## CONTENTS

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 $\mathsf{SECTION} \mathsf{SEC}^{\mathsf{A}}$ 

WITH CLIMATE CONTROLLED SEATS	Description16 F
DAGIO INORECTION	Component Function Check16
BASIC INSPECTION	Diagnosis Procedure16
DIAGNOSIS AND REPAIR WORK FLOW	Component Inspection (Thermal Electric Device)17
Work Flow	CLIMATE CONTROLLED SEAT SWITCH19
	Description19
FUNCTION DIAGNOSIS 4	Component Function Check19
	Diagnosis Procedure19
CLINATE CONTROLLED SEAT STSTEIN 4	Component Inspection (Climate Controlled Seat
System Diagram	Switch)20
Component Parts Location 5	
Component Description	
	Description 22
COMPONENT DIAGNOSIS6	Component Function Check 22
	Diagnosis Procedure
FOWER SOFFET AND GROUND CIRCOTT 6	Component Inspection (Climate Controlled Seat
CLIMATE CONTROLLED SEAT CONTROL UNIT6	Switch Indicator)23
CLIMATE CONTROLLED SEAT CONTROL UNIT	
: Diagnosis Procedure6	
CLIMATE CONTROLLED SEAT CONTROL UNIT	WIRING DIAGRAM - POWER SEAT FOR DRIVER
: Component Inspection (Climate Controlled Seat	Wiring Diagram - POWER SEAT FOR PASSEN-
Relay)8	GER SIDE - 28
CLIMATE CONTROLLED SEAT BLOWER	
MOTOR10	HEATED SEAT32
Description10	Wiring Diagram - HEATED SEAT
Component Function Check10	I UMBAR SUPPORT 37
Diagnosis Procedure10	Wiring Diagram - LUMBAR SUPPORT SYSTEM
Component Inspection (Climate Controlled Seat	C
Blower Motor)12	ECU DIAGNOSIS40
SEAT CUSHION THERMAL ELECTRIC DE-	CLIMATE CONTROLLED SEAT CONTROL
VICE	
Description13	Reference Value 40
Component Function Check13	Wiring Diagram - CLIMATE CONTROLLED SEAT
Diagnosis Procedure13	
Component Inspection (Thermal Electric Device)14	Fail-safe48
SEATBACK THERMAL ELECTRIC DEVICE 16	SYMPTOM DIAGNOSIS51

CLIMATE CONTROLLED SEAT SYSTEM 51 Symptom Table 51
SQUEAK AND RATTLE TROUBLE DIAG-
NOSES
Work Flow
Inspection Procedure54
Diagnostic Worksheet 56
PRECAUTION58
PRECAUTIONS58
Supplemental Restraint System (SRS) AIR BA
G and SEAT BELT PRE-TENSIONER 58
Precautions Necessary for Steering Wheel Rota-
tion after Battery Disconnect
Service Notice
Precaution for Work
PREPARATION 60
PREPARATION60
Commercial Service Tools 60
ON-VEHICLE REPAIR 61
FRONT SEAT61
Exploded View61
Removal and Installation64
REAR SEAT 66
Exploded View - Bucket Seat 66
Removal and Installation67
DISASSEMBLY AND ASSEMBLY 68
FRONT SEAT68
DRIVER SIDE 68
DRIVER SIDE : Exploded View 68
DRIVER SIDE : Disassembly and Assembly 70
PASSENGER SIDE
PASSENGER SIDE : Exploded View
PASSENGER SIDE : Disassembly
Exploded View - Bucket Seat
ARMREST 77
ARMREST : Disassembly and Assembly
COMPONENT DIAGNOSIS
Wiring Diagram - POWER SEAT FOR DRIVER
SIDE
Wiring Diagram - POWER SEAT FOR PASSEN-
GEK SIDE
HEATED SEAT86

Wiring Diagram - HEATED SEAT
LUMBAR SUPPORT
SYMPTOM DIAGNOSIS94
SQUEAK AND RATTLE TROUBLE DIAG- NOSES 94 Work Flow 94 Generic Squeak and Rattle Troubleshooting 96 Diagnostic Worksheet 98
PRECAUTION100
<b>PRECAUTIONS</b> 100         Precaution for Supplemental Restraint System       (SRS) "AIR BAG" and "SEAT BELT PRE-TEN-SIONER"         SIONER"       100         Precautions Necessary for Steering Wheel Rotation after Battery Disconnect       100         Service Notice       100         Precaution for Work       101
PREPARATION102
PREPARATION102Special Service Tool102Commercial Service Tool102
ON-VEHICLE REPAIR103
FRONT SEAT103Exploded View103Removal and Installation106REAR SEAT108
Exploded View - Bucket Seat108Removal and Installation109Exploded View - Bench Seat110Removal and Installation111
DISASSEMBLY AND ASSEMBLY112
FRONT SEAT112
DRIVER SIDE
PASSENGER SIDE115PASSENGER SIDE : Exploded View116PASSENGER SIDE : Disassembly117
REAR SEAT118Bucket Seat118Exploded View - Bucket Seat118
ARMREST119ARMREST : Disassembly and Assembly119Bench Seat120Exploded View - Bench Seat120

BASIC INSPECTION	Λ
DIAGNOSIS AND REPAIR WORK FLOW	А
Work Flow	В
DETAILED FLOW	
1.OBTAIN INFORMATION ABOUT SYMPTOM	С
Interview the customer to obtain as much information as possible about the malfunction (conditions and envi- ronment when the malfunction occurred) when the customer brings the vehicle in.	D
>> GO TO 2.	
2. REPRODUCE THE MALFUNCTION INFORMATION	E
Check the malfunction on the vehicle that the customer describes. Inspect the relation of the symptoms and the condition when the symptoms occur.	
	F
>> GO TO 3.	
<b>3.</b> IDENTIFY THE MALFUNCTIONING SYSTEM WITH "SYMPTOM DIAGNOSIS"	G
Use "Symptom diagnosis" from the symptom inspection result in step 2 and then identify where to start per- forming the diagnosis based on possible causes and symptoms.	
>> GO TO 4	Н
4. IDENTIFY THE MALFUNCTIONING PARTS WITH "COMPONENT DIAGNOSIS"	
Perform the diagnosis with "Component diagnosis" of the applicable system.	
>> GO TO 5	0.5
5. REPAIR OR REPLACE THE MALFUNCTIONING PARTS	SE
Repair or replace the specified malfunctioning parts.	
	K
6.FINAL CHECK	I
Check that malfunctions are not reproduced when obtaining the malfunction information from the customer,	
Are the malfunctions corrected?	М
YES >> Inspection End.	IVI
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## FUNCTION DIAGNOSIS CLIMATE CONTROLLED SEAT SYSTEM

### System Diagram



### System Description

INFOID:000000004040231

INFOID:000000004040230

- 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-48, "Fail-safe".

#### **CLIMATE CONTROLLED SEAT SYSTEM** [WITH CLIMATE CONTROLLED SEATS]

#### < FUNCTION DIAGNOSIS >

### **Component Parts Location**

#### INFOID:000000004040232



- 1. Climate controlled seat switch M302
- 4. Seat cushion thermal electric device B219
- Climate controlled seat relay M58 3. Climate controlled seat control unit 6. B212, B216, B217

2.

5.

Seatback thermal electric device B218 Climate controlled seat blower motor B220

INFOID:000000004289496

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 mo- tor, seatback thermal electric device, and seat cushion thermal electric device in accor- dance 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 con- trolled seat blower motor in accordance with the control from the climate controlled seat control unit

### **Component Description**

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#### < COMPONENT DIAGNOSIS >

[WITH CLIMATE CONTROLLED SEATS]

# COMPONENT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT

CLIMATE CONTROLLED SEAT CONTROL UNIT

### CLIMATE CONTROLLED SEAT CONTROL UNIT : Diagnosis Procedure

### 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

- 1. 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

Is the inspection result normal?

YES >> GO TO 3. NO >> GO TO 6.

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### $\mathbf{3.}$ CHECK IGNITION POWER SUPPLY CIRCUIT

1. Disconnect climate controlled seat control unit connector B216.

 Check voltage between climate controlled seat control unit connector B216 terminal 21 and ground.

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

Is the inspection result normal?

YES >> GO TO 4.

**4.**CHECK GROUND CIRCUIT



#### < COMPONENT DIAGNOSIS >

- 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	—	Yes

Is the inspection result normal?

YES >> Inspection End.

NO >> Repair the harness or connectors.

### ${f 5.}$ CHECK CLIMATE CONTROLLED SEAT RELAY



#### 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 Seat Control Unit		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.
- 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.

9.CHECK CLIMATE CONTROLLED SEAT RELAY IGNITION POWER SUPPLY CIRCUIT

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#### < COMPONENT DIAGNOSIS >

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	ed Seat Relay	Climate Controlle	Continuity	
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-39, "Intermittent</u> Incident".

NO >> Repair the harness or connectors.

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

1.CHECK CLIMATE CONTROLLED SEAT RELAY





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#### < COMPONENT DIAGNOSIS >

Apply battery voltage between terminals 2 and 1 of the climate controlled seat relay.
 CAUTION:
 Connect a fuse between the terminals when applying bat-

## tery 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

< COMPONENT DIAGNOSIS >

## CLIMATE CONTROLLED SEAT BLOWER MOTOR

### Description

Sends airflow to the seat cushion and seatback.

### Component Function Check

**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-10. "Diagnosis Procedure"</u>.

### **Diagnosis Procedure**

1. CHECK CLIMATE CONTROLLED SEAT BLOWER MOTOR

Perform climate controlled seat blower motor component inspection. Refer to <u>SE-12</u>, "Component Inspection (Climate Controlled Seat Blower Motor)".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace climate controlled seat blower motor.

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	



YES >> GO TO 4.

NO >> GO TO 3.

 $\mathbf{3}$ . CHECK CLIMATE CONTROLLED SEAT BLOWER MOTOR POWER SUPPLY CIRCUIT

- 1. 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.

	<i></i>
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.





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[WITH CLIMATE CONTROLLED SEATS]

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INFOID:000000004040253

### CLIMATE CONTROLLED SEAT BLOWER MOTOR

#### < COMPONENT DIAGNOSIS >

<b>`</b>	
	[WITH CLIMATE CONTROLLED SEATS]

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Climate co	ntrolled sea motor	t blower	Ground	Continuity	
Connecto	or Te	rminal			
B220 (A)	)	2	_	No	
Is the inspe	ection res	ult norma	<u>al?</u>		
YES >: NO >:	> Replace > Repair h	climate arness d	controlled seat con or connectors.	trol unit.	
4.снеск	CLIMATE	E CONTI	ROLLED SEAT BLC	OWER MOTOR SPE	ED CONTROL SIGNAL
Check volt nector B22	age betw 0 termina	een clim I 3 and g	ate controlled sea round.	t blower motor con-	
Climate con blower	trolled seat motor	Ground	Condition	Voltage	
Connector	Terminal	Ground	Climate controlled s switch	seat (Approx.)	
B220	3	—	HEAT or COOL	4.5V - 8.0V	
Is the inspe YES >: NO >:	ection rest > GO TO ( > GO TO (	ult norma 6. 5.	<u>al?</u>	·	AWJIA0390ZZ
5.снеск	CLIMATE		ROLLED SEAT BLC	OWER MOTOR SPE	ED CONTROL SIGNAL CIRCUIT
<ol> <li>Turn ig</li> <li>Discor climate</li> <li>Check connee trol un</li> </ol>	nition swi nect clima controlle continuity ctor B220 it connect	tch OFF ate contr d seat c / betwee (A) term or B212	olled seat blower r ontrol unit connecto on climate controlle- ninal 3 and climate (B) terminal 4.	notor connector and or B212. d seat blower motor controlled seat con-	

Climate contro mo	lled seat blower otor	Climate contro u	lled seat control nit	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.

NO >> Repair harness or connectors.

#### 6. CHECK CLIMATE CONTROLLED SEAT BLOWER MOTOR GROUND CIRCUIT

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# SE-12

### CLIMATE CONTROLLED SEAT BLOWER MOTOR

### < COMPONENT DIAGNOSIS >

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

Climate controlled seat blower motor		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.
- NO >> Repair harness or connectors.

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

### **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-61. "Exploded View"</u>.

### 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 Blower Motor Terminals		Resistance
3	4	2500 – 2800 Ω

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace climate controlled seat blower motor. Refer to <u>SE-61, "Exploded View"</u>.



INFOID:000000004199489





#### SEAT CUSHION THERMAL ELECTRIC DEVICE [WITH CLIMATE CONTROLLED SEATS] < COMPONENT DIAGNOSIS > SEAT CUSHION THERMAL ELECTRIC DEVICE Description INFOID:000000004269452 Provides cooling and heat for the seat cushion. **Component Function Check** INFOID:000000004269453

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

#### Is the inspection result normal?

YES >> Seat cushion thermal electric device is OK.

>> Refer to SE-13, "Diagnosis Procedure". NO

### Diagnosis Procedure

### 1. CHECK SEAT CUSHION THERMAL ELECTRIC DEVICE

Perform thermal electric device component inspection for the seat cushion. Refer to SE-14, "Component Inspection (Thermal Electric Device)".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace seat cushion thermal electric device.

### 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.

Seat cushion de	thermal electric vice	ctric Climate controlled seat control unit Contin al Connector Terminal		Continuity
Connector	Terminal			
P210 (A)	1	P217 (P)	27	Voc
6219 (A)	2	Б217 (Б)	26	165



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INFOID:000000004269454

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



#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair harness or connectors.

3.CHECK SEAT CUSHION THERMAL ELECTRIC DEVICE SENSOR CIRCUITS

### SEAT CUSHION THERMAL ELECTRIC DEVICE

#### < COMPONENT DIAGNOSIS >

- 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.

Seat cushion thermal electric device		Climate controlled seat control unit		Continuity	
Connector	Terminal	Connector Terminal			
B210 (A)	3 P212 (P)		14	Voc	
B219 (A)	4	B212 (B)	13	165	



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

Seat cushion the	ermal electric de-		Continuity
Connector	Terminal	Ground	Continuity
R210 (A)	3		No
6219 (A)	4		INU

#### Is the inspection result normal?

- YES >> Replace climate controlled seat control unit.
- NO >> Repair harness or connectors.

### Component Inspection (Thermal Electric Device)

### **1.**CHECK THERMAL ELECTRIC DEVICE

- 1. Turn ignition switch OFF.
- 2. Disconnect thermal electric device connector.
- 3. 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-61, "Exploded View"</u>.

2. CHECK THERMAL ELECTRIC DEVICE SENSOR



INFOID:000000004199490

### [WITH CLIMATE CONTROLLED SEATS]

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

#### < COMPONENT DIAGNOSIS >

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
	4	10 – 20° C (50 – 68° F)	1840 – 1135 Ω
3		20 – 30° C (68 – 86° F)	1265 – 800 Ω
		$30 - 40^{\circ} \text{ C} (86 - 104^{\circ} \text{ F})$	895 – 565 Ω
		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-61, "Exploded View"</u>.



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### SEATBACK THERMAL ELECTRIC DEVICE

#### < COMPONENT DIAGNOSIS >

### SEATBACK THERMAL ELECTRIC DEVICE

#### Description

Provides cooling and heat for the seatback.

#### **Component Function Check**

1. CHECK SEAT BACK 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-16, "Diagnosis Procedure"</u>.

Diagnosis Procedure

### **1.**CHECK SEATBACK THERMAL ELECTRIC DEVICE

Perform thermal electric device component inspection for the seatback. Refer to <u>SE-17</u>, "Component Inspection (Thermal Electric Device)".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace seatback thermal electric device.

2.CHECK SEATBACK THERMAL ELECTRIC DEVICE CIRCUITS

- 1. Turn ignition switch OFF.
- 2. 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.

Seatback thermal electric de- vice		Climate controlled seat control     unit     Con		Continuity
Connector	Terminal	Connector	Terminal	
P219 (A)	1 P017 (P)		28	Voc
B210 (A)	2	B217 (B)	25	165



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

Seatback therm	al electric device		Continuity	
Connector	Terminal	al Cround		
R218 (A)	1	Cround	No	
B210 (A)	2		NO	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair harness or connectors.

 $\mathbf{3.}$  CHECK SEAT CUSHION THERMAL ELECTRIC DEVICE SENSOR CIRCUITS

INFOID:000000004199487

INFOID:000000004199488

### SEATBACK THERMAL ELECTRIC DEVICE

#### < COMPONENT DIAGNOSIS >

- [WITH CLIMATE CONTROLLED SEATS]
- 1. 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.

Seatback thermal electric de- vice		Climate controlled seat control unit		Continuity		
Connector	Terminal	al Connector Terminal				
R218 (A)	B218 (A)		B218 (A) B212 (B)	B212 (B)	16	Voc
B210 (A)	4	DZ12 (D)	15	165		



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



3. 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
1

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace thermal electric device. Refer to <u>SE-61, "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
		$10 - 20^{\circ} \text{ C} (50 - 68^{\circ} \text{ F})$	1840 – 1135 Ω
3	4	$20 - 30^{\circ} \text{ C} (68 - 86^{\circ} \text{ F})$	1265 – 800 Ω
		$30 - 40^{\circ} \text{ C} (86 - 104^{\circ} \text{ F})$	895 – 565 Ω
		40 – 50° C (104 – 122° F)	635 – 425 Ω



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Is the inspection result normal?

#### SEATBACK THERMAL ELECTRIC DEVICE

< COMPONENT DIAGNOSIS >

YES >> Inspection End.

NO >> Replace thermal electric device. Refer to <u>SE-61, "Exploded View"</u>.

#### CLIMATE CONTROLLED SEAT SWITCH

< COMPONENT DIAGNOSIS >
CLIMATE CONTROLLED SEAT SWITCH

### [WITH CLIMATE CONTROLLED SEATS]

•			•••••			Α
Description	1				INFOID:000000004269455	
Provides input	ts to the clima	te controlled s	eat control un	it for climate o	controlled seat operation.	В
Componen	t Function	Check			INFOID:000000004269456	
1. СНЕСК СІ		TROLLED SE	AT SWITCH F	UNCTION		С
Turn the clima and HI positio medium and h Is the inspection YES >> C	ate controlled ons. Check th high cool. on result norm limate control	seat switch to hat the climate nal? led seat switch	the H (Heat) L controlled se	₋O, MED, and eat operates a K.	HI positions and the C (Cool) LO, MED, at low, medium and high heat, and low,	D
NO >> R	efer to <u>SE-19</u> Dre e e dure	<u>, "Diagnosis P</u>	rocedure".			
Diagnosis i	Procedure				INFOID:00000004269457	_
1.CHECK CL	IMATE CON	TROLLED SE/	AT SWITCH			F
Perform clima mate Controlle Is the inspection	te controlled ed Seat Switc on result norn	seat switch co <u>h)"</u> . nal?	omponent insp	pection. Refe	r to <u>SE-20. "Component Inspection (Cli-</u>	G
YES >> G NO >> R 2.CHECK CL	O TO 2. eplace climat _IMATE CON <sup>-</sup>	e controlled se	at switch. AT SWITCH P	OWER SUPP	PLY CIRCUIT	Н
<ol> <li>Turn igniti</li> <li>Disconnet controlled</li> <li>Check conector M3 unit connet</li> </ol>	ion switch OF ct climate con l seat control ontinuity betw 302 (A) termin ector B216 (B	F. Itrolled seat sw unit connector een climate c nal 1 and clim ) terminal 24.	vitch connecto B216. ontrolled seat ate controlled	r and climate switch con- seat control		SE
Climate control	lled seat switch	Climate control	led seat control nit	Continuity		Κ
Connector	Terminal	Connector	Terminal		<u> </u>	
M302 (A)	1	B216 (B)	24	Yes	AWJIA039822	L
4. Check co	ntinuity betwe	en climate cor	ntrolled seat sv	witch connect	or M302 (A) terminal 1 and ground.	M
Climate contro	olled seat switch		C	Continuity		
Connector	Terminal	Ground				Ν
M302 (A)	1			No		
YES >> G NO >> R	<u>on result norr</u> O TO 3. epair harness	nal? or connectors	).			0
3.CHECK CL		TROLLED SE	AT SWITCH C		т	
						P

### CLIMATE CONTROLLED SEAT SWITCH

Continuity

Yes

#### < COMPONENT DIAGNOSIS >

Climate controlled seat switch

Terminal

2

Connector

M302 (A)

- AGNOSIS > [WITH CLIMATE CONTROLLED SEATS]
- Disconnect climate controlled seat control unit connector B212.
   Check continuity between climate controlled seat switch con nector M302 (A) terminal 2 and climate controlled seat contro unit connector B212 (B) terminal 9.

Connector

B212 (B)

Climate controlled seat control

unit

n- ol		
_		
	TWOIN COSSEE	1

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

Terminal

9

Climate contro	lled 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 contro u	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 contro	lled seat switch		Continuity
Connector	Terminal	Ground	Continuity
M302 (A)	3		No

Is the inspection result normal?

YES >> Replace climate controlled seat control unit.

NO >> Repair harness or connectors.

### Component Inspection (Climate Controlled Seat Switch)

INFOID:000000004040246

### 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
	2	Climate controlled seat switch HEAT	Yes
1	5	Other than above	No
	2	Climate controlled seat switch COOL	Yes
	Z	Other than above	No



### CLIMATE CONTROLLED SEAT SWITCH

### 

< COM	PONENT DIAGNOSIS > [WITH CLIMATE CONTROLLED SEATS]	
Is the ir	spection result normal?	
YES NO	<ul> <li>&gt;&gt; Inspection End.</li> <li>&gt;&gt; Replace climate controlled seat switch. Refer to <u>SE-61. "Exploded View"</u>.</li> </ul>	А
		В
		С
		D
		E
		F
		G
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### CLIMATE CONTROLLED SEAT SWITCH INDICATOR

#### < COMPONENT DIAGNOSIS >

### CLIMATE CONTROLLED SEAT SWITCH INDICATOR

### Description

Illuminates the climate controlled seat switch to indicate operating status.

#### Component Function Check

### 1. 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-22, "Diagnosis Procedure"</u>.

### **Diagnosis Procedure**

### 1. CHECK CLIMATE CONTROLLED SEAT SWITCH INDICATOR

Perform climate controlled seat switch indicator component inspection. Refer to <u>SE-23</u>, "Component Inspection (Climate Controlled Seat Switch Indicator)".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace climate controlled seat switch.

2. CHECK CLIMATE CONTROLLED SEAT SWITCH COOL INDICATOR CIRCUIT

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

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



[WITH CLIMATE CONTROLLED SEATS]

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

Climate contro	lled 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.

 $\mathbf{3}$ . CHECK CLIMATE CONTROLLED SEAT SWITCH HEAT INDICATOR CIRCUIT

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INFOID:0000000004040285

### CLIMATE CONTROLLED SEAT SWITCH INDICATOR

#### < COMPONENT DIAGNOSIS >

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

Climate controlled seat switch		Climate contro u	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	
		10		

Is the inspection result normal?

YES >> Replace climate controlled seat control unit.

NO >> Repair harness or connectors.

### Component Inspection (Climate Controlled Seat Switch Indicator)

#### **1.**CHECK CLIMATE CONTROLLED SEAT SWITCH

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

			1 V I
Termin	nals	Continuity	_
4	ŝ	Ves	
5	0	163	N

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace climate controlled seat switch. Refer to <u>SE-61, "Exploded View"</u>.





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Wiring Diagram - POWER SEAT FOR DRIVER SIDE -

INFOID:000000004195933

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POWER SEAT FOR DRIVER SIDE - WITHOUT AUTOMATIC DRIVE POSITIONER



#### < COMPONENT DIAGNOSIS >

[WITH CLIMATE CONTROLLED SEATS]

SE-25

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Signal Name		POWER SEAT LH		Signal Name SLIDER MOTOR EAR LIFTER MOTOR SLIDER MOTOR ONT LIFTER MOTOR ONT LIFTER MOTOR EAR LIFTER MOTOR
Vo. Color of Wire	5 	r No. B204 Name FRONT Color WHITE	0	Color of Wire     Color of Wire       0     R       R     R       B/W     R
Terminal I		Connector Connector Connector	H.S.	Terminal I 2 3 4 5 6
Connector No. B1 Connector Name WIRE TO WIRE	Connector Color WHIE           1	Connector No.B201Connector NameWIRE TO WIREConnector ColorWHITE	(前) H.S.	Terminal No.     Color of Wire     Signal Name       3     R/Y     -       4     B     -
Connector No. E30 Connector Name WIRE TO WIRE	Connector Color         MHTE           16         26         46         56         66         70         86         96         70         86         96         70         86         96         70         86         96         70         86         96         70         86         96         70         86         96	Connector No.B12Connector NameWIRE TO WIREConnector ColorWHITE	(和) 8 7 6 5 4	Terminal No.     Color of Wire     Signal Name       3     BR     -       4     B/R     -

#### < COMPONENT DIAGNOSIS >

### [WITH CLIMATE CONTROLLED SEATS]

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NENT	DIAGNO	SIS >	

Connector Name POWER SEAT SWITCH LH Connector Color WHITE 
 4
 2
 1

 10
 9
 8
 7
 6
 5
 B209 Connector No. ЧV E

H.S. E

Connector Name RECLINING MOTOR

B207

Connector No.

Connector Color BLACK

Signal Name

Color of Wire 0 В

Terminal No.

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	Signal Name	I	I	I	I	I	I	I	I	I	I
	Color of Wire	g	0	R/Y	в	GR	>	۲	В	щ	>
5	erminal No.	٢	2	З	4	5	6	7	8	6	10

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Wiring Diagram - POWER SEAT FOR PASSENGER SIDE -



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#### < COMPONENT DIAGNOSIS >

[WITH CLIMATE CONTROLLED SEATS]

**SE-29** 



#### < COMPONENT DIAGNOSIS >

### [WITH CLIMATE CONTROLLED SEATS]

**SE-30** 

	Ī	
Connector No.		B308
Connector Nar	ne	WIRE TO WIRE
Connector Col	л.	WHITE
悟	-	2 3
H.S.	4	5 6 7 8

г			-
	с	8	
	Π	7	
		9	
	2	5	
	÷	4	
			_
-			_

Signal Name	Ι	Ι
Color of Wire	В	R/Υ
Terminal No.	4	7

Connector No.	B309
Connector Name	POWER SEAT SWITCH RH
Connector Color	WHITE
雨	4 3 - 2 1
H.S.	10 9 8 7 6 5

Signal Name	I	I	I	I	I	Ι	-	-	I	-
Color of Wire	I	I	В∖Ү	в	×	>	٢	I	I	GR
erminal No.	-	2	e	4	5	9	7	8	6	10

< COMPONENT DIAGNOSIS >

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INFOID:000000004040292

## HEATED SEAT





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Color of Signal Name	GR	GR/R –									tor Name WIRE TO WIRE	tor Color BROWN		1         2         3         4         5         6         7           8         9         10         11         12         13         14         15         16	al No. Color of Signal Name	G/R –	GR/B –	GR -	GR/L –	GR/R –	ı œ	G/R –	
Connector No. M6	Connector Name WIRE TO WIRE 181		HS 11 11 11 11 11 11 11 11 11 11 11 11 11	25.1 24.1 23.1 22.1 30.1 25.1 28.1 27.1 28.1 21.1 20.1 19.1 18.1		73/1 36.1 35.1 36.1 33.1 32.1 31.1 1 46.1 45.1 44.1 43.1 42.1 47.1 40.1 39.1 38.1	553         544         552         551         550         483           633         651         650         451         551         551         551	720         683         68.1         67.1         68.1           743         78.1         78.1         78.1         78.1	87.1 88.1 88.1 94.1		Connector Name WIRE TO WIRE Connector Name	Connector Color BROWN Connec	4 4	대되지 16 15 14 13 12 11 10 9 8 H.S.	Terminal No. Color of Signal Name Termina	1 G/R -	3 GR/B – 3	6 GR -	9 GR/L – 9	14 GR/R – 14	15 B - 15	16 G/R – 16	
HEATED SEAT CONNECTORS       Connector No.	Connector Name FUSE BLOCK (J/B)		(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Terminal No. Color of Signal Name	8M G/R –						Connector Name WIRE TO WIRE	Connector Color WHITE	c c	NAR 7 6 5 4 5 14 13 2 1 1 H.S.	Terminal No. Color of Signal Name	3 GR/L –	4 GR/B –						

#### HEATED SEAT [WITH CLIMATE CONTROLLED SEATS]

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< COMPONENT DIAGNOSIS >

#### HEATED SEAT [WITH CLIMATE CONTROLLED SEATS]

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COMPONENT DIAGNOSI	5>	[	
			A
	L L L	EATER RH	В
	Signa		С
No. B14 Name WIR Color WHI	Ac. Color of Wire G G G G G G G G G G G G G G G G G G G	No. B30 Name FRC Color of WHI B B	D
Connector Connector Connector	Terminal N 2 4 6	Connector Connector Connector Connector Connector 3	E
			F
	A ame	LEATER LH	G
24 RE TO WIRE 3 1 1 1 1 2 3 1 1	S S S		Н
r No. B10 r Color WH	No. Color of Gire of G	No. Color WH RRME FROM Color WH W/B	I
Connecto Connecto Connecto	Terminal 3 4	Connecto Connecto Connecto A.S. 3 3	SE
			K
	al Name	al Name - - - - - - - - - - - - -	L
	Sign. - OWITHOL DRIVEF		M
r No. B11 r Color WI <sup>8</sup> 7	No. Color o Wire B/W B/W	R     R     R     R       N     No.     R     R       N     No.     Color     N       R     B       GR/B     B       GR/B	Ν
Connectc Connectc Connectd	Terminal 2 4 6 6	Connectc Connectc Connectc H.S. 7	0
		AAJIA0027GB	Ρ

HEATED SEAT

## < COMPONENT DIAGNOSIS >

### [WITH CLIMATE CONTROLLED SEATS]

**SE-35** 

Connector No	. B30	8
Connector Na	me WIF	RE TO WIRE
Connector Co	lor WH	ПЕ
际 H.S.		
Terminal No.	Color of Wire	Signal Name
2	GR/G	I
4	В	I
9	GR/R	I

0	8		Sign
	9		0)
J	5		
-	4		of
		_	Color Wire
	Ċ	1	minal No.
	ÿ		en

Signal Name	I	I	I	
Color of Wire	GR/G	в	GR/R	
Terminal No.	2	4	9	

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Wiring Diagram - LUMBAR SUPPORT SYSTEM -

INFOID:000000004263830

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# [WITH CLIMATE CONTROLLED SEATS]



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#### < COMPONENT DIAGNOSIS >

#### LUMBAR SUPPORT [WITH CLIMATE CONTROLLED SEATS]

#### CLIMATE CONTROLLED SEAT CONTROL UNIT [WITH CLIMATE CONTROLLED SEATS]

#### < ECU DIAGNOSIS >

# ECU DIAGNOSIS CLIMATE CONTROLLED SEAT CONTROL UNIT

#### **Reference Value**

INFOID:000000004040293

#### **TERMINAL LAYOUT**



#### PHYSICAL VALUES

Terminal	Wire color	Item	Signal Input/ Output		Condition		Voltage (Approx.)
						HI HEAT	2.6V - 3.5V
1	0		Input	Ignition switch	Climate controlled	MED HEAT	1.6V – 2.5V
I	0	HEAT SWITCH SIGNAL	input	ON or START	seat switch select	LO HEAT	0.5V – 1.5V
						OFF	0V
4	V	Blower motor speed control	Input	Ignition switch	Climate controlled	HEAT or COOL	4.5V – 8.0V
		Signal			Seat Switch Scient	OFF	0V
6	В	Blower motor ground			_		0V
7	R	Blower motor power supply	Input	Ignition switch Of	N or START		Battery voltage
						HI COOL	2.6V – 3.5V
0	I	COOL owitch signal	Input	Ignition switch	Climate controlled	MED COOL	1.6V – 2.5V
9	9 L		input	ON or START	seat switch select	LO COOL	0.5V – 1.5V
						OFF	0V
13	G/Y	Seat cushion thermal electric device sensor ground		Ignition switch Of	N		0V
1/	C	Seat cushion thermal electric	Input	Blower motor ope	erated		0.5V – 4.0V
	)	device sensor signal	mpat	Ignition switch OF	=F		0V
15	G/Y	Seatback thermal electric de- vice sensor ground	—	Ignition switch Of	N		0V
16	C	Seatback thermal electric de-	Input	Blower motor ope	erated		0.5V – 4.0V
10	0	vice sensor signal	input	Ignition switch OF	F		0V
10	V	COOL switch indicator signal	Output	Ignition switch	Climate controlled	COOL	Battery voltage
15	v		Output	ON or START	seat switch select	OFF	0V
20	BR	HEAT switch indicator signal	Output	Ignition switch	Climate controlled	HEAT	Battery voltage
20	DIX		Output	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	Battery voltage		

# CLIMATE CONTROLLED SEAT CONTROL UNIT

< ECU DIAGNOSIS >

#### [WITH CLIMATE CONTROLLED SEATS]

Terminal	Wire color	ltem	Signal Input/ Output		Condition							
						COOL	Battery voltage					
25	Y	Seatback thermal electric de-	Output	Ignition switch ON or START	Climate controlled seat switch select	HEAT	0V					
						OFF	0V					
						COOL	Battery voltage					
26	Y	Seat cushion thermal electric device power supply (COOI)	cushion thermal electric ce power supply (COOL) Output Output ON or START Climate controlled seat switch select		Climate controlled seat switch select	HEAT	0V					
						OFF	0V					
						HEAT	Battery voltage					
27	L	Seat cushion thermal electric device power supply (HEAT)	Output	Ignition switch	Climate controlled seat switch select	COOL	0V					
						OFF	0V					
						HEAT	Battery voltage					
28	L	Seatback thermal electric de-	Output	Ignition switch	Climate controlled seat switch select	COOL	0V					
						OFF	0V					
29	R/Y	Battery power supply	Input	Ignition switch O	Ignition switch ON or OFF							
30	GR/B	Ground	—			0V						

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< ECU DIAGNOSIS >



# CLIMATE CONTROLLED SEAT CONTROL UNIT < ECU DIAGNOSIS > [WITH CLIMATE CONTROLLED SEATS]



CLIMATE	E CONTROLLED SEAT CONTROL UNIT
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R/G GR

ω

BR/Υ G/R

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#### **CLIMATE CONTROLLED SEAT CONTROL UNIT** [WITH CLIMATE CONTROLLED SEATS]

Signal Name Т Ţ I Т Color of Wire I. L \_ ≻ Terminal No. ~ ω 9 0

CLIMATE CONTROLLED SEAT SWITCH

Connector Name

M302

Connector No.

M208

Connector No.

HITE	23	Signal Name	I	I	I	I	I	I
lor WHITE	4 5 6	Color of Wire	Μ	ГG	>	BR	0	в
Connector Co	际间 H.S.	Terminal No.	-	2	e	4	5	9

		1								
TO WIRE			4         5         6         7           1         12         13         14         15         16	Signal Name	I	I	I	I	I	I
le WIRE	or WHITI		1 2 3 ■ 8 9 10 1	Color of Wire	R/G	в	G/R	BR/Y	GR	ŋ
Connector Nam	Connector Colo		H.S.	Terminal No.	4	9	10	11	12	13

Terminal No. Color of Signal N	81G		46 156 166 176 46 256 266	316 326 336 346	10 406 416	G 48G 49G 50G		06 616 626 636		706 716 726 776 786 796 805		
Connector No. E30 Connector Name WIRE TO WIRE	Connector Color WHITE	H.S.		18G 19G 27G 28G 29G 30G	356 366 370 386 39	426 436 446 456 466 47		51G 52G 53G 54G 59G 60		64G 65G 73G 64G 69G 76G 76G 76G 76G 76G 76G 76G 76G 76G 76	p70 p50	
O WIRE		□ 3 2 1 111098	Signal Name	1	1	I	I	1	I			
o. M305 ame WIRE T	olor WHITE	7 6 5 4 <u></u>	Color of Wire	>	m	0	ВВ	>	ГG			
Connector Nc Connector Na	Connector Co	H.S.	Terminal No.	4	9	10	÷	12	13			

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0 WIRE	Signal Name	1 1 1 1	0 WIRE	Signal Name	1	1 1
B12 me WIRE T	Color of Wire	BX o ≤ BB	B208           Ime         WIRE T           Ior         WHITE           Ior         WHITE           Ior         11           1         2           1         12	Color of Wire	<u> </u>	0 ר
Connector No Connector Na Connector Co	सिंग H.S. Terminal No.	۸ ۵ ۵ ۲ ۲	Connector No Connector Na Connector Co	Terminal No.	12	13
Signal Name	1 1 1 1		TO WIRE	Signal Name	1	1 1
Color of Wire BR GR	≤ 0 0 2 L		. B201 me WIRE lor WHITI	Color of Wire	GR	GR/W GR/B
Terminal No. 20J 58J	59J 60J 61J 98J		Connector Nc Connector Na Connector Cc	Terminal No.	2	6 7
nector No. B1 hector Name WIRE TO WIRE hector Color WHITE	S 11 21 101 111 121 131 141 151 161 171 181 91 11 21 101 111 121 131 141 155 161 171 161 191 201 211 251 251 254 254 254	31.1         32.3         33.1         32.1         33.1         32.1         33.1         32.1         33.1         32.1         33.1         32.1         33.1         32.1         33.1         32.1         33.1         32.1         33.1         32.1         33.1         32.1         32.1         43.1 <td< td=""><td>nector No. B32 nector Name WIRE TO WIRE nector Color WHITE</td><td>ninal No. Color of Signal Name</td><td>12 L 3</td><td>13 G 1 14 0 1 1</td></td<>	nector No. B32 nector Name WIRE TO WIRE nector Color WHITE	ninal No. Color of Signal Name	12 L 3	13 G 1 14 0 1 1

#### CLIMATE CONTROLLED SEAT CONTROL UNIT [WITH CLIMATE CONTROLLED SEATS]

IAGNOSIS > [												<u> </u>						I )N <sup>-</sup>	ΓR	O	L	ED SEATS]				
	ATE CONTROLLED CONTROL UNIT	X	Γ	33 24		Signal Name	I	I	COOL ON INDICATOR	HEAT ON IDICATOR	IGN	I	I	HEAT/COOL SW RESISTOR PWR			CUSHION THERMAL TRIC DEVICE	ш	[		Signal Name	TED + HEAT (-COOL)	TED - HEAT (+COOL)	SENSOR SIGNAL	SENSOR RETURN	
B216	ne CLIM/ SEAT	or BLAC		21 22 2	Color of	Wire	I	I	>	BR	GR/W	I	I	GR		B219	ne SEAT ELEC	or WHIT		4 3	Color of Wire	L	Υ	ŋ	G/Y	
Connector No.	Connector Nar	Connector Col	4	日 H.S.	Taumiand Mo	l erminal No.	17	18	19	20	21	22	23	24		Connector No.	Connector Nar	Connector Col	ą	田 H.S.	Terminal No.	-	2	ю	4	

Signal Name	I	I	I	CUSHION SENSOR GND	CUSHION SENSOR SIGNAL	BACK SENSOR GND	BACK SENSOR SIGNAL
Color of Wire		I	I	G/Y	ŋ	G/Y	Ð
Terminal No.	10	1	12	13	14	15	16

Connector Name CLIMATE CONTROLLED SEAT CONTROL UNIT

B212

Connector No.

Connector Color BLACK

4         5         6         7         8           12         13         14         15         16	Signal Name	HEAT SWITCH INPUT	I	I	BLOWER MOTOR SPEED CONTROL	I	BLOWER GND	BLOWER POWER	I	
9 10 11	Color of Wire	0	I	I	~	-	В	В	I	
H.S.	Terminal No.	-	2	e	4	5	9	7	8	



Signal Name	BACK TED 1	<b>CUSHION TED 1</b>	<b>CUSHION TED 2</b>	BACK TED 2	ВАТ (РТС)	GND
Color of Wire	۲	٢	Ц	L	R/Y	GR/B
Terminal No.	25	26	27	28	29	30

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CK TED 1	1	L
HION TED 1	2	٨
HION TED 2	e	G
CK TED 2	4	У/Э
АТ (РТС)		
GND		

	Signal	TED + HEA	TED - HEA	
4	Color of Wire	Γ	Υ	
同句 H.S.	Terminal No.	1	2	

erminal No.	Color of Wire	Signal Name
٦	L	TED + HEAT (-COOL)
2	٢	TED - HEAT (+COOL)
e	ŋ	SENSOR SIGNAL
4	G/Y	SENSOR RETURN

Signal Na	TED + HEAT (	ТЕО - НЕАТ (-	SENSOR SI
Color of Wire	L	٢	თ
erminal No.	-	2	e

Signal Na	TED + HEAT (	TED - HEAT (	SENSOR SI
Color of Wire	L	۲	თ
erminal No.	۲	2	e

Signa	TED + HE/	TED - HEA	SENSOF
Color of Wire	L	٨	თ
Terminal No.	-	2	e

Signal Nar	TED + HEAT (-	TED - HEAT (+	SENSOR SIG
Color of Wire	L	۲	σ
rminal No.	-	2	e

Signal N	TED + HEAT	TED - HEAT	SENSOR S
Color of Wire	Γ	У	თ
erminal No.	-	2	e

	Signal N	TED + HEAT	TED - HEAT	
	Color of Wire	L	Υ	
5	erminal No.	-	2	

H.S.	
 Terminal No.	Color of Wire
1	L
2	۲

< ECU D

# LINDT

Connector Name SEAT BACK THERMAL ELECTRIC DEVICE

B218

Connector No.

-Г WHITE

Connector Color

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#### Fail-safe

AAJIA0017GB

INFOID:000000004289497

- 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.

# CLIMATE CONTROLLED SEAT CONTROL UNIT

#### < ECU DIAGNOSIS >

# [WITH CLIMATE CONTROLLED SEATS]

Malfunction	Malfunctioning condition	А
The temperature difference between the seatback ther- mal electric device and seat cushion thermal electric de- vice is 30°C 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, 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 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 or less, the system recovers automatically</li> <li>If it detects that the temperature difference is 30°C or more after the automatic system recovery, it immediately stops all output and enters the system OFF condition</li> <li>MortE:</li> <li>When the switch operation is performed before entering the system OFF condition, the fail-safe mode is reset.</li> </ul>	B C D
The temperature of thermal electric device is 110°C 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 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 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 or less, the system recovers automatically</li> <li>If it detects that the temperature of the thermal electric device is 110°C or more after the automatic system recovery, it immediately stops all output and enters the system OFF condition</li> </ul>	F G H
The temperature of the thermal electric device is 45°C 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 and 70°C, 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 or more 4 times continuously or reaches 70°C 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>	SE
Thermal electric device sensor system open circuit	When it detects for 4 seconds that the thermal electric device sensor system is an open circuit	Κ
Climate controlled seat blower motor system open circuit	<ul> <li>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</li> <li>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:</li> <li>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.</li> </ul>	L M N
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>	0
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>	Ρ
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)	

\*: 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.

#### < SYMPTOM DIAGNOSIS >

# SYMPTOM DIAGNOSIS CLIMATE CONTROLLED SEAT SYSTEM

## Symptom Table

INFOID:000000004221415

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Symptom	Inspection item
Climate controlled seat inoperative.	Power supply and ground circuit Refer to <u>SE-6, "CLIMATE CONTROLLED SEAT CONTROL UNIT : Diagnosis</u> <u>Procedure"</u> .
Climate controlled seat blower motor inoperative.	Climate controlled seat blower motor Refer to <u>SE-10, "Diagnosis Procedure"</u> .
Seat cushion thermal electric device inoperative.	Seat cushion thermal electric device Refer to <u>SE-13, "Diagnosis Procedure"</u> .
Seatback thermal electric device inoperative.	Seatback thermal electric device Refer to <u>SE-16, "Diagnosis Procedure"</u> .
Climate controlled seat switch LO, MED or HI in- operative.	Climate controlled seat switch Refer to <u>SE-19, "Diagnosis Procedure"</u> .
Climate controlled seat switch indicator inopera- tive.	Climate controlled seat switch indicator Refer to <u>SE-22, "Diagnosis Procedure"</u> .

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# [WITH CLIMATE CONTROLLED SEATS]

#### < SYMPTOM DIAGNOSIS >

# SQUEAK AND RATTLE TROUBLE DIAGNOSES

#### Work Flow



#### CUSTOMER INTERVIEW

Interview the customer if possible, to determine the conditions that exist when the noise occurs. Use the Diagnostic Worksheet during the interview to document the facts and conditions when the noise occurs and any of the customer's comments; refer to <u>SE-56</u>, "Diagnostic Worksheet". This information is necessary to duplicate the conditions that exist when the noise occurs.

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

#### DUPLICATE THE NOISE AND TEST DRIVE

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

#### < 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 dupli- cate the noise with the vehicle stopped by doing one or all of the following: 1) Close a door	А
<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> <li>4) Here a frequencies to be coming from.</li> </ul>	В
<ul> <li>4) Use a floor jack to recreate vehicle "twist".</li> <li>5) At idle, apply engine load (electrical load, half-clutch on M/T model, drive position on A/T model).</li> <li>6) Raise the vehicle on a hoist and hit a tire with a rubber hammer.</li> </ul>	
<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>	С
LOCATE THE NOISE AND IDENTIFY THE ROOT CAUSE	D
1. Narrow down the noise to a general area. To help pinpoint the source of the noise, use a listening tool (Engine Ear or mechanics stethoscope).	
2. Narrow down the noise to a more specific area and identify the cause of the noise by:	E
<ul> <li>Removing the components in the area that is are suspected to be the cause of the noise. Do not use too much force when removing clips and fasteners, otherwise clips and fastener can be broken or lost during the repair, resulting in the creation of new noise.</li> <li>Tapping or pushing/pulling the component that is are suspected to be the cause of the noise.</li> </ul>	F
<ul><li>Do not tap or push/pull the component with excessive force, otherwise the noise will be eliminated only temporarily.</li><li>Feeling for a vibration by hand by touching the component(s) that is are suspected to be the cause of the</li></ul>	G
<ul> <li>Placing a piece of paper between components that is are suspected to be the cause of the noise.</li> <li>Looking for loose components and contact marks. Refer to <u>SE-54, "Inspection Procedure"</u>.</li> </ul>	Η
REPAIR THE CAUSE	1
<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>	1
<ul> <li>Separate components by repositioning or loosening and retightening the component, if possible.</li> <li>Insulate components with a suitable insulator such as urethane pads, foam blocks, felt cloth tape or ure-thane tape. These insulators are available through the authorized Nissan Parts Department.</li> </ul>	SE
Never use excessive force as many components are constructed of plastic and may be damaged.	K
NOTE: • URETHANE PADS	
Insulates connectors, harness, etc.	
<ul> <li>INSULATOR (Foam blocks) Insulates components from contact. Can be used to fill space behind a panel.</li> </ul>	L
INSULATOR (Light foam block)	
<ul> <li>FELT CLOTH TAPE</li> <li>Used to insulate where movement does not occur. Ideal for instrument panel applications.</li> <li>The following materials, not available through NISSAN Parts Department, can also be used to repair</li> </ul>	Μ
squeaks and rattles.	Ν
<ul> <li>Insulates where slight movement is present. Ideal for instrument panel applications.</li> <li>SILICONE GREASE</li> </ul>	
Used in place of UHMW tape that is be visible or does not fit. Note: Will only last a few months. • SILICONE SPRAY	0
Used when grease cannot be applied.	Р
DUCT TAPE     Used to eliminate movement.	Г

#### 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.

#### < SYMPTOM DIAGNOSIS >

#### Inspection Procedure

[WITH CLIMATE CONTROLLED SEATS]

INFOID:000000004040325

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

#### **INSTRUMENT PANEL**

Most incidents are caused by contact and movement between:

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

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

#### CAUTION:

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

#### CENTER CONSOLE

Components to pay attention to include:

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

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

#### DOORS

Pay attention to the following:

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

Tapping or moving the components or pressing on them while driving to duplicate the conditions can isolate many of these incidents. The areas can usually be insulated with felt cloth tape or insulator foam blocks to repair the noise.

#### TRUNK

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

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

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

#### SUNROOF/HEADLINING

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

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

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

< SYMPTOM DIAGNOSIS >

# [WITH CLIMATE CONTROLLED SEATS]

#### SEATS

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

Cause of seat noise include:

1.	Headrest rods and holder	
2.	A squeak between the seat pad cushion and frame	
3.	Rear seatback lock and bracket	С
The dition or a	ese noises can be isolated by moving or pressing on the suspected components while duplicating the con- ons under which the noise occurs. Most of these incidents can be repaired by repositioning the component applying urethane tape to the contact area.	D
UN	DERHOOD	
Soi trai Ca	me interior noise may be caused by components under the hood or on the engine wall. The noise is then nsmitted into the passenger compartment. uses of transmitted underhood noise include:	E
1.	Any component mounted to the engine wall	
2.	Components that pass through the engine wall	F
3.	Engine wall mounts and connectors	
4.	Loose radiator mounting pins	
5.	Hood bumpers out of adjustment	G
6.	Hood striker out of adjustment	
The	ese noises can be difficult to isolate since they cannot be reached from the interior of the vehicle. The best	Н

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

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#### SQUEAK AND RATTLE TROUBLE DIAGNOSES < SYMPTOM DIAGNOSIS > [WITH CLIMATE CONTROLLED SEATS]

# Diagnostic Worksheet

INFOID:000000004040326

#### 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.

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#### < SYMPTOM DIAGNOSIS >

# [WITH CLIMATE CONTROLLED SEATS]

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blieny describe the location where the	e noise occurs:
II. WHEN DOES IT OCCUR? (please	check the boxes that apply)
Anytime	After sitting out in the rain
$\Box$ 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:	-
☐ After driving miles or r	minutes
After driving miles or r      TO BE COMPLETED BY DEALERSHI	IP PERSONNEL
After driving miles or r  TO BE COMPLETED BY DEALERSHI Test Drive Notes:	IP PERSONNEL
After driving miles or r TO BE COMPLETED BY DEALERSHI Test Drive Notes:	minutes IP PERSONNEL
After driving miles or r TO BE COMPLETED BY DEALERSHI Test Drive Notes:	IP PERSONNEL
After driving miles or r TO BE COMPLETED BY DEALERSHI Test Drive Notes:	
After driving miles or r TO BE COMPLETED BY DEALERSHI Test Drive Notes:	IP PERSONNEL YES NO Initials of person performing
After driving miles or r TO BE COMPLETED BY DEALERSHI Test Drive Notes:	IP PERSONNEL YES NO Initials of person performing
After driving miles or r TO BE COMPLETED BY DEALERSHI Test Drive Notes:  Vehicle test driven with customer - Noise verified on test drive	IP PERSONNEL  YES NO Initials of person performing
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	IP PERSONNEL  YES NO Initials of person performing
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 cor	IP PERSONNEL  YES NO Initials of person performing  nfirm repair
Vehicle test driven with customer Noise verified on test drive Noise source located and repaired Follow up test drive performed to cor VIN:	IP PERSONNEL  YES NO Initials of person performing  onfirm repair  Customer Name

# PRECAUTION PRECAUTIONS

#### Supplemental Restraint System (SRS) AIR BAG and SEAT BELT PRE-TEN-SIONER

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 Necessary for Steering Wheel Rotation after Battery Disconnect

INFOID:000000004394047

#### NOTE:

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

This vehicle is equipped with a push-button ignition switch and a steering lock unit.

If the battery is disconnected or discharged, the steering wheel will lock and cannot be turned.

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

#### OPERATION PROCEDURE

1. Connect both battery cables.

NOTE:

Supply power using jumper cables if battery is discharged.

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

#### Service Notice

#### INFOID:000000004040329

- 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.

#### PRECAUTIONS

#### < PRECAUTION >

- Apply sealing compound where necessary when installing parts. When applying sealing compound, be careful that the sealing compound does not protrude from parts. А When replacing any metal parts (for example body outer panel, members, etc.), be sure to take rust prevention measures. Precaution for Work INFOID:000000004040330 When removing or disassembling each component, be careful not to damage or deform it. If a component may be subject to interference, be sure to protect it with a shop cloth. · When removing (disengaging) components with a screwdriver or similar tool, be sure to wrap the component with a shop cloth or vinyl tape to protect it. Protect the removed parts with a shop cloth and keep them. D Replace a deformed or damaged clip. If a part is specified as a non-reusable part, always replace it with new one. • Be sure to tighten bolts and nuts securely to the specified torque. After re-installation is completed, be sure to check that each part works normally. Е Follow the steps below to clean components. - Water soluble foul: Dip a soft cloth into lukewarm water, and wring the water out of the cloth to wipe the fouled area. F Then rub with a soft and dry cloth. - Oily foul: Dip a soft cloth into lukewarm water with mild detergent (concentration: within 2 to 3%), and wipe the fouled area. Then dip a cloth into fresh water, and wring the water out of the cloth to wipe the detergent off. Then rub with a soft and dry cloth. Never use organic solvent such as thinner, benzene, alcohol, and gasoline.
- For genuine leather seats, use a genuine leather seat cleaner.

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#### [WITH CLIMATE CONTROLLED SEATS]

# PREPARATION

# PREPARATION

# Commercial Service Tools

INFOID:000000004040331

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

#### FRONT SEAT [WITH CLIMATE CONTROLLED SEATS]

#### < ON-VEHICLE REPAIR > **ON-VEHICLE REPAIR** А FRONT SEAT Exploded View INFOID:000000004040332 В DRIVER'S POWER SEAT С SEC. 870 D 1 Ε F 10 (31) 3 G (4) **8** 33 đ (32) Н Î 30 (29) (27) SE 49 (5.0, 36) Κ (9) A Ę , sp ٦ L 50 (5.1, 37) (25) 10 (24) 50 (5.1, 37) (23) (22) 19 (11) Μ Ν 1 <u>(</u> (16) 50 (5.1, 37) (14) Ο 13 Ô

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#### < ON-VEHICLE REPAIR >

#### **FRONT SEAT** [WITH CLIMATE CONTROLLED SEATS]

- 1. Seatback board
- 4. Driver seat wiring harness
- 7. Seat cushion inner finisher
- 10. Thigh extension tethers
- 13. Front slide cover
- Seat cushion thermal electric device 16. (TED)
- 19. Rear slide cover
- 22. Seat control switch
- 25. Seat lumbar switch
- 28. Seat cushion outer finisher inside
- 31. Upper seat duct
- 34. Headrest

PASSENGER'S POWER SEAT

- Seat cushion inner finisher inside 5.
- 8. Seat belt buckle

2.

11. Thigh extension assembly

Seatback board clips

- 14. Climate controlled seat control unit
- 17. Lower seat duct
- 20. Climate controlled seat blower motor 21. Climate controlled seat blower motor filter
- 23. Seat slide and lifter switch knob
- 26. Seat cushion outer finisher
- 29. Seatback assembly
- 32. Headrest holder (locked)

- 3. Seat cushion rear finisher
- 6. Reclining device inner cover
- 9. Seat cushion trim and cushion
- 12. Seat cushion front finisher
- 15. Driver seat control unit
- 18. Seat frame
- 24. Reclining switch knob
- 27. Reclining device outer cover
- 30. Seatback thermal electric device (TED)
- 33. Headrest holder (free)

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Seatback board

Seat control switch

16. Reclining device inner cover

Front slide cover

Passenger seat wiring harness

Seat cushion outer finisher



- Seatback board clips
- 5. Seat cushion outer finisher inside
- 8. Reclining switch knob
- 11. Seat cushion assembly
- 14. Seat frame

2.

17. Seat cushion inner finisher inside

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- 6. Reclining device inner cover
- 9. Seat slide and lifter switch knob
- 12. Seat cushion front finisher
- 15. Seat cushion inner finisher
- 18. Seat belt buckle

Headrest

3.

# SE-64

#### < ON-VEHICLE REPAIR >

Seatback assembly
 Headrest holder (free)

## Removal and Installation

#### CAUTION:

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

20. Rear slide cover

#### REMOVAL

#### NOTE:

Confirm the position of connector before starting work.

- 1. Slide the seat to the front most position.
- 2. Remove the side fixing points (A).

- 5. Slide the seat to the rear most position.
- 6. Remove the front slide covers.
- 7. Remove the front mount bolts.

8. Disconnect battery negative and positive terminals.

#### CAUTION:

#### • Disconnect battery negative and positive terminals then wait for at least 3 minutes.

- 9. Disconnect harness connector under the seat and remove harness clamps.
- 10. Remove seat from the vehicle.

INSTALLATION Installation is in the reverse order of removal. CAUTION:











INFOID-000000004040333

21. Headrest holder (locked)

#### Clamp the harness in position. NOTE:

When installing the front seats tighten the drivers seat bolts as shown.



When installing the front seats tighten the passenger seat bolts as shown.





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# REAR SEAT

## Exploded View - Bucket Seat

INFOID:000000004040335

[WITH CLIMATE CONTROLLED SEATS]



- 1. Headrest
- 4. Seatback frame
- 2. Headrest holder (free)

**SE-66** 

5. Bumper

- 3. Headrest holder (locked)
- 6. Seatback pad

# - - ----

# **SE-67**

#### < ON-VEHICLE REPAIR >

- Seatback trim 7.
- 10. Seat cushion frame
- Removal and Installation

#### CAUTION:

Installation

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

8.

Seat cushion trim

11. Seatback assembly

#### Seat Cushion Removal

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



1. Remove the seat cushion.

Seatback Removal

- Remove the headrest assemblies. 2.
- 3. Remove the seatback frame bolts and nut.

Installation is in the reverse order of removal.

- 4. Disconnect the harness connectors.
- Lift the seatback to disengage seat hook wires from the hang-5. ers.

# **INSTALLATION**

Installation is in the reverse order of removal.





9. Seat cushion pad

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**REAR SEAT** [WITH CLIMATE CONTROLLED SEATS] < DISASSEMBLY AND ASSEMBLY >

[WITH CLIMATE CONTROLLED SEATS]

# DISASSEMBLY AND ASSEMBLY FRONT SEAT DRIVER SIDE

**DRIVER SIDE : Exploded View** 

INFOID:000000004264397

DRIVER'S POWER SEAT

#### **FRONT SEAT**

#### < DISASSEMBLY AND ASSEMBLY >

#### [WITH CLIMATE CONTROLLED SEATS]

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- 1. Seatback board
- 4. Driver seat wiring harness
- 7. Seat cushion inner finisher
- 10. Thigh extension tethers
- 13. Front slide cover

- 2. Seatback board clips
- 5. Seat cushion inner finisher inside
- 8. Seat belt buckle
- 11. Thigh extension assembly
- 14. Climate controlled seat control unit

- ALIIA0320GB
- 3. Seat cushion rear finisher
- 6. Reclining device inner cover
- 9. Seat cushion trim and cushion
- 12. Seat cushion front finisher
- 15. Driver seat control unit
- **SE-69**

## **FRONT SEAT**

#### < DISASSEMBLY AND ASSEMBLY >

16.	Seat cushion thermal electric device (TED)	17.	Lower seat duct	18.	Seat frame
19.	Rear slide cover	20.	Climate controlled seat blower motor filter	21.	Climate controlled seat blower motor
22.	Seat control switch	23.	Seat slide and lifter switch knob	24.	Reclining switch knob
25.	Seat lumbar switch	26.	Seat cushion outer finisher	27.	Reclining device outer cover
28.	Seat cushion outer finisher inside	29.	Seatback assembly	30.	Seatback thermal electric device (TED)
31.	Upper seat duct	32.	Headrest holder (locked)	33.	Headrest holder (free)

34. Headrest

#### DRIVER SIDE : Disassembly and Assembly

#### SEATBACK BOARD

#### Disassembly

- 1. Remove the seat from the vehicle. Refer to <u>SE-64, "Removal and Installation"</u>
- 2. Release the clips (D) from the seat cushion springs.
- 3. Pull the bottom of the backboard upward enough to release the inner clips (C).
- 4. Insert the proper tool to release the pawls (B).
- 5. Pull the backboard downward to disengage the hooks (A) and remove the backboard.



INFOID:000000004171215

#### Assembly

Assembly is in the reverse order of disassembly.

#### SEATBACK THERMAL ELECTRIC DEVICE AND UPPER SEAT DUCT

#### Disassembly

- 1. Remove the seat from the vehicle. Refer to <u>SE-64, "Removal and Installation"</u>
- Remove seatback board.
- 3. Remove seat cushion finisher.
- 4. Disconnect wiring harness (A) from the heater control unit (B).
- 5. Remove thermal electric device mounting bolts (C).
- 6. Disconnect the thermal electric device from upper seat duct (D) and remove from seat.
- 7. Disconnect upper seat duct (E) from lower seat duct and remove upper seat duct from seat.

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#### Assembly

Assembly is in the reverse order of disassembly.

SEAT CUSHION THERMAL ELECTRIC DEVICE AND LOWER SEAT DUCT.

#### **SE-70**

[WITH CLIMATE CONTROLLED SEATS]

#### FRONT SEAT

#### < DISASSEMBLY AND ASSEMBLY >

#### [WITH CLIMATE CONTROLLED SEATS]



#### < DISASSEMBLY AND ASSEMBLY >

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

# WITH CLIMATE CONTROLLED SEATS

(c)



**(B)** 

ALIIA0353ZZ

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 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

- 1. Replace the trim cover and clips and foam to the thigh extension assembly.
- 2. Rivet the thigh extension tethers to the seat frame assembly mounting hole (A).




#### FRONT SEAT

#### < DISASSEMBLY AND ASSEMBLY >

- 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

PASSENGER'S POWER SEAT

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- 1. Seatback board
- 4. Passenger seat wiring harness
- 7. Seat cushion outer finisher
- 10. Seat control switch
- 13. Front slide cover
- 16. Reclining device inner cover
- 2. Seatback board clips
- 5. Seat cushion outer finisher inside
- 8. Reclining switch knob
- 11. Seat cushion assembly
- 14. Seat frame
- 17. Seat cushion inner finisher inside

- ALIIA0321GB
- 3. Headrest
- 6. Reclining device inner cover
- 9. Seat slide and lifter switch knob
- 12. Seat cushion front finisher
- 15. Seat cushion inner finisher
- 18. Seat belt buckle



#### FRONT SEAT [WITH CLIMATE CONTROLLED SEATS]

20. Rear slide cover

< DISASSEMBLY AND ASSEMBLY >	>
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Seatback assembly
 Headrest holder (free)

#### **PASSENGER SIDE : Disassembly**

#### NOTE:

If the vehicle has been involved in a collision, the seat must be inspected for damage. Refer to <u>SR-20, "For</u> <u>Frontal Collision"</u>.

#### SEATBACK BOARD

Disassembly

- 1. Remove the seat from the vehicle. Refer to SE-64, "Removal and Installation"
- 2. Release the clips (D) from the seat cushion springs.
- 3. Pull the bottom of the backboard upward enough to release the inner clips (C).
- 4. Insert the proper tool to release the pawls (B).
- 5. Pull the backboard downward to disengage the hooks (A) and remove the backboard.



Assembly

Assembly is in the reverse order of disassembly.

21. Headrest holder (locked) A

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## REAR SEAT

Exploded View - Bucket Seat

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- 1. Headrest
- 4. Seatback frame
- 2. Headrest holder (free)
- 5. Bumper

- 3. Headrest holder (locked)
- 6. Seatback pad

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10. Seat cushion frame     11. Seatback assembly	А
ARMREST	
ARMREST : Disassembly and Assembly	В
Disassembly <ol> <li>Remove the seat cushion and rear seatback. Refer to <u>SE-67, "Removal and Installation"</u></li> <li>Remove armset holts (A) and remove the armset assembly.</li> </ol>	С
2. Remove anniest boits (A) and remove the anniest assembly.	D
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Accomply	G
Assembly is in the reverse order of disassembly.	Н
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**REAR SEAT** 

8. Seat cushion trim

< DISASSEMBLY AND ASSEMBLY >

7. Seatback trim

**SE-77** 

- [WITH CLIMATE CONTROLLED SEATS]
  - 9. Seat cushion pad

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< COMPONENT DIAGNOSIS >

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

## COMPONENT DIAGNOSIS

## POWER SEAT

Wiring Diagram - POWER SEAT FOR DRIVER SIDE -

INFOID:000000004263841



POWER SEAT FOR DRIVER SIDE - WITHOUT AUTOMATIC DRIVE POSITIONER



**POWER SEAT** 

### < COMPONENT DIAGNOSIS >

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

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### **POWER SEAT**

#### < COMPONENT DIAGNOSIS >

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

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#### < COMPONENT DIAGNOSIS >

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

Connector Name POWER SEAT SWITCH LH Connector Color WHITE 
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 6
 5
 B209 Connector No. 4 6 NM 4

Connector Name RECLINING MOTOR Connector Color BLACK B207 Connector No.

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Signal Name I Т Color of Wire GВ 0 Terminal No. N -H.S.

呵可 H.S.	Terminal No.	1	0

	Signal Name	I	I	-	-	I	-	-	I	I
	Color of Wire	σ	0	R/Y	В	GR	>	٢	ш	æ
76	inal No.	-	2	3	4	5	6	7	8	6

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Wiring Diagram - POWER SEAT FOR PASSENGER SIDE -

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POWER SEAT

#### < COMPONENT DIAGNOSIS >

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



POWER SEAT

#### < COMPONENT DIAGNOSIS >

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

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Connector No.	B308
Connector Name	WIRE TO WIRE
Connector Color	WHITE
H.S.	

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- 4	ζ Colo
H.S.	Terminal No.

B309	POWER SEAT SWITCH RH	WHITE	4         3         2         1           10         9         8         7         6         5
Connector No.	Connector Name	Connector Color	国 H.S.

Signal Name	I	I	Ι	I	I	I	Ι	-	I
Color of Wire	I	I	RV	В	Ν	>	۲	Ι	I
Terminal No.	-	2	e	4	5	9	7	8	6

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## POWER SEAT

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## HEATED SEAT





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Terminal No. 19J	Connector N. Connector N. Connector N. A.S. A.S. A.S. A.S. A.S. A.S. A.S. A.	
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## [W/O CLIMATE CONTROLLED SEATS]

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Connector Co	lor BROV	N
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Terminal No.	Color of Wire	Signal Name
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Color of Wire

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Connector Color WHITE

M301

Connector No.

Connector Name WIRE TO WIRE Connector Color WHITE

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M208

Connector No.

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2 3 =	Color of Wire	G/R	GR/B	GR/R	В	G/R	GR/L	GR	
H.S.	Terminal No.	+	n	5	9	7	6	15	

	305	IRE TO WIRE	НТЕ	
	Connector No. M3	Connector Name WI	Connector Color WI	

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5 4	14 13	
7 6	16 15	
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Signal Name	I	I	I	I	Ι	I	Ι
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Terminal No.	1	с	5	9	7	6	15

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#### < COMPONENT DIAGNOSIS >

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

**HEATED SEAT** 

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Terminal No. 18J 19J

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## HEATED SEAT

## < COMPONENT DIAGNOSIS >

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

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Connector Name	WIRE TO WIRE
Connector Color	WHITE
雨 H.S.	1         2         1           4         5         6         7         8

2 <b>a</b> 3 5 6 7 8	Signal Name
4	Color of Wire
H.S.	Terminal No.

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GR/G B GR/R

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Wiring Diagram - LUMBAR SUPPORT SYSTEM -



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## LUMBAR SUPPORT

#### < COMPONENT DIAGNOSIS >

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



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LUMBAR SUPPORT

#### < COMPONENT DIAGNOSIS >

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

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#### < SYMPTOM DIAGNOSIS >

## [W/O CLIMATE CONTROLLED SEATS]

## SYMPTOM DIAGNOSIS

## SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow



#### CUSTOMER INTERVIEW

Interview the customer if possible, to determine the conditions that exist when the noise occurs. Use the Diagnostic Worksheet during the interview to document the facts and conditions when the noise occurs and any customer's comments; refer to <u>SE-98</u>. "Diagnostic Worksheet". This information is necessary to duplicate the conditions that exist when the noise occurs.

- The customer may not be able to provide a detailed description or the location of the noise. Attempt to obtain all the facts and conditions that exist when the noise occurs (or does not occur).
- If there is more than one noise in the vehicle, be sure to diagnose and repair the noise that the customer is concerned about. This can be accomplished by 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 = lowerpitch 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 >

#### [W/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 applicate the same	А
If the noise can be duplicated easily during the test drive, to help identify the source of the noise, try to dupli- cate the noise with the vehicle stopped by doing one or all of the following:	В
<ol> <li>Tap or push/pull around the area where the noise appears to be coming from.</li> </ol>	
3) Rev the engine.	
4) Use a floor jack to recreate vehicle "twist".	С
5) At idle, apply engine load (electrical load, half-clutch on M/I models, drive position on A/I models).	
<ul> <li>Drive the vehicle and attempt to duplicate the conditions the customer states exist when the noise occurs.</li> </ul>	_
• If it is difficult to duplicate the noise, drive the vehicle slowly on an undulating or rough road to stress the	D
vehicle body.	
CHECK RELATED SERVICE BULLETINS	Е
After verifying the customer concern or symptom, check ASIST for Technical Service Bulletins (TSBs) related	_
to that concern or symptom.	
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LOCATE THE NOISE AND IDENTIFY THE ROOT CAUSE	
<ol> <li>Narrow down the noise to a general area. To help pinpoint the source of the noise, use a listening tool (Chassis Ear: J-39570, Engine Ear and mechanics stethoscope).</li> </ol>	G
2. Narrow down the noise to a more specific area and identify the cause of the noise by:	
<ul> <li>removing the components in the area that you suspect the noise is coming from.</li> </ul>	
Do not use too much force when removing clips and fasteners, otherwise clips and fastener can be broken or lost during the repair, resulting in the creation of new poise.	Н
<ul> <li>tapping or pushing/pulling the component that you suspect is causing the noise.</li> </ul>	
Do not tap or push/pull the component with excessive force, otherwise the noise will be eliminated only tem- porarily.	
• feeling for a vibration with your hand by touching the component(s) that you suspect is (are) causing the	
noise.	<b>С</b> Е
<ul> <li>Iooking for loose components and contact marks.</li> </ul>	ΟL
Refer to <u>SE-96, "Generic Squeak and Rattle Troubleshooting"</u> .	
REPAIR THE CAUSE	Κ
<ul> <li>If the cause is a loose component, tighten the component securely.</li> </ul>	
If the cause is insufficient clearance between components:	
- separate components by repositioning or loosening and retightening the component, if possible.	L
- Insulate components with a suitable insulator such as trethane pads, toam blocks, tell cloth lape of trethane tape. A Nissan Squeak and Rattle Kit (.I-43980) is available through your authorized Nissan Parts Depart-	
ment.	
CAUTION:	IVI
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	N
The following materials are contained in the Nissan Squeak and Rattle Kit (J-43980). Each item can be	IN
ordered separately as needed.	
URETHANE PADS [1.5 mm (0.059 in) thick]	0
$76268-9E005^{\circ}$ 100 × 135 mm (3.94 × 5.31 in)/76884-711.01° 60 × 85 mm (2.36 × 3.35 in)/76884-	
$71L02:15 \times 25$ mm (0.59 $\times$ 0.98 in)	
INSULATOR (Foam blocks)	Ρ
Insulates components from contact. Can be used to fill space behind a panel. 73982-9E000: 45 mm (1.77 in) thick 50 $\times$ 50 mm (1.97 $\times$ 1.97 in)/73982	
50Y00: 10 mm (0.39 in) thick, 50 $\times$ 50 mm (1.97 $\times$ 1.97 in)	
INSULATOR (Light foam block)	
80845-71L00: 30 mm (1.18 in) thick, $30 \times 50$ mm (1.18 $\times$ 1.97in)	
FELT CLOTHTAPE Used to insulate where movement does not occur. Ideal for instrument panel applications	

#### < SYMPTOM DIAGNOSIS >

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

68370-4B000:  $15 \times 25 \text{ mm} (0.59 \times 0.98 \text{ in}) \text{ pad}/68239-13E00: 5 \text{ mm} (0.20 \text{ in}) \text{ wide tape roll}$ The following materials, not found in the kit, can also be used to repair squeaks and rattles. UHMW (TEFLON) TAPE Insulates where slight movement is present. Ideal for instrument panel applications. SILICONE GREASE Used in place of UHMW tape that will be visible or not fit. Will only last a few months. SILICONE SPRAY Use when grease cannot be applied. DUCT TAPE Use to eliminate movement.

#### CONFIRM THE REPAIR

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

#### Generic Squeak and Rattle Troubleshooting

INFOID:000000003897570

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

#### **INSTRUMENT PANEL**

Most incidents are caused by contact and movement between:

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

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

CAUTION:

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

#### CENTER CONSOLE

Components to pay attention to include:

- 1. Shifter assembly cover to finisher
- 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
- 4. Door striker out of alignment causing a popping noise on starts and stops

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

#### TRUNK

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

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

[W/O CLIMATE CONTROLLED SEATS]

#### < SYMPTOM DIAGNOSIS >

#### A loose license plate or bracket 4 Most of these incidents can be repaired by adjusting, securing or insulating the item(s) or component(s) caus-А ing the noise. SUNROOF/HEADLINING В 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 Sunvisor shaft shaking in the holder 2. Front or rear windshield touching headlining and squeaking 3. 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. D 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. Е In addition, look for: 1. Loose harness or harness connectors. 2. Front console map/reading lamp lens loose. F 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: Н 1. 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. SE 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. Κ Causes of transmitted underhood noise include: 1. Any component mounted to the engine wall Components that pass through the engine wall L Engine wall mounts and connectors Loose radiator mounting pins Hood bumpers out of adjustment Μ 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 Ν or load can be changed to isolate the noise. Repairs can usually be made by moving, adjusting, securing, or insulating the component causing the noise.

#### SQUEAK AND RATTLE TROUBLE DIAGNOSES < SYMPTOM DIAGNOSIS > [W/O CLIMATE CONTROLLED SEATS]

## Diagnostic Worksheet

INFOID:000000003897571

#### 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.

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#### < SYMPTOM DIAGNOSIS >

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

Briefly describe the location where the noise occurs:					
II. WHEN DOES IT OCCUR? (please	check the bo	exes that app	oly)		
Anytime	🗆 Af	ter sitting ou	ut in the rai	in	
☐ 1st time in the morning	Πw	'hen it is rair	ing or wet	t	
Only when it is cold outside	🗆 Dr	∙y or dusty c	onditions		
Only when it is hot outside		ther:			
II. WHEN DRIVING:	IV. W		OF NOISE	E	
Through driveways	🗆 Sa	queak (like te	ennis shoe	es on a clean floor)	
Over rough roads		reak (like wa	lking on ar	n old wooden floor)	
Over speed bumps	🗌 Ra	attle (like sha	aking a bal	by rattle)	
_ Only about mph		lock (like a k	nock at th	ie door)	
On acceleration		ck (like a clo	ck second	i hand)	
Coming to a stop		ump (neavy	mumea kr	NOCK NOISE)	
With passengers or cargo					
☐ Other:					
After driving miles or n	ninutes				
TO BE COMPLETED BY DEALERSHI	P PERSONN	IEL			
Fast Drive Notes:					
Test Drive Notes:					
Fest Drive Notes:					
Test Drive Notes:					
Test Drive Notes:		YES	NO	Initials of person performing	
<b>Test Drive Notes:</b>		YES	NO	Initials of person performing	
<b>Test Drive Notes:</b> Vehicle test driven with customer - Noise verified on test drive		YES	NO	Initials of person performing	
Test Drive Notes: Vehicle test driven with customer - Noise verified on test drive - Noise source located and repaired		YES	NO	Initials of person performing	
<b>Test Drive Notes:</b> Vehicle test driven with customer - Noise verified on test drive - Noise source located and repaired - Follow up test drive performed to cor	ıfirm repair	YES	NO	Initials of person performing	
Vehicle test driven with customer - Noise verified on test drive - Noise source located and repaired - Follow up test drive performed to cor	ıfirm repair	YES	NO	Initials of person performing	

# < PRECAUTION > 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 Necessary for Steering Wheel Rotation after Battery Disconnect

INFOID:000000004394050

#### NOTE:

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

This vehicle is equipped with a push-button ignition switch and a steering lock unit.

If the battery is disconnected or discharged, the steering wheel will lock and cannot be turned.

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

#### OPERATION PROCEDURE

1. Connect both battery cables.

NOTE:

Supply power using jumper cables if battery is discharged.

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

#### Service Notice

#### INFOID:000000003897573

- 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.

#### PRECAUTIONS

#### < PRECAUTION >

- Apply sealing compound where necessary when installing parts. • When applying sealing compound, be careful that the sealing compound does not protrude from parts. А When replacing any metal parts (for example body outer panel, members, etc.), be sure to take rust prevention measures. Precaution for Work INFOID:000000003897574 When removing or disassembling each component, be careful not to damage or deform it. If a component may be subject to interference, be sure to protect it with a shop cloth. · When removing (disengaging) components with a screwdriver or similar tool, be sure to wrap the component with a shop cloth or vinyl tape to protect it. Protect the removed parts with a shop cloth and keep them. D Replace a deformed or damaged clip. If a part is specified as a non-reusable part, always replace it with new one. • Be sure to tighten bolts and nuts securely to the specified torque. After re-installation is completed, be sure to check that each part works normally. Е Follow the steps below to clean components. - Water soluble foul: Dip a soft cloth into lukewarm water, and wring the water out of the cloth to wipe the fouled area. F Then rub with a soft and dry cloth. - Oily foul: Dip a soft cloth into lukewarm water with mild detergent (concentration: within 2 to 3%), and wipe the fouled area. Then dip a cloth into fresh water, and wring the water out of the cloth to wipe the detergent off. Then rub with a soft and dry cloth. Do not use organic solvent such as thinner, benzene, alcohol, and gasoline.
- For genuine leather seats, use a genuine leather seat cleaner.

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## PREPARATION PREPARATION

## Special Service Tool

INFOID:000000003897575

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

Tool number (Kent-Moore No.) Tool name		Description
 (J-39570) Chassis ear	SIIA0993E	Locating the noise
 (J-43980) NISSAN Squeak and Rattle Kit	SIIA0994E	Repairing the cause of noise

#### **Commercial Service Tool**

INFOID:000000003897576

(Kent-Moore No.) Tool name	Description
(J-39565) Engine ear	Locating the noise

< ON-VEHICLE REPAIR >	[W/O CLIMATE CONTROLLED SEATS]
ON-VEHICLE REPAIR	
FRONT SEAT	A
Exploded View	INFOID:000000004184697 B
DRIVER'S POWER SEAT	
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	(5.1, 37)
	L
	√ <b>○</b> 50 (5.1, 37)
0	N N
14	C → S 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
	7 50 (5.1, 37)-1 (17) 17 18 18 P
(15)	16

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## **FRONT SEAT**

#### **FRONT SEAT**

#### < ON-VEHICLE REPAIR >

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

- 1. Headrest
- 4. Seatback board
- 7. Seat cushion
- 10. Seat cushion trim and pad (with thigh 11. extension)
- 13. Seat cushion trim and pad (w/o thigh 14. Driver seat wiring harness extension)
- 16. Front slide cover
- 19. Actuator bracket
- 22. Seat slide and lifter switch knob
- 25. Lumbar lever (manual)
- 28. Seat cushion outer finisher inside

#### PASSENGER'S POWER SEAT

- 2. Headrest holder (free)
- 5. Seatback board clips
- 8. Seat cushion inner finisher
  - Thigh extension tethers
- 17. Seat frame
- 20. Rear slide cover
- 23. Reclining switch knob
- 26. Seat cushion outer finisher
- 29. Seatback assembly

- 3. Headrest holder (locked)
- Seat cushion rear finisher 6.
- 9. Seat belt buckle
- 12. Thigh extension assembly (if equipped)
- 15. Seat cushion front finisher
- 18. Driver seat control unit
- 21. Seat control switch
- 24. Lumbar switch (power)
- 27. Reclining device outer cover

SEC. 870



- 1. Seatback board
- 4. Passenger seat wiring harness
- 7. Seat cushion outer finisher
- 10. Seat control switch
- 13. Front slide cover
- 16. Reclining device inner cover
- 2. Seatback board clips
- 5. Seat cushion outer finisher inside
- 8. Reclining switch knob
- 11. Seat cushion assembly
- 14. Seat frame
- 17. Seat cushion inner finisher inside

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Headrest

3.

- 6. Reclining device inner cover
- 9. Seat slide and lifter switch knob
- 12. Seat cushion front finisher
- 15. Seat cushion inner finisher
- 18. Seat belt buckle

#### < ON-VEHICLE REPAIR >

- 19. Seatback assembly 22. Headrest holder (free)
- Removal and Installation

#### CAUTION:

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

20. Rear slide cover

#### REMOVAL

#### NOTE:

Confirm the position of connector before starting work.

- 1. Slide the seat to the front most position.
- 2. Remove the side fixing points (A).

- 3. Move the cover backward and remove the rear slide covers.
- 4. Remove the rear mount bolts.

- 5. Slide the seat to the rear most position.
- 6. Remove the front slide covers.
- 7. Remove the front mount bolts.

#### **FRONT SEAT** [W/O CLIMATE CONTROLLED SEATS]

21. Headrest holder (locked)

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Disconnect battery negative and positive terminals. 8.

#### **CAUTION:**

#### Disconnect battery negative and positive terminals then wait for at least 3 minutes.

- 9. Disconnect harness connector under the seat and remove harness clamps.
- 10. Remove seat from the vehicle.

**INSTALLATION** Installation is in the reverse order of removal. CAUTION:





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#### Clamp the harness in position. NOTE:

When installing the front seats tighten the drivers seat bolts as shown.



When installing the front seats tighten the passenger seat bolts as shown.





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## **REAR SEAT**

#### Exploded View - Bucket Seat

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[W/O CLIMATE CONTROLLED SEATS]



- Headrest 1.
- 4. Seatback frame
- Headrest holder (free) 2.
- 5. Bumper

- Headrest holder (locked) 3.
- 6. Seatback pad
## **SE-109**

## < ON-VEHICLE REPAIR >

- 7. Seatback trim
- 10. Seat cushion frame
- Removal and Installation

#### CAUTION:

Installation

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

8.

**REAR SEAT** 

Seat cushion trim

11. Seatback assembly

#### Seat Cushion Removal

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



- Seatback Removal 1. Remove the seat cushion.
- Remove the headrest assemblies. 2.
- 3. Remove the seatback frame bolts and nut.

Installation is in the reverse order of removal.

- 4. Disconnect the harness connectors.
- Lift the seatback to disengage seat hook wires from the hang-5. ers.

# **INSTALLATION**

Installation is in the reverse order of removal.







## [W/O CLIMATE CONTROLLED SEATS]

#### 9. Seat cushion pad

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## Exploded View - Bench Seat

[W/O CLIMATE CONTROLLED SEATS]

INFOID:000000004184701



**REAR SEAT** 

- 1. Headrest
- 4. Seat lock covers
- 7. Halo upper frame assembly
- 10. Seatback latch striker
- 13. Armrest frame

- 2. Headrest holder (locked)
- 5. Seat lock assemblies
- 8. RH booster trim and pad
- 11. RH seatback pad and trim
- 14. Back inner armrest bracket

- 3. Headrest holder (free)
- 6. Seat belt hooks
- 9. RH seatback frame
- 12. Armrest outer bracket
- 15. Front inner armrest bracket

## **REAR SEAT**

#### < ON-VEHICLE REPAIR >

22. Seat cushion and trim

- 16. Bumper
- 19. Right inner armrest bracket

25. LH seatback pad and trim

28. LH booster trim and pad

Removal and Installation

20. Left inner armrest bracket

17. Armrest cupholder assembly

- 23. Seat cushion frame
- 26. Seatback latch striker
- A. Mounting screw

## [W/O CLIMATE CONTROLLED SEATS]

- 18. Armrest assembly
- 21. Seat cushion hook
- 24. Halo lower frame assembly
- 27. LH seatback frame

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

#### BENCH SEAT CUSHION

#### Removal

**CAUTION:** 

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



Installation Installation is in the reverse order of removal.

#### **BENCH SEATBACK**

#### Removal

- 1. Lock seatbacks in upright position.
- 2. Remove the lower frame halo anchor bolts and nut.
- 3. Fold seatbacks forward.

4. Remove latch covers (A).





Remove upper frame halo bolts (B).
 Remove the seatback assembly.

Installation is in the reverse order of removal.

< DISASSEMBLY AND ASSEMBLY >

[W/O CLIMATE CONTROLLED SEATS]

# DISASSEMBLY AND ASSEMBLY FRONT SEAT DRIVER SIDE DRIVER SIDE : Exploded View

INFOID:000000004184703



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Seat cushion trim and pad (with thigh

Headrest holder (free)

Seatback board clips

Driver seat wiring harness

Seat cushion

extension)

Seat frame

20. Rear slide cover

23. Reclining switch knob

29. Seatback assembly

26. Seat cushion outer finisher

## < DISASSEMBLY AND ASSEMBLY >

## [W/O CLIMATE CONTROLLED SEATS]

- 1. Headrest
- 4. Seatback board
- 7. Seat cushion rear finisher
- 10. Seat belt buckle
- 13. Seat cushion trim and pad (w/o thigh 14. extension)
- 16. Front slide cover
- 19. Actuator bracket
- 22. Seat slide and lifter switch knob
- 25. Lumbar lever (manual)
- 28. Seat cushion outer finisher inside

## DRIVER SIDE : Disassembly and Assembly

#### SEATBACK BOARD

#### Disassembly

1. Remove the seat from the vehicle. Refer to <u>SE-106, "Removal and Installation"</u>

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- 2. Release the clips (D) from the seat cushion springs.
- 3. Pull the bottom of the backboard upward enough to release the inner clips (C).
- 4. Insert the proper tool to release the pawls (B).
- Pull the backboard downward to disengage the hooks (A) and remove the backboard.



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#### Assembly

Assembly is in the reverse order of disassembly.

#### THIGH EXTENSION ASSEMBLY

#### Disassembly

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



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#### < DISASSEMBLY AND ASSEMBLY >

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).

# Insert suitable tool into the thigh extension 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

4.

- 1. Replace the trim cover and clips and foam to the thigh extension assembly.
- 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.



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## < DISASSEMBLY AND ASSEMBLY >

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

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



PASSENGER SIDE



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#### < DISASSEMBLY AND ASSEMBLY >

## PASSENGER SIDE : Exploded View

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- Seatback board 1.
- Passenger seat wiring harness 4.
- 7. Seat cushion outer finisher
- 10. Seat control switch
- Seatback board clips 2.
- 5. Seat cushion outer finisher inside
- 8. Reclining switch knob
- 11. Seat cushion assembly
- Headrest 3.
- Reclining device inner cover 6.
- 9. Seat slide and lifter switch knob
- 12. Seat cushion front finisher



[W/O CLIMATE CONTROLLED SEATS]

#### < DISASSEMBLY AND ASSEMBLY >

- 13. Front slide cover
- 16. Reclining device inner cover
- 19. Seatback assembly
- 22. Headrest holder (free)

### PASSENGER SIDE : Disassembly

#### NOTE:

If the vehicle has been involved in a collision, the seat must be inspected for damage. Refer to SR-20, "For Frontal Collision".

FRONT SEAT

17. Seat cushion inner finisher inside

#### SEATBACK BOARD

Disassembly

Remove the seat from the vehicle. Refer to <u>SE-106, "Removal and Installation"</u>

14. Seat frame

20. Rear slide cover

- 2. Release the clips (D) from the seat cushion springs.
- 3. Pull the bottom of the backboard upward enough to release the inner clips (C).
- 4. Insert the proper tool to release the pawls (B).
- 5. Pull the backboard downward to disengage the hooks (A) and remove the backboard.



Assembly

Assembly is in the reverse order of disassembly.

## [W/O CLIMATE CONTROLLED SEATS]

- 15. Seat cushion inner finisher 18. Seat belt buckle
- 21. Headrest holder (locked)

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< DISASSEMBLY AND ASSEMBLY > REAR SEAT

## [W/O CLIMATE CONTROLLED SEATS]

# Bucket Seat

Exploded View - Bucket Seat

INFOID:000000004269446

INFOID:000000004269444



#### **REAR SEAT** < DISASSEMBLY AND ASSEMBLY >

## [W/O CLIMATE CONTROLLED SEATS]

- 1. Headrest
- Seatback frame 4.
- 7. Seatback trim
- 10. Seat cushion frame
- Headrest holder (free)
- 5. Bumper
- 8. Seat cushion trim
- 11. Seatback assembly

ARMREST

## ARMREST : Disassembly and Assembly

#### Disassembly

- Remove the seat cushion and rear seatback. Refer to SE-67, "Removal and Installation" 1.
- 2. Remove armrest bolts (A) and remove the armrest assembly.



Assembly Assembly is in the reverse order of disassembly.

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- 2.
- 3.
  - Headrest holder (locked) 6. Seatback pad

  - 9. Seat cushion pad

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## **Bench Seat**

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[W/O CLIMATE CONTROLLED SEATS]

## Exploded View - Bench Seat

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- 1. Headrest
- 4. Seat lock covers
- 7. Halo upper frame assembly
- Headrest holder (locked) 2.
- 5. Seat lock assemblies
- 8. RH booster trim and pad
- 6. Seat belt hooks

3.

9. RH seatback frame

## **REAR SEAT**

#### < DISASSEMBLY AND ASSEMBLY >

- 10. Seatback latch striker
- 13. Armrest frame
- 16. Bumper
- 19. Right inner armrest bracket
- 22. Seat cushion and trim
- 25. LH seatback pad and trim
- 28. LH booster trim and pad

- 11. RH seatback pad and trim
- 14. Back inner armrest bracket
- 17. Armrest cupholder assembly
- 20. Left inner armrest bracket
- 23. Seat cushion frame
- 26. Seatback latch striker
- A. Mounting screw

- [W/O CLIMATE CONTROLLED SEATS]
  - Armrest outer bracket
    Front inner armrest bracket
    Armrest assembly
    Seat cushion hook
    Halo lower frame assembly
  - 27. LH seatback frame

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