seat control unit connector B217.
- 3. Check continuity between seatback thermal electric device connector B218 (A) terminals 1, 2 and climate controlled seat control unit connector B217 (B) terminals 25, 28.

	mal electric de- ce	Climate controlled seat control unit		Continuity
Connector	Terminal	Connector	Terminal	
B218 (A)	1	B217 (B)	28	Yes
B210 (A)	2	B217 (B)	25	163



4. Check continuity between seatback thermal electric device connector B218 (A) terminals 1, 2 and ground.

Seatback therm	al electric device		Continuity
Connector	Terminal	Ground	Continuity
R218 (Δ)	B218 (A)		No
52 10 (A)	2		140

### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair harness or connectors.

3.CHECK SEATBACK THERMAL ELECTRIC DEVICE SENSOR CIRCUITS

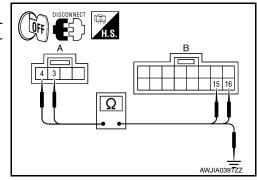
### SEATBACK THERMAL ELECTRIC DEVICE

### < DTC/CIRCUIT DIAGNOSIS >

### [WITH CLIMATE CONTROLLED SEATS]

- Disconnect climate controlled seat control unit connector B212.
- Check continuity between seatback thermal electric device connector B218 (A) terminals 3, 4 and climate controlled seat control unit connector B212 (B) terminals 15, 16.

	mal electric de- ce	Climate controlled seat control unit		Continuity
Connector	Terminal	Connector	Terminal	
B218 (A)	3	B212 (B)	16	Yes
D2 10 (A)	4	DZ 1Z (D)	15	163



3. Check continuity between seatback thermal electric device connector B218 (A) terminals 3, 4 and ground.

Seatback thermal electric device			Continuity
Connector	Terminal	Ground	Continuity
B218 (A)	3	- No	No
	4		INO

### Is the inspection result normal?

YES >> Replace climate controlled seat control unit. Refer to <u>SE-65, "Exploded View"</u>.

NO >> Repair harness or connectors.

### Component Inspection (Thermal Electric Device)

INFOID:0000000010049476

# 1. CHECK THERMAL ELECTRIC DEVICE

- 1. Turn ignition switch OFF.
- 2. Disconnect thermal electric device connector.
- Measure the resistance of the thermal electric device between terminals 1 and 2.

### NOTE:

The resistance value in the table below will change under any of the following conditions:

- air blowing across the thermal electric device
- · changing the surrounding temperature of the thermal electric device
- measuring at other than 23°C (73°F)

Thermal electric device terminals		Temperature	Resistance
1	2	23°C (73°F)	0.9 – 10 Ω

### Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace thermal electric device. Refer to <u>SE-65, "Exploded View".</u>

### 2.CHECK THERMAL ELECTRIC DEVICE SENSOR

Measure the resistance of the thermal electric device sensor between terminals 3 and 4.

Thermal electric	device terminals	Temperature	Resistance
		0 – 10° C (32 – 50° F)	2785– 1660 Ω
		10 – 20° C (50 – 68° F)	1840 $-$ 1135 $\Omega$
3	4	20 – 30° C (68 – 86° F)	1265 – 800 Ω
		30 – 40° C (86 – 104° F)	$895-565~\Omega$
		40 – 50° C (104 – 122° F)	635 – 425 Ω

### Is the inspection result normal?

YES >> Inspection End.

NO >> Replace thermal electric device. Refer to <u>SE-65, "Exploded View"</u>. SE

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# CLIMATE CONTROLLED SEAT SWITCH

Description INFOID:000000010049477

Provides inputs to the climate controlled seat control unit for climate controlled seat operation.

### Component Function Check

INFOID:0000000010049478

# 1. CHECK CLIMATE CONTROLLED SEAT SWITCH FUNCTION

Turn the climate controlled seat switch to the H (Heat) LO, MED, and HI positions and the C (Cool) LO, MED, and HI positions. Check that the climate controlled seat operates at low, medium and high heat, and low, medium and high cool.

### Is the inspection result normal?

YES >> Climate controlled seat switch function is OK.

NO >> Refer to SE-20, "Diagnosis Procedure".

### Diagnosis Procedure

INFOID:0000000010049479

Regarding Wiring Diagram information, refer to SE-44, "Wiring Diagram".

# 1. CHECK CLIMATE CONTROLLED SEAT SWITCH

Perform climate controlled seat switch component inspection. Refer to <u>SE-21, "Component Inspection (Climate Controlled Seat Switch)"</u>.

### Is the inspection result normal?

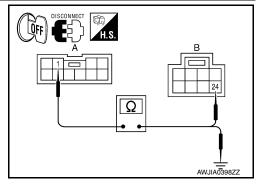
YES >> GO TO 2.

NO >> Replace climate controlled seat switch.

# 2.CHECK CLIMATE CONTROLLED SEAT SWITCH POWER SUPPLY CIRCUIT

- 1. Turn ignition switch OFF.
- Disconnect climate controlled seat switch connector and climate controlled seat control unit connector B216.
- 3. Check continuity between climate controlled seat switch connector M302 (A) terminal 1 and climate controlled seat control unit connector B216 (B) terminal 24.

Climate contro	lled seat switch	Climate controlled seat control unit		Continuity
Connector	Terminal	Connector	Terminal	
M302 (A)	1	B216 (B)	24	Yes



4. Check continuity between climate controlled seat switch connector M302 (A) terminal 1 and ground.

Climate controlled seat switch			Continuity
Connector	Terminal	Ground	Continuity
M302 (A)	1		No

### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair harness or connectors.

# 3.CHECK CLIMATE CONTROLLED SEAT SWITCH COOL CIRCUIT

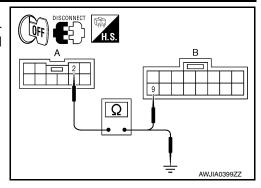
### **CLIMATE CONTROLLED SEAT SWITCH**

### < DTC/CIRCUIT DIAGNOSIS >

### [WITH CLIMATE CONTROLLED SEATS]

- 1. Disconnect climate controlled seat control unit connector B212.
- 2. Check continuity between climate controlled seat switch connector M302 (A) terminal 2 and climate controlled seat control unit connector B212 (B) terminal 9.

Climate contro	lled seat switch	Climate controlled seat control unit		Continuity
Connector	Terminal	Connector	Terminal	
M302 (A)	2	B212 (B)	9	Yes



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3. Check continuity between climate controlled seat switch connector M302 (A) terminal 2 and ground.

Climate controlled seat switch			Continuity
Connector	Terminal	Ground	Continuity
M302 (A)	2		No

### Is the inspection result normal?

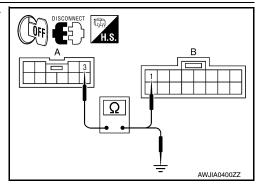
YES >> GO TO 4.

NO >> Repair harness or connectors.

# 4. CHECK CLIMATE CONTROLLED SEAT SWITCH HEAT CIRCUIT

Check continuity between climate controlled seat switch connector M302 (A) terminal 3 and climate controlled seat control unit connector B212 (B) terminal 1.

Climate contro	lled seat switch	Climate controlled seat control unit		Continuity
Connector	Terminal	Connector	Terminal	
M302 (A)	3	B212 (B)	1	Yes



2. Check continuity between climate controlled seat switch connector M302 (A) terminal 3 and ground.

Climate controlled seat switch			Continuity
Connector	Terminal	Ground	Continuity
M302 (A)	3		No

### Is the inspection result normal?

Revision: August 2013

YES >> Replace climate controlled seat control unit. Refer to SE-65, "Exploded View".

NO >> Repair harness or connectors.

# Component Inspection (Climate Controlled Seat Switch)

# 1. CHECK CLIMATE CONTROLLED SEAT SWITCH

- 1. Disconnect climate controlled seat switch connector.
- 2. Check continuity between climate controlled seat switch terminals.

Terminals	Condition	Continuity

**SE-21** 

### **CLIMATE CONTROLLED SEAT SWITCH**

# < DTC/CIRCUIT DIAGNOSIS >

### [WITH CLIMATE CONTROLLED SEATS]

3		LIFAT d-	OFF position	Continuity does not exist
			Rotate knob to LO	Continuity exists
	3 Climate controlled seat switch	HEAT mode		Resistance value decreases
1		ı	Rotate knob to HI	Resistance value decreases further
'	2 Climate controlled seat switch		OFF position	Continuity does not exist
		Climate controlled seat switch	COOL mode	Rotate knob to LO
2	Cilitate Contioned Seat Switch	COOL Mode	Rotate knob to MED	Resistance value decreases
			Rotate knob to HI	Resistance value decreases further

### Is the inspection result normal?

YES >> Inspection End.

NO >> Replace climate controlled seat switch.

### **CLIMATE CONTROLLED SEAT SWITCH INDICATOR**

< DTC/CIRCUIT DIAGNOSIS >

[WITH CLIMATE CONTROLLED SEATS]

### CLIMATE CONTROLLED SEAT SWITCH INDICATOR

Description INFOID:000000010049481

Illuminates the climate controlled seat switch to indicate operating status.

### Component Function Check

INFOID:0000000010049482

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## $1.\mathsf{check}$ climate controlled seat switch indicator function

Check that the indicators for the climate controlled seat switch operate in both COOL and HEAT modes.

### Is the inspection result normal?

YES >> Climate controlled seat switch indicator function is OK.

NO >> Refer to <u>SE-23, "Diagnosis Procedure"</u>.

### Diagnosis Procedure

INFOID:0000000010049483

Regarding Wiring Diagram information, refer to SE-44, "Wiring Diagram".

# 1. CHECK CLIMATE CONTROLLED SEAT SWITCH INDICATOR

Perform climate controlled seat switch indicator component inspection. Refer to <u>SE-24, "Component Inspection (Climate Controlled Seat Switch Indicator)"</u>.

### Is the inspection result normal?

YES >> GO TO 2.

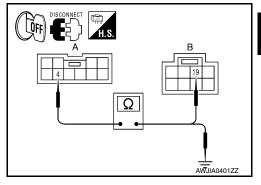
NO >> Replace climate controlled seat switch.

# 2.CHECK CLIMATE CONTROLLED SEAT SWITCH COOL INDICATOR CIRCUIT

Turn ignition switch OFF.

- 2. Disconnect climate controlled seat switch connector and climate controlled seat control unit connector B216.
- 3. Check continuity between climate controlled seat switch connector M302 (A) terminal 4 and climate controlled seat control unit connector B216 (B) terminal 19.

Climate contro	lled seat switch	Climate controlled seat control unit		Continuity
Connector	Terminal	Connector	Terminal	
M302 (A)	4	B216 (B)	19	Yes



4. Check continuity between climate controlled seat switch connector M302 (A) terminal 4 and ground.

Climate controlled seat switch			Continuity
Connector	Terminal	Ground	Continuity
M302 (A)	4		No

### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair harness or connectors.

3.CHECK CLIMATE CONTROLLED SEAT SWITCH HEAT INDICATOR CIRCUIT

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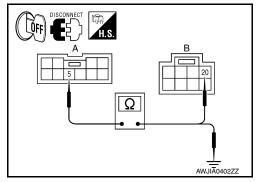
### **CLIMATE CONTROLLED SEAT SWITCH INDICATOR**

### < DTC/CIRCUIT DIAGNOSIS >

### [WITH CLIMATE CONTROLLED SEATS]

1. Check continuity between climate controlled seat switch connector M302 (A) terminal 5 and climate controlled seat control unit connector B216 (B) terminal 20.

Climate contro	lled seat switch		lled seat control nit	Continuity
Connector	Terminal	Connector Terminal		
M302 (A)	5	B216 (B)	20	Yes



2. Check continuity between climate controlled seat switch connector M302 (A) terminal 5 and ground.

Climate contro	lled seat switch		Continuity
Connector	Terminal	Ground	Continuity
M302 (A)	5		No

### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair harness or connectors.

# 4. CHECK CLIMATE CONTROLLED SEAT SWITCH INDICATOR GROUND CIRCUIT

Check continuity between climate controlled seat switch connector M302 terminal 6 and ground.

Climate contro	lled seat switch		Continuity
Connector	Terminal	Ground	Continuity
M302	6		Yes

# DISCONNECT HIS

### Is the inspection result normal?

YES >> Replace climate controlled seat control unit. Refer to <u>SE-65, "Exploded View"</u>.

NO >> Repair harness or connectors.

# Component Inspection (Climate Controlled Seat Switch Indicator)

INFOID:0000000010049484

# 1. CHECK CLIMATE CONTROLLED SEAT SWITCH

- 1. Disconnect climate controlled seat switch connector.
- 2. Check continuity between climate controlled seat switch terminals.

Term	inals	Continuity		
(+)	(-)	Continuity		
4	6	Continuity exists		
5	_ 6	Continuity exists		
6	4	Continuity does not exist		
	5	Continuity does not exist		

### Is the inspection result normal?

YES >> Inspection End.

NO >> Replace climate controlled seat switch.

### CLIMATE CONTROLLED SEAT CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[WITH CLIMATE CONTROLLED SEATS]

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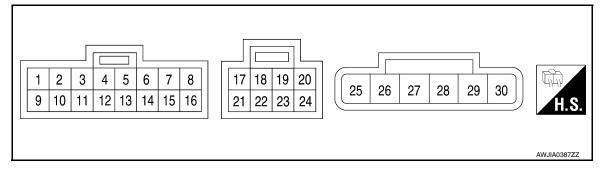
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# **ECU DIAGNOSIS INFORMATION**

# CLIMATE CONTROLLED SEAT CONTROL UNIT

Reference Value

### TERMINAL LAYOUT



### PHYSICAL VALUES

Terminal	Wire color	Item	Signal Input/ Output		Condition		Voltage (Approx.)	
						HI HEAT	2.6V - 3.5V	
4	•	LIEAT '. I		Ignition switch	Climate controlled	MED HEAT	1.6V – 2.5V	
1	0	HEAT switch signal	Input	ON or START	seat switch select	LO HEAT	0.5V - 1.5V	
						OFF	0V	
4	٧	Blower motor speed control signal	Input	Ignition switch ON or START	Climate controlled seat switch select	HEAT or COOL	4.5V – 8.0V	
		Signal		ON OF START	seat switch select	OFF	0V	S
6	В	Blower motor ground	_		_	l	0V	
7	R	Blower motor power supply	Input	Ignition switch Of	N or START		Battery voltage	
						HI COOL	2.6V - 3.5V	
0		COOL avsitab aignal	lanet	Ignition switch	Climate controlled	MED COOL	1.6V – 2.5V	
9	L	COOL switch signal	al Inniit i s	seat switch select	LO COOL	0.5V - 1.5V		
						OFF	0V	
13	G/B	Seat cushion thermal electric device sensor ground	_	Ignition switch Of	N		0V	
14	G/R	Seat cushion thermal electric	Innut	Blower motor operated			0.5V - 4.0V	
14	G/K	device sensor signal	Input	Ignition switch OFF		0V		
15	G/Y	Seatback thermal electric device sensor ground	_	Ignition switch ON		0V		
16	G	Seatback thermal electric de-	Innut	Blower motor operated			0.5V - 4.0V	
10	G	vice sensor signal	Input	Ignition switch OFF		0V		
19	V	COOL switch indicator signal	Output	Ignition switch	Climate controlled	COOL	Battery voltage	
19	V	COOL SWICH INDICATOR SIGNAL	Output	ON or START	seat switch select	OFF	0V	
20	BR	HEAT switch indicator signal	Output	Ignition switch	Climate controlled	HEAT	Battery voltage	
20	אט	TIEM SWILLI IIIUICALUI SIGIIAI	Juipui	ON or START	seat switch select	OFF	0V	
21	GR/W	Ignition switch power supply	Input	Ignition switch Of	N or START		Battery voltage	
24	GR	Climate controlled seat switch power supply	Input	Ignition switch Of	N or START		Battery voltage	

### **CLIMATE CONTROLLED SEAT CONTROL UNIT**

### < ECU DIAGNOSIS INFORMATION >

### [WITH CLIMATE CONTROLLED SEATS]

Terminal	Wire color	Item	Signal Input/ Output		Condition		Voltage (Approx.)
						COOL	Battery voltage
25	Υ	Seatback thermal electric device power supply (COOL)	Output	Ignition switch ON or START	Climate controlled seat switch select	HEAT	0V
						OFF	0V
						COOL	Battery voltage
26	Y/B	Seat cushion thermal electric device power supply (COOL)	Output	Ignition switch ON or START	Climate controlled seat switch select	HEAT	0V
		device perior dappiy (dede2)		01101017		OFF	0V
						HEAT	Battery voltage
27	L/O	Seat cushion thermal electric device power supply (HEAT)	Output	Ignition switch ON or START	Climate controlled seat switch select	COOL	0V
		device perior capping (TIE/TT)		01101017	seat switch select	OFF	0V
						HEAT	Battery voltage
28	L	Seatback thermal electric device power supply (HEAT)	Output	Ignition switch ON or START	Climate controlled seat switch select	COOL	0V
		vide power suppry (TIE/TT)		014 01 0 17 11 11	Seat Switch Select	OFF	0V
29	GR/W	Battery power supply	Input	Ignition switch Of	Ignition switch ON or OFF		Battery voltage
30	GR/B	Ground	_		_		0V

Fail-safe

- Climate controlled seat control unit equips fail-safe function.
- When a malfunction occurs in the systems shown as per the following, climate controlled seat control unit stops output.

Malfunction	Malfunctioning condition			
The temperature difference between the seatback thermal electric device and seat cushion thermal electric device is 30°C (86°F) or more	<ul> <li>When it detects for 4 seconds that the temperature difference between the seatback thermal electric device and seat cushion thermal electric device is 30°C (86°F) or more, stops the output to the thermal electric device, activates the climate controlled seat blower motor in the maximum position, and sends the external airflow for 30 seconds</li> <li>If the temperature difference is still 30°C (86°F) or more after 30 seconds pass, it stops all output and enters the system OFF condition</li> <li>When the temperature difference between seatback thermal electric device and seat cushion thermal electric device becomes 20°C (68°F) or less, the system recovers automatically</li> <li>If it detects that the temperature difference is 30°C (86°F) or more after the automatic system recovery, it immediately stops all output and enters the system OFF condition</li> <li>NOTE:</li> <li>When the switch operation is performed before entering the system OFF condition, the fail-safe mode is reset.</li> </ul>			
The temperature of thermal electric device is 110°C (230°F) or more in the HEAT mode (any thermal electric device in the seatback or seat cushion)	<ul> <li>When it detects for 4 seconds that the temperature of the thermal electric device is 110°C (230°F) or more, stops the output to the thermal electric device, activates the climate controlled seat blower motor in the maximum position, and sends the external airflow for 30 seconds</li> <li>If the temperature does not become 105°C (221°F) or less after 30 seconds pass, it stops all output and enters the system OFF condition</li> <li>When the temperature of the thermal electric device becomes 105°C (221°F) or less, the system recovers automatically</li> <li>If it detects that the temperature of the thermal electric device is 110°C (230°F) or more after the automatic system recovery, it immediately stops all output and enters the system OFF condition</li> </ul>			

### **CLIMATE CONTROLLED SEAT CONTROL UNIT**

< ECU DIAGNOSIS INFORMATION >

## [WITH CLIMATE CONTROLLED SEATS]

Malfunction	Malfunctioning condition
The temperature of the thermal electric device is 45°C (113°F) or more in the COOL mode (any thermal electric device in the seatback or seat cushion)	<ul> <li>When it detects for 4 seconds that the temperature of the thermal electric device is between 45°C (113°F) and 70°C (158°F), it starts the temperature monitoring of the thermal electric device at 3 second intervals</li> <li>While monitoring, if it detects that the temperature raises 2°C (36°F) or more 4 times continuously or reaches 70°C (158°F) or more, it stops all output and enters the system OFF condition</li> <li>If it detects other results of monitoring, it continues activating in the COOL mode</li> </ul>
Thermal electric device sensor system open circuit	When it detects for 4 seconds that the thermal electric device sensor system is an open circuit
Climate controlled seat blower motor system open circuit	When it detects for 2 seconds that climate controlled seat blower motor system is an open circuit while the climate controlled seat is being activated, it stops output to the thermal electric device     When it detects for 10 seconds that the climate controlled seat blower motor system is an open circuit while the climate controlled seat is being activated, it stops all output and enters the system OFF condition NOTE:  After detecting the climate seat blower motor system open circuit for 2 seconds, the system recovers automatically if the activation of the climate controlled seat blower motor is detected for 1 second or more.
Switch input out of the specified range	<ul> <li>When it detects for 4 seconds that the rotary switch input is 30% or less of the vehicle battery voltage, it stops all output and enters the system OFF condition</li> <li>When the switch input returns to a value within the specified range, the system recovers automatically</li> </ul>
HEAT or COOL switch input out of the specified range	<ul> <li>When it detects for 4 seconds that rotary switch input is 6% or less of the vehicle battery voltage, it stops all output and enters the system OFF condition</li> <li>When the switch input returns to a value within the specified range, the system recovers automatically</li> </ul>
System voltage out of range	System voltage* of the climate controlled seat control unit is out of the operation range (8.5 V – 16.5 V)

<sup>\*:</sup> System voltage is the voltage between climate controlled 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.

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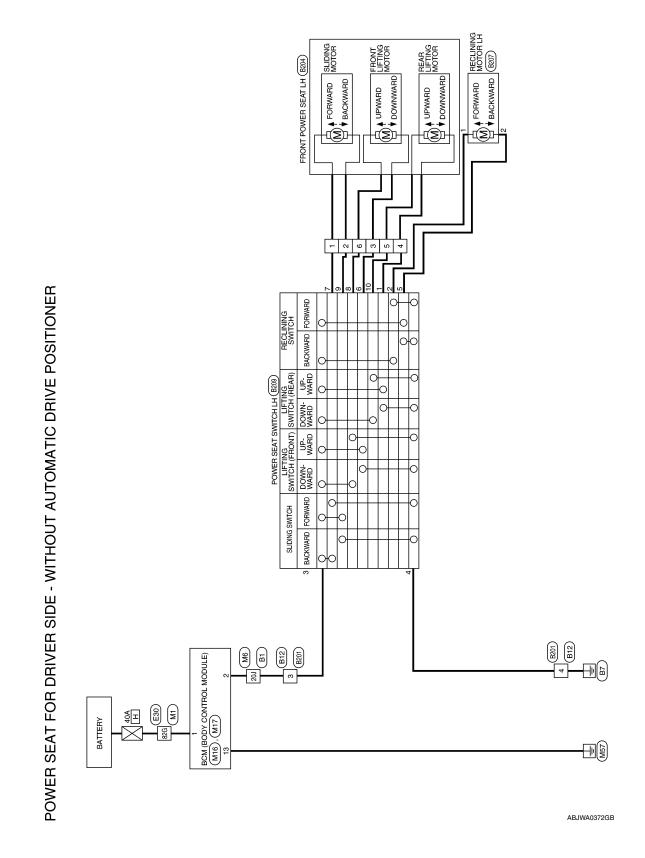
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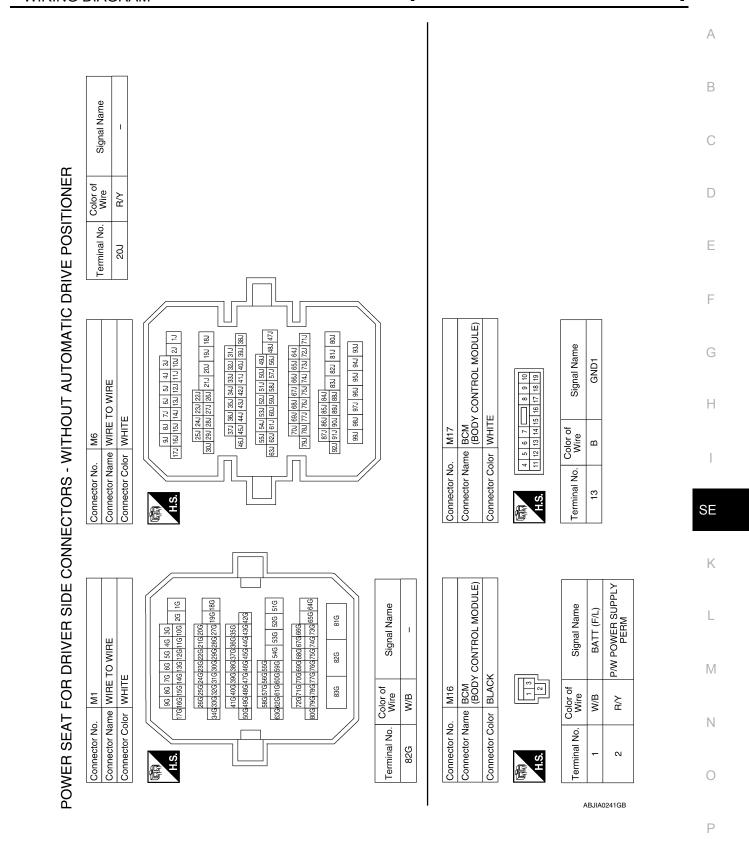
# WIRING DIAGRAM

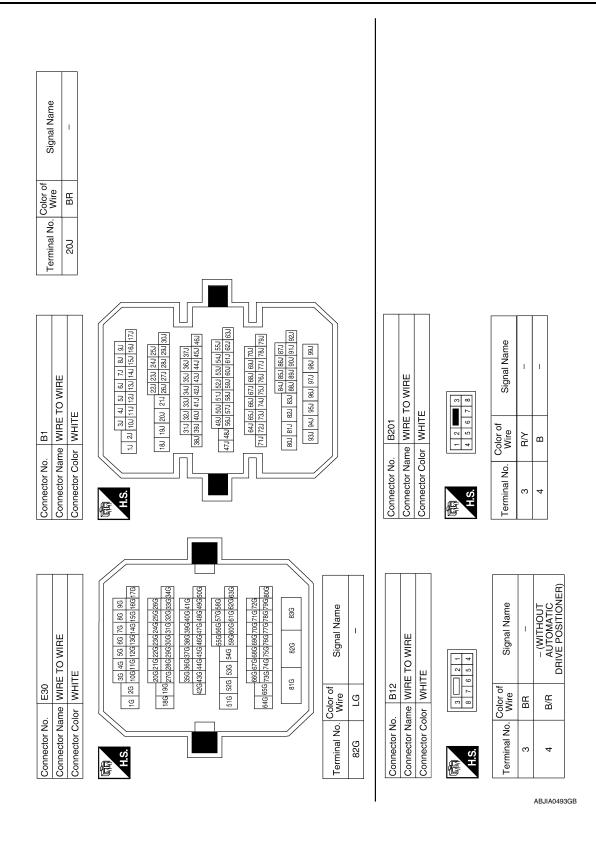
## POWER SEAT FOR DRIVER SIDE

Wiring Diagram - Without Automatic Drive Positioner

INFOID:0000000010049487







### POWER SEAT FOR DRIVER SIDE

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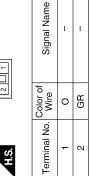
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### [WITH CLIMATE CONTROLLED SEATS]

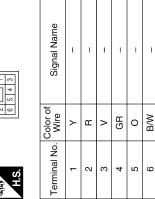
< WIRING DIAGRAM >

Connector No.  Connector Color  Connector Color  Connector Color  Color  Terminal No. W  2 2 2 4 4 4		POWER SEAT SWITCH LH (WITHOUT AUTOMATIC DRIVE POSITIONER) WHITE    4 3
9	>	1
7	>	1
80	В	ı

Connector No.	B207
Connector Name	Connector Name (WITHOUT AUTOMATIC DRIVE POSITIONER)
Connector Color BLACK	BLACK







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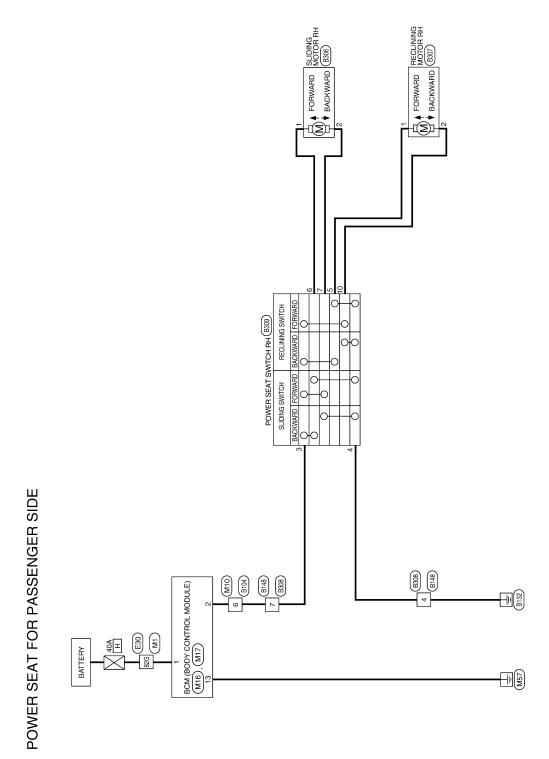
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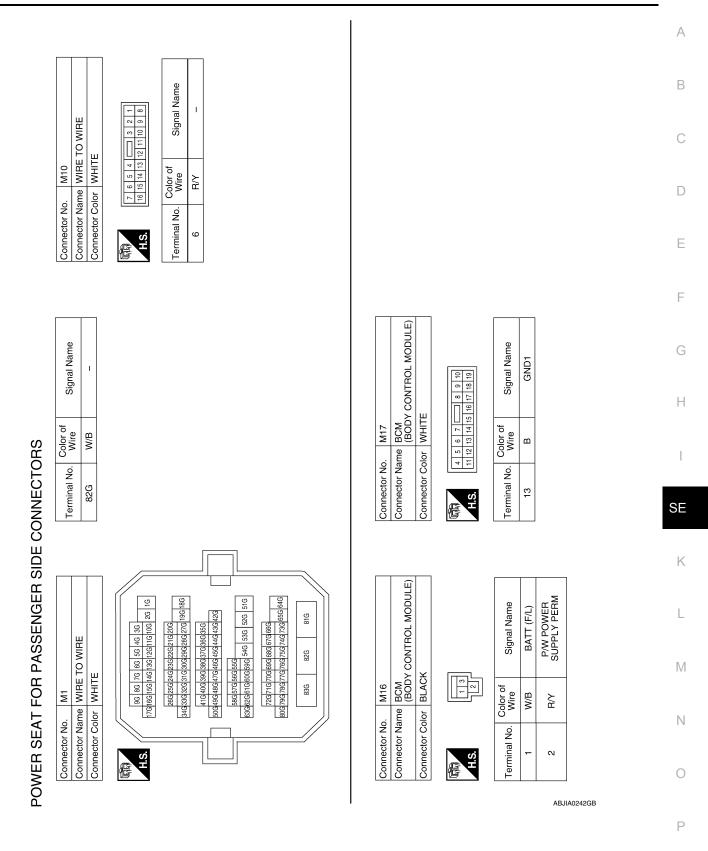
# POWER SEAT FOR PASSENGER SIDE

Wiring Diagram



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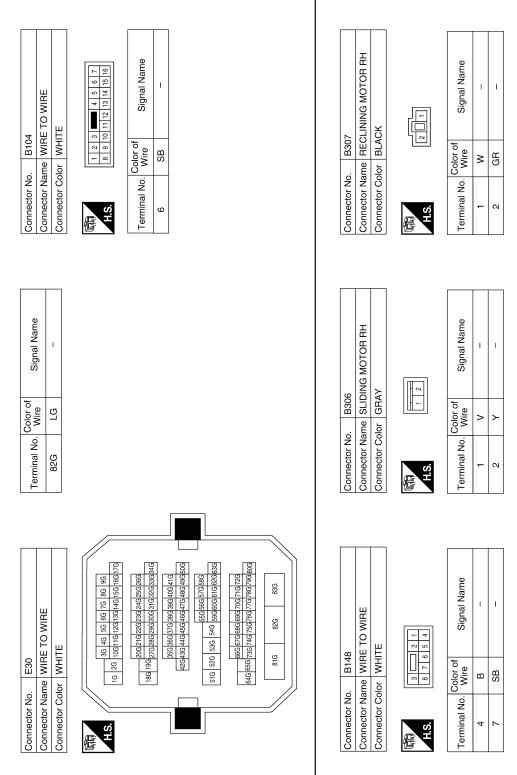
### [WITH CLIMATE CONTROLLED SEATS]



### POWER SEAT FOR PASSENGER SIDE

[WITH CLIMATE CONTROLLED SEATS]

### < WIRING DIAGRAM >



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## POWER SEAT FOR PASSENGER SIDE [WITH CLIMATE CONTROLLED SEATS]

< WIRING DIAGRAM >

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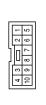
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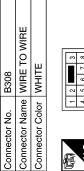
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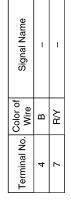
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B309	Connector Name POWER SEAT SWITCH RH	WHITE
Connector No.	Connector Name	Connector Color WHITE



Signal Name	_	1	1	I	ı	-
Color of Wire	R/Y	В	Μ	۸	>	GR
Terminal No.	3	4	2	9	7	10



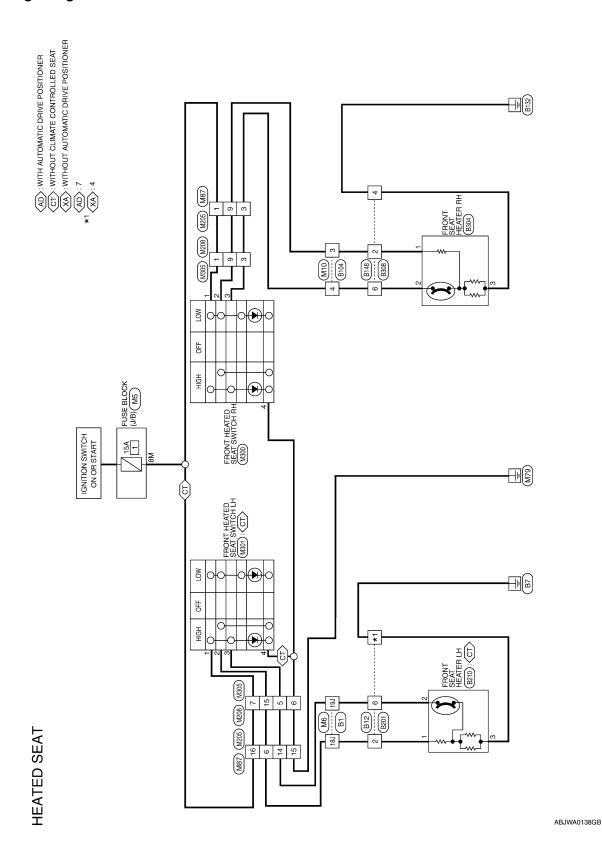


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# **HEATED SEAT**

Wiring Diagram



HEATED SEAT CONNECTORS

WIND   Terminal No.   Wire			Connector Color BROWN	H.S.	Terminal No. Wire		3 GR/B		В		16 G/R	
20 19 18 10 20 10 18 18 18 19 18 18 18 18 18 18 18 18 18 18 18 18 18			Connector Co	, vi	Terminal No.	- (	m   w	6	14	15	16	
200   19.0   20.0   19.0   20.0   19.0   20.0   19.0   20.												
Connector Name   WIRE TO WIRE		Connector No. M87 Connector Name WIRE TO WIRE	Connector Color   BROWN	7 6 5 4	Terminal No. Wire Signal Name	1 G/R –	3 GR/B –	GR/L	t.	15 B –	16 G/R –	
Connector No. M/S Connector Name FUSE BLOCK (J/B) Connector Color WHITE  SM MAM MAM MAM MAM MAM MAM MAM MAM MAM M			Connector Color   WHITE	7 6 5 4 3 2 1 16 15 14 13 12 11 10 9 8	Terminal No. Color of Signal Name	3 GR/L –	4 GR/B –					

Connector Name   WIRE TO WIRE				1	
מוופ אוויר ו	Connector Name FF	FRONT HEATED SEAT SWITCH BH	Connector Name		FRONT HEATED SEAT SWITCH LH
Connector Color WHITE	Connector Color BI	BROWN	Connector Color	-	
1 2 3	E P	2 5 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	南 H.S.	2 4 2 2	<u> </u>
Terminal No.   Color of   Signal Name	Terminal No.	of Signal Name	Terminal No.		Signal Name
G/R –	1		,	>	
GR/B –		1		ո	1
GR/R –		1	0	8	1
В		1	m	0	1
G/R –	4 B	1	4	<b>B</b>	1
GR/L –					
GR –					
Connector No. M305	Connector No. B1		- H		
Connector Name WIRE TO WIRE	Connector Name W	WIRE TO WIRE		>	Olgilai Naille
Connector Color WHITE	Connector Color W	WHITE	187	>	ı
			197	0	ı
7 6 5 4	H.S.	33 43 53 63 73 83 93 100 110 120 130 144 153 163 170			
Terminal No.   Color of   Signal Name	183 19	19J 20J 21J 26J 27J 28J 29J 30J			
SB		31.) 32.) 33.) 34.) 35.) 36.) 37.]	7 [		
GR –	387	38J 39J 40J 41J 42J 43J 44J 45J 46J			
- 0		49J 50J 51J 52J 53J 54J 55J			
В	47) 487	56J 57J 58J 59J 60J 61J 62J 63J			
٦		641 651 661 673 681 691 700			
5		713 723 733 743 753 763 773 783 793			
M		843 853 863 873			
	80/18:	83   941   953   961   973   990   913   923   933   941   954   965   974   985   990			

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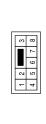
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[	3     2   1	Color of Wire     Signal Name     Terminal No. Wire     Color of Wire     Signal Name     Terminal No. Word       W     3     G     -     2	B/R         - (WITHOUT AUTOMATIC DRIVE POSITIONER)         4         B         -	- 0	B/W CONTROLLED SEAT)	B201 Connector No. B210 Connector No.		1 2 m 3 4 5 6 7 8 H.S. 2 3	No.     Color of Wire     Signal Name     Color of Wire     Signal Name     Signal Name     Signal Name	GR - 1 GR - 1 GR/G -	B - 2 GR/M - 2 GR/R -	GR/W - 3 W/B - 3 B -	GR/B –	
	H.S.	Terminal No. Wire		0 9	7 B/W	Connector No. B	nector Name W		Terminal No. Wire	2 GR		6 GRA	7 GR/I	

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Signal Name	ı	1	-
Color of Wire	GR/G	В	GR/R
Terminal No.	2	4	9

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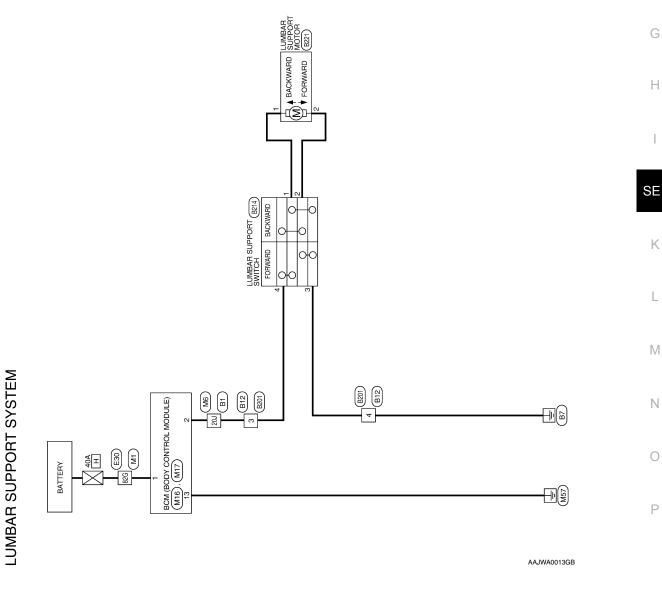
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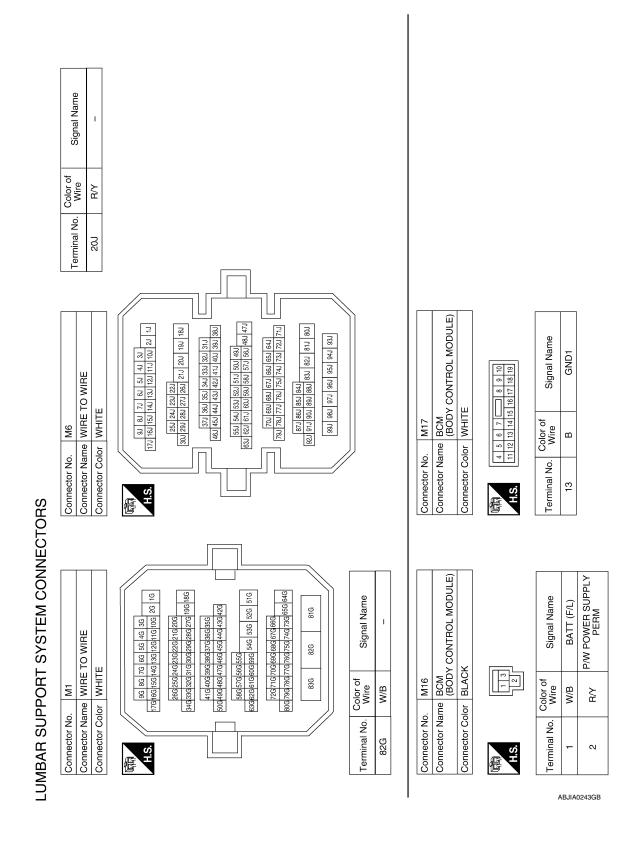
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## **LUMBAR SUPPORT SYSTEM**

Α Wiring Diagram INFOID:0000000010049490



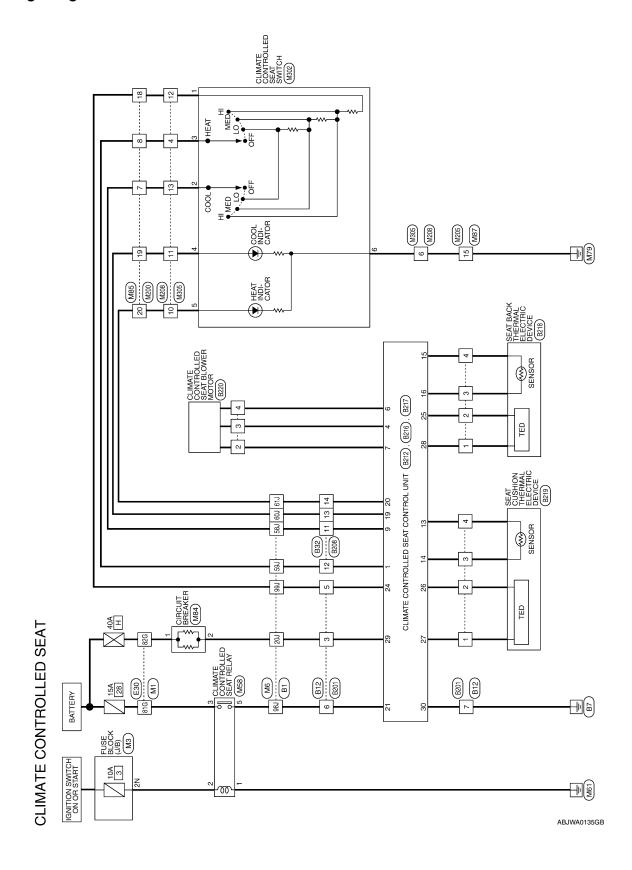


## **LUMBAR SUPPORT SYSTEM**

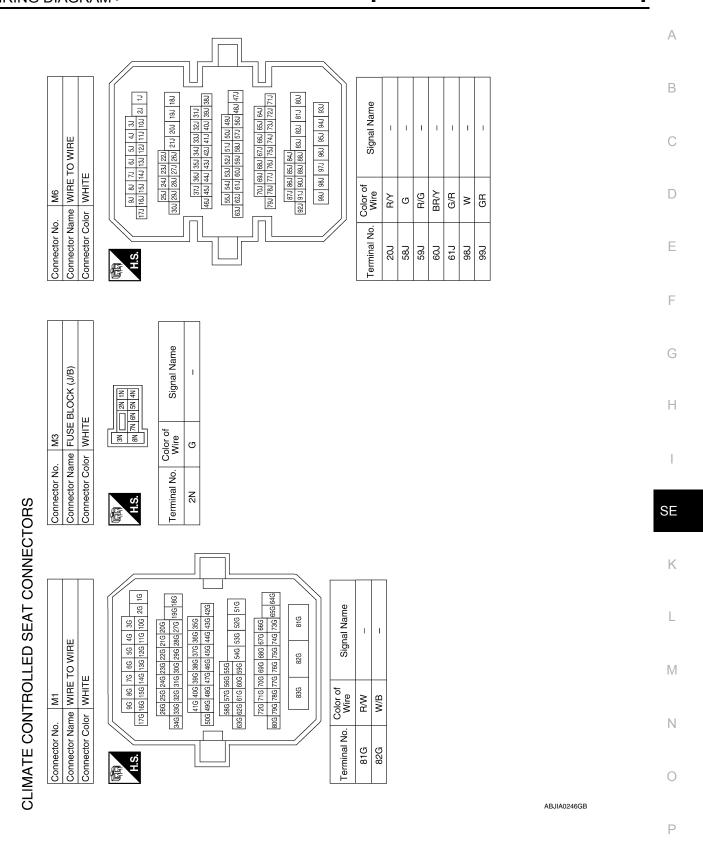
Signal Name  - (WITHOUT AUTOMATIC DRIVE POSITIONER)	Connector No. B221  Connector Name LUMBAR SUPPORT MOTOR  Connector Color BLACK  LAS  Terminal No. Wire Signal Name  1 R/L -  2 R/W -	B C
0. B12 ame WIRE TO Olor WHITE  Color of BR  B/R  DF	o. B221 ame LUMBA olor BLACK Color of Wire R/L R/W	D
Connector No. B12 Connector Name WIRE TO WIRE Connector Color WHITE  Terminal No. Wire Signa 3 BR – (WIT 4 B/R DRIVE PC	Connector No. Connector Color Connector Color Terminal No. W 2 R	Е
		F
B1	Connector No.         B214           Connector Name         LUMBAR SUPPORT SWITCH           Connector Color         WHITE           Terminal No.         Color of Wire         Signal Name           1         R/L         -           2         R/W         -           3         B         -           4         R/Y         -	G
B1   WIRE TO   WHITE	2. B214 ame LUMBAF olor WHITE  Color of Wire  R/L B/W	I
Connector No.   B1	Connector No. Connector Name Connector Color Terminal No. W  1 F 2 R 3 3 4 R	SE
		K
E30   WIRE TO WIRE     State   State	O WIRE  Signal Name	L
E30   WHITE	B201   Or WHITE TO WHITE TO WHITE TO WHITE   A 5 6 7 7   Or Or Of Wire   B   A 7 4 6 7   Or	
Connector No.   E30	Connector No. B201 Connector Name WIRE TO WIRE Connector Color WHITE  ##\$  ##\$    1   2   -   3     4   5   7   8     3   R/Y     4   B	0
	ABJIA0495GB	Р

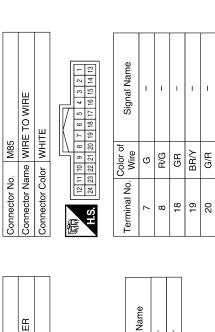
## **CLIMATE CONTROLLED SEAT**

Wiring Diagram



## **CLIMATE CONTROLLED SEAT**





TO WIRE	N	2 3	Signal Name	ı
. M205	lor BRO		Color of Wire	В
Connector No. M205 Connector Name WIRE TO WIRE	Connector Color BROWN	所 H.S.	Terminal No.	15

Connector Na	ame CIR	Connector Name CIRCUIT BREAKER
Connector Color WHITE	olor WH	ITE
是 H.S.		
Terminal No.	Color of Wire	Signal Name
-	M/B	ı
c	2	1

Connector No.		
Na	Connector Name   WIRE	WIRE TO WIRE
S	Connector Color WHITE	
1 1 2 14	3 4 5 6 4 15 16 17 18	7 8 9 10 11 12 19 20 21 22 23 24
Terminal No.	Color of Wire	Signal Name
	g	ı
	R/G	ſ
	GR	I
	BR/Y	I
	G/R	I

Connector No.	M58
Connector Name	Connector Name   CLIMATE CONTROLLED   SEAT RELAY
Connector Color BLUE	BLUE
些	8 4

Connector No.

Signal Name	ı	-	_	I
Color of Wire	В	В	B/W	Μ
Terminal No.	-	2	3	2

	TO WIRE	NA	3 2 1	Signal Name	1
. M87	me WIRE	lor BROV	6 5 4	Color of Wire	В
Connector No.	Connector Name WIRE TO WIRE	Connector Color BROWN	H.S.	Terminal No.	15

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## **CLIMATE CONTROLLED SEAT**

[WITH CLIMATE CONTROLLED SEATS]

## < WIRING DIAGRAM >

Connector Name   WIRE TO WIRE																						
Connector Name   WHE TO WIFE	щ		gnal Name	1	1	I	1	1	1													
Connector Color   WHITE   Connector Color   WHITE	WIRE IO WIR	2 11 10		>	В	0	BR	> (	5]													
Connector Color MHITE    1   2   3   1   1   1   1   1   1   1   1   1	Connector Colo	ν;		4	9	10	<u> </u>	12	13													
1   2		]		Т			<u> </u>															
Connector Name   WIRE TO WIRE	E CONTROLLED WITCH	883	Signal Name	1	ı	ı	1	ı	1	Signal Name	1	I										
Connector Name   WIRE TO WIRE  Connector Color   WHITE  1 2 3		1 4 9 5 6		_	: 5	>	BB	0	В	Color of Wire	Д	re										
Connector Name   WIRE TO WIR	Connector N	H.S.	Terminal No	-	.   2	ı m	4	2	9	Terminal No	81G	82G										
Connector Name   WIRE TO WIRE		Г							_			7	//									
Connector Name Connector Color  Terminal No. Connector No. Connector No. Connector No. Connector No. Connector No. Connector Color  Tig 2  Fig 2  Fig 2  Fig 2  Fig 2  Fig 3  Fig 3  Fig 3  Fig 3  Fig 4  Fig 3  Fig 4  Fig	WIRE		Signal Name	1	ı	I	1	I	1	L	VIZE					38G 39G 40G 41G	469 479 499 309 55G 56G 57G 58G	59G 60G 61G 62G 63G	G 69G 70G 71G 72G G 76G 77G 78G 79G 80G		$-\parallel\parallel$	
Connector Na.  Connector No.  Connector No.  Connector No.  Connector Na.  Connector Na.  Connector Na.	me WIRE TO	8 9 10 11 12	Color of Wire	B/G	В	G/R	BR/Y	GR GR	5	E30	or WHITE		36 46 56	23	20G 21G 22G 8G 19G 27G 28G 29G	35G 36G 37G	429 439 449 439	51G 52G 53G 54G	66G 67G 68 64G 65G 73G 74G 75		$-\parallel\parallel$	
	Connector Nai	νį	_	4	9	10	= 9	12	13	Connector No.	Connector Nar		<b>E</b>	<u> </u>	=					- 	//	
	_										•	_		_						А	ABJIA0387	7GB

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	r WHITE		7 5	8 7 6 5 4		Color of Signal Name Wire	BR -		- 0	B/Y — (WITH CLIMATE CONTROLLED SEAT)	B208	Connector Name WIRE TO WIRE	or WHITE	12 3 4 5 6 7 8 10 11 12 13 14 15 16	Color of Signal Name	BR -		- 7	0
Connector No.	Connector Color	ą	古山	H.S.		Terminal No.	б	rC	9	7	Connector No.	Connector Nam	Connector Color	E.S.	Terminal No.	+	12	13	14
Signal Name	1	1 1	1	ı	I	1						TO WIRE		<u>⊗</u> <u>⊗</u> <u></u>	Signal Name	1	ı	1	1
Wire	בים מ	¥ _	ŋ	0	0	8					). B201	ame WIRE	olor WHIT	2 C C C C C C C C C C C C C C C C C C C	Color of Wire	R/Y	GR	GR/W	GR/B
Terminal No.	707	597	P09	61J	981	Г66					Connector No.	Connector Name WIRE TO WIRE	Connector Color WHITE	南 H.S.	Terminal No.	3	5	9	7
Connector No. B1 Connector Name WIRE	WHITE		31 41 51 61 72 81 93	12, 13, 14,	120   120   120   120	200   211   260   271   281   291   301	31.] 32.] 33.] 34.] 35.] 36.] 37.]	7		47.J 48.J 56.J 57.J 58.J 59.J 60.J 61.J 62.J 63.J 64.J 65.J 66.J 67.J 68.J 69.J 70.J		Connector Name WIRE TO WIRE	WHITE	12 4 11 10 9 1	Signal Name	1	ı	ı	ı

## **CLIMATE CONTROLLED SEAT**

## [WITH CLIMATE CONTROLLED SEATS]

< WIRING DIAGRAM >

Connector No.	B216
Connector Name	Connector Name CLIMATE CONTROLLED SEAT CONTROL UNIT
Connector Color BLACK	BLACK

Signal Name

Color of Wire

Terminal No. 10 Ξ 12 13

				œ	~					1
3 24	Signal Name	ı	ı	COOL ON INDICATOR	HEAT ON INDICATOR	NSI	1	_	HEAT/COOL SW RESISTOR PWR	
21 22 23 24	Color of Wire	ı	ı	>	BR	GR/W	ı	1	GR	
	Ferminal No.	17	18	19	20	21	22	23	24	

BACK SENSOR GND

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BACK SENSOR SIGNAL

CUSHION SENSOR SIGNAL

4 15 16

CUSHION SENSOR GND

Signal Name	-	_	COOL ON INDICAT	HEAT ON INDICAT	NÐI	-	-	HEAT/COOL SW RESISTOR PWF	
Color of Wire	-	_	۸	BR	GR/W	1	_	GR	
Terminal No.	17	18	19	20	21	22	23	24	

	6	SEAT CUSHION THERMAL ELECTRIC DEVICE	TE	3 2 1	Signal Name	1	ı	1	-
	. B219	me SEA ELE	lor WHITE	4	Color of Wire	9	Y/B	G/R	G/B
	Connector No.	Connector Name	Connector Color	响 H.S.	Terminal No.	-	2	3	4
l									
		3ACK THERMAL RIC DEVICE			Signal Name	ı	1	ı	ı
	B218	SEAT BACK THERMAL ELECTRIC DEVICE	WHITE	4 3 2 1		- 7	\ \		G/Y –
	Connector No. B218	Connector Name SEAT BACK THERMAL ELECTRIC DEVICE	Connector Color WHITE		Terminal No. Wire Signal Name	-		3 @	4 G/Y –

	CLIMATE CONTROLLED SEAT CONTROL UNIT	*	
Connector No. B212	Connector Name CLIMATE CONTROLLED SEAT CONTROL UNIT	Connector Color BLACK	



2 3 4 5 6 7 8 10 11 12 13 14 15 16	Signal Name	HEAT SWITCH INPU	ı	I	BLOWER MOTOR SPEED CONTROI	ı	BLOWER GND	BLOWER POWER	I	COOL SWITCH INPL
9 10 11	Color of Wire	0	ı	ı	>	1	В	œ	1	_
H.S.	Terminal No.	-	2	က	4	5	9	7	8	6

		CLIMATE CONTROLLED SEAT CONTROL UNIT	X	27 28 29 30	Signal Name	BACK TED 1	CUSHION TED 1	CUSHION TED 2	BACK TED 2	BAT (PTC)	GND
T	.   B217		lor BLACK	25 26	Color of Wire	>	Y/B	9	٦	GR/W	GR/B
	Connector No.	Connector Name	Connector Color	赋利 H.S.	Terminal No.	25	26	27	28	29	30

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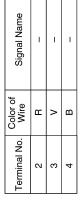
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## **CLIMATE CONTROLLED SEAT SYSTEM**

< SYMPTOM DIAGNOSIS >

## [WITH CLIMATE CONTROLLED SEATS]

# SYMPTOM DIAGNOSIS

## **CLIMATE CONTROLLED SEAT SYSTEM**

Symptom Table

Sym	ptom	Inspection item
Climate controlled seat	inoperative.	Power supply and ground circuit  Refer to SE-8, "CLIMATE CONTROLLED SEAT CONTROL UNIT : Diagnosis  Procedure".
Climate controlled seat I	plower motor inoperative.	Climate controlled seat blower motor Refer to SE-12, "Diagnosis Procedure".
Seat cushion thermal ele	ectric device inoperative.	Seat cushion thermal electric device Refer to SE-15. "Diagnosis Procedure".
Seatback thermal electr	ic device inoperative.	Seatback thermal electric device Refer to SE-18. "Diagnosis Procedure".
Climate controlled seat operative.	switch LO, MED or HI in-	Climate controlled seat switch Refer to SE-20, "Diagnosis Procedure".
Climate controlled seat tive.	switch indicator inopera-	Climate controlled seat switch indicator Refer to SE-23, "Diagnosis Procedure".
Climate controlled seat turns off too soon.	Climate controlled seat switch indicator turns off within 10 seconds of turning on.	<ul> <li>Malfunction caused by electrical issue. Check the following:</li> <li>Connectors for physical damage or loose terminals.</li> <li>Seat cushion thermal electric device. Refer to <u>SE-15</u>. "<u>Diagnosis Procedure</u>".</li> <li>Seatback thermal electric device. Refer to <u>SE-18</u>. "<u>Diagnosis Procedure</u>".</li> <li>Climate controlled seat blower motor. Refer to <u>SE-12</u>, "<u>Diagnosis Procedure</u>".</li> </ul>
	Climate controlled seat switch indicator turns off 30 seconds or more after turning on.	Malfunction caused by mechanical issue. Check the following:  Foam seat pads not aligned for thermal electric device outlet.  Thermal electric device ducting restricted or disconnected.  Climate controlled seat blower motor inlet restricted.

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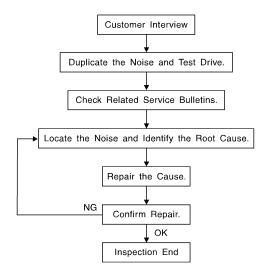
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## SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow (INFOID:000000010049493



SBT842

### **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 customer's comments; refer to <u>SE-56</u>, "<u>Diagnostic Worksheet</u>". 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 test driving the vehicle with the customer.
- After identifying the type of noise, isolate the noise in terms of its characteristics. The noise characteristics
  are provided so the customer, service adviser and technician are all speaking the same language when
  defining the noise.
- Squeak —(Like tennis shoes on a clean floor)
  - Squeak characteristics include the light contact/fast movement/brought on by road conditions/hard surfaces = higher pitch noise/softer surfaces = lower pitch noises/edge to surface = chirping.
- Creak—(Like walking on an old wooden floor)
  - Creak characteristics include firm contact/slow movement/twisting with a rotational movement/pitch dependent on materials/often brought on by activity.
- Rattle—(Like shaking a baby rattle)
  - Rattle characteristics include the fast repeated contact/vibration or similar movement/loose parts/missing clip or fastener/incorrect clearance.
- Knock —(Like a knock on a door)
  - Knock characteristics include hollow sounding/sometimes repeating/often brought on by driver action.
- Tick—(Like a clock second hand)
  - Tick characteristics include gentle contacting of light materials/loose components/can be caused by driver action or road conditions.
- Thump—(Heavy, muffled knock noise)
  - Thump characteristics include softer knock/dead sound often brought on by activity.
- Buzz—(Like a 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 you may judge
  as acceptable may be very irritating to the customer.
- Weather conditions, especially humidity and temperature, may have a great effect on noise level.

### DUPLICATE THE NOISE AND TEST DRIVE

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

SQUEAK AND RATTLE TROUBLE DIAGNOSES	
< SYMPTOM DIAGNOSIS > [WITH CLIMATE CONTROLLED SEATS	;]
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.	li-
<ul><li>2) Tap or push/pull around the area where the noise appears to be coming from.</li><li>3) Rev the engine.</li></ul>	
4) Use a floor jack to recreate vehicle "twist".	В
5) At idle, apply engine load (electrical load, half-clutch on M/T model, drive position on CVT and A/T models 6) Raise the vehicle on a hoist and hit a tire with a rubber hammer.	:).
<ul> <li>Drive the vehicle and attempt to duplicate the conditions the customer states exist when the noise occurs.</li> <li>If it is difficult to duplicate the noise, drive the vehicle slowly on an undulating or rough road to stress the vehicle body.</li> </ul>	ne C
CHECK RELATED SERVICE BULLETINS	D
After verifying the customer concern or symptom, check ASIST for Technical Service Bulletins (TSBs) relate to that concern or symptom.	ed .
If a TSB relates to the symptom, follow the procedure to repair the noise.	Е
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 to (Chassis Ear: J-39570, Engine Ear: J-39565 and mechanic's stethoscope).	ol F
<ul> <li>Narrow down the noise to a more specific area and identify the cause of the noise by:</li> <li>removing the components in the area that you suspect the noise is coming from.</li> <li>Do not use too much force when removing clips and fasteners, otherwise clips and fasteners can be broken or lost during the repair, resulting in the creation of new noise.</li> </ul>	ne G
<ul> <li>tapping or pushing/pulling the component that you suspect is causing the noise.</li> <li>Do not tap or push/pull the component with excessive force, otherwise the noise will be eliminated on temporarily.</li> </ul>	ly <sub>H</sub>
<ul> <li>feeling for a vibration with your hand by touching the component(s) that you suspect is (are) causing the noise.</li> </ul>	ie
<ul> <li>placing a piece of paper between components that you suspect are causing the noise.</li> <li>looking for loose components and contact marks.</li> </ul>	I
Refer to SE-53, "Generic Squeak and Rattle Troubleshooting".	SE
REPAIR THE CAUSE	SE
<ul> <li>If the cause is a loose component, tighten the component securely.</li> <li>If the cause is insufficient clearance between components:</li> </ul>	
- separate components by repositioning or loosening and retightening the component, if possible.	K
<ul> <li>insulate components with a suitable insulator such as urethane pads, foam blocks, felt cloth tape or urethan tape. A NISSAN Squeak and Rattle Kit (J-50397) is available through your authorized NISSAN Parts Depart</li> </ul>	
ment.  CAUTION:	L
Do not use excessive force as many components are constructed of plastic and may be damaged.	
NOTE:	1. //
<ul> <li>Always check with the Parts Department for the latest parts information.</li> <li>The materials contained in the NISSAN Squeak and Rattle Kit (J-50397) are listed on the inside cover of the</li> </ul>	M ne
kit; and can each be ordered separately as needed.	
The following materials not found in the kit can also be used to repair squeaks and rattles.	N

- SILICONE GREASE: Use instead of UHMW tape that will be visible or does not fit. The silicone grease will only last a few months.
- SILICONE SPRAY: Use when grease cannot be applied.
- DUCT TAPE: Use to eliminate movement.

### **CONFIRM THE REPAIR**

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

## Generic Squeak and Rattle Troubleshooting

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

#### INSTRUMENT PANEL

Most incidents are caused by contact and movement between:

**SE-53** Revision: August 2013 2014 Maxima NAM

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### SQUEAK AND RATTLE TROUBLE DIAGNOSES

#### < SYMPTOM DIAGNOSIS >

[WITH CLIMATE CONTROLLED SEATS]

- Cluster lid A and the instrument panel
- 2. Acrylic lens and combination meter housing
- Instrument panel to front pillar finisher
- 4. Instrument panel to windshield
- Instrument panel pins
- Wiring harnesses behind the combination meter
- 7. A/C defroster duct and duct joint

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

#### **CAUTION:**

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

#### CENTER CONSOLE

Components to pay attention to include:

- Shift selector 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:

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

Tapping or moving the components or pressing on them while driving to duplicate the conditions can isolate many of these incidents. You can usually insulate the areas with felt cloth tape or insulator foam blocks from the NISSAN Squeak and Rattle Kit (J-50397) to repair the noise.

#### TRUNK

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

- Trunk lid bumpers out of adjustment
- 2. Trunk lid striker out of adjustment
- 3. The 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. Sun visor 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.

### OVERHEAD CONSOLE (FRONT AND REAR)

Overhead console noises are often caused by the console panel clips not being engaged correctly. Most of these incidents are repaired by pushing up on the console at the clip locations until the clips engage. In addition look for:

- Loose harness or harness connectors.
- 2. Front console map/reading lamp lens loose.

## SQUEAK AND RATTLE TROUBLE DIAGNOSES

#### < SYMPTOM DIAGNOSIS >

[WITH CLIMATE CONTROLLED SEATS]

3. Loose screws at console attachment points.

#### SEATS

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

Cause of seat noise include:

Headrest rods and holder

- 2. A squeak between the seat pad cushion and frame
- The rear seatback lock and bracket

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

#### UNDERHOOD

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

Causes of transmitted underhood noise include:

- 1. Any component installed to the engine wall
- 2. Components that pass through the engine wall
- 3. Engine wall mounts and connectors
- Loose radiator installation 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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## **Diagnostic Worksheet**

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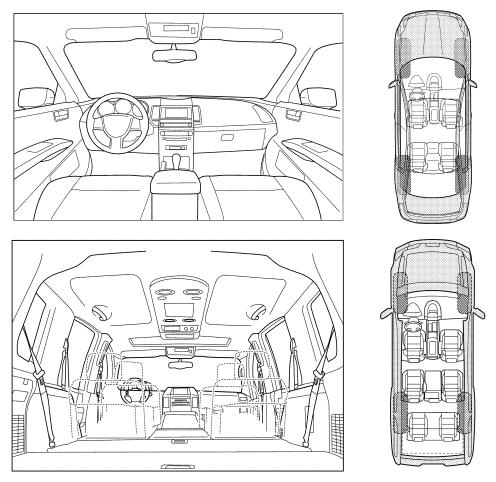
#### Dear Customer:

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

#### **SQUEAK & RATTLE DIAGNOSTIC WORKSHEET**

## 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.

## **SQUEAK AND RATTLE TROUBLE DIAGNOSES**

< SYMPTOM DIAGNOSIS >

[WITH CLIMATE CONTROLLED SEATS]

,	oise occurs:	
II. WHEN DOES IT OCCUR? (please cl	neck the boxes that apply)	
☐ Anytime	☐ After sitting out in the rain	
1st time in the morning	☐ When it is raining or wet	
Only when it is cold outside	Dry or dusty conditions	
Only when it is hot outside	☐ Other:	
III. WHEN DRIVING:	IV. WHAT TYPE OF NOISE	
☐ Through driveways	☐ Squeak (like tennis shoes on a clean floor)	
Over rough roads	☐ Creak (like walking on an old wooden floor)	
Over speed bumps	Rattle (like shaking a baby rattle)	
Only about mph	☐ Knock (like a knock at the door)	
On acceleration	Tick (like a clock second hand)	
Coming to a stop	Thump (heavy muffled knock noise)	
On turns: left, right or either (circle)	Buzz (like a bumble bee)	
☐ With passengers or cargo		
Other:		
Other: miles or mi		_
Other:		
Other: miles or mi  After driving miles or mi  TO BE COMPLETED BY DEALERSHIP	PERSONNEL  YES NO Initials of person	
Other: miles or mi  After driving miles or mi  TO BE COMPLETED BY DEALERSHIP  Test Drive Notes:  Vehicle test driven with customer - Noise verified on test drive	PERSONNEL  YES NO Initials of person	
Other: Miles or mi  After driving miles or mi  TO BE COMPLETED BY DEALERSHIP  Test Drive Notes:  Vehicle test driven with customer - Noise verified on test drive - Noise source located and repaired	YES NO Initials of person performing	
Other: miles or mi  After driving miles or mi  TO BE COMPLETED BY DEALERSHIP  Test Drive Notes:  Vehicle test driven with customer - Noise verified on test drive	YES NO Initials of person performing	
Other: miles or mi  After driving miles or mi  TO BE COMPLETED BY DEALERSHIP  Test Drive Notes:  Vehicle test driven with customer - Noise verified on test drive - Noise source located and repaired - Follow up test drive performed to conf	YES NO Initials of person performing	

## **PRECAUTION**

## **PRECAUTIONS**

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

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the SR and SB section 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 SR section.
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

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

#### **WARNING:**

- When working near the Airbag Diagnosis Sensor Unit or other Airbag System sensors with the Ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the Ignition OFF, disconnect the battery and wait at least 3 minutes before performing any service.

Service Notice

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

### Precaution for Work

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

- may be subject to interference, be sure to protect it with a shop cloth.
  When removing (disengaging) components with a screwdriver or similar tool, be sure to wrap the component with a shop cloth or vinyl tape to protect it.
- Protect the removed parts with a shop cloth and prevent them from being dropped.
- Replace a deformed or damaged clip.
- If a part is specified as a non-reusable part, always replace it with a new one.
- Be sure to tighten bolts and nuts securely to the specified torque.
- After installation is complete, be sure to check that each part works properly.
- Follow the steps below to clean components:
- Water soluble dirt:
- Dip a soft cloth into lukewarm water, wring the water out of the cloth and wipe the dirty area.
- Then rub with a soft, dry cloth.
- Oily dirt:

## **PRECAUTIONS**

### < PRECAUTION >

## [WITH CLIMATE CONTROLLED SEATS]

- Dip a soft cloth into lukewarm water with mild detergent (concentration: within 2 to 3%) and wipe the dirty area.
- Then dip a cloth into fresh water, wring the water out of the cloth and wipe the detergent off.
- Then rub with a soft, dry cloth.
- Do not use organic solvent such as thinner, benzene, alcohol or gasoline.
- For genuine leather seats, use a genuine leather seat cleaner.

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## **PREPARATION**

< PREPARATION >

## [WITH CLIMATE CONTROLLED SEATS]

# **PREPARATION**

## **PREPARATION**

**Special Service Tools** 

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Tool number (TechMate No.) Tool name		Description
— (J-39570) Chassis Ear	SIIAO993E	Locating the noise
— (J-46534) Trim Tool Set	AWJIA0483ZZ	Removing trim components
— (J-50397) NISSAN Squeak and Rattle Kit	XX PRINTED V VIDENCE	Repairing the cause of noise

## Commercial Service Tools

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(TechMate No.) Tool name		Description	
(J-39565) Engine Ear	SIIA0995E	Locating the noise	
Hook and pick tool	JMJIA0490ZZ	Remove the snap pins	

## [WITH CLIMATE CONTROLLED SEATS]

## **CLIP LIST**

# **Descriptions for Clips**

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## Replace any clips which are damaged during removal or installation.

Symbol No.	Shapes	Removal & Installation
C101		Removal: Remove by bending up with flat-bladed screwdrivers or clip remover.
C103	TTTT	Removal: Remove with a clip remover.
C203 [ (7)		Removal: Push center pin to catching position. (Do not remove center pin by hitting it.) Push  Push  Installation:
C205		Removal: Flat-bladed screwdriver  Clip Finisher
C206		Removal:

SIIA0315E

## [WITH CLIMATE CONTROLLED SEATS]

Symbol No.	Shapes	Removal & Installation
CE103		Removal:
CF110	Clip A	Removal:  Finisher Clip A  Flat-bladed screwdrivers  Clip B
CF118	Clip A Clip B (Grommet)	Removal:  Flat-bladed screwdrivers  Body panel  Clip A Clip B (Grommet)
CR103		Removal: Holder portion of clip must be spread out to remove rod.
CS101		Removal:  1. Screw out with a Phillips screwdriver.  2. Remove female portion with flat-bladed screwdriver.

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## [WITH CLIMATE CONTROLLED SEATS]

Symbol No.	Shapes	Removal & Installation
CG101		Removal: Installation:  Rotate 45° to remove  Removal:
CS102	(X)	
CS113		Removal: Disconnect upper connection of clip with a flat-bladed screwdriver, then remove clip while inserting a flat-bladed screwdriver between body panel and clip.
C111		

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Symbol No.	Shapes	Removal & Installation
CG104		Removal: Remove by bending up with flat-bladed screwdrivers.
		Radiator grille  Body panel
CE114		
CF118	Clip A  Clip B (Grommet)	Removal: Flat-bladed Finisher screwdrivers Body panel Clip A Clip B (Grommet)

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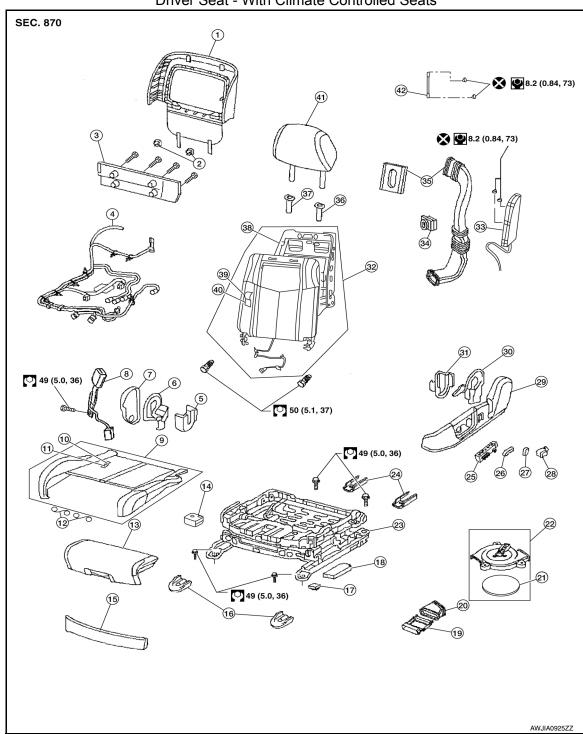
# REMOVAL AND INSTALLATION

## **FRONT SEAT**

**Exploded View** 

**DRIVER** 

Driver Seat - With Climate Controlled Seats



- Seatback board
- Seat harness
- Seat cushion outer finisher (RH)
- 2. Seatback board clip
- 5. Seat cushion inner finisher inside (RH) 6.
- 8. Seat belt buckle

- Recline mechanism inner cover
- Seat cushion assembly

Seat cushion lower rear finisher

## **FRONT SEAT**

## < REMOVAL AND INSTALLATION >

## [WITH CLIMATE CONTROLLED SEATS]

10.	Seat cushion trim	11.	Seat cushion pad	12.	Thigh extension tether
13.	Thigh extension assembly	14.	Climate controlled seat control unit	15.	Seat cushion front finisher
16.	Front slide cover	17.	Clip	18.	Power seat control unit
19.	Seat cushion thermal electric device (TED)	20.	Lower seat duct	21.	Climate controlled seat blower filter
22.	Climate controlled seat blower motor assembly	23.	Seat frame assembly	24.	Rear slide cover
25.	Power seat switch	26.	Seat slide and lifter switch knob	27.	Seat recline knob
28.	Lumbar support switch	29.	Seat cushion outer finisher (LH)	30.	Recline device outer cover
31.	Seat cushion inner finisher inside (LH)	32.	Seatback assembly	33.	Side air bag module
34.	Seatback thermal electric device (TED)	35.	Upper seat duct	36.	Headrest holder (locked)
37.	Headrest holder (free)	38.	Seatback frame	39.	Seatback trim
40.	Seatback pad	41.	Headrest	42.	Chute rod

## **PASSENGER**

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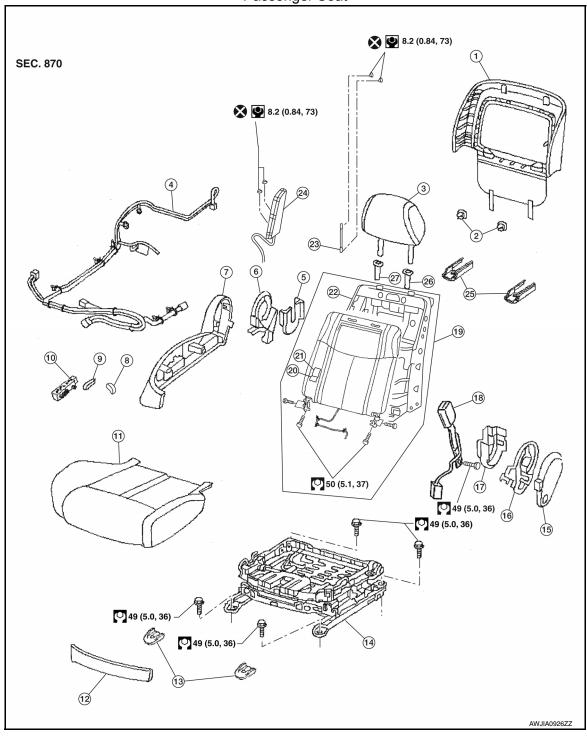
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## Passenger Seat



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Seat harness

7. Seat cushion outer finisher (RH)

10. Power seat switch

13. Front slide cover

16 Recline mechanism inner cover

19. Seatback assembly

22. Seatback frame

25. Rear slide cover

2. Seatback board clips

5. Seat cushion inner finisher inside (RH) 6.

8. Seat recline knob

11. Seat cushion assembly

14. Seat frame assembly

17. Seat cushion inner finisher inside (LH) 18.

20. Seatback pad

23. Chute rod

26. Headrest holder (locked)

3. Headrest

Recline device inner cover

9. Seat slide and lifter switch knob

12. Seat cushion front finisher

15. Seat cushion outer finisher (LH)

18. Seat belt buckle

21. Seatback trim

24. Side air bag module

27. Headrest holder (free)

### Removal and Installation

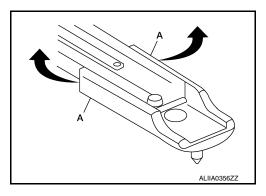
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### **REMOVAL**

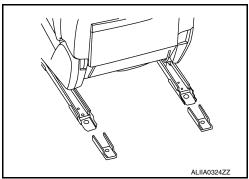
#### **WARNING:**

Do not leave any objects (screwdrivers, tools, etc.) on the seat during seat repair. It can lead to personal injury if the side air bag module should accidentally deploy.

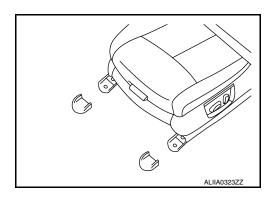
- CAUTION:
- When removing or installing the seat trim, handle it carefully to keep dirt out and to avoid damage.
- When checking the power seat circuit for continuity using a circuit tester, do not confuse its connector with the side air bag module connector. Such an error may cause the air bag module to deploy.
- Do not drop, tilt, or bump the side air bag module while installing the seat. Always handle it with care.
- After the front side air bag module inflates, the front seatback assembly must be replaced.
- When removing and installing the seat, use shop cloths to protect components from damage.
- Before removing the front seat, turn the ignition switch OFF, disconnect both battery terminals and wait at least three minutes.
- 1. Slide the seat to the full forward position.
- 2. Remove the rear slide covers.
- a. Release the pawls (A).



- b. Remove the rear slide covers.
- 3. Remove the rear mount bolts.



- 4. Slide the seat to the full rearward position.
- 5. Remove the front slide covers.
- Remove the front mount bolts.



7. Disconnect the negative and positive battery terminals and wait at least three minutes. Refer to <u>PG-67</u>, "Removal and Installation (Battery)".

## **FRONT SEAT**

### < REMOVAL AND INSTALLATION >

## [WITH CLIMATE CONTROLLED SEATS]

- 8. Disconnect the harness connector under the seat and remove harness clips.
- 9. Remove seat from the vehicle.

### **INSTALLATION**

Installation is in the reverse order of removal.

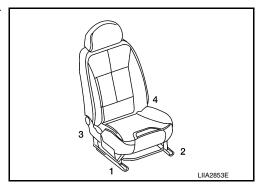
#### **CAUTION:**

Make sure that the seat harness or the floor trim is not damaged during installation.

NOTE:

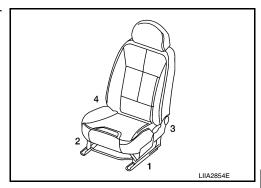
• When installing the LH front seat, tighten the bolts in the order shown.

LH front seat bolt torque : 49 Nm (5.0 kg-m, 36 ft-lb)



 When installing the RH front seat, tighten the bolts in the order shown.

RH front seat bolt torque : 49 Nm (5.0 kg-m, 36 ft-lb)



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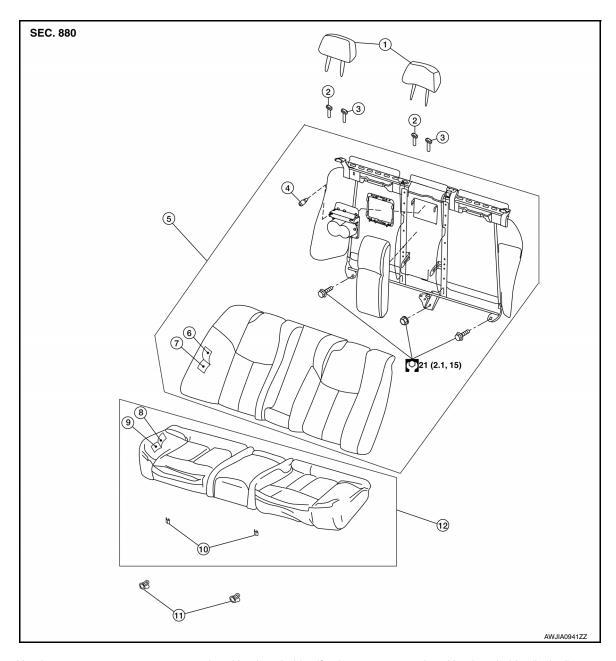
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## **REAR SEAT**

## Exploded View - Fixed Seatback

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- 1. Headrest
- 4. Bumper
- 7. Seatback pad
- 10. Seat cushion wire cover
- 2. Headrest holder (free)
- 5. Seatback assembly
- 8. Seat cushion trim
- 11. Seat cushion lock
- 3. Headrest holder (locked)
- 6. Seatback trim
- 9. Seat cushion pad
- 12. Seat cushion assembly

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## Removal and Installation

### CAUTION:

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

SEAT CUSHION ASSEMBLY

Removal

## **REAR SEAT**

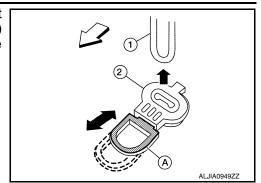
## < REMOVAL AND INSTALLATION >

## [WITH CLIMATE CONTROLLED SEATS]

1. Locate the seat cushion lock (2) at the front bottom of the seat cushion assembly (one for each side). Pull the release lever (A) forward and lift the seat cushion assembly upward to release the seat cushion wire (1) from the seat cushion lock (2).

⟨□: Front

2. Then pull the seat cushion assembly forward to remove.



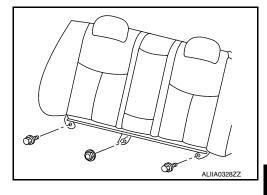
Installation

Installation is in the reverse order of removal.

#### **SEATBACK**

#### Removal

- 1. Remove the seat cushion assembly.
- 2. Remove the headrests (LH/RH).
- 3. Remove the seatback assembly bolts and nut.



4. Lift the seatback to disengage seat hook wires from the hangers.

#### Installation

Installation is in the reverse order of removal.

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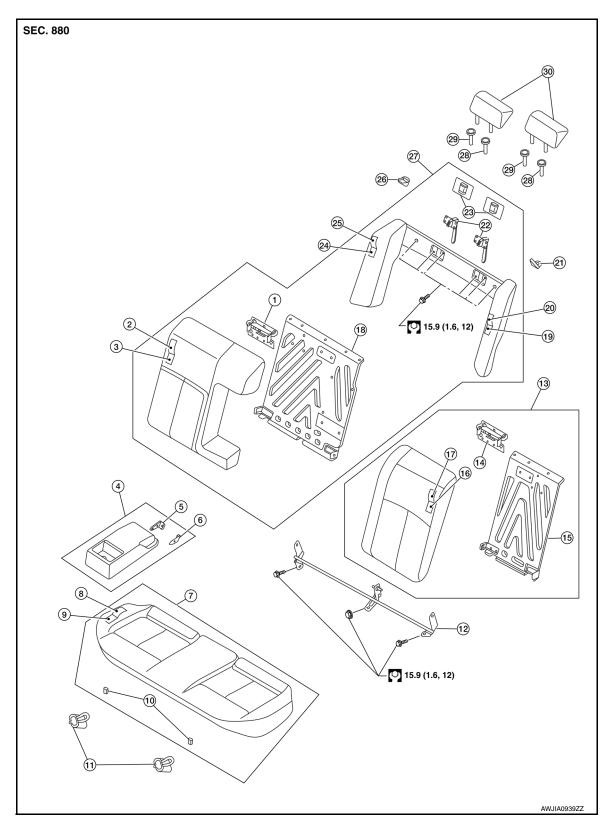
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Exploded View - 60:40 Split Seatback

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- 1. Seatback latch striker (RH)
- 4. Armrest assembly
- 7. Seat cushion assembly
- 10. Seat cushion wire cover
- 2. Seatback trim (RH)
- 5. Inner armrest bracket (RH)
- 8. Seat cushion trim
- 11. Seat cushion lock

- 3. Seatback pad (RH)
- 6. Inner armrest bracket (LH)
- 9. Seat cushion pad
- 12. Seatback hinge assembly

# **REAR SEAT**

# < REMOVAL AND INSTALLATION >

# [WITH CLIMATE CONTROLLED SEATS]

	L/ (TION )	•	
13. Seatback assembly (L	.H) 14. Seatbac	k latch striker (LH) 15.	Seatback frame (LH)
16. Seatback pad (LH)	17. Seatbac	k trim (LH) 18.	Seatback frame (RH)
19. Side bolster pad (LH)	20. Side bols	ster trim (LH) 21.	Seat belt guide (LH)
22. Seatback latch assem	bly 23. Seatbac	k latch cover 24.	Side bolster pad (RH)
25. Side bolster trim (RH)	26. Seat belt	t guide (RH) 27.	Seatback assembly (RH)
28. Headrest holder (locke	ed) 29. Headres	t holder (free) 30.	Headrest

# Removal and Installation

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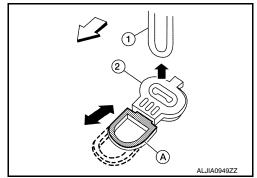
#### **CAUTION:**

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

# SEAT CUSHION ASSEMBLY

#### Removal

- Locate the seat cushion lock (2) at the front bottom of the seat cushion assembly (one for each side). Pull the release lever (A) forward and lift the seat cushion assembly upward to release the seat cushion wire (1) from the seat cushion lock (2).
  - ⟨
    ⇒: Front
- 2. Then pull the seat cushion assembly forward to remove.



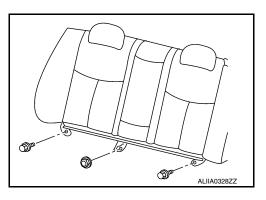
#### Installation

Installation is in the reverse order of removal.

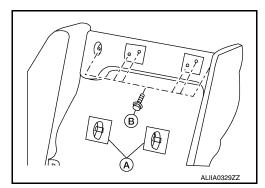
# **SEATBACK**

#### Removal

- 1. Lock seatback (LH/RH) in upright position.
- 2. Remove the seatback hinge assembly bolts and nut.
- 3. Fold seatback (LH/RH) forward.



- 4. Remove seatback latch covers (A).
- 5. Remove the halo upper frame assembly bolts (B).
- 6. Remove the seatback assembly.



Installation

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# **REAR SEAT**



[WITH CLIMATE CONTROLLED SEATS]

Installation is in the reverse order of removal.

# **CLIMATE CONTROLLED SEAT BLOWER FILTER**

< REMOVAL AND INSTALLATION >

Removal and Installation

[WITH CLIMATE CONTROLLED SEATS]

# CLIMATE CONTROLLED SEAT BLOWER FILTER

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# **REMOVAL**

#### **CAUTION:**

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

- 1. Remove front seat. Refer to SE-68, "Removal and Installation".
- Turn blower filter counter clockwise and remove it from climate controlled seat blower motor.

**INSTALLATION** 

Installation is in the reverse order of removal.

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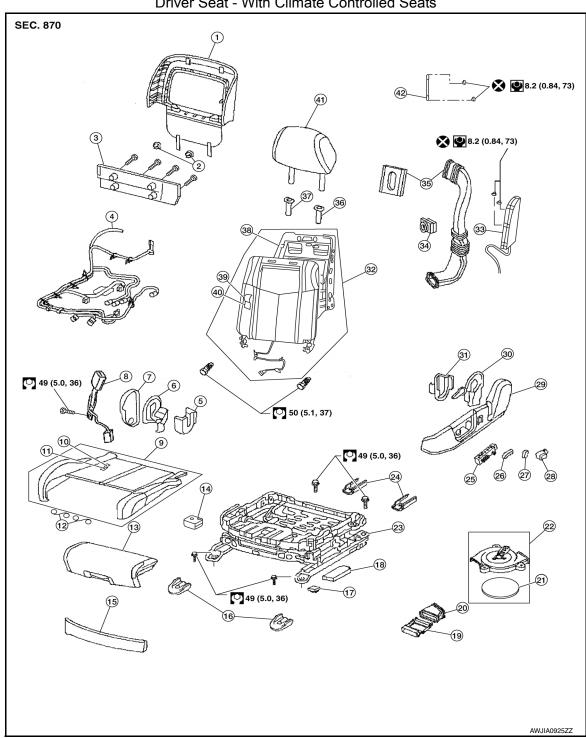
# **UNIT DISASSEMBLY AND ASSEMBLY**

**FRONT SEAT DRIVER SIDE** 

DRIVER SIDE: Exploded View

INFOID:0000000009468151





Seatback board

Seat cushion outer finisher (RH)

Seat harness

- Seatback board clip 2.
- Seat cushion inner finisher inside (RH)
- Seat belt buckle

- Seat cushion lower rear finisher 3.
- 6. Recline mechanism inner cover
- 9. Seat cushion assembly

# < UNIT DISASSEMBLY AND ASSEMBLY >

#### [WITH CLIMATE CONTROLLED SEATS]

10.	Seat cushion trim	11.	Seat cushion pad	12.	Thigh extension tether	
13.	Thigh extension assembly	14.	Climate controlled seat control unit	15.	Seat cushion front finisher	Α
16.	Front slide cover	17.	Clip	18.	Power seat control unit	
19.	Seat cushion thermal electric device (TED)	20.	Lower seat duct	21.	Climate controlled seat blower filter	В
22.	Climate controlled seat blower motor assembly	23.	Seat frame assembly	24.	Rear slide cover	
25.	Power seat switch	26.	Seat slide and lifter switch knob	27.	Seat recline knob	С
28.	Lumbar support switch	29.	Seat cushion outer finisher (LH)	30.	Recline device outer cover	
31.	Seat cushion inner finisher inside (LH)	32.	Seatback assembly	33.	Side air bag module	D
34.	Seatback thermal electric device (TED)	35.	Upper seat duct	36.	Headrest holder (locked)	
37.	Headrest holder (free)	38.	Seatback frame	39.	Seatback trim	F
40.	Seatback pad	41.	Headrest	42.	Chute rod	

# DRIVER SIDE: Disassembly and Assembly

INFOID:0000000009468152

# SEAT ASSEMBLY WITH SIDE AIR BAG MODULE

#### **WARNING:**

Do not leave any objects (screwdriver, tools, etc.) on the seat during seatback repair. It can lead to personal injury if the side air bag should accidentally deploy.

CAUTION:

- Before servicing, turn the ignition switch OFF, disconnect both battery terminals and wait at least three minutes.
- Handle the side air bag module carefully. During disassembly, always hold the side air bag module, do not let it hang by the wire harness.
- Always place side air bag module with the stud bolt side facing downward.
- Always work from the side or back of the seatback assembly, do not work in front of the seat.
- Do not use air tools or electric tools when servicing the seat assembly.
- Replace the side air bag module if it has been dropped or sustained an impact.
- Do not insert any objects into the side air bag module.
- Do not disassemble the side air bag module.
- Do not expose the side air bag module to temperatures exceeding 93°C (200°F).
- Do not expose the side air bag module to any oil, grease or water.
- During disassembly, do not damage the trim cover, chutes, connectors, retainers, clips, module harness or the side air bag module.

#### NOTE:

- If the vehicle has been involved in a collision and the side air bag has deployed, the front seatback assembly must be replaced.
- For side air bag module removal and installation, refer to SR-21, "Removal and Installation".

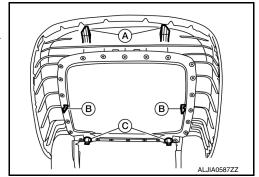
#### Disassembly

- Remove the front seat assembly. Refer to <u>SE-68, "Removal and Installation"</u>.
- Remove the seatback board as follows:

#### NOTE:

The seatback board is attached to the seat frame with the following:

- Two top hooks (A)
- Two side hooks (B)
- Two bottom retainers (C)



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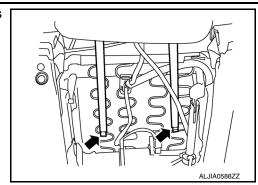
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 From the bottom of the seat, unhook the two seat skirt hooks as shown.

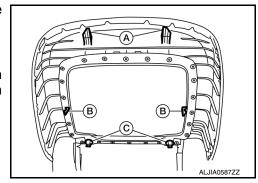


b. Carefully pull upward on the lower seatback board to release the two bottom retainers (C).

# **CAUTION:**

# Do not pull outward at two top hooks (A)

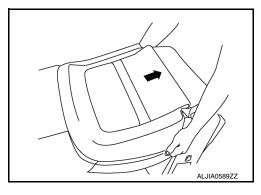
c. Hold the seatback board at the side hook locations (B) and push in the side hooks to release them from the seatback frame, then pull it rearward.



d. Carefully pull the seatback board downward to disengage the top hooks as shown.

### **CAUTION:**

Use care not to break the seatback board hooks and retainers. Replace seatback board if any hooks or retainers are damaged.

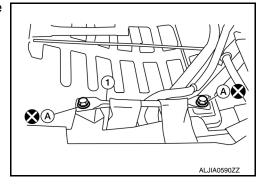


- 3. Disconnect the upper seat duct.
- 4. Remove and discard the two chute rod bolts (A), then remove the chute rod (1).

#### **CAUTION:**

Do not reuse the chute rod bolts.

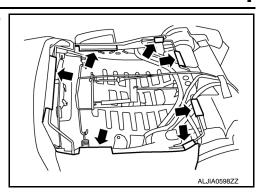
Chute rod bolts (A) : 8.2 N·m (0.84 kg-m, 73 in-lb)



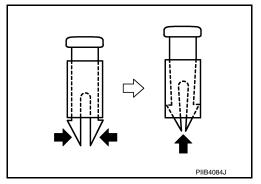
# < UNIT DISASSEMBLY AND ASSEMBLY >

# [WITH CLIMATE CONTROLLED SEATS]

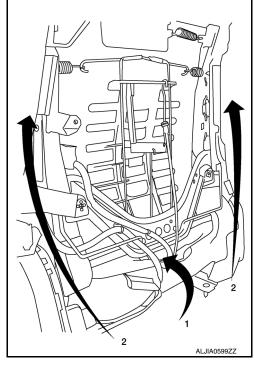
Release the seven seatback retainers from the seatback frame as shown.



6. Reach in from the bottom of the seatback to release the guide clips on the headrest holder. Squeeze the clips at the bottom and push upward to remove as shown.



7. Push the seatback trim and seatback pad forward at the bottom (1), then holding the seatback assembly on both sides, lift upward (2). Remove the seatback trim and seatback pad as an assembly from the seatback frame.



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# < UNIT DISASSEMBLY AND ASSEMBLY >

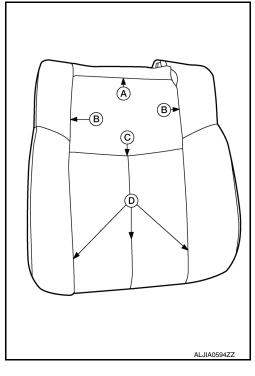
#### [WITH CLIMATE CONTROLLED SEATS]

8. If required, separate the seatback trim from the seatback pad as follows:

# NOTE:

The seatback trim is attached to the seatback pad with the following:

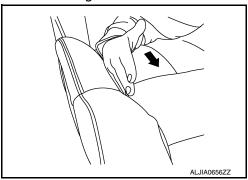
- Five top hog rings (A)
- Four side hog rings (B)
- Three middle hog rings (C)
- Three bottom velcro fasteners (D)
- a. Pull the seatback trim from the seatback pad to detach the velcro fasteners.
- b. Position the seatback trim to access the middle hog rings. Remove the middle and side hog rings.
- c. Remove the top hog rings, then separate the seatback trim from the seatback pad.



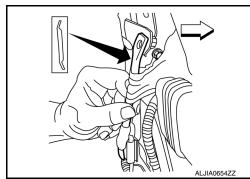
#### Assembly

Assembly is in the reverse order of disassembly. During assembly, note the following.

 When installing the seatback trim, firmly push down while sliding your hand along the seams as shown (arrow) to ensure the velcro fasteners are fastened properly.



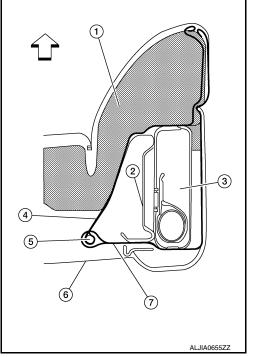
• Make sure the chute rod is properly positioned and installed as shown.



### < UNIT DISASSEMBLY AND ASSEMBLY >

#### **IWITH CLIMATE CONTROLLED SEATS**

- · Make sure the side air bag outer chute (7) is pulled over the side air bag module (3) and the side air bag inner chute (4) is pulled around the frame (2). Make sure there are no wrinkles and the chutes are not folded, twisted or pinched.
  - (1) Seatback pad
  - (5) Chute rod
  - (6) Seatback board
  - ⟨□: Front



### **CAUTION:**

- If a malfunction was detected by the air bag warning lamp, after repair or replacement of the malfunction parts, reset the memory using self-diagnosis or CONSULT.
- After work is completed, check that no system malfunction is detected by air bag warning lamp.
- Make sure side air bag module shell is closed at all tabs and cushion of module is not exposed. Do not reuse if the tab of shell is not secured.
- Always install new side air bag module attaching nuts and side air bag chute rod bolts.
- Always route side air bag module harness in original location. Replace any deformed or damaged clips with the same type and color. Always install clips in the original location on the harness.
- · Smooth out all wrinkles during assembly.
- Inspect seatback pad, trim cover and trim cover chutes. Replace if damaged.
- Replace any deformed or damaged parts.
- Replace any deformed or damaged hog rings. Ensure any old hog ring pieces are removed from the seat.
- Use only one hog ring in each designated location.
- Ensure hog rings are correctly fastened around both the seatback trim and seatback pad trim wires. NOTE:

Use NISSAN standard hog rings and tools to assemble.

SEAT CUSHION THERMAL ELECTRIC DEVICE AND LOWER SEAT DUCT

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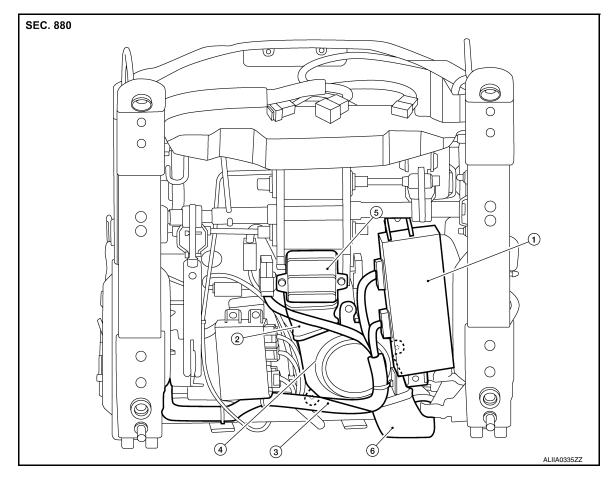
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1. Seat control unit

2. Lower seat duct

3. Seat wire harness

- 4. Climate controlled seat blower motor 5.
- 5. Seat cushion thermal electric device
- 6. Upper seat duct

#### Disassembly

- 1. Remove the seat from the vehicle. Refer to SE-68, "Removal and Installation".
- Remove seatback board.
- 3. Remove seat cushion rear finisher.
- 4. Disconnect the harness connectors from the driver seat control unit.
- 5. Remove driver seat control unit from seat.
- 6. Remove seat cushion thermal electric device bolts.
- 7. Remove climate controlled seat blower motor bolts.
- 8. Disconnect climate controlled seat blower motor from upper seat duct.
- Remove climate controlled seat blower motor, lower seat duct and seat cushion thermal electric device from seat.

#### Assembly

Assembly is in the reverse order of disassembly.

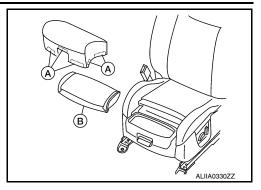
# THIGH EXTENSION ASSEMBLY

Disassembly

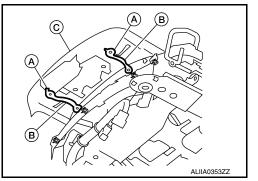
# < UNIT DISASSEMBLY AND ASSEMBLY >

# [WITH CLIMATE CONTROLLED SEATS]

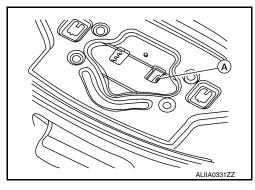
- 1. Move the thigh extension assembly to the front most position and release the trim cover clips (A).
- 2. Remove the trim cover and pad (B).



 Cut the thigh extension tethers and drill out the upper rivets (A) that connect the thigh extension tethers (B) to the thigh extension assembly (C).



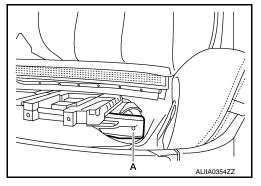
- 4. Insert suitable tool into the thigh extension assembly top panel and release the clip (A).
- 5. Pull the thigh extension handle and remove the thigh extension assembly.



6. Drill out the lower rivets that connect the thigh extension tethers to the seat frame assembly.

#### Assembly

- Replace the pad, trim and clips to the thigh extension assembly.
- Rivet the thigh extension tethers to the seat frame assembly mounting hole (A).



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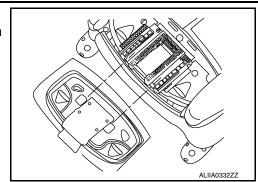
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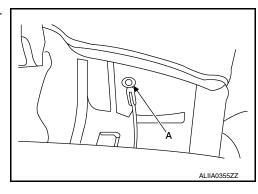
# < UNIT DISASSEMBLY AND ASSEMBLY >

# [WITH CLIMATE CONTROLLED SEATS]

- 3. Align the thigh extension assembly on the top rail.
- 4. Lift the thigh extension handle and slide the thigh extension assembly onto the seat.



5. Rivet the thigh extension tethers to the thigh extension assembly mounting hole (A).



PASSENGER SIDE

# PASSENGER SIDE: Exploded View

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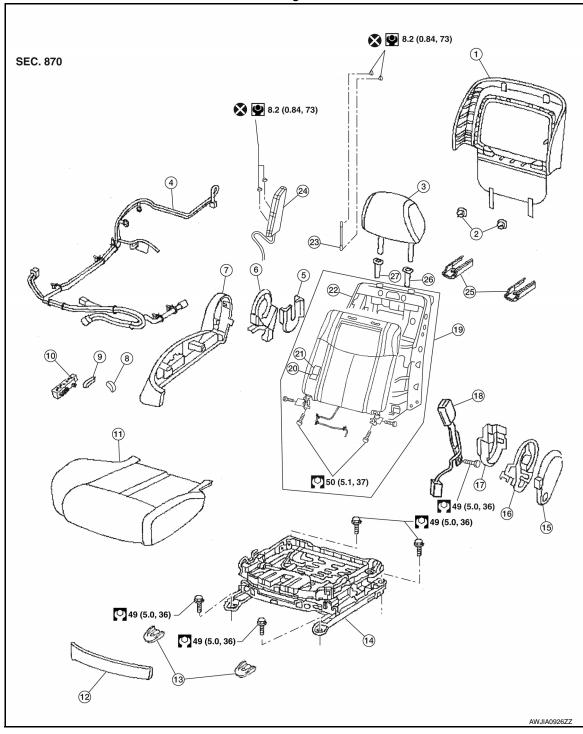
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# Passenger Seat



1	Seatback board
Ι.	Sealback board

4. Seat harness

7. Seat cushion outer finisher (RH)

10. Power seat switch

13. Front slide cover

16 Recline mechanism inner cover

19. Seatback assembly

2. Seatback board clips

5. Seat cushion inner finisher inside (RH) 6.

8. Seat recline knob

11. Seat cushion assembly

14. Seat frame assembly

17. Seat cushion inner finisher inside (LH) 18.

20. Seatback pad

Headrest

Recline device inner cover

9. Seat slide and lifter switch knob

12. Seat cushion front finisher

15. Seat cushion outer finisher (LH)

8. Seat belt buckle

21. Seatback trim

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# < UNIT DISASSEMBLY AND ASSEMBLY >

# [WITH CLIMATE CONTROLLED SEATS]

Seatback frame
 Chute rod
 Side air bag module
 Rear slide cover
 Headrest holder (locked)
 Headrest holder (free)

# PASSENGER SIDE: Disassembly and Assembly

INFOID:0000000009468154

#### SEAT ASSEMBLY WITH SIDE AIR BAG MODULE

#### **WARNING:**

Do not leave any objects (screwdriver, tools, etc.) on the seat during seatback repair. It can lead to personal injury if the side air bag should accidentally deploy.

# **CAUTION:**

- Before servicing, turn the ignition switch OFF, disconnect both battery terminals and wait at least 3
  minutes.
- Handle the side air bag module carefully. During disassembly, always hold the side air bag module, do not let it hang by the wire harness.
- Always place side air bag module with the stud bolt side facing downward.
- Always work from the side or back of the seatback assembly, do not work in front of seat.
- Do not use air tools or electric tools when servicing the seat assembly.
- Replace the side air bag module if it has been dropped or sustained an impact.
- Do not insert any objects into the side air bag module.
- · Do not disassemble the side air bag module.
- Do not expose the side air bag module to temperatures exceeding 93°C (200°F).
- Do not expose the side air bag module to any oil, grease or water.
- During disassembly, do not damage the trim cover, chutes, connectors, retainers, clips, module harness or the side air bag module.

#### NOTE:

- If the vehicle has been involved in a collision and the side air bag has deployed, the front seatback assembly
  must be replaced.
- For side air bag module removal and installation, refer to SR-21, "Removal and Installation".

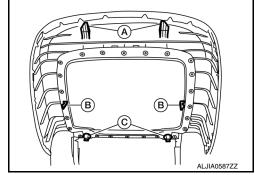
#### Disassembly

- Remove the front seat assembly. Refer to <u>SE-68, "Removal and Installation"</u>.
- Remove the seatback board as follows:

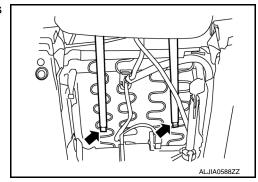
#### NOTE:

The seatback board is attached to the seat frame with the following:

- Two top hooks (A)
- Two side hooks (B)
- Two bottom retainers (C)



 a. From the bottom of the seat, unhook the two seat skirt hooks as shown.



# < UNIT DISASSEMBLY AND ASSEMBLY >

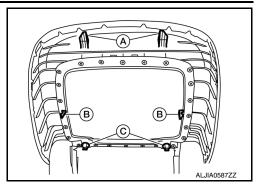
#### [WITH CLIMATE CONTROLLED SEATS]

b. Carefully pull upward on the lower seatback board to release the two bottom retainers (C).

# **CAUTION:**

Do not pull outward at two top hooks (A).

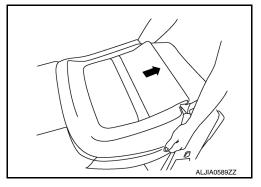
c. Hold the seatback board at the side hook locations (B) and push in the side hooks to release them from the seatback frame, then pull it rearward.



d. Carefully pull the seatback board downward to disengage the top hooks as shown.

# **CAUTION:**

Use care not to break the seatback board hooks and retainers. Replace seatback board if any hooks or retainers are damaged.

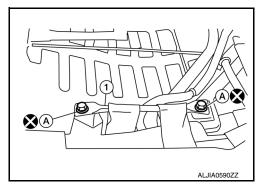


3. Remove and discard the two chute rod bolts (A), then remove the chute rod (1).

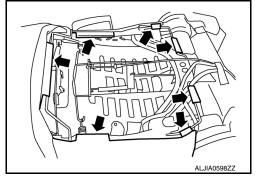
#### **CAUTION:**

Do not reuse the chute rod bolts.

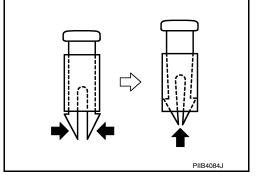
Chute rod bolts (A) : 8.2 N·m (0.84 kg-m, 73 in-lb)



4. Release the seven seatback retainers from the seatback frame as shown.



Reach in from the bottom of the seatback to release the guide clips on the headrest holder. Squeeze the clips at the bottom and push upward to remove as shown.



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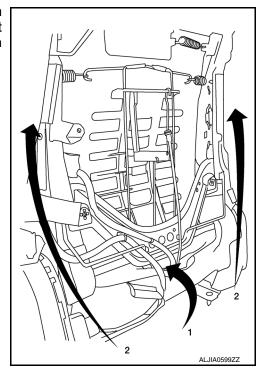
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- Disconnect the harness connector for the seatback heater.
- 7. Push the seatback trim and seatback pad forward at the bottom (1), then holding the seatback assembly on both sides, lift upward (2). Remove the seatback trim and seatback pad as an assembly from the seatback frame.

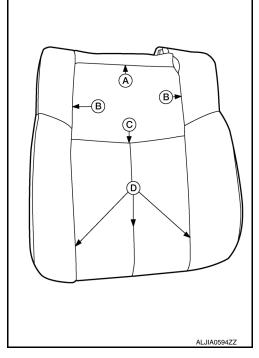


8. If required, separate the seatback trim from the seatback pad as follows:

### NOTE:

The seatback trim is attached to the seatback pad with the following:

- Five top hog rings (A)
- Three side hog rings (B)
- Three middle hog rings (C)
- Three bottom velcro fasteners (D)
- a. Pull the seatback trim cover from the seatback pad to detach the velcro fasteners.
- b. Position the seatback trim to access the middle hog rings. Remove the middle and side hog rings.
- Remove the top hog rings, then separate the seatback trim from the seatback pad.



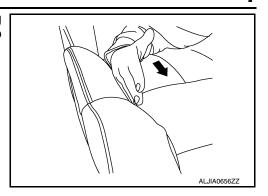
# Assembly

Assembly is in the reverse order of disassembly. During assembly, note the following.

# < UNIT DISASSEMBLY AND ASSEMBLY >

# [WITH CLIMATE CONTROLLED SEATS]

 When installing the seatback trim, firmly push down while sliding your hand along the seams as shown (arrow) to ensure the velcro fasteners are fastened properly.



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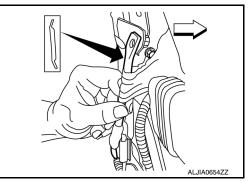
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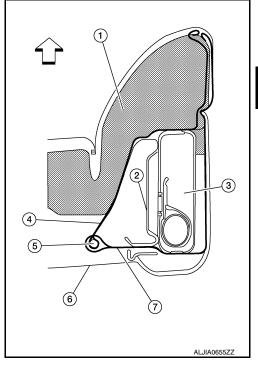
Make sure the chute rod is properly positioned and installed as shown.

⟨□: Front



 Make sure the side air bag outer chute (7) is pulled over the side air bag module (3) and the side air bag inner chute (4) is pulled around the frame (2). Make sure there are no wrinkles and the chutes are not folded, twisted or pinched.

- (1) Seatback pad
- (5) Chute rod
- (6) Seatback board
- ⟨□: Front



### **CAUTION:**

- If a malfunction was detected by the air bag warning lamp, after repair or replacement of the malfunction parts, reset the memory using self-diagnosis or CONSULT.
- After work is completed, check that no system malfunction is detected by air bag warning lamp.
- Make sure side air bag module shell is closed at all tabs and cushion of module is not exposed. Do not reuse if the tab of shell is not secured.
- Always install new side air bag module attaching nuts and side air bag chute rod bolts.
- Always route side air bag module harness in original location. Replace any deformed or damaged clips with the same type and color. Always install clips in the original location on the harness.
- Smooth out all wrinkles during assembly.

# < UNIT DISASSEMBLY AND ASSEMBLY >

[WITH CLIMATE CONTROLLED SEATS]

- Inspect seatback pad, trim cover and trim cover chutes. Replace if damaged.
- · Replace any deformed or damaged parts.
- Replace any deformed or damaged hog rings. Ensure any old hog ring pieces are removed from seat.
- Use only one hog ring in each designated location.
- Ensure hog rings are correctly fastened around both the seatback trim and seatback pad trim wires.

Use NISSAN standard hog rings and tools to assemble.

# [WITH CLIMATE CONTROLLED SEATS]

# **REAR SEAT**

# Exploded View - Fixed Seatback

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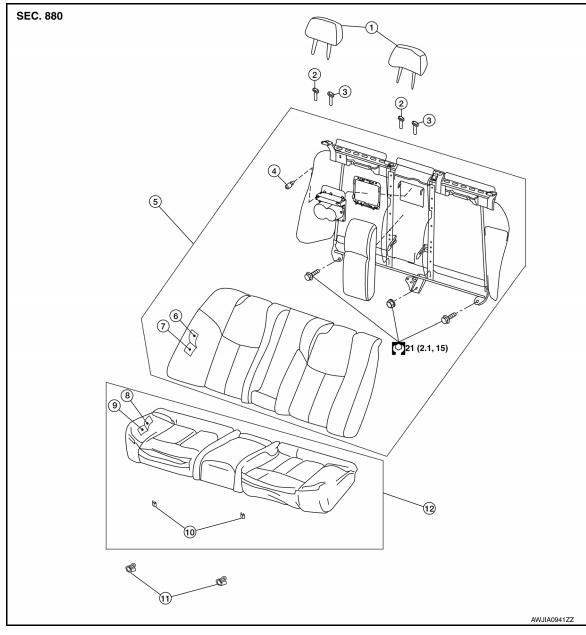
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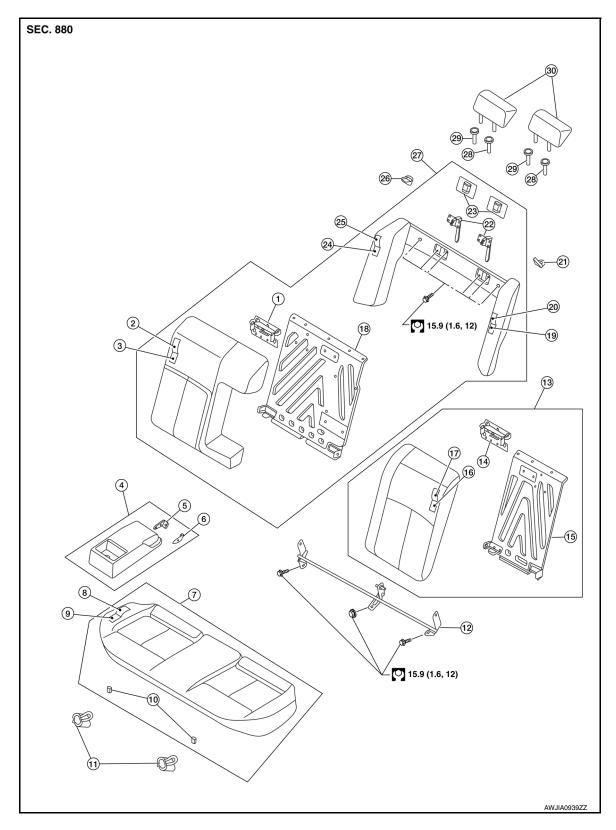
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- 1. Headrest
- 4. Bumper
- 7. Seatback pad
- 10. Seat cushion wire cover
- 2. Headrest holder (free)
- 5. Seatback assembly
- 8. Seat cushion trim
- 11. Seat cushion lock
- 3. Headrest holder (locked)
- 6. Seatback trim
- 9. Seat cushion pad
- 12. Seat cushion assembly

Exploded View - 60:40 Split Seatback

INFOID:0000000009468156



- 1. Seatback latch striker (RH)
- 4. Armrest assembly
- 7. Seat cushion assembly
- 10. Seat cushion wire cover
- 13. Seatback assembly (LH)
- 16. Seatback pad (LH)

- 2. Seatback trim (RH)
- 5. Inner armrest bracket (RH)
- 8. Seat cushion trim
- 11. Seat cushion lock
- 14. Seatback latch striker (LH)
- 17. Seatback trim (LH)

- 3. Seatback pad (RH)
- 6. Inner armrest bracket (LH)
- 9. Seat cushion pad
- 12. Seatback hinge assembly
- 15. Seatback frame (LH)
- 18. Seatback frame (RH)

# **REAR SEAT**

# < UNIT DISASSEMBLY AND ASSEMBLY >

# [WITH CLIMATE CONTROLLED SEATS]

19.	Side bolster pad (LH)	
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22. Seatback latch assembly

25. Side bolster trim (RH)

28. Headrest holder (locked)

- 20. Side bolster trim (LH)
- 23. Seatback latch cover
- 26. Seat belt guide (RH)
- 29. Headrest holder (free)
- 21. Seat belt guide (LH)
- 24. Side bolster pad (RH)
- 27. Seatback assembly (RH)
- 30. Headrest

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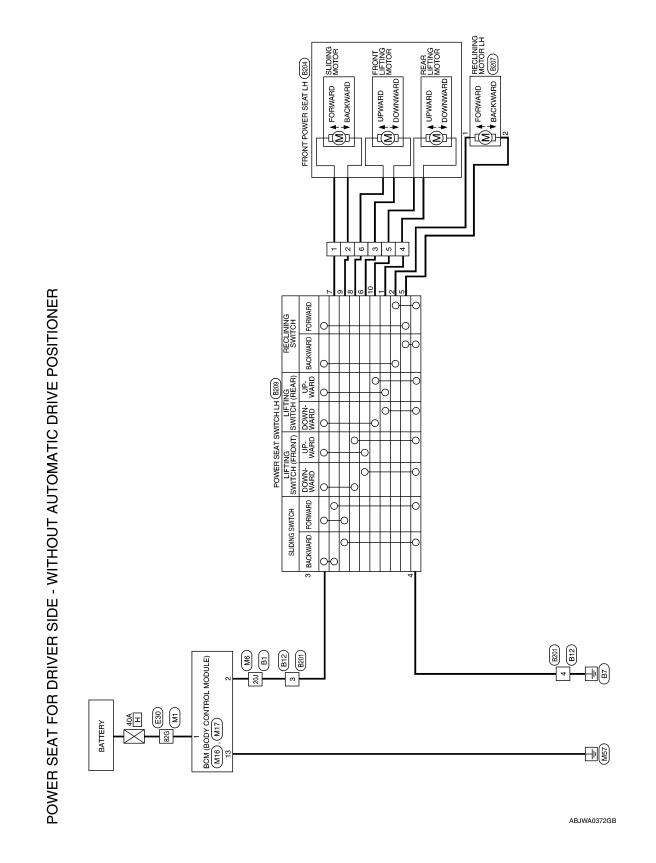
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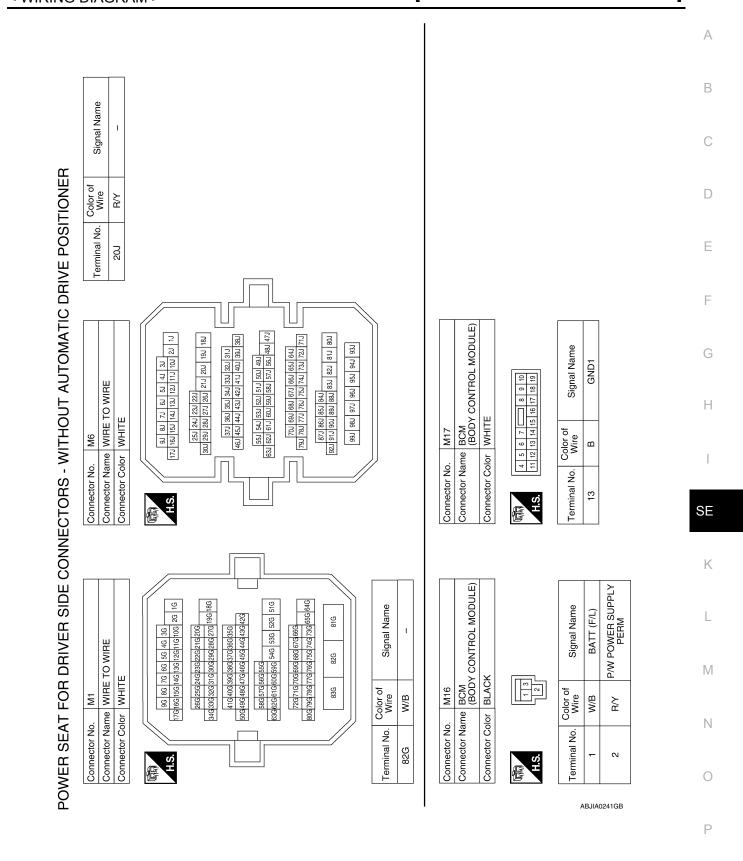
# WIRING DIAGRAM

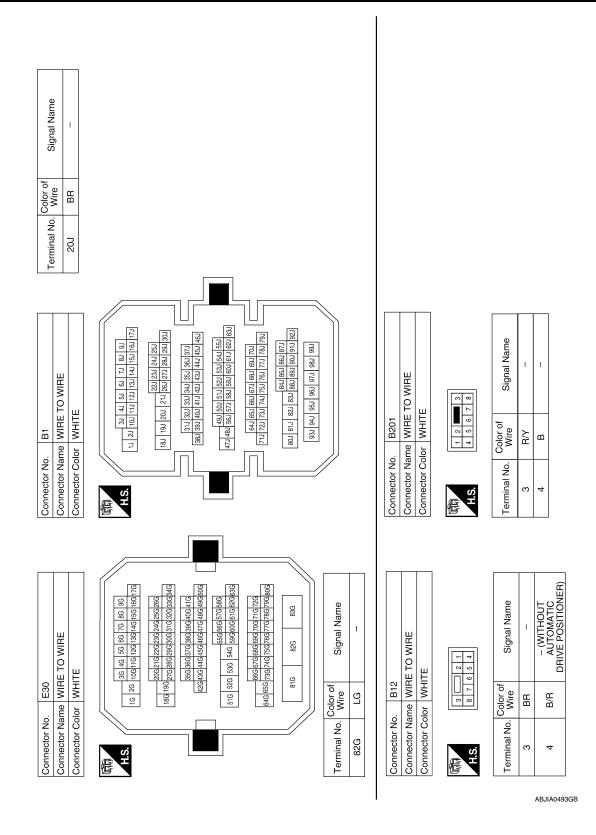
# POWER SEAT FOR DRIVER SIDE

Wiring Diagram - Without Automatic Drive Positioner

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# POWER SEAT FOR DRIVER SIDE

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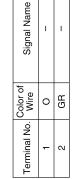
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# [W/O CLIMATE CONTROLLED SEATS]

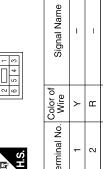
< WIRING DIAGRAM >

B209	POWER SEAT SWITCH LH (WITHOUT AUTOMATIC DRIVE POSITIONER)	WHITE	4 3 6 5 1	of Signal Name	I	ı	I	I	ı	ı	I	
				Color of Wire		0	R∖	В	GR	>	<b>&gt;</b>	ء
Connector No.	Connector Name	Connector Color	H.S.	Terminal No.	-	2	က	4	5	9	2	c

Connector No.	B207
Connector Name	Connector Name (WITHOUT AUTOMATIC DRIVE POSITIONER)
Connector Color BLACK	BLACK



B204	Connector Name (WITHOUT AUTOMATIC DRIVE POSITIONER)	WHITE	
Connector No.	Connector Name	Connector Color WHITE	



Signal Name	I	I	1	-	ı	I
Color of Wire	Y	ш	^	GR	0	B/W
Terminal No. Wire	1	2	8	4	5	9

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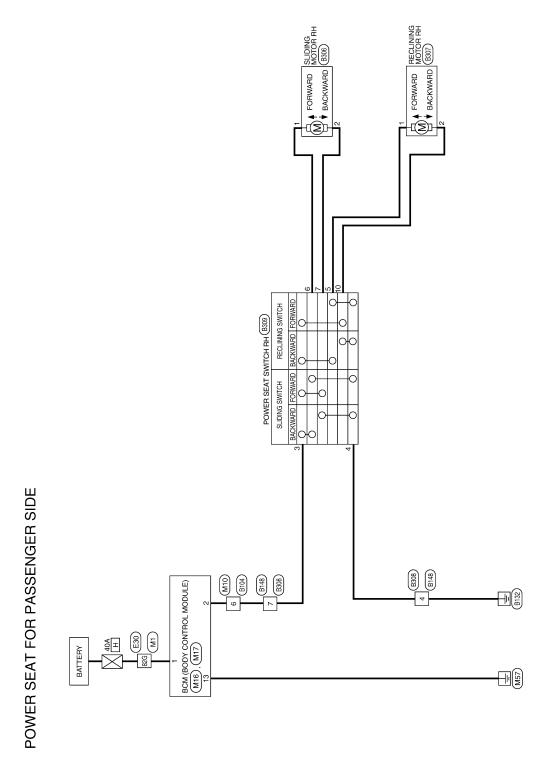
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# POWER SEAT FOR PASSENGER SIDE

Wiring Diagram



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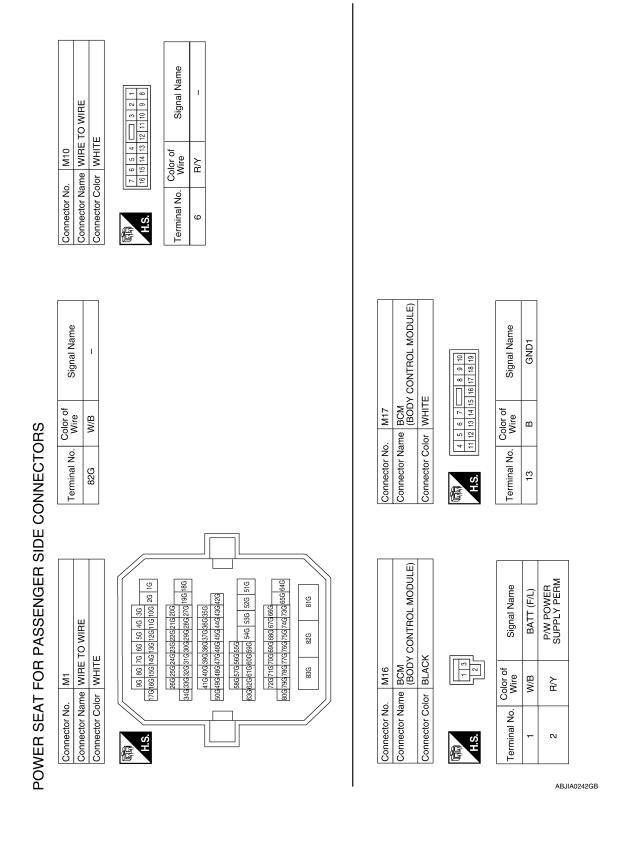
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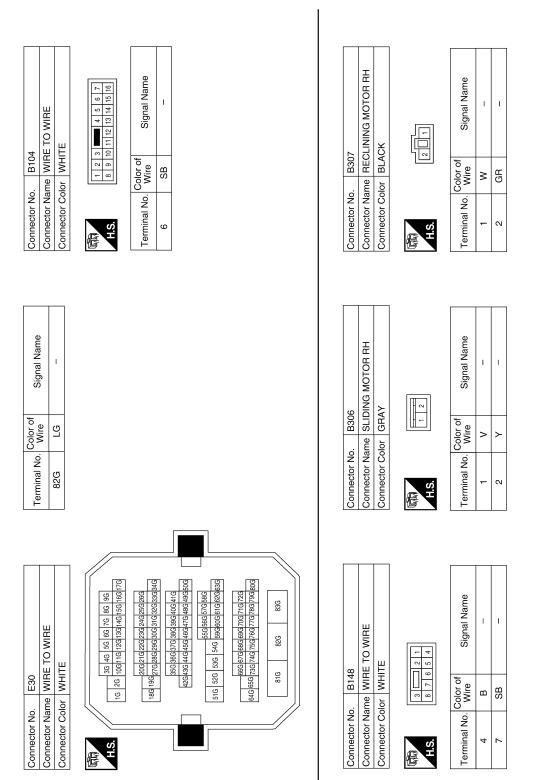
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# < WIRING DIAGRAM >



# POWER SEAT FOR PASSENGER SIDE [W/O CLIMATE CONTROLLED SEATS]



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# POWER SEAT FOR PASSENGER SIDE [W/O CLIMATE CONTROLLED SEATS]

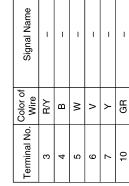
< WIRING DIAGRAM >

Connector Name POWER SEAT SWITCH RH
Connector Color WHITE

B309

Connector No.







8	IE TO WIRE	ПЕ	8 2	Signal Name	-	I
. B308	me WIF	lor WH	1 2 6 6	Color of Wire	В	R/Υ
Connector No.	Connector Name WIRE TO WIRE	Connector Color WHITE	原。 H.S.	Terminal No.	4	2

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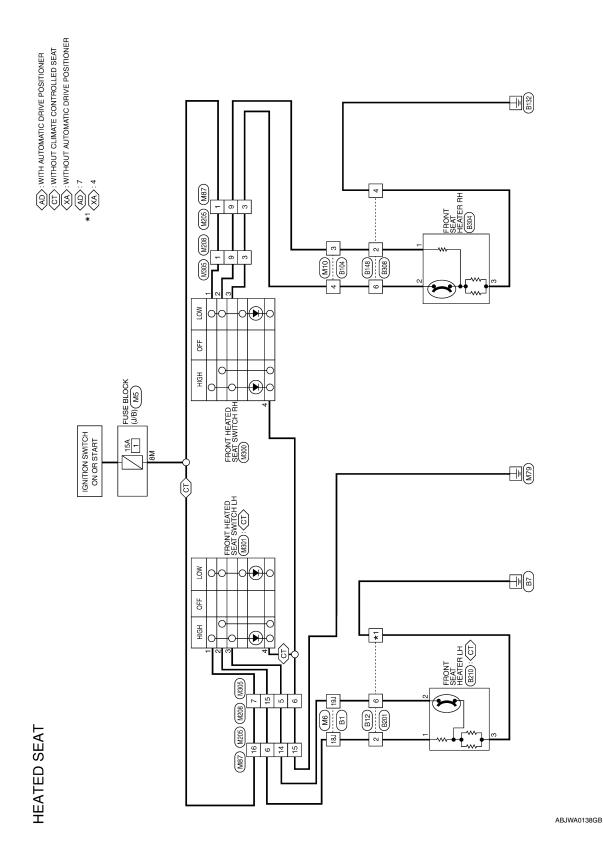
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# **HEATED SEAT**

Wiring Diagram



HEATED SEAT CONNECTORS

Signal Name	1	1										O WIRE	_	4 5 6 7 13 14 15 16	Signal Name			1 1				ı	ı	
Color of Wire	GR	GR/R									. M205	me WIRE T	lor BROWN	9 10 11 12	Color of Wire			2 E	GB/I	GR/B		ם ( נ	G/R	
Terminal No.	181	197				ſ					Connector No.	Connector Name WIRE TO WIRE	Connector Color	H.S.	Terminal No.	,	- c	n (c	σ	2 4	<u> </u>	2 5	16	
Connector No. M6 Connector Name WIRE TO WIRE	ilor WHITE	_	9.0 8.0 7.1 6.1 5.1 4.1 3.1 (7.7) 16.1 5.1 (4.1) 13.1 (7.7) 16.1 5.1 (4.1) 17.0 (7.7) 16.1 5.1 (4.1) 17.0 (7.7	125   24   23   22	300 290 280 270 260 210 200 190 180	371 36J 35J 34J 33J 32J 31J   46J 45J 44J 42J 44J 44J 44D 33J 38J	55J 54J 53J 52J 51J 50J 49J 62J 62J 61J 60J 59J 58J 57J 56J 48J 47J	70J 89J 88J 67J 86J 65J 64J 79J 78J 77J 77J 77J 77J 77J 77J 77J 77J 77	87.1 88.1 88.3 84.4 84.1 87.1 88.1 80.1 80.1	990   991   971   961   961   961   931	o. M87	Connector Name WIRE TO WIRE	olor BROWN	6 5 4     3 2 1	Color of Signal Name	Wire	G/R –	m			r	- В	G/R –	
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Connector No. M5 Connector Name FUSE BLOCK (J/B)	WHITE		5M 4M 3M 2M 1M 2M 1M 1ZM 1ZM 1ZM 1ZM 1ZM 1ZM 1ZM 1ZM 1ZM		Signa	- l					M10		WHITE	7 6 5 4	Color of Signal Name	n e	GR/L –	GR/B –						
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M301 FRONT HEATED SEAT SWITCH LH	96	Signal Name			ı	ı				Signal Name	1	1										
	2 4	Color of	۵	-   >	0	В			Color of	Wire	8	0										
Connector No.	(中)	Terminal No.	F	- ~	က	4				i erminai No.	181	19J										
	٦		<u> </u>		<u> </u>							1			7 [				7]			
M300 FRONT HEATED SEAT SWITCH RH	2 000	Signal Name			1	1				WIRE TO WIRE			조   호   -	19J 20J 21J 28J 27J 28J 29J 30J	311 321 331 341 351 361 371	41) 42) 43) 44) 45) 46)	49J 50J 51J 52J 53J 54J 55J	J 58J 59J 60J 61J 62J 63J	64) 65) 66) 67) 68) 69) 70)	71.] 72.] 73.] 74.] 75.] 76.] 77.] 78.] 79.]	843 853 863 873	82J 83J 88J 83J 90J 91J 92J
		Color of		3 6	GR	В			18	_	or WHITE	-	1) 20 100 110	18. 19. 20.	31.) 32.)	38J 39J 40J	49.1 50	47.1 48.1 56.1 57	64.1 65.1	71J 72J 73J		80J 81J 82J 8
Connector No.	(中)	Terminal No.	-	- ~	က	4			Connector No.	Connector Name	Connector Color		是 H.S.									
O WIRE	4 5 6 7 13 14 15 16	Signal Name	ı	ı	1	1 1	1	ı		WIRE TO WIRE			11 0 9 8 1	Signal Name	ı	ı	1	I	ı	ı	ı	
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Connector No. M208 Connector Name WIRE TO WIRE Connector Color WHITE	H.S.	Terminal No.	-	е	5	9	. o	15	Connector No.	Connector Name	Connector Color		16 H.S.	Terminal No.	-	က	5	9	7	6	15	
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								]			
B104	Connector Name   WIRE TO WIRE	HITE		2 3 <b>8 4 5 6 7</b> 9 10 11 12 13 14 15 16	of Signal Name	1	1				
	ame W	olor		- ∞	Color c	g	GR				
Connector No.	Connector N	Connector Color WHITE			Terminal No. Wire	က	4				
	E TO WIRE	Ш		5 2 4	Signal Name	1	CIT A TI CLITIMA	DRIVE POSITIONER)	1	- (WITHOUT CLIMATE CONTROLLED SEAT)	
B12	ne WIRE	or WHI		3 7 8	Solor of Wire	<b>*</b>	$\top$	' '' ''	0	B/W	
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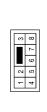
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	me FRC	or WH		Color of Wire	GR/G	GR/R	В	
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	Į.							
210	SONT SEAT HEATER L	HITE	- 2	of Signal Name	ı	1	1	
	ame FF	olor WI		Color o	GR	GR/W	M/B	
Connector No	Connector Na	Connector Co	用.S.	Terminal No.	-	2	က	
	Connector No.         B210         Connector No.         B304	B210 Connector No. FRONT SEAT HEATER LH		SEAT HEATER LH	SEAT HEATER LH Signal Name	ONT SEAT HEATER LH  TE Signal Name	ONT SEAT HEATER LH  TE  Signal Name	NNT SEAT HEATER LH  TE  Signal Name

Connector No.	. B201	1
Connector Name	me WIF	WIRE TO WIRE
Connector Color WHITE	lor WH	TE
H.S.	1 4 2 2	8 2 9
Terminal No.	Color of Wire	Signal Name
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4	В	_
9	GR/W	ı
7	GR/B	-

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Signal Name	ı	1	-
Color of Wire	GR/G	В	GR/R
Terminal No.	2	4	9

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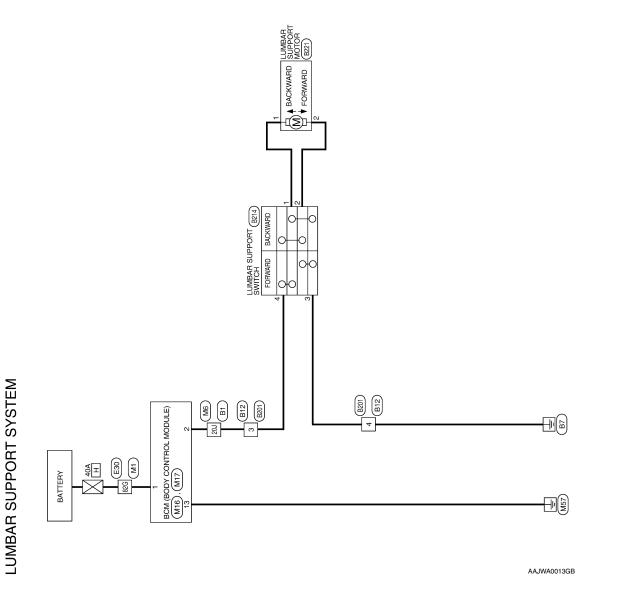
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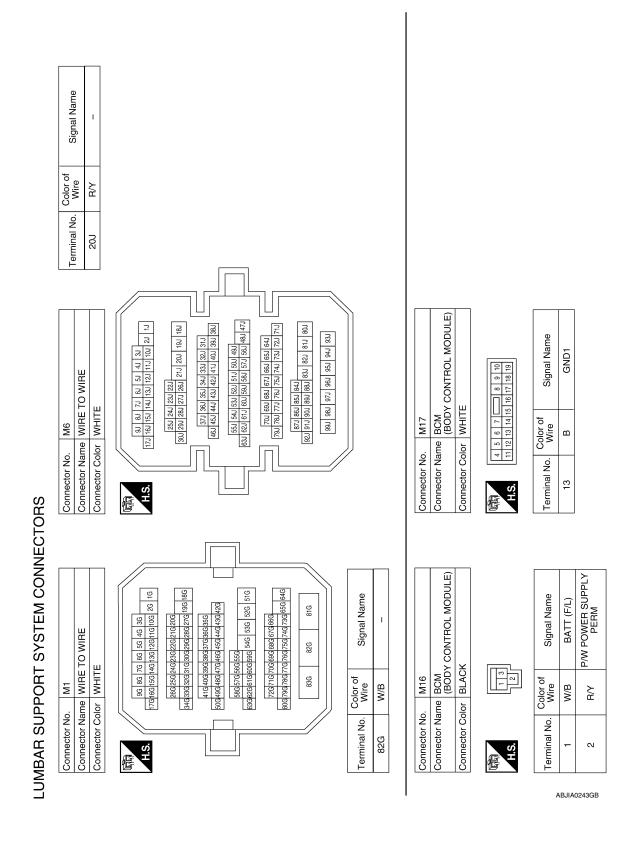
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# **LUMBAR SUPPORT SYSTEM**

Wiring Diagram

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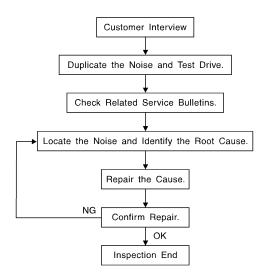
## **LUMBAR SUPPORT SYSTEM**

	A	1
DOC → BER	MOTOR B	3
Signal Name  Signal Name  - (WITHOUT AUTOMATIC DRIVE POSITIONER)	Connector No. B221 Connector Name LUMBAR SUPPORT MOTOR Connector Color of BLACK  H.S.  Terminal No. Wire Signal Name  1 R/L - 2 R/W -	)
2. B12   B12   B12   B12   B12   B13   B14   B15	Color of RAW	)
Connector No.   B12	Connector No. Connector Name Connector Color Terminal No. Col 7 8 8	Ξ
	F	=
B1   WHITE   WHITE   33   44   54   64   73   84   93   14   173   144   154   164   173   144   154   164   173   144   154   164   173   154	Connector No.   B214	
B1   WIRE T   MHITE	B214     B214	ı
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## SYMPTOM DIAGNOSIS

#### SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow (INFOID:000000009895340)



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#### **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 customer's comments; refer to <u>SE-114</u>, "<u>Diagnostic Worksheet"</u>. 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 test driving the vehicle with the customer.
- After identifying the type of noise, isolate the noise in terms of its characteristics. The noise characteristics
  are provided so the customer, service adviser and technician are all speaking the same language when
  defining the noise.
- Squeak —(Like tennis shoes on a clean floor)
   Squeak characteristics include the light contact/fast movement/brought on by road conditions/hard surfaces
   higher pitch noise/softer surfaces = lower pitch noises/edge to surface = chirping.
- Creak—(Like walking on an old wooden floor)
   Creak characteristics include firm contact/slow movement/twisting with a rotational movement/pitch dependent on materials/often brought on by activity.
- Rattle—(Like shaking a baby rattle)
   Rattle characteristics include the fast repeated contact/vibration or similar movement/loose parts/missing clip or fastener/incorrect clearance.
- Knock —(Like a knock on a door)
  - Knock characteristics include hollow sounding/sometimes repeating/often brought on by driver action.
- Tick—(Like a clock second hand)
   Tick characteristics include gentle contacting of light materials/loose components/can be caused by driver action or road conditions.
- Thump—(Heavy, muffled knock noise)
   Thump characteristics include softer knock/dead sound often brought on by activity.
- Buzz—(Like a 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 you may judge
  as acceptable may be very irritating to the customer.
- Weather conditions, especially humidity and temperature, may have a great effect on noise level.

#### DUPLICATE THE NOISE AND TEST DRIVE

#### < SYMPTOM DIAGNOSIS >

#### **IW/O CLIMATE CONTROLLED SEATS]**

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

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.
- 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 CVT and A/T models).
- 6) Raise the vehicle on a hoist and hit a tire with a rubber hammer.
- Drive the vehicle and attempt to duplicate the conditions the customer states exist when the noise occurs.
- · If it is difficult to duplicate the noise, drive the vehicle slowly on an undulating or rough road to stress the vehicle body.

#### CHECK RELATED SERVICE BULLETINS

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

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

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

- 1. Narrow down the noise to a general area. To help pinpoint the source of the noise, use a listening tool (Chassis Ear: J-39570, Engine Ear: J-39565 and mechanic's stethoscope).
- 2. Narrow down the noise to a more specific area and identify the cause of the noise by:
  - removing the components in the area that you suspect the noise is coming from. Do not use too much force when removing clips and fasteners, otherwise clips and fasteners can be broken or lost during the repair, resulting in the creation of new noise.
  - tapping or pushing/pulling the component that you suspect is causing the noise. Do not tap or push/pull the component with excessive force, otherwise the noise will be eliminated only
  - feeling for a vibration with your hand by touching the component(s) that you suspect is (are) causing the
  - placing a piece of paper between components that you suspect are causing the noise.
  - looking for loose components and contact marks. Refer to SE-112, "Generic Squeak and Rattle Troubleshooting".

#### REPAIR THE CAUSE

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

#### **CAUTION:**

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

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

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

URETHANE PADS [1.5 mm (0.059 in) thick]

Insulates connectors, harness, etc.

76268-9E005: 100×135 mm (3.94×5.31 in)/76884-71L01: 60×85 mm (2.36×3.35 in)/76884-71L02: 15×25 mm (0.59×0.98 in)

**INSULATOR (Foam blocks)** 

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

73982-9E000: 45 mm (1.77 in) thick, 50×50 mm (1.97×1.97 in)/73982-50Y00: 10 mm (0.39 in) thick, 50×50 mm (1.97×1.97 in)

**INSULATOR** (Light foam block)

80845-71L00: 30 mm (1.18 in) thick, 30×50 mm (1.18×1.97 in)

**FELT CLOTH TAPE** 

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

68370-4B000: 15×25 mm (0.59×0.98 in) pad/68239-13E00: 5 mm (0.20 in) wide tape roll. The following materials not found in the kit can also be used to repair squeaks and rattles.

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SE-111 2014 Maxima NAM Revision: August 2013

< SYMPTOM DIAGNOSIS >

[W/O CLIMATE CONTROLLED SEATS]

#### **UHMW (TEFLON) TAPE**

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

#### SILICONE GREASE

Used instead of UHMW tape that will be visible or not fit.

Note: Will only last a few months.

SILICONE SPRAY

Use when grease cannot be applied.

**DUCT TAPE** 

Use to eliminate movement.

#### CONFIRM THE REPAIR

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

### Generic Squeak and Rattle Troubleshooting

INFOID:0000000009895341

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

#### INSTRUMENT PANEL

Most incidents are caused by contact and movement between:

- Cluster lid A and the instrument panel
- 2. Acrylic lens and combination meter housing
- 3. Instrument panel to front pillar finisher
- Instrument panel to windshield
- Instrument panel pins
- 6. Wiring harnesses behind the combination meter
- 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 silicone spray (in hard to reach areas). Urethane pads can be used to insulate wiring harness.

#### **CAUTION:**

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

#### CENTER CONSOLE

Components to pay attention to include:

- 1. Shift selector 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:

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

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

#### **TRUNK**

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

- 1. Trunk lid bumpers out of adjustment
- Trunk lid striker out of adjustment
- The trunk lid torsion bars knocking together

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#### < SYMPTOM DIAGNOSIS >

[W/O CLIMATE CONTROLLED SEATS]

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
- Sun visor 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.

#### OVERHEAD CONSOLE (FRONT AND REAR)

Overhead console noises are often caused by the console panel clips not being engaged correctly. Most of these incidents are repaired by pushing up on the console at the clip locations until the clips engage. In addition look for:

- 1. Loose harness or harness connectors.
- 2. Front console map/reading lamp lens loose.
- Loose screws at console attachment points.

#### **SEATS**

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

Cause of seat noise include:

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

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

#### UNDERHOOD

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

Causes of transmitted underhood noise include:

- 1. Any component installed to the engine wall
- 2. Components that pass through the engine wall
- Engine wall mounts and connectors
- 4. Loose radiator installation pins
- 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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## **Diagnostic Worksheet**

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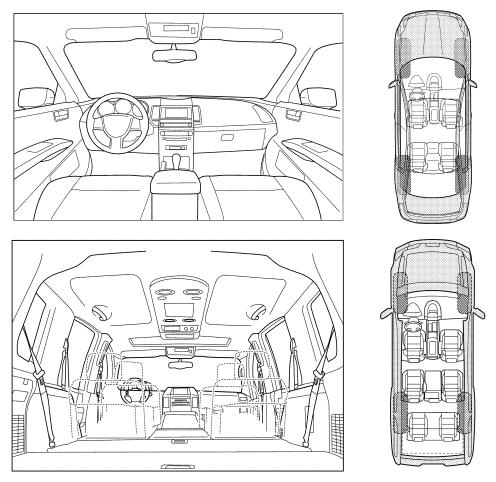
#### Dear Customer:

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

#### **SQUEAK & RATTLE DIAGNOSTIC WORKSHEET**

#### 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.

< SYMPTOM DIAGNOSIS >

[W/O CLIMATE CONTROLLED SEATS]

		_
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:	IV. WHAT TYPE OF NOISE	
☐ Through driveways	☐ Squeak (like tennis shoes on a clean floor)	
Over rough roads	☐ Creak (like walking on an old wooden floor)	
Over speed bumps	Rattle (like shaking a baby rattle)	
Only about mph	☐ Knock (like a knock at the door)	
On acceleration	☐ Tick (like a clock second hand)	
Coming to a stop	Thump (heavy muffled knock noise)	
On turns: left, right or either (circle)	Buzz (like a bumble bee)	
I I \A/\tau		
☐ With passengers or cargo		
Other:	– minutes	
	- minutes	_
Other: miles or r		_
Other: miles or r  After driving miles or r  TO BE COMPLETED BY DEALERSHI		_
Other: miles or r  TO BE COMPLETED BY DEALERSHI		<b>-</b>
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Other: miles or r  After driving miles or r  TO BE COMPLETED BY DEALERSHI  Test Drive Notes:	YES NO Initials of person	<b>-</b>
Other: miles or r  After driving miles or r  TO BE COMPLETED BY DEALERSHI  Test Drive Notes:	YES NO Initials of person	<b>-</b>
Other:	YES NO Initials of person performing	<b>-</b>
Other: miles or r  After driving miles or r  TO BE COMPLETED BY DEALERSHI  Test Drive Notes:  Vehicle test driven with customer - Noise verified on test drive	YES NO Initials of person performing	<b>-</b>
Other: After driving miles or r  TO BE COMPLETED BY DEALERSHI Test Drive Notes:  Vehicle test driven with customer - Noise verified on test drive - Noise source located and repaired - Follow up test drive performed to co	YES NO Initials of person performing	<b>-</b>

## **PRECAUTION**

#### **PRECAUTIONS**

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

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the SR and SB section 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 SR section.
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

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

#### **WARNING:**

- When working near the Airbag Diagnosis Sensor Unit or other Airbag System sensors with the Ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the Ignition OFF, disconnect the battery and wait at least 3 minutes before performing any service.

Service Notice

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

#### Precaution for Work

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

- 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 prevent them from being dropped.
- Replace a deformed or damaged clip.
- If a part is specified as a non-reusable part, always replace it with a new one.
- Be sure to tighten bolts and nuts securely to the specified torque.
- After installation is complete, be sure to check that each part works properly.
- Follow the steps below to clean components:
- Water soluble dirt:
- Dip a soft cloth into lukewarm water, wring the water out of the cloth and wipe the dirty area.
- Then rub with a soft, dry cloth.
- Oily dirt:

#### **PRECAUTIONS**

#### < PRECAUTION >

## [W/O CLIMATE CONTROLLED SEATS]

- Dip a soft cloth into lukewarm water with mild detergent (concentration: within 2 to 3%) and wipe the dirty area.
- Then dip a cloth into fresh water, wring the water out of the cloth and wipe the detergent off.
- Then rub with a soft, dry cloth.
- Do not use organic solvent such as thinner, benzene, alcohol or gasoline.
- For genuine leather seats, use a genuine leather seat cleaner.

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## **PREPARATION**

## **PREPARATION**

## Special Service Tools

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	ols may differ from those of special service tools illu	
Tool number (Kent-Moore No.) Tool name		Description
— (J-39570) Chassis Ear	SIIAO993E	Locating the noise
— (J-46534) Trim Tool Set	AWJIA0483ZZ	Removing trim components
— (J-50397) NISSAN Squeak and Rattle Kit	ALJIA1232ZZ	Repairing the cause of noise

## **Commercial Service Tool**

INFOID:0000000009468168

(Kent-Moore No.) Tool name		Description
(J-39565) Engine Ear	SIIA0995E	Locating the noise
Hook and pick tool	JMJIA0490ZZ	Remove the snap pins

## CLIP LIST

## **Descriptions for Clips**

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## Replace any clips which are damaged during removal or installation.

Symbol No.	Shapes	Removal & Installation
C101		Removal: Remove by bending up with flat-bladed screwdrivers or clip remover.
C103	TTTT	Removal: Remove with a clip remover.
C203 [ (7)		Removal: Push center pin to catching position. (Do not remove center pin by hitting it.) Push Push Installation:
C205		Removal: Flat-bladed screwdriver  Clip Finisher
C206		Removal:

SIIA0315E

Symbol No.	Shapes	Removal & Installation
CE103		Removal:
CF110	Clip A	Removal:  Finisher Clip A  Flat-bladed screwdrivers  Clip B
CF118	Clip A Clip B (Grommet)	Removal:  Flat-bladed screwdrivers  Body panel  Clip A Clip B (Grommet)
CR103		Removal: Holder portion of clip must be spread out to remove rod.
CS101		Removal:  1. Screw out with a Phillips screwdriver.  2. Remove female portion with flat-bladed screwdriver.

SIIA0316E

Symbol No.	Shapes	Remova	al & Installation
CG101		Removal:  Rotate 45° to remove  Removal:	Installation:
CS102	(X)		
CS113		with a flat-blade	while inserting a vdriver between
C111			

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Symbol No.	Shapes	Removal & Installation
CG104		Removal: Remove by bending up with flat-bladed screwdrivers. Radiator grille Body panel
CE114		
CF118	Clip A  Clip B (Grommet)	Removal: Flat-bladed Finisher screwdrivers Body panel Clip A Clip B (Grommet)

ALJIA0564GB

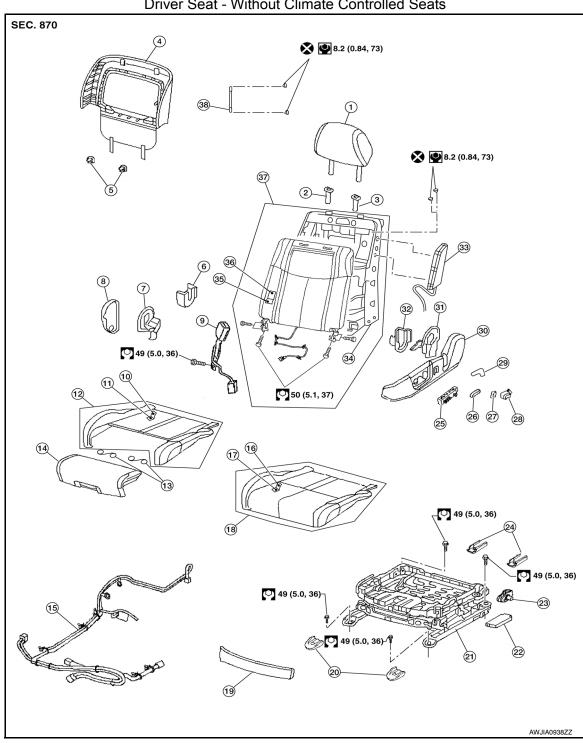
# REMOVAL AND INSTALLATION

## **FRONT SEAT**

**Exploded View** 

**DRIVER** 





- 1. Headrest
- Seatback board
- 7. Recline mechanism inner cover
- 2. Headrest holder (free)
- 5. Seatback board clip

8.

- Headrest holder (locked)
- 6. Seat cushion inner finisher inside (RH)
- Seat cushion outer finisher (RH) 9. Seat belt buckle

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**SE-123** Revision: August 2013 2014 Maxima NAM

## **FRONT SEAT**

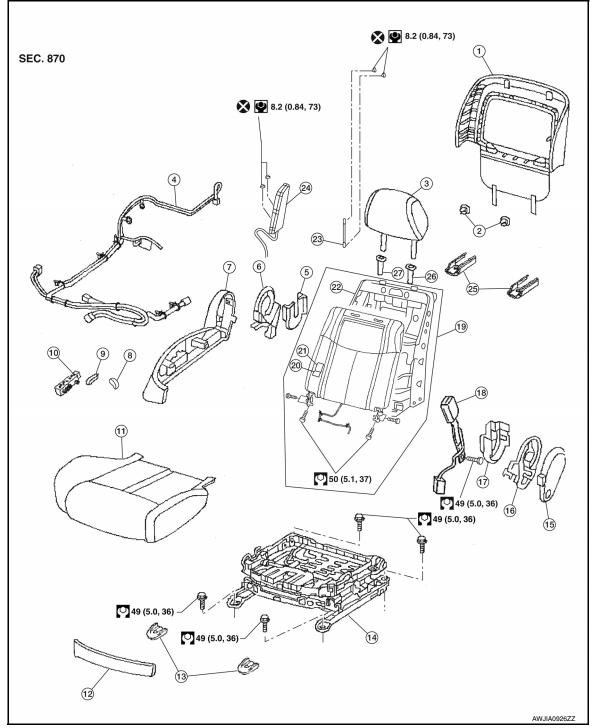
## < REMOVAL AND INSTALLATION >

## [W/O CLIMATE CONTROLLED SEATS]

10.	Seat cushion trim	11.	Seat cushion pad	12.	Seat cushion assembly
13.	Thigh extension tether	14.	Thigh extension assembly	15.	Seat harness
16.	Seat cushion trim (w/o thigh extension)	17.	Seat cushion pad (w/o thigh extension)	18.	Seat cushion assembly (w/o thigh extension)
19.	Seat cushion front finisher	20.	Front slide cover	21.	Seat frame assembly
22.	Power seat control unit	23.	Actuator bracket	24.	Rear slide cover
25.	Power seat switch	26.	Seat slide and lifter switch knob	27.	Seat recline knob
28.	Lumbar support switch (if equipped)	29.	Lumbar lever (if equipped)	30.	Seat cushion outer finisher (LH)
31.	Recline device outer cover	32.	Seat cushion inner finisher (LH)	33.	Side air bag module
34.	Seatback frame	35.	Seatback pad	36.	Seatback trim
37.	Seatback assembly	38.	Chute rod		

#### **PASSENGER**

## Passenger Seat



1.	Seatback	board
----	----------	-------

Seat harness

7. Seat cushion outer finisher (RH)

10. Power seat switch

13. Front slide cover

16 Recline mechanism inner cover

19. Seatback assembly

22. Seatback frame

25. Rear slide cover

2. Seatback board clip

5. Seat cushion inner finisher inside (RH) 6.

8. Seat recline knob

11. Seat cushion assembly

14. Seat frame assembly

17. Seat cushion inner finisher inside (LH) 18.

20. Seatback pad

23. Chute rod

26. Headrest holder (locked)

3. Headrest

Recline device inner cover

9. Seat slide and lifter switch knob

12. Seat cushion front finisher

15. Seat cushion outer finisher (LH)

18. Seat belt buckle

21. Seatback trim

24. Side air bag module

27. Headrest holder (free)

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#### Removal and Installation

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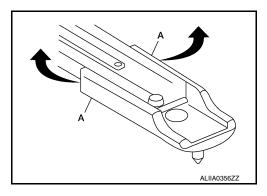
#### **REMOVAL**

#### **WARNING:**

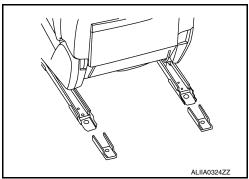
Do not leave any objects (screwdrivers, tools, etc.) on the seat during seat repair. It can lead to personal injury if the side air bag module should accidentally deploy.

#### CAUTION:

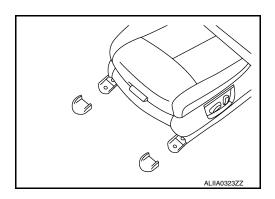
- When removing or installing the seat trim, handle it carefully to keep dirt out and to avoid damage.
- When checking the power seat circuit for continuity using a circuit tester, do not confuse its connector with the side air bag module connector. Such an error may cause the air bag module to deploy.
- Do not drop, tilt, or bump the side air bag module while installing the seat. Always handle it with care.
- After the front side air bag module inflates, the front seatback assembly must be replaced.
- When removing and installing the seat, use shop cloths to protect components from damage.
- Before removing the front seat, turn the ignition switch OFF, disconnect both battery terminals and wait at least three minutes.
- 1. Slide the seat to the full froward position.
- 2. Remove the rear slide covers.
- a. Release the pawls (A).



- b. Remove the rear slide covers.
- 3. Remove the rear mount bolts.



- 4. Slide the seat to the full rearward position.
- 5. Remove the front slide covers.
- Remove the front mount bolts.



7. Disconnect the negative and positive battery terminals and wait at least three minutes. Refer to <u>PG-67</u>, <u>"Removal and Installation (Battery)"</u>.

#### **FRONT SEAT**

#### < REMOVAL AND INSTALLATION >

#### [W/O CLIMATE CONTROLLED SEATS]

- 8. Disconnect the harness connector under the seat and remove harness clips.
- 9. Remove seat from the vehicle.

#### **INSTALLATION**

Installation is in the reverse order of removal.

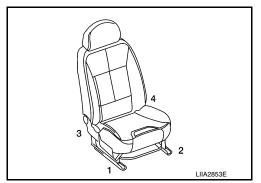
#### **CAUTION:**

Make sure that the seat harness or the floor trim is not damaged during installation.

NOTE:

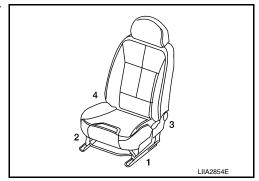
• When installing the LH front seat, tighten the bolts in the order shown.

LH front seat bolt torque : 49 Nm (5.0 kg-m, 36 ft-lb)



 When installing the RH front seat, tighten the bolts in the order shown.

RH front seat bolt torque : 49 Nm (5.0 kg-m, 36 ft-lb)



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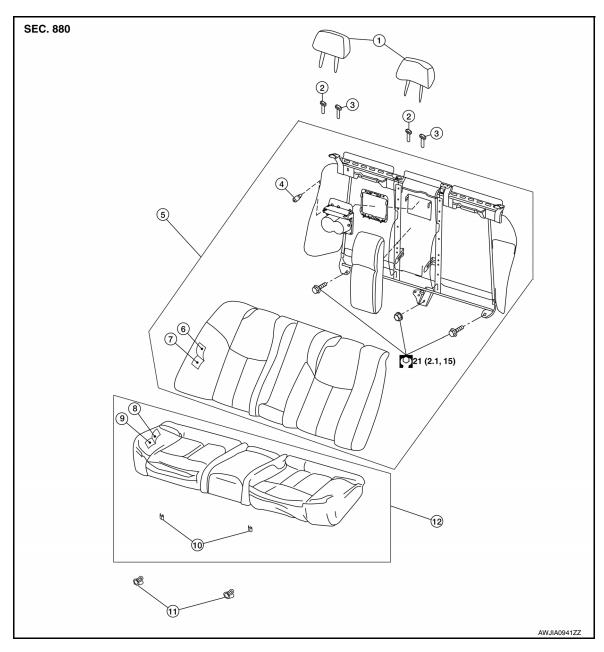
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## **REAR SEAT**

## Exploded View - Fixed Seatback

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- 1. Headrest
- 4. Bumper
- 7. Seatback pad
- 10. Seat cushion wire cover
- 2. Headrest holder (free)
- 5. Seatback assembly
- 8. Seat cushion trim
- 11. Seat cushion lock
- 3. Headrest holder (locked)
- 6. Seatback trim
- 9. Seat cushion pad
- 12. Seat cushion assembly

#### Removal and Installation

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#### **CAUTION:**

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

SEAT CUSHION ASSEMBLY

Removal

#### **REAR SEAT**

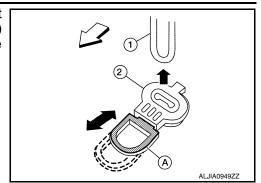
#### < REMOVAL AND INSTALLATION >

## [W/O CLIMATE CONTROLLED SEATS]

1. Locate the seat cushion lock (2) at the front bottom of the seat cushion assembly (one for each side). Pull the release lever (A) forward and lift the seat cushion assembly upward to release the seat cushion wire (1) from the seat cushion lock (2).

⟨□: Front

2. Then pull the seat cushion assembly forward to remove.



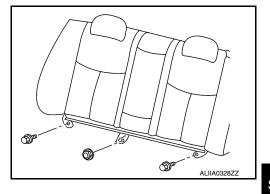
Installation

Installation is in the reverse order of removal.

#### **SEATBACK**

#### Removal

- 1. Remove the seat cushion assembly.
- 2. Remove the headrests (LH/RH).
- 3. Remove the seatback frame bolts and nut.



4. Lift the seatback to disengage seat hook wires from the hangers.

#### Installation

Installation is in the reverse order of removal.

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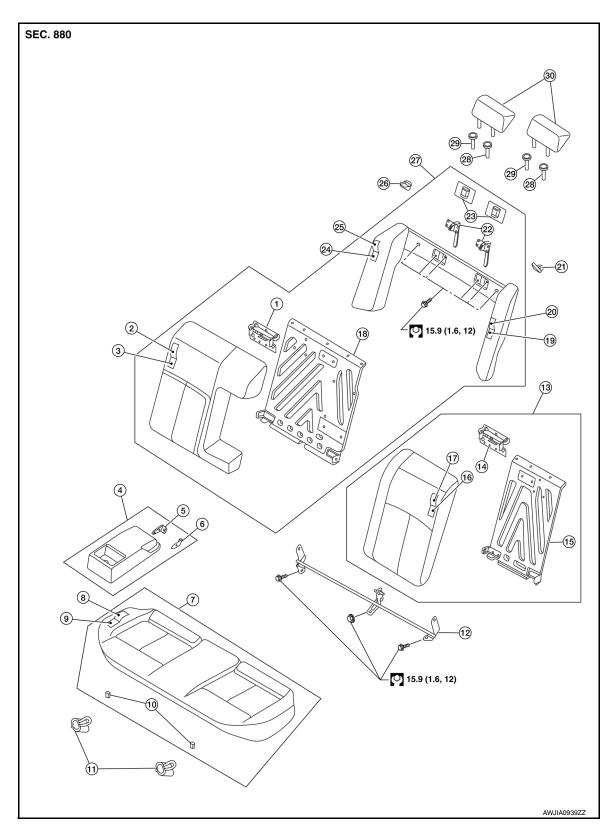
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Exploded View - 60:40 Split Seatback

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- 1. Seatback latch striker (RH)
- 4. Armrest assembly
- 7. Seat cushion assembly
- 10. Seat cushion wire cover
- 2. Seatback trim (RH)
- 5. Inner armrest bracket (RH)
- 8. Seat cushion trim
- 11. Seat cushion lock

- 3. Seatback pad (RH)
- 6. Inner armrest bracket (LH)
- 9. Seat cushion pad
- 12. Seatback hinge assembly

#### **REAR SEAT**

#### < REMOVAL AND INSTALLATION >

#### [W/O CLIMATE CONTROLLED SEATS]

	, ,		<del>-</del>			
13.	Seatback assembly (LH)	14.	Seatback latch striker (LH)	15.	Seatback frame (LH)	
16.	Seatback pad (LH)	17.	Seatback trim (LH)	18.	Seatback frame (RH)	Α
19.	Side bolster pad (LH)	20.	Side bolster trim (LH)	21.	Seat belt guide (LH)	
22.	Seatback latch assembly	23.	Seatback latch cover	24.	Side bolster pad (RH)	
25.	Side bolster trim (RH)	26.	Seat belt guide (RH)	27.	Seatback assembly (RH)	В
28.	Headrest holder (locked)	29.	Headrest holder (free)	30.	Headrest	

#### Removal and Installation

#### INFOID:0000000009468175

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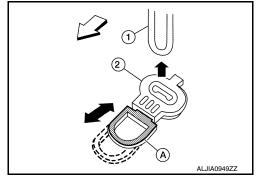
#### **CAUTION:**

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

#### SEAT CUSHION ASSEMBLY

#### Removal

- Locate the seat cushion lock (2) at the front bottom of the seat cushion assembly (one for each side). Pull the release lever (A) forward and lift the seat cushion assembly upward to release the seat cushion wire (1) from the seat cushion lock (2).
  - ⟨
    ⇒: Front
- 2. Then pull the seat cushion assembly forward to remove.



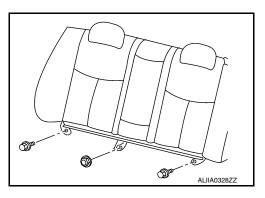
#### Installation

Installation is in the reverse order of removal.

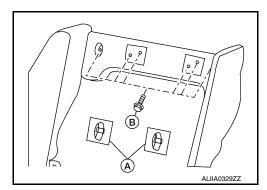
#### **SEATBACK**

#### Removal

- 1. Lock seatback (LH/RH) in upright position.
- 2. Remove the seatback hinge assembly bolts and nut.
- 3. Fold seatback (LH/RH) forward.



- 4. Remove seatback latch covers (A).
- 5. Remove the halo upper frame assembly bolts (B).
- 6. Remove the seatback assembly.



Installation

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## **REAR SEAT**

Installation is in the reverse order of removal.

# UNIT DISASSEMBLY AND ASSEMBLY

FRONT SEAT DRIVER SIDE

DRIVER SIDE: Exploded View

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# Driver Seat - Without Climate Controlled Seats SEC. 870 8.2 (0.84, 73) 8.2 (0.84, 73) 50 (5.1, 37) 49 (5.0, 36) 49 (5.0, 36) 49 (5.0, 36) *ll* 49 (5.0, 36)

- 1. Headrest
- 4. Seatback board
- 7. Recline mechanism inner cover
- 2. Headrest holder (free)
- 5. Seatback board clip
- 3. Headrest holder (locked)
- 6. Seat cushion inner finisher inside (RH)
- Seat cushion outer finisher (RH) 9. Seat belt buckle

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Revision: August 2013 SE-133 2014 Maxima NAM

#### FRONT SEAT

#### < UNIT DISASSEMBLY AND ASSEMBLY >

#### [W/O CLIMATE CONTROLLED SEATS]

•	10.	Seat cushion trim	11.	Seat cushion pad	12.	Seat cushion assembly
•	13.	Thigh extension tether	14.	Thigh extension assembly	15.	Seat harness
	16.	Seat cushion trim (w/o thigh extension)	17.	Seat cushion pad (w/o thigh extension)	18.	Seat cushion assembly (w/o thigh extension)
•	19.	Seat cushion front finisher	20.	Front slide cover	21.	Seat frame assembly
2	22.	Power seat control unit	23.	Actuator bracket	24.	Rear slide cover
2	25.	Power seat switch	26.	Seat slide and lifter switch knob	27.	Seat recline knob
2	28.	Lumbar support switch (if equipped)	29.	Lumbar lever (if equipped)	30.	Seat cushion outer finisher (LH)
;	31.	Recline device outer cover	32.	Seat cushion inner finisher (LH)	33.	Side air bag module
;	34.	Seatback frame	35.	Seatback pad	36.	Seatback trim
(	37.	Seatback assembly	38.	Chute rod		

## **DRIVER SIDE: Disassembly and Assembly**

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#### SEAT ASSEMBLY WITH SIDE AIR BAG MODULE

#### **WARNING:**

Do not leave any objects (screwdriver, tools, etc.) on the seat during seatback repair. It can lead to personal injury if the side air bag should accidentally deploy.

#### **CAUTION:**

- Before servicing, turn the ignition switch OFF, disconnect both battery terminals and wait at least three minutes.
- Handle the side air bag module carefully. During disassembly, always hold the side air bag module, do not let it hang by the wire harness.
- Always place side air bag module with the stud bolt side facing downward.
- Always work from the side or back of the seatback assembly, do not work in front of the seat.
- Do not use air tools or electric tools when servicing the seat assembly.
- Replace the side air bag module if it has been dropped or sustained an impact.
- Do not insert any objects into the side air bag module.
- · Do not disassemble the side air bag module.
- Do not expose the side air bag module to temperatures exceeding 93°C (200°F).
- Do not expose the side air bag module to any oil, grease or water.
- During disassembly, do not damage the trim cover, chutes, connectors, retainers, clips, module harness or the side air bag module.

#### NOTE:

- If the vehicle has been involved in a collision and the side air bag has deployed, the front seatback assembly must be replaced.
- For side air bag module removal and installation, refer to SR-21, "Removal and Installation".

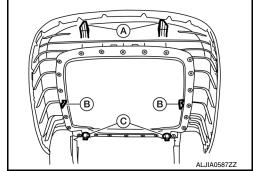
#### Disassembly

- Remove the front seat assembly. Refer to SE-126, "Removal and Installation".
- 2. Remove the seatback board as follows:

#### NOTE:

The seatback board is attached to the seat frame with the following:

- Two top hooks (A)
- Two side hooks (B)
- Two bottom retainers (C)

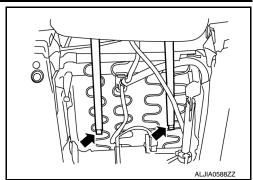


#### **FRONT SEAT**

#### < UNIT DISASSEMBLY AND ASSEMBLY >

#### [W/O CLIMATE CONTROLLED SEATS]

 From the bottom of the seat, unhook the two seat skirt hooks as shown.

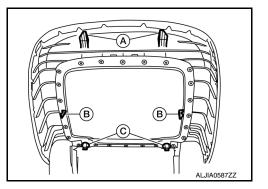


b. Carefully pull upward on the lower seatback board to release the two bottom retainers (C).

#### **CAUTION:**

Do not pull outward at two top hooks (A)

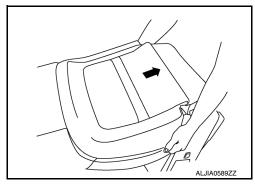
c. Hold the seatback board at the side hook locations (B) and push in the side hooks to release them from the seatback frame, then pull it rearward.



d. Carefully pull the seatback board downward to disengage the top hooks as shown.

#### **CAUTION:**

Use care not to break the seatback board hooks and retainers. Replace seatback board if any hooks or retainers are damaged.

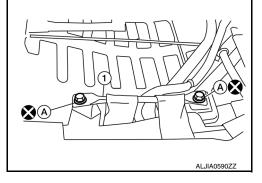


3. Remove and discard the two chute rod bolts (A), then remove the chute rod (1).

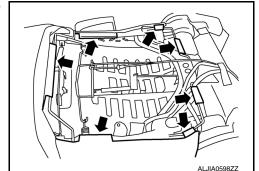
#### **CAUTION:**

Do not reuse the chute rod bolts.

Chute rod bolts (A) : 8.2 N·m (0.84 kg-m, 73 in-lb)



4. Release the seven seatback retainers from the seatback frame as shown.



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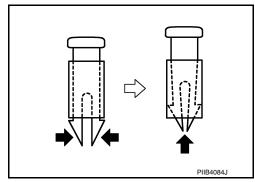
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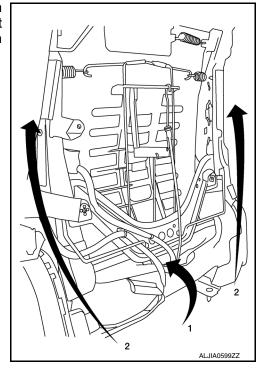
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Reach in from the bottom of the seatback to release the guide clips on the headrest holder. Squeeze the clips at the bottom and push upward to remove as shown.



- Disconnect the harness connector for the seatback heater (if equipped).
- 7. Push the seatback trim and seatback pad forward at the bottom (1), then holding the seatback assembly on both sides, lift upward (2). Remove the seatback trim and seatback pad as an assembly from the seatback frame.

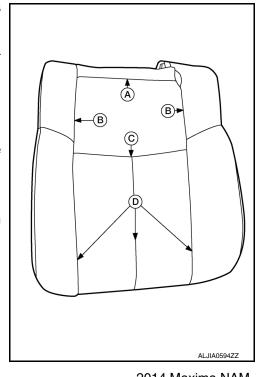


8. If required, separate the seatback trim from the seatback pad as follows:

#### NOTE:

The seatback trim is attached to the seatback pad with the following:

- Five top hog rings (A)
- Four side hog rings (B)
- Three middle hog rings (C)
- Three bottom velcro fasteners (D)
- a. Pull the seatback trim cover from the seatback pad to detach the velcro fasteners.
- b. Position the seatback trim to access the middle hog rings. Remove the middle and side hog rings.
- Remove the top hog rings, then separate the seatback trim from the seatback pad.

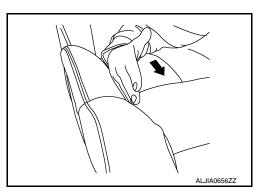


#### < UNIT DISASSEMBLY AND ASSEMBLY >

Assembly

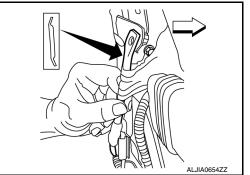
Assembly is in the reverse order of disassembly.

 When installing the seatback trim, firmly push down while sliding your hand along the seams as shown (arrow) to ensure the velcro fasteners are fastened properly.

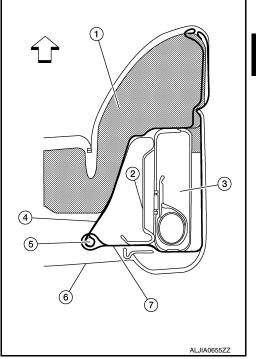


Make sure the chute rod is properly positioned and installed as shown.

⟨□: Front



- Make sure the side air bag outer chute (7) is pulled over the side air bag module (3) and the side air bag inner chute (4) is pulled around the frame (2). Make sure there are no wrinkles and the chutes are not folded, twisted or pinched.
  - (1) Seatback pad
  - (2) Frame
  - (3) Side air bag module
  - (4) Inner side air bag chute
  - (5) Chute rod
  - (6) Seatback board
  - (7) Outer chute
  - ⟨□: Front



#### **CAUTION:**

- If a malfunction was detected by the air bag warning lamp, after repair or replacement of the malfunction parts, reset the memory using self-diagnosis or CONSULT.
- After work is completed, check that no system malfunction is detected by air bag warning lamp.
- Make sure side air bag module shell is closed at all tabs and cushion of module is not exposed. Do
  not reuse if the tab of shell is not secured.
- Always install new side air bag module attaching nuts and side air bag chute rod bolts.

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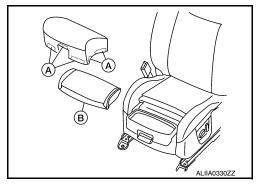
- Always route side air bag module harness in original location. Replace any deformed or damaged clips with the same type and color. Always install clips in the original location on the harness.
- · Smooth out all wrinkles during assembly.
- Inspect seatback pad, trim cover and trim cover chutes. Replace if damaged.
- Replace any deformed or damaged parts.
- Replace any deformed or damaged hog rings. Ensure any old hog ring pieces are removed from the seat.
- Use only one hog ring in each designated location.
- Ensure hog rings are correctly fastened around both the seatback trim and seatback pad trim wires.
   NOTE:

Use NISSAN standard hog rings and tools to assemble.

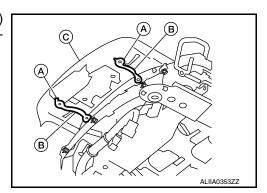
#### THIGH EXTENSION ASSEMBLY

#### Disassembly

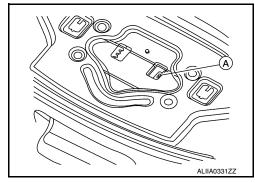
- 1. Move the thigh extension assembly to the front most position and release the trim cover clips (A).
- 2. Remove the trim and pad (B).



3. Cut the thigh extension tethers and drill out the upper rivets (A) that connect the thigh extension tethers (B) to the thigh extension assembly (C).



- 4. Insert suitable tool into the thigh extension assembly top panel and release the clip (A).
- 5. Pull the thigh extension handle and remove the thigh extension assembly.



6. Drill out the lower rivets that connect the thigh extension tethers to the seat frame assembly.

#### Assembly

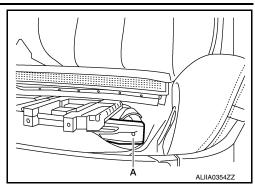
Replace the pad, trim and clips and to the thigh extension assembly.

#### **FRONT SEAT**

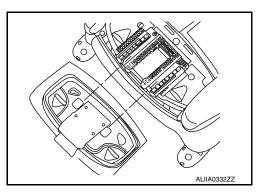
#### < UNIT DISASSEMBLY AND ASSEMBLY >

#### [W/O CLIMATE CONTROLLED SEATS]

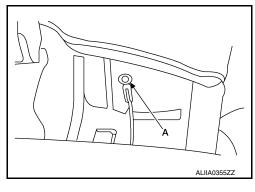
2. Rivet the thigh extension tethers to the seat frame assembly mounting hole (A).



- 3. Align the thigh extension assembly on the top rail.
- 4. Lift the thigh extension handle and slide the thigh extension assembly onto the seat.



5. Rivet the thigh extension tethers to the thigh extension assembly mounting hole (A).



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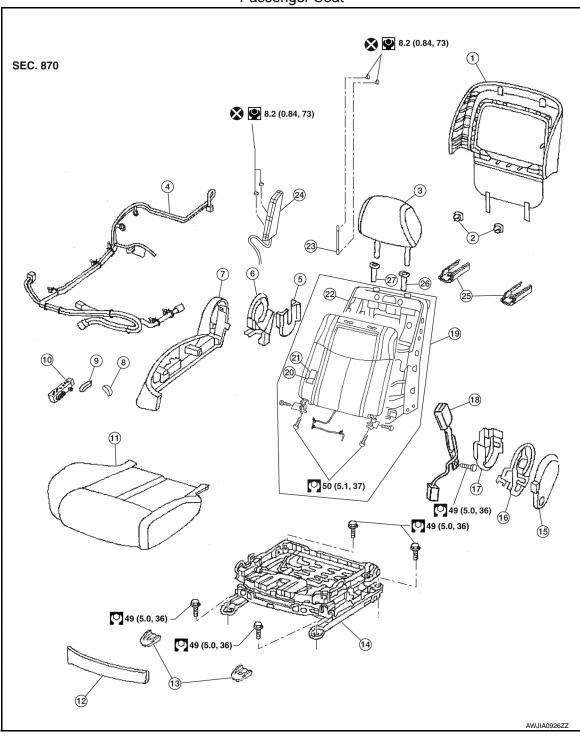
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## PASSENGER SIDE: Exploded View

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#### Passenger Seat



- 1. Seatback board
- 4. Seat harness
- 7. Seat cushion outer finisher (RH) 8.
- 10. Power seat switch
- 13. Front slide cover
- 16 Recline mechanism inner cover 17.
- 19. Seatback assembly

- 2. Seatback board clips
- 5. Seat cushion inner finisher inside (RH) 6.
- 8. Seat recline knob
- 11. Seat cushion assembly
- 14. Seat frame assembly
- 17. Seat cushion inner finisher inside (LH) 18.
- 20. Seatback pad

- 3. Headrest
- 6. Recline device inner cover
- 9. Seat slide and lifter switch knob
- 12. Seat cushion front finisher
- 15. Seat cushion outer finisher (LH)
- 18. Seat belt buckle
- 21. Seatback trim

#### FRONT SEAT

#### < UNIT DISASSEMBLY AND ASSEMBLY >

#### [W/O CLIMATE CONTROLLED SEATS]

22. Seatback frame 23. Chute rod 24. Side air bag module

25. Rear slide cover 26. Headrest holder (locked) 27. Headrest holder (free)

## PASSENGER SIDE: Disassembly and Assembly

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#### SEAT ASSEMBLY WITH SIDE AIR BAG MODULE

#### **WARNING:**

Do not leave any objects (screwdriver, tools, etc.) on the seat during seatback repair. It can lead to personal injury if the side air bag should accidentally deploy.

#### **CAUTION:**

- Before servicing, turn the ignition switch OFF, disconnect both battery terminals and wait at least three minutes.
- Handle the side air bag module carefully. During disassembly, always hold the side air bag module, do not let it hang by the wire harness.
- Always place side air bag module with the stud bolt side facing downward.
- Always work from the side or back of the seatback assembly, do not work in front of seat.
- Do not use air tools or electric tools when servicing the seat assembly.
- Replace the side air bag module if it has been dropped or sustained an impact.
- Do not insert any objects into the side air bag module.
- · Do not disassemble the side air bag module.
- Do not expose the side air bag module to temperatures exceeding 93°C (200°F).
- Do not expose the side air bag module to any oil, grease or water.
- During disassembly, do not damage the trim cover, chutes, connectors, retainers, clips, module harness or the side air bag module.

#### NOTE:

- If the vehicle has been involved in a collision and the side air bag has deployed, the front seatback assembly must be replaced.
- For side air bag module removal and installation, refer to <u>SR-21, "Removal and Installation"</u>.

#### Disassembly

- Remove the front seat assembly. Refer to <u>SE-126, "Removal and Installation"</u>.
- Remove the seatback board as follows:

#### NOTE:

The seatback board is attached to the seat frame with the following:

- Two top hooks (A)
- Two side hooks (B)
- Two bottom retainers (C)

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 From the bottom of the seat, unhook the two seat skirt hooks as shown.

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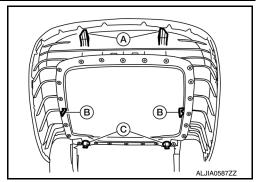
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b. Carefully pull upward on the lower seatback board to release the two bottom retainers (C).

#### **CAUTION:**

Do not pull outward at two top hooks (A)

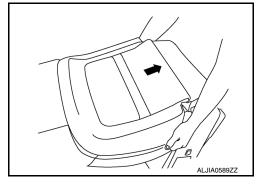
c. Hold the seatback board at the side hook locations (B) and push in the side hooks to release them from the seatback frame, then pull it rearward.



d. Carefully pull the seatback board downward to disengage the top hooks as shown.

#### **CAUTION:**

Use care not to break the seatback board hooks and retainers. Replace seatback board if any hooks or retainers are damaged.

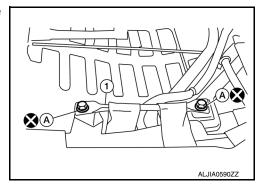


3. Remove and discard the two chute rod bolts (A), then remove the chute rod (1).

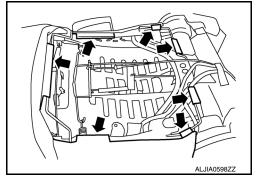
#### **CAUTION:**

Do not reuse the chute rod bolts.

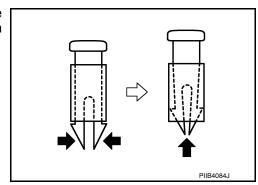
Chute rod bolts (A) : 8.2 N·m (0.84 kg-m, 73 in-lb)



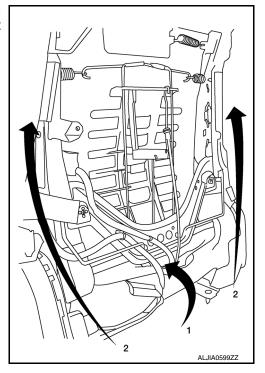
4. Release the seven seatback retainers from the seatback frame as shown.



5. Reach in from the bottom of the seatback to release the guide clips on the headrest holder. Squeeze the clips at the bottom and push upward to remove as shown.



- 6. Disconnect the harness connector for the seatback heater (if equipped).
- 7. Push the seatback trim and seatback pad forward at the bottom (1), then holding the seatback assembly on both sides, lift upward (2). Remove the seatback trim and seatback pad as an assembly from the seatback frame.

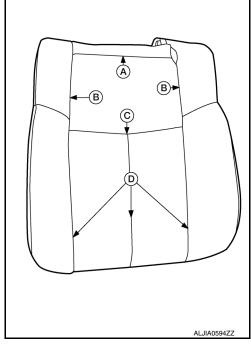


3. If required, separate the seatback trim from the seatback pad as follows:

#### NOTE:

The seatback trim is attached to the seatback pad with the following:

- Five top hog rings (A)
- Four side hog rings (B)
- Three middle hog rings (C)
- Three bottom velcro fasteners (D)
- a. Pull the seatback trim cover from the seatback pad to detach the velcro fasteners.
- b. Position the seatback trim to access the middle hog rings. Remove the middle and side hog rings.
- Remove the top hog rings, then separate the seatback trim from the seatback pad.



#### Assembly

Assembly is in the reverse order of disassembly. During assembly, note the following.

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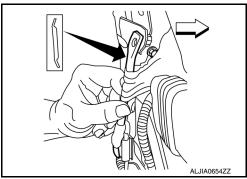
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 When installing the seatback trim, firmly push down while sliding your hand along the seams as shown (arrow) to ensure the velcro fasteners are fastened properly.

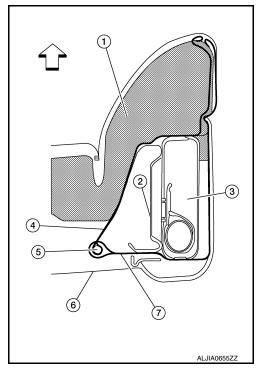


• Make sure the chute rod is properly positioned and installed as shown.

<: Front



- Make sure the side air bag outer chute (7) is pulled over the side air bag module (3) and the side air bag inner chute (4) is pulled around the frame (2). Make sure there are no wrinkles and the chutes are not folded, twisted or pinched.
  - (1) Seatback pad
  - (5) Chute rod
  - (6) Seatback board
  - <: Front



#### **CAUTION:**

- If a malfunction was detected by the air bag warning lamp, after repair or replacement of the malfunction parts, reset the memory using self-diagnosis or CONSULT.
- After work is completed, check that no system malfunction is detected by air bag warning lamp.
- Make sure side air bag module shell is closed at all tabs and cushion of module is not exposed. Do not reuse if the tab of shell is not secured.
- Always install new side air bag module attaching nuts and side air bag chute rod bolts.
- Always route side air bag module harness in original location. Replace any deformed or damaged clips with the same type and color. Always install clips in the original location on the harness.
- · Smooth out all wrinkles during assembly.

#### **FRONT SEAT**

#### < UNIT DISASSEMBLY AND ASSEMBLY >

[W/O CLIMATE CONTROLLED SEATS]

- Inspect seatback pad, trim cover and trim cover chutes. Replace if damaged.
- Replace any deformed or damaged parts.
- Replace any deformed or damaged hog rings. Ensure any old hog ring pieces are removed from seat.
- Use only one hog ring in each designated location.
- Ensure hog rings are correctly fastened around both the seatback trim and pad trim wires.

NOTE:

Use NISSAN standard hog rings and tools to assemble.

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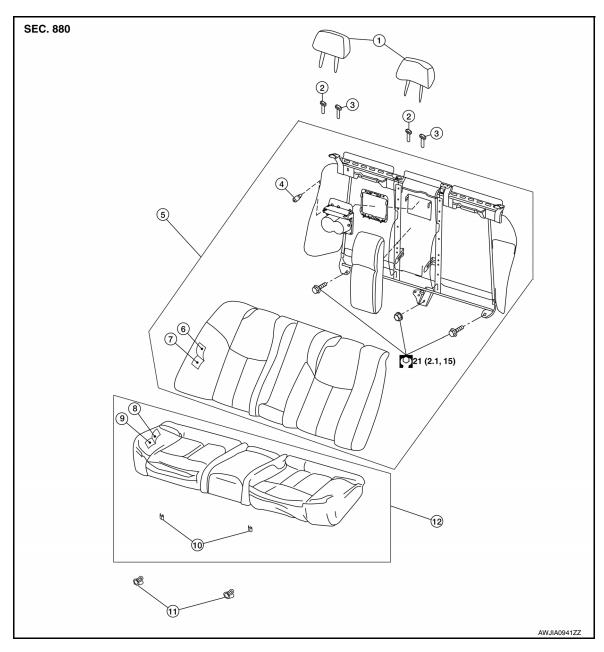
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## **REAR SEAT**

## Exploded View - Fixed Seatback

< UNIT DISASSEMBLY AND ASSEMBLY >

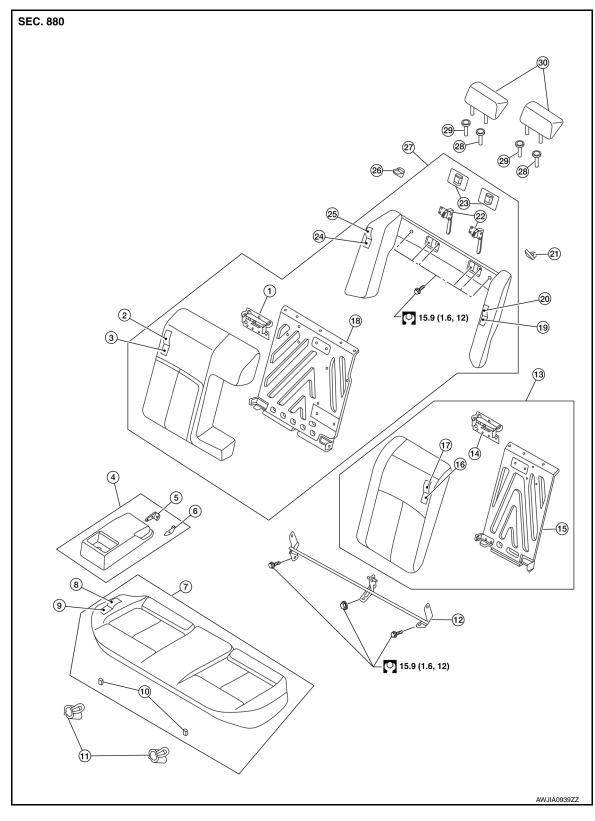
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- 1. Headrest
- 4. Bumper
- 7. Seatback pad
- 10. Seat cushion wire cover
- 2. Headrest holder (free)
- 5. Seatback assembly
- 8. Seat cushion trim
- 11. Seat cushion lock
- 3. Headrest holder (locked)
- 6. Seatback trim
- 9. Seat cushion pad
- 12. Seat cushion assembly

Exploded View - 60:40 Split Seatback

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- 1. Seatback latch striker (RH)
- 4. Armrest assembly
- 7. Seat cushion assembly
- 10. Seat cushion wire cover
- 13. Seatback assembly (LH)
- 16. Seatback pad (LH)

- 2. Seatback trim (RH)
- 5. Inner armrest bracket (RH)
- 8. Seat cushion trim
- 11. Seat cushion lock
- 14. Seatback latch striker (LH)
- 17. Seatback trim (LH)

- 3. Seatback pad (RH)
- 6. Inner armrest bracket (LH)
- 9. Seat cushion pad
- 12. Seatback hinge assembly
- 15. Seatback frame (LH)
- 18. Seatback frame (RH)

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## **REAR SEAT**

## < UNIT DISASSEMBLY AND ASSEMBLY >

## [W/O CLIMATE CONTROLLED SEATS]

19.	Side bolster pad (LH)	20.	Side bolster trim (LH)	21.	Seat belt guide (LH)
22.	Seatback latch assembly	23.	Seatback latch cover	24.	Side bolster pad (RH)
25.	Side bolster trim (RH)	26.	Seat belt guide (RH)	27.	Seatback assembly (RH)
28.	Headrest holder (locked)	29.	Headrest holder (free)	30.	Headrest