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DIAGNOSIS AND REPAIR WORK FLOW	
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DIAGNOSIS AND REPAIR WORK FLOW	A
Work Flow	В
DETAILED FLOW	
1.OBTAIN INFORMATION ABOUT SYMPTOM	С
Interview the customer to obtain as much malfunction information (conditions and environment when the mal- function occurred) as possible when the customer brings the vehicle in.	D
>> GO TO 2.	
2. REPRODUCE THE MALFUNCTION INFORMATION	Е
Check the malfunction on the vehicle that the customer describes. Inspect the relation of the symptoms and the condition when the symptoms occur.	_
>> GO TO 3.	F
3. 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 "DTC/CIRCUIT DIAGNOSIS"	
Perform the diagnosis with "DTC/CIRCUIT DIAGNOSIS" of the applicable system.	
>> GO TO 5.	
5. REPAIR OR REPLACE THE MALFUNCTIONING PARTS	SE
Repair or replace the specified malfunctioning parts.	
Repair of replace the opeonies manufactoring parts.	Κ
>> GO TO 6.	
6.FINAL CHECK	L
Check that malfunctions are not reproduced when obtaining the malfunction information from the customer, referring to the symptom inspection result in step 2.	
Are the malfunctions corrected?	M
YES >> INSPECTION END NO >> GO TO 3.	
	Ν
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	-

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< SYSTEM DESCRIPTION >

SYSTEM DESCRIPTION POWER SEAT

System Description

INFOID:000000010584470

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

SLIDING OPERATION

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

RECLINING OPERATION

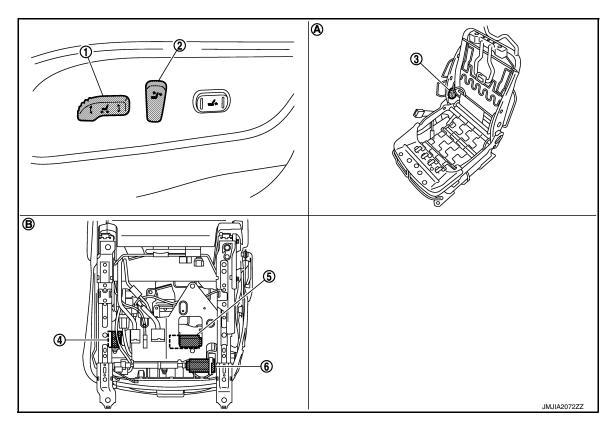
While operating the reclining switch located in power seat switch, reclining motor operates and makes the seat back forward and backward position adjustment possible.

LIFTING OPERATION

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

Component Parts Location

INFOID:000000010584471



- 1. Sliding switch and lifting switch (driv- 2. er side) B414
- 4. Lifting motor (rear) (driver side) B418 5.
- Lifting motor (front) (driver side)

Reclining switch (driver side) B414

- Reclining motor (driver side) B415
- 6. Sliding motor (driver side) B416

3.

- A. View with seat cushion pad and seat B. back pad removed.
- Backside of seat cushion

B417

POWER SEAT

< SYSTEM DESCRIPTION >

Component Description

INFOID:000000010584472

А

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

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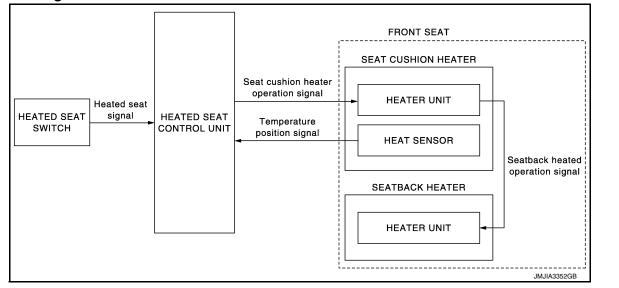
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< SYSTEM DESCRIPTION > HEATED SEAT

System Diagram



System Description

INFOID:000000010584474

INFOID:000000010584473

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

OPERATION DESCRIPTION

- When operating heated seat switch to any position between 1 and 6 while ignition switch is ON, indicator illuminates, heated seat control unit supplies power supply to heater unit, and warms seat cushion and seatback.
- Heat sensor that is built in seat cushion heater detects seat cushion heater temperature and outputs to heated seat control unit.
- Heated seat control unit monitors the heated seat switch position and heater sensor temperature, and interrupts power supply to heater unit when the heat sensor temperature reaches preset temperature.
- Heated seat control unit adjusts temperature to preset temperature by supplying or interrupting power supply to heater unit.

HEATED SEAT

< SYSTEM DESCRIPTION >

Component Parts Location

INFOID:000000010584475

А

Õ Ì В 2 С 3 D Ø Е B **(A)** F 5 [] \cap 0 C Н JMJIA6941ZZ Heated seat switch 2. Seatback heater 3. Seat cushion heater

1. 4. Heated seat relay

Heated seat switch

Α.

- 5. Heated seat control unit
- Β. Backside of seat cushion

Component Description

Item

Behind cluster lid C

INFOID:000000010584476

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Seat cushion heater	 Warms seat cushion Contains heater sensor that outputs seat cushion heater temperature to heated seat control unit 	M
Seatback heater	Warms seatback	
Heated seat relay	Supplies power to the heated seat being controlled by ignition power supply	N
Heated seat control unit	Controls heated seat temperature and is independently placed in each seat cushion (driver seat and passenger seat)	IN

· Adjusts heated seat temperature and deactivates heated seat

· Equips indicator that indicates the operating condition

Function

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SIDE SUPPORT

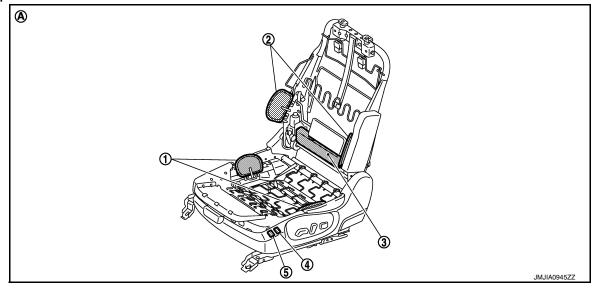
< SYSTEM DESCRIPTION >

SIDE SUPPORT

System Description

- While operating the side support switch, the pump located inside side support unit operates and adjusts the air pressure in seat cushion and seatback side support.
- It is possible to soften the side support by allowing some air to escape or by deflating the solenoid located inside side support.
- It is possible to adjust seat cushion and seatback differently while inflating or deflating solenoid located in side support unit.

Component Parts Location



- Side support (seat cushion) 1. (Side support unit B467)
- Side support (seat back) 2. 3. Side support unit B467 (Side support unit B467)

Side support switch (cushion side)

B464

- 4. Side support switch (seat back side) 5. B464
- View with seat cushion pad and seat Α. back pad removed.

Component Description

INFOID:0000000010584479

Item	Function
Side support switch	With a built-in cushion side and seat back side, and controls the power supplied to pump and to each solenoid.
Side support unit	Built-in pump, pump relay, and solenoid, and operates when pressing ON/OFF on side support switch.

INFOID:000000010584477

LUMBAR SUPPORT

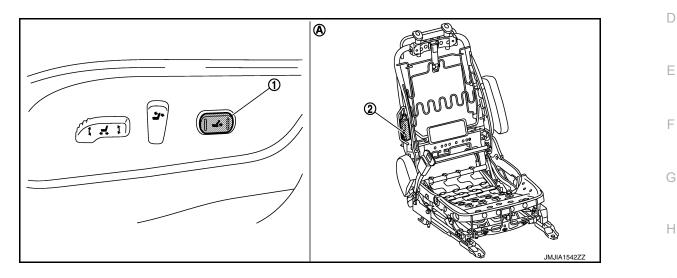
< SYSTEM DESCRIPTION >

LUMBAR SUPPORT

System Description

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

Component Parts Location



- 1. Lumbar support switch B457
- 2. Lumbar support motor B458
- A. View with seat back pad removed

Component Description

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

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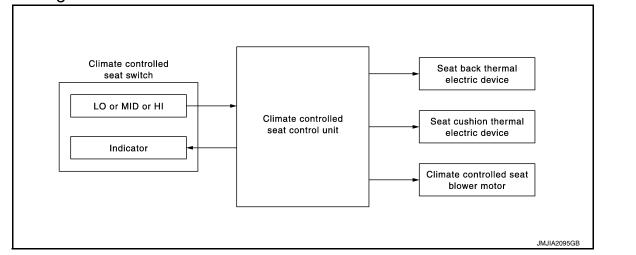
INFOID:000000010584481

CLIMATE CONTROLLED SEAT

< SYSTEM DESCRIPTION >

CLIMATE CONTROLLED SEAT

System Diagram



System Description

INFOID:000000010584484

INFOID:000000010584483

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

SEAT CUSHION AND SEAT BACK TEMPERATURE ADJUSTMENT FUNCTION

- One thermal electric device (TED) unit is installed in each 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 heat exchange process depending on voltage.

NOTE:

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

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 the work, always turn OFF the switch and check that the themal electric device is cold.

FAIL-SAFE

The fail-safe function is adopted for the climate controlled seat control unit.Refer to SE-89, "Fail-safe".

CLIMATE CONTROLLED SEAT

< SYSTEM DESCRIPTION >

Component Parts Location



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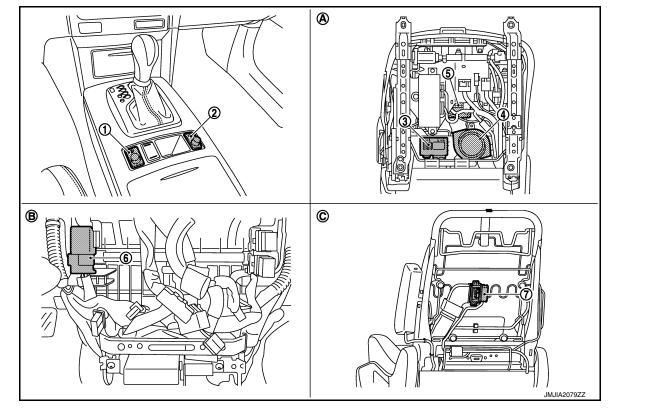
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1. Climate controlled seat switch (driver side) M177

Seatback thermal electric device

Climate controlled seat brower motor 5.

Climate controlled seat switch (passenger side) M178

(driver side) B505

2.

- 3. Climate controlled seat control unit (driver side) B507, B508, B509 Seat cushion thermal electric device 6.
 - Climate controlled seat relay M64

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Component Description

(driver side) B506

(driver side) B504

4.

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INFOID:000000010584486

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

Revision: 2015 February

SE-13

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT

HEATED SEAT CONTROL UNIT

HEATED SEAT CONTROL UNIT : Diagnosis Procedure

INFOID:000000010584487

1.CHECK FUSE

Check that the following fuse is not blown.

Signal name	Fuse No.
Battery power supply	61 (15 A)

Is the inspection result normal?

YES >> GO TO 2.

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

2. CHECK HEATED SEAT CONTROL UNIT POWER SUPPLY 1

1. Turn ignition switch OFF.

2. Disconnect heated seat control unit connector.

3. Turn ignition switch ON.

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

	(+)				
Heated seat control unit			(–)	Voltage (V) (Approx.)	
Connector Terminal					
Driver side	iver side B439		Ground	Battery voltage	
Passenger side	B462	60	Ground	Ballery Vollage	

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 3.

3.CHECK HEATED SEAT CONTROL UNIT POWER SUPPLY CIRCUIT 1

1. Turn ignition switch OFF.

2. Disconnect heated seat relay.

 Check continuity between heated seat control unit harness connector and heated seat relay terminal connector.

ŀ	Heated seat control ur	nit	Heated	Continuity	
Conr	Connector Te		Connector	Terminal	Continuity
Driver side	B439	60	M174	6	Existed
Passenger side	B462		11174	0	LAISIEU

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

	Heated seat control unit		Continuity	
Connector Tern		Terminal	Ground	Continuity
Driver side	B439	60	Giouna	Not existed
Passenger side	B462	00		NOT EXISTED

Is the inspection result normal?

YES >> Repair or replace harness between heated seat relay and fuse holder.

NO >> Repair or replace harness between heated seat control unit and heated seat relay.

4.CHECK HEATED SEAT CONTROL UNIT POWER SUPPLY 2

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

< DTC/CIRCUIT DIAGNOSIS >

н	(+)							
	eated seat control	unit	(-)	Co	ndition		Voltage (V) (Approx.)
Con	nector	Terminal						()
Driver side	B439					ON	E	Battery voltage
Diverside	D-33	- 66	Gro	Ground Heated seat switch		OFF		0
Passenger side	B462	00				ON	E	Battery voltage
	5402					OFF		0
Turn ignition Disconnect h	TO 7. TO 5. TED SEAT COM	tch connecto	or.			and heate	d seat :	switch harne
. Check contin connector.								
	Heated seat co	ntrol unit			Heated seat s	witch		
C	connector	Te	erminal	Conn	ector	Terminal		Continuity
Driver side	B439		66	M1		1		Existed
Passenger side	B462			M1	-			
Check contir	uity between h	eated seat c	ontrol unit	harness	connector ar	id ground.		
	Heated s	eat control unit						
					_		C	ontinuity
	Connector		Terr	minal	Gro	und -	C	ontinuity
Driver side	Connector	B439		minal	Gro	und		ontinuity
Passenger side	result normal?	B439 B462		-	Gro	und		
Passenger side the inspection YES >> GO NO >> Repa CHECK HEAT Check heated se Driver side: Re Passenger side s the inspection YES >> GO NO >> Repl CHECK HEAT . Turn ignition	result normal? TO 6. air or replace h TED SEAT SWI at switch. fer to <u>SE-41, "I</u> the switch. fer to <u>SE-41, "I</u> the switch. for to <u>SE-41, "I</u> the switch. for to <u>SE-41, "I</u> the switch. for to <u>SE-41, "I</u> the switch. for the set t	B462 TCH DRIVER SID 12, "PASSEN at switch. Re	E : Compo IGER SIDE fer to <u>SE-1</u> GROUNE	nent Insp <u>51, "Rem</u> O CIRCUI	ection". onent Inspection	<u>tion"</u> . tallation".		
Passenger side the inspection YES >> GO NO >> Repa CHECK HEAT Check heated se Driver side: Re Passenger side the inspection YES >> GO NO >> Repl CHECK HEAT . Turn ignition	result normal? TO 6. air or replace h TED SEAT SWI at switch. fer to <u>SE-41, "I</u> e: Refer to <u>SE-4</u> result normal? TO 8. ace heated sea TED SEAT CON switch OFF. huity between h	B462 TCH DRIVER SID 12, "PASSEN at switch. Re	E : Compo IGER SIDE fer to <u>SE-1</u> GROUNE	nent Insp <u>51, "Rem</u> O CIRCUI	ection". onent Inspection	<u>tion"</u> . tallation".	Nc	ot existed
Passenger side the inspection YES >> GO NO >> Repa CHECK HEAT Check heated se Driver side: Re Passenger side the inspection YES >> GO NO >> Repl CHECK HEAT . Turn ignition	result normal? TO 6. air or replace h TED SEAT SWI at switch. fer to <u>SE-41, "I</u> e: Refer to <u>SE-4</u> result normal? TO 8. ace heated sea TED SEAT CON switch OFF. huity between h	B462 arness. TCH DRIVER SID 42, "PASSEN at switch. Re NTROL UNIT eated seat c	E : Compo IGER SIDE fer to <u>SE-1</u> GROUNE	nent Insp <u>51, "Rem</u> O CIRCUI	ection". onent Inspector toval and Ins T connector ar	tion". tallation".	Nc	
Passenger side the inspection YES >> GO NO >> Repa CHECK HEAT Check heated se Driver side: Re Passenger side s the inspection YES >> GO NO >> Repl CHECK HEAT . Turn ignition	result normal? TO 6. air or replace h TED SEAT SWI at switch. fer to <u>SE-41, "I</u> e: Refer to <u>SE-41, "I</u> e: Refer to <u>SE-41, "I</u> e: Refer to <u>SE-41, "I</u> co 8. ace heated sea TED SEAT CON switch OFF. huity between h	B462 arness. TCH DRIVER SID 42, "PASSEN at switch. Re NTROL UNIT eated seat c	E : Compo NGER SIDE fer to <u>SE-1</u> GROUNE control unit	nent Insp : Compo 51, "Rem CIRCUI harness o	ection". onent Inspection	tion". tallation".	C	ot existed

< DTC/CIRCUIT DIAGNOSIS >

Check intermittent incident. Refer to <u>GI-47, "Intermittent Incident"</u>.

>> INSPECTION END HEATED SEAT SWITCH

HEATED SEAT SWITCH : Diagnosis Procedure

INFOID:000000010584488

1.CHECK FUSE

Check that the following fuse is not blown.

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

Is the inspection result normal?

YES >> GO TO 2.

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

2. CHECK HEATED SEAT SWITCH POWER SUPPLY

1. Turn ignition switch OFF.

2. Disconnect heated seat switch connector.

3. Turn ignition switch ON.

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

	(+)			
Heated seat switch			(-)	Voltage (V) (Approx.)
Connector Terminal			(/ ()))	
Driver side	M172	_ 5	Ground	Pottony voltago
Passenger side	M173	_ 5	Ground	Battery voltage

Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 3.

3. check heated seat switch power supply circuit

1. Turn ignition switch OFF.

2. Disconnect fuse block (J/B) connector.

3. Check continuity between heated seat switch harness connector and fuse block (J/B) harness connector.

	Heated seat switch Fuse block (J/B)					
Con	nector	Terminal	Connector Terminal		Continuity	
Driver side	M172	5	M1	2A	Existed	
Passenger side	M173	5	IVIII	28	Existed	

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

	Heated seat switch		Continuity		
Cor	inector	Terminal	Ground	Continuity	
Driver side	M172	5	Giouna	Not existed	
Passenger side	M173	- 5	NOT EXISTED		

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK FUSE BLOCK (J/B)

1. Turn ignition switch ON.

< DTC/CIRCUIT DIAGNOSIS >

	(+)		
Fuse b	lock (J/B)	()	Voltage (V) (Approx.)
Connector	Terminal		(********)
M1	2A	Ground	Battery voltage
he inspection result norm ES >> GO TO 5. O >> Repair or replac CHECK INTERMITTENT	ce fuse block (J/B).		
neck intermittent incident.			
efer to <u>GI-47, "Intermittent</u>	Incident".		
	END LED SEAT CONTROL LED SEAT CONTROL		
CHECK FUSE			
neck that the following fus	es are not fusing.		
Signa	al name	Fu	se No.
Battery po	ower supply	61 (15A)	
IGN pov	ver supply	3	(10A)
IO >> GO TO 2.	wn fuse after repairing the ROLLED SEAT CONTROL		
Turn ignition switch ON.	trolled seat control unit (driv	·	
Disconnect climate cont Turn ignition switch ON	trolled seat control unit (driv	·	ness connector and ground
Disconnect climate cont Turn ignition switch ON. Check voltage between	trolled seat control unit (driv	·	
Disconnect climate cont Turn ignition switch ON. Check voltage between	trolled seat control unit (driv climate controlled seat con	·	Voltage
Disconnect climate cont Turn ignition switch ON. Check voltage between	trolled seat control unit (driv climate controlled seat con	trol unit (driver side) harr	
Disconnect climate cont Turn ignition switch ON. Check voltage between Climate controlled sea	trolled seat control unit (driv climate controlled seat con (+) t control unit (driver side)	ntrol unit (driver side) harr (–)	Voltage (Approx.)
Disconnect climate cont Turn ignition switch ON. Check voltage between Climate controlled sea Connector	trolled seat control unit (driv climate controlled seat con (+) t control unit (driver side) Terminal	trol unit (driver side) harr	Voltage
Disconnect climate cont Turn ignition switch ON. Check voltage between Climate controlled sea Connector B508 B509 the measurement value n CES >> GO TO 3. IO >> GO TO 4. CHECK GROUND CIRC	trolled seat control unit (driver) climate controlled seat control (+) t control unit (driver side) Terminal 55 70 ormal?	trol unit (driver side) harr (–) Ground	Voltage (Approx.) Battery voltage
Disconnect climate cont Turn ignition switch ON. Check voltage between Climate controlled sea Connector B508 B509 the measurement value n YES >> GO TO 3. IO >> GO TO 4. CHECK GROUND CIRC neck continuity between cl	trolled seat control unit (driver side) (+) t control unit (driver side) Terminal 55 70 ormal? UIT limate control unit (driver side)	trol unit (driver side) harr (–) Ground	Voltage (Approx.) Battery voltage
Disconnect climate cont Turn ignition switch ON. Check voltage between Climate controlled sea Connector B508 B509 the measurement value n CES >> GO TO 3. IO >> GO TO 3. IO >> GO TO 4. CHECK GROUND CIRC neck continuity between cl Climate controlled sea	trolled seat control unit (driver climate controlled seat control (+) t control unit (driver side) Terminal 55 70 ormal? UIT limate control unit (driver side)	trol unit (driver side) harr (-) Ground	Voltage (Approx.) Battery voltage
Disconnect climate cont Turn ignition switch ON. Check voltage between Climate controlled sea Connector B508 B509 the measurement value n YES >> GO TO 3. IO >> GO TO 4. CHECK GROUND CIRC neck continuity between cl	trolled seat control unit (driver side) (+) t control unit (driver side) Terminal 55 70 ormal? UIT limate control unit (driver side)	trol unit (driver side) harr (–) Ground	Voltage (Approx.) Battery voltage

Does continuity exist?

< DTC/CIRCUIT DIAGNOSIS >

YES >> INSPECTION END

NO >> Repair or replace harness or connector.

 ${f 4}$. CHECK CLIMATE CONTROLLED SEAT CONTROL UNIT POWER SUPPLY CIRCUIT 1

- 1. Turn ignition switch OFF.
- 2. Disconnect climate controlled seat relay.

 Check continuity between climate controlled seat control unit (driver side) harness connector and climate controlled seat relay harness connector.

Climate controlled seat control unit (driver side) Climate controlled seat relay				Continuity
Connector	Terminal	Connector	Terminal	Continuity
B508	55	MGA	6	Existed
B509	70	M64	0	Existed

4. Check continuity between climate controlled seat control unit (driver side) harness connector and ground.

Climate controlled seat	control unit (driver side)		Continuity	
Connector	Terminal	Ground	Continuity	
B508	55	Ground	Not existed	
B509	70		NUL EXISIEU	

Is the measurement value normal?

YES >> GO TO 5.

NO >> Repair or replace harness or connector.

5.CHECK CILMATE CONTROLLED SEAT RELAY POWER SUPPLY CIRCUIT 2

- 1. Turn ignition switch ON.
- 2. Check voltage between climate controlled seat relay harness connector and ground.

	Terminals					
	(+)	(-)	Voltage (Approx.)			
Climate conti	olled seat relay		(Approx.)			
Connector	Terminal	Ground				
	2	Ground	Detten veltere			
M64	7		Battery voltage			

Is the measurement value normal?

YES >> GO TO 6.

NO >> Repair or replace harness or connector.

6.CHECK CLIMATE CONTROLLED SEAT RELAY

Check climate controlled seat relay.

Refer to SE-20, "CLIMATE CONTROLLED SEAT CONTROL UNIT : Component Inspection"

Is the inspection result normal?

YES >> GO TO 7.

NO >> Replace climate controlled seat relay.

7.CHECK CLIMATE CONTROLLED SEAT RELAY GROUND CIRCUIT

Check continuity between climate controlled seat relay harness connector and ground.

	Climate contro	olled seat relay		Continuity	
	Connector Terminal		Ground	Continuity	
	M64	1		Existed	
_					

Does continuity exist?

YES >> GO TO 8.

NO >> Repair or replace harness.

< DTC/CIRCUIT DIAGNC	POWER SUP ISIS >		GRU		I
8. CHECK INTERMITTEN					
Refer to <u>GI-47, "Intermitter</u>					
>> INSPECTION	END				
Passenger side 1.CHECK FUSE					
Check that the following fu	ses are not fusing				
Sig	nal name			Fuse	No.
	power supply			62 (1	
IGN p Is the fuse fusing?	ower supply			3 (10	DA)
YES >> Replace the b NO >> GO TO 2. 2.CHECK CLIMATE CON 1. Turn ignition switch OI 2. Disconnect climate co 3. Turn ignition switch OI 4. Check voltage betwee ground.	TROLLED SEAT F. ntrolled seat contr N.	CONTROL UI	NIT PO	WER SUPPLY	de) harness connector and
	(+)				
Climate controlled seat		er side)		(-)	Voltage
Connector	Termina	-			(Approx.)
B518	55			Ground	Battery voltage
B519	70			Cround	Ballery vollage
Is the measurement value YES >> GO TO 3. NO >> GO TO 4. 3.CHECK GROUND CIRC Check continuity between	CUIT	r and ground.			
Climate controlled seat	control unit (passenge	er side)			Continuity
Connector	Termina	al		Ground	
mate controlled seat re	s or connector. TROLLED SEAT F. ntrolled seat relay een climate contro elay harness conn	blled seat cont lector.	rol unit		Existed
Connector	Terminal	Connecto		Terminal	Continuity
B518	55	Connect	J1		
B519	70	M64		3	Existed

< DTC/CIRCUIT DIAGNOSIS >

4. Check continuity between climate controlled seat control unit (driver side) harness connector and ground.

Climate controlled seat	control unit (driver side)		Continuity
Connector	Terminal	Ground	Continuity
B518	55	Ground	Not existed
B519	70		NOL EXISTED

Is the measurement value normal?

YES >> GO TO 5.

NO >> Repair or replace harness or connector.

5.CHECK CILMATE CONTROLLED SEAT RELAY POWER SUPPLY CIRCUIT 2

1. Turn ignition switch ON.

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

	Terminals			
((+)	(-)	Voltage	
Climate contr	olled seat relay		Voltage (Approx.)	
Connector	Terminal	Ground		
M64	2	Ground	Pottony voltage	
W04	5		Battery voltage	

Is the measurement value normal?

YES >> GO TO 6.

NO >> Repair or replace harness or connector.

6.CHECK CLIMATE CONTROLLED SEAT RELAY

Check climate controlled seat relay.

Refer to SE-20, "CLIMATE CONTROLLED SEAT CONTROL UNIT : Component Inspection"

Is the inspection result normal?

YES >> GO TO 7.

NO >> Replace climate controlled seat relay.

7. CHECK CLIMATE CONTROLLED SEAT RELAY GROUND CIRCUIT

Check continuity between climate controlled seat relay harness connector and ground.

Climate contro	blled seat relay		Continuity	
Connector	Terminal	Ground	Continuity	
M64	1		Existed	

Does continuity exist?

YES >> GO TO 8.

NO >> Repair or replace harness.

8.CHECK INTERMITTENT INCIDENT

Refer to GI-47, "Intermittent Incident".

>> INSPECTION END

CLIMATE CONTROLLED SEAT CONTROL UNIT : Component Inspection INFOLD:00000010584490

1.CHECK CLIMATE CONTROLLED SEAT RELAY

1. Turn ignition switch OFF.

2. Disconnect climate controlled seat relay.

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< DTC/CIRCUIT DIAGNOSIS >

3. Check climate controlled seat relay.

Climate con- trolled seat relay Terminal		Condition	Continuity		
3	5	12 V direct current supply between ter- minals 1 and 2.	Existed		
		No current supply	Not existed		
6	7	12 V direct current supply between ter- minals 1 and 2.	Existed	JMJIA2104ZZ	
		No current supply	Not existed		-

Is the inspection result normal?

YES >> INSPECTION END.

NO >> Replace climate controlled seat relay.

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CLIMATE CONTROLLED SEAT SWITCH

< DTC/CIRCUIT DIAGNOSIS >

CLIMATE CONTROLLED SEAT SWITCH

Description

Installed in the center console and transmits signals to climate controlled seat control unit in accordance with the HEAT or COOL switch operation and the temperature switch operation.

Component Function Check

1.CHECK FUNCTION

Check that climate controlled seat activates when operating climate controlled seat control switch. <u>Is the inspection result normal?</u>

YES >> Climate controlled seat switch is OK.

NO >> Refer to <u>SE-22, "Diagnosis Procedure"</u>.

Diagnosis Procedure

INFOID:000000010584493

1. CHECK CLIMATE CONTROLLED SEAT CONTROL UNIT INPUT SIGNAL

1. Turn ignition switch ON.

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

(+) Climate controlled seat control unit		(–) Condition			Voltage (V) (Approx.)	
Connector		Terminal				
					LO COOL	0.8 - 1.5
Driver side		6		Climate controlled seat switch	MID COOL	1.6 - 2.5
		0		Climate controlled seat switch	HI COOL	2.6 - 4.2
	B508				OFF	0
	6000			Climate controlled seat switch	LO HEAT	0.8 - 1.5
		16			MID HEAT	1.6 - 2.5
		10	6 Ground -		HI HEAT	2.6 - 4.2
					OFF	0
				Climate controlled seat switch	LO COOL	0.8 - 1.5
					MID COOL	1.6 - 2.5
					HI COOL	2.6 - 4.2
Descensor side	B518				OFF	0
Passenger side	010				LO HEAT	0.8 - 1.5
		16		Climate controlled seat switch	MID HEAT	1.6 - 2.5
		10		Cimale Controlled Seat SWICH	HI HEAT	2.6 - 4.2
					OFF	0

Is the inspection result normal?

YES >> Climate controlled seat switch circuit is OK.

NO-1 >> HEAT or COOL mode is NG:GO TO 2.

NO-2 >> HEAT and COOL modes are NG: GO TO 3.

2. CHECK CLIMATE CONTROLLED SEAT SWITCH CIRCUIT

1. Turn ignition switch OFF.

2. Disconnect climate controlled seat switch connector and climate controlled seat control unit connector.

3. Check continuity between climate controlled seat switch harness connector and climate controlled seat control unit harness connector.

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CLIMATE CONTROLLED SEAT SWITCH

< DTC/CIRCUIT DIAGNOSIS >

	Climate control	led seat switch		Climate contro	lled seat control unit	Continuity
	Connector		Terminal	Connector	Terminal	Continuity
Driver side	COOL	M177	2	B508	6	
	HEAT	1 1 1 1	3		16	Existed
Passenger side	COOL	M178	2	B518	6	LAISICU
i asseriyei siue	HEAT	IVI I <i>I</i> O	3	0010	16	
Check continu	uity between	climate contro	lled seat swite	ch harness con	nector and grour	nd.
	Climate cont	olled seat switch				Continuity
	Connector		Terminal			Continuity
Driver side	COOL	M177	2	Grou	ind	
DINCI SILE	HEAT	101177	3	Giol		Not ovisted
	COOL		2			Not existed
Passenger side	HEAT	M178	3			
Turn ignition s	switch ON. e between cli			harness conne	ector and ground.	
		(.)				
		(+)			Vo	Itage (V)
	Climate contr	(+) olled seat switch		(-)		ltage (V) opprox.)
		olled seat switch	Terminal	(-)		
	Climate contr	M177	1	(–) Ground	A)	(pprox.)
Passenger side	Climate contr Connector	M177 M178			A)	
Driver side Passenger side he inspection r ES >> GO T O >> GO T CHECK CLIMA Turn ignition s Disconnect cl Check continu control unit ha	Climate contr Connector esult normal? O 5. O 4. ATE CONTRO switch OFF. imate control uity between	Olled seat switch	1 1 SWITCH POV	Ground	(A Batte	ery voltage
Passenger side <u>ne inspection r</u> ES >> GO T D >> GO T CHECK CLIMA Turn ignition s Disconnect cl Check contine control unit ha	Climate contr Connector esult normal? O 5. O 4. ATE CONTRO switch OFF. imate control uity between	Olled seat switch	1 1 SWITCH POV ol unit connec olled seat swi	Ground	CIRCUIT	hate controlled s
Passenger side he inspection r ES >> GO T O >> GO T CHECK CLIMA Turn ignition s Disconnect cl Check contine control unit ha	Climate contr Connector esult normal? O 5. O 4. ATE CONTRO switch OFF. imate control uity between arness conne	Olled seat switch	1 1 SWITCH POV ol unit connec olled seat swi	Ground	CIRCUIT	ery voltage
Passenger side he inspection r ES >> GO T O >> GO T CHECK CLIMA Turn ignition s Disconnect cl Check contine control unit ha	Climate contro Connector Connector Co 5. Co 4. ATE CONTRO Switch OFF. imate control uity between arness conne	Olled seat switch	1 1 SWITCH POV ol unit connec olled seat swi	Ground	(A Batte CIRCUIT	hate controlled s
Passenger side the inspection r S >> GO T D >> GO T CHECK CLIMA Turn ignition s Disconnect cl Check continu control unit ha Cl Cl CD	Climate contro Connector esult normal? O 5. O 4. ATE CONTRO switch OFF. imate control uity between arness conne imate controlled	M177 M177 M178 DLLED SEAT S led seat contro climate contro ctor. seat switch Tei 77	1 1 SWITCH POV Unit connec Solled seat swi	Ground Ground VER SUPPLY tor. tch harness co	(A Batte CIRCUIT onnector and clin seat control unit Terminal	hate controlled s
Passenger side le inspection r S >> GO T S >> GO T CHECK CLIMA Turn ignition s Disconnect cl Check contine control unit ha Cl Criver side Passenger side	Climate control Connector	M177 M177 M178 DLLED SEAT \$ Ied seat contro climate contro climate contro seat switch Tei 77 78	1 1 SWITCH POV ol unit connect olled seat switch connect 1 1 1 1	Ground Ground VER SUPPLY tor. tch harness co Climate controlled Connector B508 B518	CIRCUIT	nate controlled s Continuity Existed
Passenger side ne inspection r S >> GO T D >> GO T CHECK CLIMA Turn ignition s Disconnect cl Check continu control unit ha Cl Cr Cr Driver side Passenger side Check continu	Climate control Connector	M177 M177 M178 OLLED SEAT S Ied seat contro climate contro seat switch Tei 77 78 climate contro climate contro	1 1 SWITCH POV ol unit connect olled seat switch connect 1 1 1 1	Ground Ground VER SUPPLY tor. tch harness co Climate controlled Connector B508 B518	CIRCUIT CIRCUIT CONNECTOR AND CLIN Seat control unit Terminal 21 21 21 21 nector and grour	nate controlled s Continuity Existed
Passenger side he inspection r ES >> GO T D >> GO T CHECK CLIMA Turn ignition s Disconnect cl Check contine control unit ha Cl Cr Driver side Passenger side Check contine	Climate contro Connector	M177 M177 M178 OLLED SEAT \$ Ied seat contro climate contro seat switch Tel 77 78 climate contro ed seat switch	1 1 SWITCH POV ol unit connect olled seat switch connect 1 1 1 1	Ground Ground VER SUPPLY tor. tch harness co	CIRCUIT CIRCUIT CONNECTOR AND CLIN Seat control unit Terminal 21 21 21 21 nector and grour	nate controlled s Continuity Existed
Passenger side he inspection r ES >> GO T O >> GO T CHECK CLIMA Turn ignition s Disconnect cl Check contine control unit ha Cl Cr Driver side Passenger side Check contine	Climate control Connector	M177 M177 M178 OLLED SEAT \$ Ied seat contro climate contro seat switch Tel 77 78 climate contro ed seat switch	1 1 SWITCH POV of unit connec of unit connec of seat switce 1 1 1 lied seat switce	Ground Ground VER SUPPLY tor. tch harness co Climate controlled Connector B508 B518	CIRCUIT CIRCUIT CONNECTOR AND CLIN Seat control unit Terminal 21 21 21 21 21 0 0 0 0 0 0 0 0 0 0 0 0	nate controlled s Continuity Existed

Is the inspection result normal?

CLIMATE CONTROLLED SEAT SWITCH

< DTC/CIRCUIT DIAGNOSIS >

- YES >> Replace climate controlled seat control unit. Refer to <u>SE-126, "Disassembly and Assembly"</u>.
- NO >> Repair or replace harness.

5.CHECK CLIMATE CONTROLLED SEAT SWITCH

Check climate controlled seat switch.

Refer to SE-24, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace Climate controlled seat switch. Refer to <u>SE-148. "Removal and Installation"</u>.

6.CHECK INTERMITTENT INCIDENT

Refer to GI-47, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:000000010584494

1. CHECK CLIMATE CONTROLLED SEAT SWITCH

1. Turn ignition OFF.

2. Disconnect climate controlled seat switch connector.

3. Check climate controlled seat switch terminals.

Climate controlle	ed seat switch	Terr	ninal	Condition			Continuity	
	2			COOL mode	Pressed	Existed		
Driver side	M177	Z	2 1 3	Climate controlled seat		Released	Not existed	
Driver side		c		switch	switch	HEAT mode	Pressed	Existed
		3			HEAT MODE	Released	Not existed	
		2		Climate controlled seat switch	COOL mode	Pressed	Existed	
Dessenaer side	M470	2	4			Released	Not existed	
Passenger side	Passenger side M178	1				Pressed	Existed	
		3			HEAT mode	Released	Not existed	

Is the inspection result normal?

- YES >> Climate controlled seat switch is OK.
- NO >> Replace climate controlled seat switch. Refer to <u>SE-148, "Removal and Installation"</u>.

SEATBACK THERMAL ELECTRIC DEVICE

< DTC/CIRCUIT DIAGNOSIS >

SEATBACK THERMAL ELECTRIC DEVICE

Description

Installed in the seatback backside and heats or cools the airflow from the climate controlled seat blower motor В in accordance with the control from the climate controlled seat control unit.

Component Function Check

1.CHECK FUNCTION

Checks whether or not the temperature of the seatback thermal electric device changes in accordance with the HEAT or COOL switch operation of the climate controlled seat control switch.

Is the inspection result normal?

- YES >> Seatback thermal electric device function is OK.
- >> Refer to SE-25, "Diagnosis Procedure". NO

Diagnosis Procedure

1. CHECK SEATBACK THERMAL ELECTRIC DEVICE SIGNAL

1. Turn ignition switch ON.

2. Check voltage between seatback thermal electric device harness connector and ground.

	(+)									
Seatback thermal electric device		(—)	(–) Condition		Voltage (V) (Approx.)	Н				
Conne	ctor	Terminal				(, , , , , , , , , , , , , , , , , , ,				
		25			HEAT and COOL	0 - battery voltage*				
Driver side	B504	35					Climate con- trolled seat	Other than above	0	
Driver side	B304	36		switch	HEAT and COOL	0 - battery voltage*				
		30	Ground		Other than above	0	SE			
		35	Giouna		HEAT and COOL	0 - battery voltage*				
December olde	DE44	35			Climate con- trolled seat	Other than above	0			
Passenger side	B514	26				switch	HEAT and COOL	0 - battery voltage*	K	
		36			Other than above	0				

*: It changes between battery voltage or 0V

NOTE:

Wait 1 minute or more after the activation start, and then start the measurement.

Is the inspection result normal?

YES >> Replace seatback thermal electric device.

NO >> GO TO 2.

2. CHECK SEATBACK THERMAL ELECTRIC DEVICE CIRCUIT

1. Turn ignition switch OFF.

- Disconnect climate controlled seat control unit connector and seatback thermal electric device connector. 2.
- Check continuity between climate controlled seat control unit harness connector and seatback thermal 3. electric device harness connector.

Climate controlled seat control unit			Seatback therm	Continuity	D	
Co	nnector	ector Terminal		Connector Terminal		P
Driver eide D500	35	B504	35			
Driver side	Driver side B509			36	- Existed	
Dessenger side P510	35	B514	35	Existed		
rassenger side	Passenger side B519		D014	36		

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

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SEATBACK THERMAL ELECTRIC DEVICE

< DTC/CIRCUIT DIAGNOSIS >

Climate controlled seat control unit				Continuity
Connector Terminal		-	Continuity	
Driver side B509	35	Ground		
Driver side	B208	36	Ground	Not existed
Passenger side B519	35	-	NOT EXISTED	
Passenger side	D019	36		

Is the inspection result normal?

YES >> Replace climate controlled seat control unit. Refer to <u>SE-126, "Disassembly and Assembly"</u>.

NO >> Repair or replace harness.

SEATBACK THERMAL ELECTRIC DEVICE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

SEATBACK THERMAL ELECTRIC DEVICE SENSOR

Description

Measures seatback temperature.

Diagnosis Procedure

1. CHECK SEATBACK THERMAL ELECTRIC DEVICE SENSOR CIRCUIT

1. Turn ignition switch ON.

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

	(+)					
Climate controlled seat control unit			(-)	Condition	Voltage (V) (Approx.)	
Con	nector	Terminal	=		(, , , , , , , , , , , , , , , , , , ,	E
Driver side	B507	37	Ground	Climate controlled seat	1 - 5	
Passenger side	B517		Ground	operated	1-5	F

Is the inspection result normal?

YES >> Seatback thermal electric device sensor circuit is OK.

NO >> GO TO 2.

2.CHECK SEATBACK THERMAL ELECTRIC DEVICE SENSOR HARNESS

- 1. Turn ignition switch OFF.
- 2. Disconnect climate controlled seat control unit connector and seatback thermal electric device connector.
- 3. Check continuity between climate controlled seat control unit harness connector and seatback thermal electric device harness connector.

Clima	Climate controlled seat control unit Seatback thermal electric device					
Connector		Terminal	Connector	Terminal	- Continuity	
	D507	37	DE04	37		- SI
Driver side	B507	38	B504	38	Eviated	
December side D517		37	D514	37	Existed	ŀ
Passenger side	Passenger side B517		B514	38	_	

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

Cli	mate controlled seat contro	l unit			
Connector Terminal			-	Continuity	
	D507	37	Ground		M
Driver side	B507	38	Ground	Not eviated	
Dessenger side	B517	37		Not existed	Ν
Passenger side	6317	38			

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

$\mathbf{3}.$ CHECK SEATBACK THERMAL ELECTRIC DEVICE SENSOR

Check resistance between seatback thermal electric device connector.

Seatback thermal electric device		Transford		Resistance	
Co	nnector	Terminal		(KΩ) (Approx.)	
Driver side	B504	37	38	1	
Passenger side	B514	57	30	I	

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SEATBACK THERMAL ELECTRIC DEVICE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

- YES >> Replace climate controlled seat control unit. Refer to <u>SE-125, "Removal and Installation"</u>.
- NO >> Replace seatback thermal electric device.

SEAT CUSHION THERMAL ELECTRIC DEVICE

< DTC/CIRCUIT DIAGNOSIS >

SEAT CUSHION THERMAL ELECTRIC DEVICE

Description

Installed in the seat cushion backside and heats or cools the airflow from the climate controlled seat blower B motor in accordance with the control from the climate controlled seat control unit.

Component Function Check

1.CHECK FUNCTION

Checks whether or not the temperature of the seat cushion thermal electric device changes in accordance with the HEAT or COOL switch operation of the climate controlled seat control switch. Is the inspection result normal?

- YES >> Seat cushion thermal electric device function is OK.
- NO >> Refer to <u>SE-25, "Diagnosis Procedure"</u>.

Diagnosis Procedure

1. CHECK SEAT CUSHION THERMAL ELECTRIC DEVICE SIGNAL

1. Turn ignition switch ON.

2. Check voltage between seat cushion thermal electric device harness connector and ground.

	(+)						
Seat cushion thermal electric device		(-)	Condition		Voltage (V) (Approx.)		
Connec	ctor	Terminal				(, , , , , , , , , , , , , , , , , , ,	
		31			HEAT and COOL	0 - battery voltage*	
Driver side	B505	51	Climat trolled switch		Climate con-	Other than above	0
Driver side	B303	32			HEAT and COOL	0 - battery voltage*	
		52	Ground		Other than above	0	
		31	Ground		HEAT and COOL	0 - battery voltage*	
Passangar sida	Passenger side B515	31	51		Climate con- trolled seat	Other than above	0
rassenger side			switch	HEAT and COOL	0 - battery voltage*		
		32			Other than above	0	

*: It changes between battery voitage or 0V

NOTE:

Wait 1 minute or more after the activation start, and then start the measurement.

Is the inspection result normal?

YES >> Replace seat cushion thermal electric device.

NO >> GO TO 2.

2. CHECK SEAT CUSHION THERMAL ELECTRIC DEVICE CIRCUIT

1. Turn ignition switch OFF.

2. Disconnect climate controlled seat control unit connector and seat cushion thermal electric device connector.

3. Check continuity between climate controlled seat control unit harness connector and seat cushion thermal electric device harness connector.

Clin	Climate controlled seat control unit			Seat cushion thermal electric device		
Со	nnector	Terminal Connector		Terminal	al Continuity	
Driver side	Driver eide	31	B505	31		
Driver side	B509	32	6000	32	Existed	
Passangar sida	Passenger side B519	31	B515	31	Existed	
Passenger side	6319	32	6313	32		

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SEAT CUSHION THERMAL ELECTRIC DEVICE

< DTC/CIRCUIT DIAGNOSIS >

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

Cli	mate controlled seat co	ntrol unit		Continuity
Connector Terminal			-	Continuity
Driver side	B509	31	Ground	
Driver side	32		Ground	Not existed
Passenger side	Passenger side B519	31	-	NUL EXISIEU
rassenger side	6319	32		

Is the inspection result normal?

YES >> Replace climate controlled seat control unit. Refer to <u>SE-126, "Disassembly and Assembly"</u>.

NO >> Repair or replace harness.

SEAT CUSHION THERMAL ELECTRIC DEVICE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

SEAT CUSHION THERMAL ELECTRIC DEVICE SENSOR

Description

Measures seat cushion temperature.

Diagnosis Procedure

1. CHECK SEAT CUSHION THERMAL ELECTRIC DEVICE SENSOR CIRCUIT

1. Turn ignition switch ON.

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

	(+)					
Climate co	ntrolled seat cont	rol unit	(-)	Condition	Voltage (V) (Approx.)	
Conne	ector	Terminal			(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	E
Driver side	B507	34 G	Ground	Climate controlled cost encreted 1.5	1 - 5	
Passenger side	B517	- 34	Ground	Climate controlled seat operated	1-5	F

Is the inspection result normal?

YES >> Seat cushion thermal electric device sensor circuit is OK.

NO >> GO TO 2.

2.CHECK SEAT CUSHION THERMAL ELECTRIC DEVICE SENSOR HARNESS

1. Turn ignition switch OFF.

- 2. Disconnect climate controlled seat control unit connector and seat cushion thermal electric device connector.
- 3. Check continuity between climate controlled seat control unit harness connector and seat cushion thermal electric device harness connector.

it. /	Continuity	Climate controlled seat control unit Seat cushion thermal electric device					
S S	Continuity	Terminal	Connector	Terminal	onnector	Co	
		33	DEGE	DEAG	33	Disside D507	Driver side
4	Existed	34	B505	34	B507	Driver side	
1	Existed	33	B515	33	Deserve side D517		
		34	610	34	B517	Passenger side	

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

Climate controlled seat control unit				Continuitu	
Сс	onnector	Terminal		Continuity	M
Driver side	B507	33	Ground		
Driver side	6307	34	Ground	Not existed	NI
Dessenger side	B517	33		NOT EXISTED	Ν
Passenger side	0017	34			

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK SEAT CUSHION THERMAL ELECTRIC DEVICE SENSOR

Check resistance between seat cushion thermal electric device connector.

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SEAT CUSHION THERMAL ELECTRIC DEVICE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

Seat cushion thermal electric device		T		Resistance	
Con	nector	Terminal		(KΩ) (Approx.)	
Driver side	B505	33	34	1	
Passenger side	B515		54	I	

Is the inspection result normal?

YES >> Replace climate controlled seat control unit. Refer to <u>SE-125, "Removal and Installation"</u>.

NO >> Replace seat cushion thermal electric device.

CLIMATE CONTROLLED SEAT BLOWER MOTOR

< DTC/CIRCUIT DIAGNOSIS >

CLIMATE CONTROLLED SEAT BLOWER MOTOR

CLIMATE CO	JNIROL						
escription						INFOID:000000010584505	
Sends air flow to t	he seat cush	ion and sea	tback.				
Component F	unction C	heck				INFOID:000000010584506	
.CHECK FUNC	TION						
				e HEAT and COOL m	node position, che	ck that the climate	
ontrolled seat blo s the inspection re			specific mo	ode.			
•	te controlled		motor is C	DK.			
NO >> Refer	to <u>SE-33, "C</u>)iagnosis Pr	<u>ocedure"</u> .				
Diagnosis Pro	cedure					INFOID:000000010584507	
		OLLED SEA	T BLOWE	R MOTOR POWER S	SUPPLY		
. Turn ignition s							
		mate contro	lled seat b	lower motor harness	connector and gro	ound.	
	(+)						
Climate cont	rolled seat blow	ver motor	(–) Condition		Voltage (V)		
Conne	ctor	Terminal				(Approx.)	
				Climate controlled seat	HEAT mode	Battery voltage	
Driver side	B506				COOL mode		
		39	Ground	Other than above	0		
Passenger side	B516			Climate controlled seat	HEAT mode	Battery voltage	
r assenger side	6510			switch	Other than above	0	
s the inspection re YES >> GO Te NO >> GO Te	O 3.	<u>?</u>					
CHECK CLIMA		OLLED BLO	WER MOT	OR POWER SUPPL	Y CIRCUIT		
	mate control uity between	climate con		ector and climate co t blower motor harne			
Climat	te controlled se	at blower moto	r	Climate controlled	seat control unit	Continuity	
	nector	Te	erminal	Connector	Terminal		
Driver side	B506		39	B507	39	Existed	
Passenger side	B516 Jitv between	climate con	trolled sea	B517 t blower motor harne	ss connector and o	around.	
				1			
Climate controlled seat blower moto			01			Continuity	
	nnector		Terminal	Ground		onundity	
	nnector B506		Terminal 39	Ground		bt existed	

Is the inspection result normal?

YES >> Replace climate controlled seat control unit. Refer to SE-126, "Disassembly and Assembly". NO >> Repair or replace harness.

CLIMATE CONTROLLED SEAT BLOWER MOTOR

< DTC/CIRCUIT DIAGNOSIS >

$\mathbf{3}$.check climate controlled seat blower motor speed control signal

Check voltage between climate controlled seat blower motor harness connector and ground.

(+) Climate controlled seat blower motor		()	Condition	on	Voltage (V) (Approx.)	
Connec	tor	Terminal				()
				HEAT mode	8.5 - 9	
Driver side	B506			LO COOL	8	
		40	Ground	Climate controlled seat	MID COOL	9
D 11 D540					HI COOL	12
Passenger side	B516				Other than above	0

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

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

1. Turn ignition switch OFF.

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

3. Check continuity between climate controlled seat blower motor harness connector and climate controlled seat control unit harness connector.

Clim	ate controlled seat blo	wer motor	Climate controlle	Continuity	
Co	onnector	Terminal	Connector Terminal		
Driver side	B506	40	B507	40	Existed
Passenger side	B516	40	B517	40	Existed

4. Check continuity between climate controlled seat blower motor harness connector and ground.

Climate controlled seat blower motor			Continuity		
Co	nector Terminal		Ground	Continuity	
Driver side	B506	40	Ground	Not existed	
Passenger side	B516	40		NUL EXISIEU	

Is the inspection result normal?

- YES >> Replace climate controlled seat control unit. Refer to <u>SE-126, "Disassembly and Assembly"</u>.
- NO >> Repair or replace harness.

5.check climate controlled seat blower motor ground circuit

1. Turn ignition switch OFF.

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

3. Check continuity between climate controlled seat blower motor harness connector and climate controlled seat control unit harness connector.

Clim	ate controlled seat blo	wer motor	Climate controlled seat control unit Connector Terminal		Continuity
Co	nnector	Terminal			Continuity
Driver side	B506	41	B507	41	Existed
Passenger side	B516	41	B517	41	Existed

4. Check continuity between climate controlled seat blower motor harness connector and ground.

CLIMATE CONTROLLED SEAT BLOWER MOTOR

< DTC/CIRCUIT DIAGNOSIS >

Climate controlled seat blower motor				Continuity	A		
Con	nector	Terminal	Ground	Continuity			
Driver side	B506	41	41	B506 41	Giouria	Not existed	_
Passenger side	B516	- 41		NOL EXISTED	В		

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

6.CHECK CLIMATE CONTROLLED SEAT BLOWER MOTOR GROUND

Connect climate controlled seat blower motor connector and climate controlled seat control unit connector.

2. Check continuity between climate controlled seat blower motor harness connector and ground.

					E	
CI	imate controlled seat blower	motor		Continuity		
Connector		Terminal	- Ground	Continuity		
Driver side	B506	41	B506 41	Ground	Existed	F
Passenger side	B516	41		Existed		

Is the inspection result normal?

YES >> Replace climate controlled seat control unit. Refer to <u>SE-126. "Disassembly and Assembly"</u>.

NO >> Replace climate controlled seat blower motor. Refer to <u>SE-126, "Disassembly and Assembly"</u>.

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CLIMATE CONTROLLED SEAT SWITCH INDICATOR

< DTC/CIRCUIT DIAGNOSIS >

CLIMATE CONTROLLED SEAT SWITCH INDICATOR

Description

Turns ON the indicator that indicates the operating status of climate controlled seat HEAT or COOL mode.

Component Function Check

1.CHECK FUNCTION

Check that the related indicator lamp illuminates when climate controlled seat switch is set to HEAT or COOL mode.

Is the inspection result normal?

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

NO >> Refer to SE-36, "Diagnosis Procedure".

Diagnosis Procedure

1.CHECK CLIMATE CONTROLLED SEAT SWITCH INDICATOR

Check climate controlled seat switch indicator.

Which side of indicator does not turn ON?

Only HEAT or COOL mode>>GO TO 3. Both HEAT and COOL mode>>GO TO 2.

2. CHECK CLIMATECONTROLLED SEAT SWITCH GROUND CIRCUIT

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

	Climate controlled seat	switch		Continuity	
Co	onnector	Terminal	Ground	Continuity	
Driver side	M177	6	Ground	Existed	
Passenger side	M178	0		Existed	

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

3.CHECK CLIMATE CONTROLLED SEAT CONTROL UNIT OUTPUT SIGNAL

1. Turn ignition switch ON.

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

(+)			()	Condition		Voltage (V) (Approx.)
Climate controlled seat control unit						
Connector		Terminal				(+ +)
Driver side	B507	7	Ground	Climate controlled seat	HEAT mode	Battery voltage
					OFF	0
		15			COOL mode	Battery voltage
					OFF	0
Passenger side	B517	7		Climate controlled seat	HEAT mode	Battery voltage
					OFF	0
		15			COOL mode	Battery voltage
					OFF	0

Is the inspection result normal?

YES >> GO TO 4.

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CLIMATE CONTROLLED SEAT SWITCH INDICATOR

< DTC/CIRCUIT DIAGNOSIS >

NO >> Replace climate controlled seat control unit. Refer to <u>SE-126</u>, "Disassembly and Assembly".

4.CHECK CLIMATE CONTROLLED SEAT SWITCH INDICATOR CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect climate controlled seat control unit connector and climate controlled seat switch.
- 3. Check continuity between climate controlled seat switch harness connector and climate controlled seat control unit harness connector.

C	limate controlled seat	switch	Climate controlle	d seat control unit	Continuity	С
Co	nnector	Terminal	Connector	Terminal	Continuity	
Driver side	M177	4	B507	15		D
Driver side		5	6307	7	Existed	D
Dessenger side	M178	4	B517	15	Existed	
Passenger side	IVI I 7 O	5	DOT	7		E

4. Check continuity between climate controlled seat switch harness connector and ground.

Climate controlled seat switch				Continuity	F
Со	nnector	Terminal	_	Continuity	
Driver eide	N4477	4	Ground		0
Driver side	M177	5	Ground	Not eviated	G
Descender side	M179	4	_	Not existed	
Passenger side	M178	5	1		Н

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

5. CHECK CLIMATE	CONTROLLED SEAT	SWITCH INDICATOR
-------------------------	-----------------	------------------

Check climate controlled seat switch. Refer to <u>SE-37, "Component Inspection"</u>.

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace climate controlled seat switch. Refer to <u>SE-148</u>, "Removal and Installation"

6.CHECK INTERMITTENT INCIDENT

Refer to GI-47, "Intermittent Incident".

>> INSPECTION END

Component Inspection

1. CHECK CLIMATE CONTROLLED SEAT SWITCH INDICATOR

1. Turn ignition OFF.

2. Disconnect climate controlled seat switch connector.

3. Check climate controlled seat switch terminals.

	Terr	ninal		Continuity	-
Climate contro	olled seat switch	(+)*	(-)*	- Continuity	Р
Driver side	COOL indicator	4	e		_
Driver side	HEAT indicator	5	0	– Existed	
Passangar sida	COOL indicator	4	6	Existed	
Passenger side	HEAT indicator	5	0		

*For a digital tester. **NOTE:** INFOID:0000000010584511

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CLIMATE CONTROLLED SEAT SWITCH INDICATOR

< DTC/CIRCUIT DIAGNOSIS >

When checking by an analog tester, the polarity (+) and (–) becomes inverse.

Is the inspection result normal?

- YES >> Climate controlled seat switch indicator is OK.
- NO >> Replace climate controlled seat switch. Refer to <u>SE-148, "Removal and Installation"</u>.

CLIMATE CONTROLLED SEAT BLOWER FILTER

< DTC/CIRCUIT DIAGNOSIS >

CLIMATE CONTROLLED SEAT BLOWER FILTER	٨
Diagnosis Procedure	А
1. CHECK CLIMATE CONTROLLED SEAT BLOWER FILTER	В
Remove climate controlled seat blower motor filter and check that there is no clogging by dirt or foreign mat- ters.	
Is the inspection result normal?	С
YES >> INSPECTION END NO >> Replace climate controlled seat blower filter. Refer to <u>SE-149</u> , "Removal and Installation".	
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< DTC/CIRCUIT DIAGNOSIS >

HEATED SEAT SWITCH **DRIVER SIDE**

DRIVER SIDE : Description

Adjusts heated seat temperature and deactivates heated seat.

DRIVER SIDE : Component Function Check

1. CHECK HEATED SEAT SWITCH FUNCTION

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

Is the inspection result normal?

YES >> Heated seat switch function is OK.

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

DRIVER SIDE : Diagnosis Procedure

1. CHECK HEATED SEAT CONTROL UNIT INPUT SIGNAL

1. Turn ignition switch ON.

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

(+) Heated seat control unit					
		()	Condition	on	Voltage (V) (Approx.)
Connector	Terminal	-			
				OFF	0
				1 (Min. temperature)	12.24
				2	12.33
B439	67	Ground	Heated seat switch position	3	12.49
				4	12.63
				5	12.76
				6 (Max. temperature)	12.90

Is the inspection result normal?

YES >> Heated seat switch circuit is OK.

NO >> GO TO 2.

2.check heated seat switch circuit

1. Turn ignition switch OFF.

2. Disconnect heated seat switch connector.

3. Check continuity between heated seat switch harness connector and heated seat control unit harness connector.

Heated s	eat switch	Heated sea	Continuity	
Connector	Terminal	Connector	Terminal	Continuity
M172	2	B439	67	Existed

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

Heated se	eat switch		Continuity
Connector	Terminal	Ground	Continuity
M172	2		Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

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INFOID:000000010584515

< DTC/CIRCUIT D	IAGNOSIS >			
3. СНЕСК НЕАТЕ	D SEAT SWITCH	ł		А
Check heated seat Refer to <u>SE-41, "DF</u>		mponent Inspection".		
Is the inspection res				В
YES >> GO TO NO >> Replace		vitch. Refer to <u>SE-151, "Re</u>	moval and Installation".	
4.CHECK INTERN				С
Check intermittent i Refer to <u>GI-47, "Inte</u>		<u></u> .		D
	CTION END			
DRIVER SIDE	: Component	Inspection		INFOID:000000010584516
1.CHECK FRONT	HEATED SEAT	SWITCH		
	ated seat switch o			F
3. Check resistant	ce between heat	ed seat switch terminals as	s follows.	0
Heated s	eat switch	Condi	lion	G Resistance
Terr	ninal	Condi	uon	(ΚΩ) (Approx.)
	1		ON	0 H
			OFF	0
			1 (Min. temperature)	2.400
5	2	Heated seat switch position	3	1.200
	_		4	0.910 SE
			5	0.620
			6 (Max. temperature)	0.348 K
	CTION END e heated seat sw	vitch. Refer to <u>SE-151, "Re</u>	moval and Installation".	L
PASSENGER S	SIDE : Descri	ption		INFOID:000000010584517
Adjusts heated sea	t temperature and	d deactivates heated seat.		
PASSENGER S	SIDE : Compo	onent Function Che	ck	INFOID:000000010584518
1.CHECK HEATER	D SEAT SWITCH	I FUNCTION		
Check that heated tion.	seat warms to pr	reset temperature when op	perating heated seat swi	tch to the optimal posi-
Is the inspection res YES >> Heated	seat switch fund	tion is OK. ENGER SIDE : Diagnosis F	Procedure".	P
PASSENGER S	SIDE : Diagno	osis Procedure		INFOID:000000010584519
		OL UNIT INPUT SIGNAL		
 Turn ignition sw Check voltage 		seat control unit harness c	onnector and ground.	



< DTC/CIRCUIT DIAGNOSIS >

(+) Heated seat control unit			Qual	4:	Voltage (V)
		(–) Conditi		ITION	(Approx.)
Connector	Terminal				
				OFF	0
				1 (Min. temperature)	12.24
				2	12.33
B462 67	Ground	Heated seat switch position	3	12.49	
				4	12.63
				5	12.76
				6 (Max. temperature)	12.90

Is the inspection result normal?

YES >> Heated seat switch circuit is OK.

NO >> GO TO 2.

2. CHECK HEATED SEAT SWITCH CIRCUIT

1. Turn ignition switch OFF.

2. Disconnect heated seat switch connector.

3. Check continuity between heated seat switch harness connector and heated seat control unit harness connector.

Heated seat switch		Heated seat control unit		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M173	2	B462	67	Existed

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

Heated	seat switch		Continuity
Connector	Terminal	Ground	Not existed
M173	2		NOT EXISTED

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK HEATED SEAT SWITCH

Check heated seat switch.

Refer to SE-42, "PASSENGER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace heated seat switch. Refer to <u>SE-151, "Removal and Installation"</u>.

4.CHECK INTERMITTENT INCIDENT

Check intermittent incident. Refer to <u>GI-47, "Intermittent Incident"</u>.

>> INSPECTION END

PASSENGER SIDE : Component Inspection

1. CHECK FRONT HEATED SEAT SWITCH

1. Turn ignition OFF.

2. Disconnect heated seat switch connector.

3. Check resistance between heated seat switch terminals as follows.

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< DTC/CIRCUIT DIAGNOSIS >

	seat switch minal	- Conditi	on	Resistance (KΩ) (Approx.)	A
	1		ON	0	В
		-	OFF	x	
			1 (Min. temperature)	2.400	
5			2	1.800	С
5	2	Heated seat switch position	3	1.200	
			4	0.910	D
			5	0.620	D
			6 (Max. temperature)	0.348	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace heated seat switch. Refer to <u>SE-151, "Removal and Installation"</u>.

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HEATED SEAT RELAY

< DTC/CIRCUIT DIAGNOSIS >

HEATED SEAT RELAY

Description

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

Component Function Check

1.CHECK HEATED SEAT RELAY FUNCTION

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

Is the inspection result normal?

- YES >> Heated seat relay function is OK.
- NO >> Refer to <u>SE-44</u>, "Diagnosis Procedure"

Diagnosis Procedure

1.CHECK HEATED SEAT RELAY POWER SUPPLY

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

(+) Heated seat relay		(-)	Voltage (V) (Approx.)	
Connector	Terminal		(FF - 7	
M174	2	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK HEATED SEAT RELAY POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.

2. Disconnect fuse block (J/B) connector.

3. Check continuity between heated seat relay terminal connector and fuse block (J/B) harness connector.

Heated seat relay		Fuse block (J/B)		Continuity
Connector	Terminal Connector		Terminal	Continuity
M174	2	M1	2A	Existed

4. Check continuity between heated seat relay terminal connector and ground.

Heated s	seat relay		Continuity	
Connector	Connector Terminal		Continuity	
M174	2		Not existed	

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

3.CHECK HEATED SEAT RELAY GROUND CIRCUIT

1. Turn ignition switch OFF.

2. Check continuity between heated seat relay terminal connector and ground.

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HEATED SEAT RELAY

< DTC/CIRCUIT DIAGNOSIS >

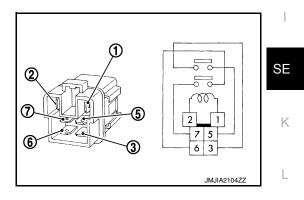
Heated s	seat relay		Continuity
Connector	Terminal	Ground	Existed
M174	1		Existed
Is the inspection result norma	al?		
YES >> GO TO 4. NO >> Repair or replace	e harness.		
4.CHECK HEATED SEAT F	RELAY		
Check heated seat relay. Refer to <u>SE-45, "Component</u>			
Is the inspection result norma			
YES >> Heated seat rela NO >> Replace heated			
5. CHECK INTERMITTENT	INCIDENT		
Check intermittent incident. Refer to <u>GI-47, "Intermittent</u>	ncident".		
>> INSPECTION EI	ND		
Component Inspection			INFOID:00000001058452
1.CHECK HEATED SEAT F	RELAY		

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

Terr	ninal	Condition	Continuity
6	7	12 V direct current supply between termi- nals 1 and 2.	Existed
		No current supply	Not existed

Is the inspection result normal?

- YES >> INSPECTION END
- NO >> Replace heated seat relay.



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< DTC/CIRCUIT DIAGNOSIS >

HEAT SENSOR DRIVER SIDE

DRIVER SIDE : Description

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

DRIVER SIDE : Component Function Check

1.CHECK FUNCTION

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

Is the inspection result normal?

YES >> Heat sensor function is OK.

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

DRIVER SIDE : Diagnosis Procedure

1.CHECK HEAT SENSOR INPUT SIGNAL

1. Turn ignition switch ON.

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

(+) Heated seat control unit		(-)	Condition	Voltage (V)
Connector	Terminal	-		
			OFF	0
			1 (Min. temperature)	10.87 – 11.02
			2	10.93 – 11.07
B439	69 Ground	Ground	3	11.04 – 11.17
			4	11.13 – 11.26
			5	11.22 – 11.34
			6 (Max. temperature)	11.31 – 11.43

NOTE:

Voltage is repeated within the value shown as per the following list depending on heater unit temperature. Is the inspection result normal?

YES >> Heat sensor function is OK.

NO >> GO TO 2.

2. CHECK HEAT SENSOR CIRCUIT

1. Turn ignition switch OFF.

2. Disconnect heated seat control unit connector and seat cushion heater connector.

3. Check continuity between heated seat control unit harness connector and seat cushion heater harness connector.

Heated seat control unit		Seat cushion heater		Continuity
Connector	ector Terminal Co		Terminal	Continuity
B439	69	B440	69	Existed

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

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

Is the inspection result normal?

INFOID:000000010584525

INFOID:000000010584526

INFOID:000000010584527

		HEAT SENSU	T. C.	
< DTC/CIRCUIT DIAG	NOSIS >			
YES >> GO TO 3.				
•	eplace harness.	N/		
3.CHECK HEAT SENS		Y		
 Turn ignition switch Check voltage betw 		ator harnoos aanna	ator and around	
2. Check vollage belw	een seat cushion he	aler namess conne	cior and ground.	
	(+)			
Sea	t cushion heater		(-)	Voltage (V) (Approx.)
Connector	Termina	al		
B440	66		Ground	Battery voltage
Is the inspection result r	normal?			
YES >> GO TO 5. NO >> GO TO 4.				
4				
4.CHECK HEAT SENS				
 Turn ignition switch Disconnect heated 	OFF. seat switch connecto	r		
			s connector and se	at cushion heater harness
connector.				
Heated se	eat switch	Seation	shion heater	
Connector	Terminal	Connector	Terminal	Continuity
M172	1	B440	66	Existed
	tween heated seat c	-		
4. Check continuity be				nu.
Hea	ated seat switch			Continuity
Connector	Termina	al	Ground	Not existed
M172	1			Not existed
Is the inspection result r	normal?			
YES >> GO TO 6.				
NO >> Repair or re 5.CHECK HEAT SENS	eplace harness.			
Check heat sensor. Ref		R SIDE : Componer	nt Inspection".	
Is the inspection result r	<u>normal?</u>			
YES >> GO TO 6. NO >> Replace set	at cushion heater. Re	efer to SE-122, "Exr	oloded View".	
6. CHECK INTERMITT				
Check intermittent incide				
Refer to <u>GI-47, "Intermit</u>				
<u> </u>	<u></u> .			
>> INSPECTIO	ON END			
DRIVER SIDE : Co	omponent Inspe	ction		INICOLD-00000001059459
				INFOID:00000001058452
1 ALLEAK AFA				
1. CHECK HEAT SENS	SOR			
1. Turn ignition switch				

3. Check resistance between seat cushion heater terminals as follows.

< DTC/CIRCUIT DIAGNOSIS >

Seat cushi	on heater	Condition	Resistance	
Term	inal	Contaillon	(ΚΩ)	
66	69	When heat sensor temperature is 25°C (77°F)	9.9 – 10.1	
NOTE: Resistance value Is the inspection resul	-	ding to temperature.	<u> </u>	

YES >> INSPECTION END

NO >> Replace seat cushion heater. Refer to <u>SE-122, "Exploded View"</u>.

PASSENGER SIDE

PASSENGER SIDE : Description

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

PASSENGER SIDE : Component Function Check

1. CHECK HEATER SENSOR FUNCTION

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

Is the inspection result normal?

YES >> Heat sensor function is OK.

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

PASSENGER SIDE : Diagnosis Procedure

1. CHECK HEAT SENSOR INPUT SIGNAL

1. Turn ignition switch ON.

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

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

NOTE:

Voltage is repeated within the value shown as per the following list depending on heater unit temperature. Is the inspection result normal?

YES >> heat sensor function is OK.

NO >> GO TO 2.

2. CHECK HEAT SENSOR CIRCUIT

1. Turn ignition switch OFF.

2. Disconnect heated seat control unit connector and seat cushion heater connector.

3. Check continuity between heated seat control unit harness connector and seat cushion heater harness connector.

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Connector Terminal Connector Terminal B462 69 B463 69 Check continuity between heated seat control unit harness connector and ground Heated seat control unit Ground 69 Heated seat control unit Ground Ground 69 69 60 </th <th></th> <th></th> <th>Seat c</th> <th>ushion heater</th> <th><u> </u></th>			Seat c	ushion heater	<u> </u>	
Check continuity between heated seat control unit harness connector and ground Heated seat control unit Connector Terminal B462 69 e inspection result normal? S >> GO TO 3. >> Repair or replace harness. HECK HEAT SENSOR POWER SUPPLY Turn ignition switch ON. Check voltage between seat cushion heater harness connector and ground. (+) Seat cushion heater (-) Connector Terminal B463 66 Ground a inspection result normal? S S S >> GO TO 5. >> GO TO 4. HECK HEAT SENSOR POWER SUPPLY CIRCUIT Turn ignition switch OFF. Disconnect heated seat switch connector. Check continuity between heated seat control unit harness connector and seat connector. Heated seat switch Seat cushion heater Connector Terminal M173 1 B463 66 Check continuity between heated seat control unit harness connector and ground	B462	Terminal	Connector	Terminal	Continuity	
Heated seat control unit Ground Connector Terminal B462 69 e inspection result normal? S >> GO TO 3. >> Repair or replace harness. HECK HEAT SENSOR POWER SUPPLY Turn ignition switch ON. Check voltage between seat cushion heater harness connector and ground. (+) Seat cushion heater (-) Connector Terminal B463 66 ground e inspection result normal? S S >> GO TO 5. >> GO TO 4. HECK HEAT SENSOR POWER SUPPLY CIRCUIT Turn ignition switch OFF. Disconnect heated seat switch connector. Check continuity between heated seat control unit harness connector and seat connector. Check continuity between heated seat control unit harness connector and seat connector. Heated seat switch Seat cushion heater Connector Terminal M173 1 B463 66		69	B463	69	Existed	
Connector Terminal Ground B462 69 69 e inspection result normal? S S >> Go TO 3. >> Repair or replace harness. HECK HEAT SENSOR POWER SUPPLY Turn ignition switch ON. Check voltage between seat cushion heater harness connector and ground. (+) Seat cushion heater Connector Terminal B463 66 Ground e inspection result normal? S >> Go TO 5. >> GO TO 4. HECK HEAT SENSOR POWER SUPPLY CIRCUIT Turn ignition switch OFF. Disconnect heated seat switch connector. Check continuity between heated seat control unit harness connector and seat connector. Heated seat switch Seat cushion heater Connector Terminal M173 1 B463 66 Check continuity between heated seat control unit harness connector and ground	heck continuity bet	ween heated seat co	ontrol unit harness	connector and gro	und.	
B462 69 e inspection result normal? S >> GO TO 3. >> Repair or replace harness. HECK HEAT SENSOR POWER SUPPLY Turn ignition switch ON. Check voltage between seat cushion heater harness connector and ground. (+) Seat cushion heater (-) Connector Terminal B463 66 e inspection result normal? S >> GO TO 5. >> GO TO 4. HECK HEAT SENSOR POWER SUPPLY CIRCUIT Turn ignition switch OFF. Disconnect heated seat switch connector. Check continuity between heated seat control unit harness connector and seat connector. Heated seat switch Seat cushion heater Connector Terminal M173 1 B463 66 Check continuity between heated seat control unit harness connector and seat connector. Connector Terminal	Heate	seat control unit			Continuity	
e inspection result normal? S >> GO TO 3. >> Repair or replace harness. HECK HEAT SENSOR POWER SUPPLY Turn ignition switch ON. Check voltage between seat cushion heater harness connector and ground. (+) Seat cushion heater (-) Connector Terminal B463 66 Ground e inspection result normal? S >> GO TO 5. >> GO TO 4. HECK HEAT SENSOR POWER SUPPLY CIRCUIT Turn ignition switch OFF. Disconnect heated seat switch connector. Check continuity between heated seat control unit harness connector and seat connector. Heated seat switch Seat cushion heater Connector Terminal M173 1 B463 66	Connector	Termina	al	Ground	,	
S >> GO TO 3. >> Repair or replace harness. HECK HEAT SENSOR POWER SUPPLY Turn ignition switch ON. Check voltage between seat cushion heater harness connector and ground. (+) Seat cushion heater (-) Connector Terminal B463 66 Ground e inspection result normal? S S >> GO TO 5. >> GO TO 5. >> GO TO 4. HECK HEAT SENSOR POWER SUPPLY CIRCUIT Turn ignition switch OFF. Disconnect heated seat switch connector. Check continuity between heated seat control unit harness connector and seat connector. Heated seat switch Seat cushion heater Connector Terminal M173 1 B463 M173 1 B463 66	-				Not existed	
Seat cushion heater (-) Connector Terminal B463 66 Ground e inspection result normal? S >> GO TO 5. >> GO TO 4. HECK HEAT SENSOR POWER SUPPLY CIRCUIT Turn ignition switch OFF. Disconnect heated seat switch connector. Check continuity between heated seat control unit harness connector and seat connector. Heated seat switch Seat cushion heater Connector Terminal M173 1 B463 66 Check continuity between heated seat control unit harness connector and ground M173 1 B463 66	>> GO TO 3. >> Repair or re IECK HEAT SENS urn ignition switch	place harness. OR POWER SUPPL ON.		ector and ground.		
Seat cushion heater (-) Connector Terminal B463 66 Ground e inspection result normal? S >> GO TO 5. >> GO TO 4. HECK HEAT SENSOR POWER SUPPLY CIRCUIT Turn ignition switch OFF. Disconnect heated seat switch connector. Check continuity between heated seat control unit harness connector and seat connector. Heated seat switch Seat cushion heater Connector Terminal M173 1 B463 66 Check continuity between heated seat control unit harness connector and ground M173 1 B463 66		(+)				
Connector Terminal B463 66 Ground e inspection result normal? S S >> GO TO 5. >> GO TO 4. HECK HEAT SENSOR POWER SUPPLY CIRCUIT Turn ignition switch OFF. Disconnect heated seat switch connector. Check continuity between heated seat control unit harness connector and seat connector. Heated seat switch Seat cushion heater Connector Terminal M173 1 B463 66 Check continuity between heated seat control unit harness connector and ground				(-)	Voltage (V)	
e inspection result normal? S >> GO TO 5. >> GO TO 4. HECK HEAT SENSOR POWER SUPPLY CIRCUIT Turn ignition switch OFF. Disconnect heated seat switch connector. Check continuity between heated seat control unit harness connector and seat connector. Heated seat switch Seat cushion heater Connector Terminal M173 1 B463 66 Check continuity between heated seat control unit harness connector and ground	Connector				(Approx.)	
S >> GO TO 5. >> GO TO 4. HECK HEAT SENSOR POWER SUPPLY CIRCUIT Turn ignition switch OFF. Disconnect heated seat switch connector. Check continuity between heated seat control unit harness connector and seat connector. Heated seat switch Seat cushion heater Connector Terminal M173 1 B463 66 Check continuity between heated seat control unit harness connector and ground	B463	66		Ground	Battery voltage	
ConnectorTerminalConnectorTerminalM1731B46366Check continuity between heated seat control unit harness connector and ground	neck continuity be			ss connector and se	eat cushion heater	
M173 1 B463 66 Check continuity between heated seat control unit harness connector and ground	onnector.	tween heated seat o	control unit harnes		eat cushion heater	
Check continuity between heated seat control unit harness connector and ground	onnector. Heated se	tween heated seat of at switch	control unit harnes Seat c	ushion heater	eat cushion heater	
Heated seat switch	Onnector. Heated se Connector	tween heated seat of at switch Terminal	control unit harnes Seat c Connector	ushion heater Terminal	Continuity	
hourse boar switch	Onnector. Heated se Connector M173	tween heated seat of at switch Terminal 1	control unit harnes Seat c Connector B463	ushion heater Terminal 66	Continuity Existed	
Connector Terminal Ground	Onnector. Heated se Connector M173 Check continuity be	tween heated seat of at switch Terminal 1	control unit harnes Seat c Connector B463	ushion heater Terminal 66	Continuity Existed	
M173 1	Onnector. Heated se Connector M173 Check continuity bet Hea	tween heated seat of at switch Terminal 1 tween heated seat co ted seat switch	control unit harnes Seat c Connector B463 ontrol unit harness	ushion heater Terminal 66 s connector and gro	Continuity Existed und. Continuity	
e inspection result normal? S >> GO TO 6. >> Repair or replace harness. HECK HEAT SENSOR ck heat sensor. Refer to <u>SE-50, "PASSENGER SIDE : Component Inspection"</u> . e inspection result normal? S >> GO TO 6. >> Replace seat cushion heater. Refer to <u>SE-122, "Exploded View"</u> .	Onnector. Heated se Connector M173 Check continuity be Hea Connector	tween heated seat of at switch Terminal 1 ween heated seat co ted seat switch Termina	control unit harnes Seat c Connector B463 ontrol unit harness	ushion heater Terminal 66 s connector and gro	Continuity Existed und.	

< DTC/CIRCUIT DIAGNOSIS >

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:000000010584532

1.CHECK HEAT SENSOR

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

Seat cush	nion heater	Condition	Resistance
Terr	ninal	Condition	(ΚΩ)
66	69	When heat sensor temperature is 25°C (77°F)	9.9 – 10.1

NOTE:

Resistance value changes according to temperature.

Is the inspection result normal?

- YES >> INSPECTION END
- NO >> Replace seat cushion heater. Refer to <u>SE-122, "Exploded View"</u>.

< DTC/CIRCUI		_	CUSHI	ON HEA	TER		
SEAT CUS							
DRIVER SIE	DE						А
DRIVER SID	E : Descrip	tion				INFOID:000000010584533	В
Warms the seat	cushion.						
DRIVER SID	E : Compoi	nent Functio	on Che	ck		INFOID:000000010584534	С
1.CHECK SEA	T CUSHION H	EATER FUNCT	TION				
Check that heat tion.	ed seat warms	to preset temp	perature w	when opera	ating heated sea	at switch to the optimal posi-	D
Is the inspection	result normal?	2					
		er function is O RIVER SIDE :		<u>Procedur</u>	<u>e"</u> .		Ε
DRIVER SID	E : Diagnos	sis Procedui	re			INFOID:000000010584535	
1.CHECK SEA	T CUSHION H	EATER INPUT	SIGNAL				F
 Disconnect Turn ignition 	switch ON.	eater connecto at cushion hea		s connect	or and ground.		G
	-						Н
	(+) hion heater	(-)		Cor	dition	Voltage (V)	
Connector	Terminal						
B440	68	Ground	Heated s	eat .	erated her than the above	0 – Battery voltage	
NOTE: Voltage is re Is the inspection YES >> GO NO >> GO 2.CHECK SEA	result normal? TO 3. TO 2.	2	·			on heater unit temperature.	K
	switch OFF.						
2. Disconnect	heated seat co	ntrol unit conne seat cushion h		rness conr	nector and heat	ed seat control unit harness	Μ
S	Seat cushion heate	er		Heated sea	t control unit	Continuity	Ν
Connecto	or	Terminal	Conn		Terminal		
B440	nuity hetween	68 seat cushion he	B4 eater harr		68 ector and ground	Existed	0
	_						
Conne	Seat cushior	n heater Terminal			Ground	Continuity	Ρ
B44	40	68				Not existed	

Is the inspection result normal?

>> Replace heated seat control unit. Refer to <u>SE-150, "Removal and Installation"</u>. >> Repair or replace harness. YES

NO

3.CHECK SEAT CUSHION HEATER

< DTC/CIRCUIT DIAGNOSIS >

Check seat cushion heater. Refer toSE-52, "DRIVER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace seat cushion heater. Refer to <u>SE-122, "Exploded View"</u>.

4.CHECK SEAT CUSHION HEATER GROUND CIRCUIT

Check continuity between seat cushion heater harness connector and ground.

Seat cush	nion heater		Continuity
Connector	Terminal	Ground	Continuity
B440	59		Existed

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident. Refer to <u>GI-47, "Intermittent Incident"</u>.

>> INSPECTION END

DRIVER SIDE : Component Inspection

1.CHECK SEAT CUSHION HEATER

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

Seat cush	nion heater	Condition	Resistance	
Terr	minal	Condition	(Ω)	
59	68	When heat sensor temperature is 20°C (68°F)	2.6 - 3.0	

NOTE:

Resistance value changes according to temperature.

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace seat cushion heater. Refer to <u>SE-122, "Exploded View"</u>.

PASSENGER SIDE

PASSENGER SIDE : Description

Warms the seat cushion.

PASSENGER SIDE : Component Function Check

1.CHECK SEAT CUSHION HEATER FUNCTION

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

Is the inspection result normal?

YES >> Seat cushion heater function is OK.

NO >> Refer to <u>SE-52</u>, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

1.CHECK FRONT SEAT CUSHION HEATER INPUT SIGNAL

INFOID:000000010584536

INFOID:0000000010584539

INFOID:000000010584537

INFOID:000000010584538

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(1)					
(+) Seat cushic		()	Condition		Voltage (V)
Connector	Terminal	(-)		Condition	voltage (v)
B463	68	Cround	Ground Heated seat Operated 0 – Batter		0 – Battery voltage
D403	00	Ground	Healed Seal	Other than the above	0
urn ignition s Disconnect he Check continu	0 3. 0 2. CUSHION HI witch OFF. ated seat co	EATER CIRCU	nector.	s connector and heated	l seat control unit harnes
Seat cushion heater		r	Heat	ed seat control unit	
Connector	-	Terminal	Connector	Terminal	Continuity
B463		68	D 400		
Check continu	ity between s	seat cushion h	B462 neater harness	68 connector and ground.	Existed
Connect	Seat cushion	seat cushion h heater Termina	neater harness		Continuity
Connect B463 e inspection re	Seat cushion or esult normal?	heater Termina 68	neater harness	Ground	Continuity Not existed
Connect B463 e inspection re S >> Replac >> Replac HECK SEAT (ck seat cushio er to <u>SE-54, "P/ e inspection re</u> S >> GO T(>> Replac HECK SEAT (Seat cushion or esult normal? ce heated se or replace h CUSHION HI ASSENGER esult normal? O 4. ce seat cush CUSHION HI	seat cushion h heater Termina 68 at control unit harness. EATER SIDE : Compo c	Refer to <u>SE-1</u>	Ground	Continuity Not existed
Connect B463 e inspection re S >> Replac >> Replac HECK SEAT (ck seat cushio r to <u>SE-54, "P4</u> e inspection re S >> GO T(>> Replac HECK SEAT (Turn ignition s	Seat cushion or esult normal? ce heated se or replace h CUSHION HI SSENGER esult normal? O 4. ce seat cush CUSHION HI witch OFF.	seat cushion h heater Termina 68 at control unit harness. EATER SIDE : Compo Sion heater. Re EATER GROU	Refer to <u>SE-1</u>	Ground Ground Insta	Continuity Not existed Ilation".
Connect B463 e inspection re S >> Replac >> Replac HECK SEAT (ck seat cushio r to <u>SE-54, "P4</u> e inspection re S >> GO T(>> Replac HECK SEAT (Turn ignition s	Seat cushion or esult normal? ce heated se or replace h CUSHION HI N heater. ASSENGER esult normal? O 4. ce seat cushion CUSHION HI witch OFF. ity between seat cushion	seat cushion h heater Termina 68 at control unit harness. EATER SIDE : Compo Sion heater. Re EATER GROU	Refer to <u>SE-1</u>	Ground <u>Ground</u> <u>50, "Removal and Insta</u> <u>n"</u> . <u>"Exploded View"</u> .	Continuity Not existed

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

< DTC/CIRCUIT DIAGNOSIS >

Refer to GI-47. "Intermittent Incident".

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:000000010584540

1. CHECK SEAT CUSHION HEATER

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

Seat cushion heater Terminal		Condition	Resistance
		Condition	(Ω)
59	68	When heat sensor temperature is 20°C (68°F)	2.6 - 3.0

NOTE:

Resistance value changes according to temperature.

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace seat cushion heater. Refer to <u>SE-122, "Exploded View"</u>.

SEATBACK HEATER

SEATBACK HEATER					
< DTC/CIRCUIT DIAGNOSIS >					
SEATBACK HEATER	А				
DRIVER SIDE					
DRIVER SIDE : Description	⁵⁴¹ B				
Warms the seat back heater.					
DRIVER SIDE : Component Function Check	542 C				
1.CHECK SEATBACK HEATER FUNCTION					
Check that heated seat warms to preset temperature when operating heated seat switch to the optimal position. \Box					
Is the inspection result normal?					
YES >> Seatback heater function is OK. NO >> Refer to <u>SE-55, "DRIVER SIDE : Diagnosis Procedure"</u> .	E				
DRIVER SIDE : Diagnosis Procedure	543				
1. CHECK SEATBACK HEATER	F				
1. Turn ignition switch OFF.	_				
2. Disconnect seatback heater connector.	G				
3. Check resistance between seatback heater terminals.					
Seatback heater Condition Resistance	Н				
Connector Terminal (Ω) B442 1 2 When heat sensor temperature is 20°C (68°F) 4.0 – 4.7					
B442 1 2 When heat sensor temperature is 20°C (68°F) 4.0 – 4.7 NOTE: <					
Resistance value changes according to temperature.					
<u>Is the inspection result normal?</u> YES >> Replace seat cushion heater. Refer to <u>SE-122, "Exploded View"</u> .	SE				
NO >> Replace seatback heater. Refer to <u>SE-122, "Exploded View"</u> .					
PASSENGER SIDE	K				
PASSENGER SIDE : Description	544				
Warms the seat back heater.	L				
PASSENGER SIDE : Component Function Check	545				
1. CHECK SEATBACK HEATER FUNCTION	M				
Check that heated seat warms to preset temperature when operating heated seat switch to the optimal post tion.	<u> </u>				
Is the inspection result normal?	Ν				
YES >> Seatback heater function is OK. NO >> Refer to SE-55 "PASSENGER SIDE : Diagnosis Procedure"					
DASSENCED SIDE : Diagnosis Procedure	NO >> Refer to <u>SE-55. "PASSENGER SIDE : Diagnosis Procedure"</u> .				
1.CHECK SEATBACK HEATER	0				
 CHECK SEATBACK HEATER Turn ignition switch OFF. Disconnect seatback heater connector. 	2546				

SEATBACK HEATER

< DTC/CIRCUIT DIAGNOSIS >

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

NOTE:

Resistance value changes according to temperature.

Is the inspection result normal?

YES >> Replace seat cushion heater. Refer to <u>SE-122, "Exploded View"</u>.

NO >> Replace seatback heater. Refer to <u>SE-122, "Exploded View"</u>.

HEATED SEAT SWITCH INDICATOR

		HEATE	D SEAT SV	VITCH INDIC	ATOR		
_	CIRCUIT DIAGNOS	-					
	TED SEAT SWI	TCH IN	DICATOR				А
DRIV	ER SIDE						/ 1
DRIV	ER SIDE : Descri	ption				INFOID:000000010584547	В
Illumin	ates the indicator that	indicates th	he operating sta	atus of heated sea	at.		
DRIV	ER SIDE : Comp	onent F	unction Che	eck		INFOID:000000010584548	С
1. сн	ECK HEATED SEAT S	WITCH IN	DICATOR FUN	CTION			0
	that the related indicat	-	uminates when	heated seat swite	ch is turne	ed ON.	D
<u>Is the I</u> YES	inspection result norma >> Heated seat swit		or function is Ok	(
NO	>> Refer to <u>SE-57.</u>						Е
DRIV	ER SIDE : Diagno	osis Prod	cedure			INFOID:000000010584549	
1. CHECK HEATED SEAT SWITCH INDICATOR GROUND CIRCUIT					F		
	Irn ignition switch OFF						
2. Di	sconnect heated seat s neck continuity betwee	switch coni		oss connector an	d around		G
J. CI	leck continuity betwee	n nealeu s	cal Switch Ham	ess connector an	a grouna		0
	Heated se					Continuity	Н
	Connector M172		erminal 6	Ground		Existed	
Is the i	inspection result norma	al?	0			LABIO	
YES	>> GO TO 2.						I
NO 2 CU	>> Repair or replace ECK HEATED SEAT S						
	heated seat switch.	WIICH					SE
	to <u>SE-57, "DRIVER SII</u>	DE : Comp	onent Inspectio	<u>n"</u> .			
	inspection result norma	al?					Κ
YES NO	>> GO TO 3. >> Replace heated s	seat switch	n. Refer to SE-1	51, "Removal an	d Installat	tion".	
3.сн	ECK INTERMITTENT						L
	intermittent incident.						
Refer t	to <u>GI-47, "Intermittent I</u>	<u>ncident"</u> .					M
	>> INSPECTION EN	ND					
DRIV	ER SIDE : Comp	onent In	spection			INFOID:000000010584550	Ν
1. сн	ECK HEATED SEAT S	WITCH					
	Irn ignition OFF.						0
	sconnect heated seat set the heated seat swite		nector.				
4. Cł	neck continuity betwee	n heated s	eat switch term	inals as follows.			Ρ
		Heated sea	at switch				
		Termir	-			Continuity	
	(+)*			-)*		Frietzal	
	<u> </u>			6 5		Existed Not existed	
	0			~			

HEATED SEAT SWITCH INDICATOR

< DTC/CIRCUIT DIAGNOSIS > *For a digital tester. NOTE: · Use a tester that can perform LED (light-emitting diode) measurement. The polarity (+ and –) reverses when checking using an analog tester. Is the inspection result normal? YES >> INSPECTION END NO >> Replace heated seat switch. Refer to SE-151, "Removal and Installation". PASSENGER SIDE **PASSENGER SIDE** : Description INFOID:000000010584551 Illuminates the indicator that indicates the operating status of heated seat. PASSENGER SIDE : Component Function Check INFOID:0000000010584552 **1**.CHECK FUNCTION Check that the related indicator lamp illuminates when heated seat switch is turned ON. Is the inspection result normal? YES >> Heated seat switch indicator function is OK. NO >> Refer to SE-58, "PASSENGER SIDE : Diagnosis Procedure". PASSENGER SIDE : Diagnosis Procedure INFOID:000000010584553 1.CHECK HEATED SEAT SWITCH INDICATOR GROUND CIRCUIT 1. Turn ignition switch OFF 2. Disconnect heated seat switch connector. Check continuity between heated seat switch harness connector and ground. 3. Heated seat switch Continuity Connector Terminal Ground M173 6 Existed Is the inspection result normal? YES >> GO TO 2. >> Repair or replace harness. NO 2.CHECK HEATED SEAT SWITCH Check heated seat switch. Refer to SE-58, "PASSENGER SIDE : Component Inspection". Is the inspection result normal? YES >> GO TO 3. NO >> Replace heated seat switch. Refer to <u>SE-151, "Removal and Installation"</u>. 3.CHECK INTERMITTENT INCIDENT Check intermittent incident. Refer to GI-47, "Intermittent Incident". >> INSPECTION END PASSENGER SIDE : Component Inspection INFOID:0000000010584554 1.CHECK HEATED SEAT SWITCH 1. Turn ignition OFF. 2. Disconnect heated seat switch connector. 3. Set the heated seat switch ON. Check continuity between heated seat switch terminals. 4.

HEATED SEAT SWITCH INDICATOR

< DTC/CIRCUIT DIAGNOSIS >

Heated se	eat switch		А
 Term	ninal	Continuity	
 (+)*	(–)*	_	_
 5	6	Existed	В
 6	5	Not existed	

NOTE:

• Use a tester that can perform LED (light-emitting diode) measurement.

• The polarity (+ and –) reverses when checking using an analog tester.

Is the inspection result normal?

YES	>> Heated seat switch is OK.
YES	>> Heated seat switch is UK.

NO >> Replace heated seat switch. Refer to <u>SE-151, "Removal and Installation"</u>.

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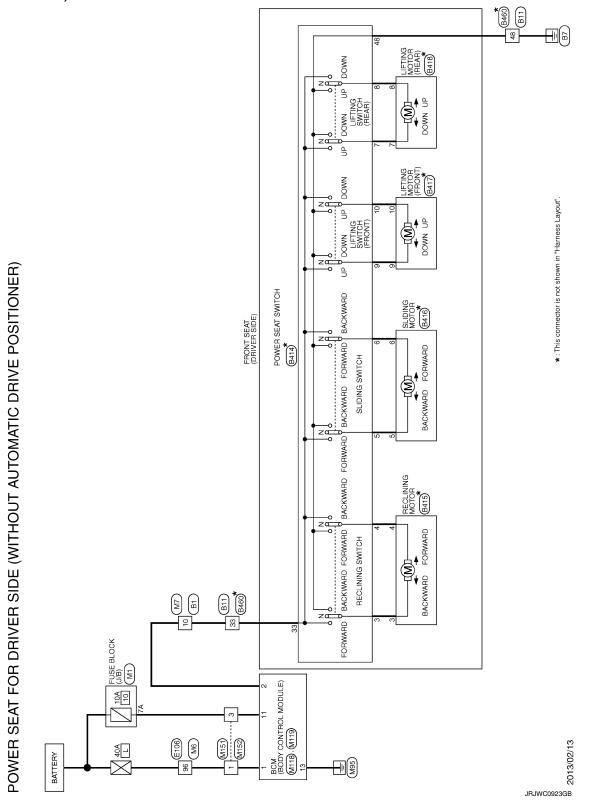
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POWER SEAT

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



	A
	В
B415 RECLINIVS MOTOR RECLINIVS MOTOR NS02FW-GS Signal Name (Specification) Signal Name (Specificat	С
Connector Name RecLINNG MOTO Connector Name RECLINNG MOTO Connector Name RECLINNG MOTO Connector Name RECLINNG MOTO Connector Name RELIDING MOTOR RELIDING RELIDING RELIDING MOTOR RELIDING	D
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	I
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POWER SEAT FOR DRIVER Connector Name Ommetor Name MR TO WRE Connector Name Connector Name Mile R Connector Name Signal Ware Signal Ware (Specification N K Connector Name Signal Ware Signal Ware Signal Ware Signal Ware </td <td>M</td>	M
POWER SE State Connector No. Connector No. Connector No. Connector No. No. Connector No. No. No. No. No. No. No. No. No. No. No. 1 SB 3 K 1 SB	Ν

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POWER SEAT

< DTC/CIRCUIT DIAGNOSIS >

T FOR	WITHOL	È	IRIVE POSIT	IONER			[
B417	Connector No.	D. B460		12	U	-	Ű		-	
LIFTING MOTOR (FRONT)	Connector Name	ame WIRE TO WIRE		13	œ.			ヵ	רם	
					×		<u> </u>	+		
NS02FW-CS	Connector Type	pe NS16MW-LC			SHELD		- T	-		
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				22	۲	- [With ICC]	Ľ	82 W	,	
	Terminal Co	Color Of		23	>	- [Without ICC]	<u>Т</u>	╞		
Signal Name [Specification]	- ON	Wire Signal Name [Specification]	ecification]	1 %	• •	-	1	+		
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	+	- ~			>	- [With ICC]	~	┥		
B418	21			26 S	SHIELD	-	~	89 LG	-	
	32			28	σ	-	<i></i>	90 BR	-	
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NS02EWLCS	┢	RM		Q.	C B		ľ	╀		
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<u>]</u>	Connector No.	o. E106		37	>		<u> </u>			
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				39	LG		-	100 \		
	Connector Type	pe TH80FW-CS16-TM4		41	LG					
				42	>					
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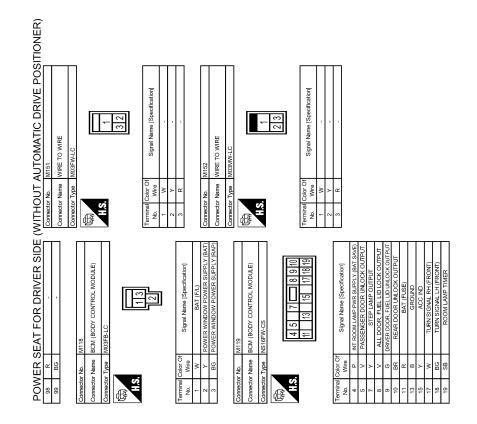
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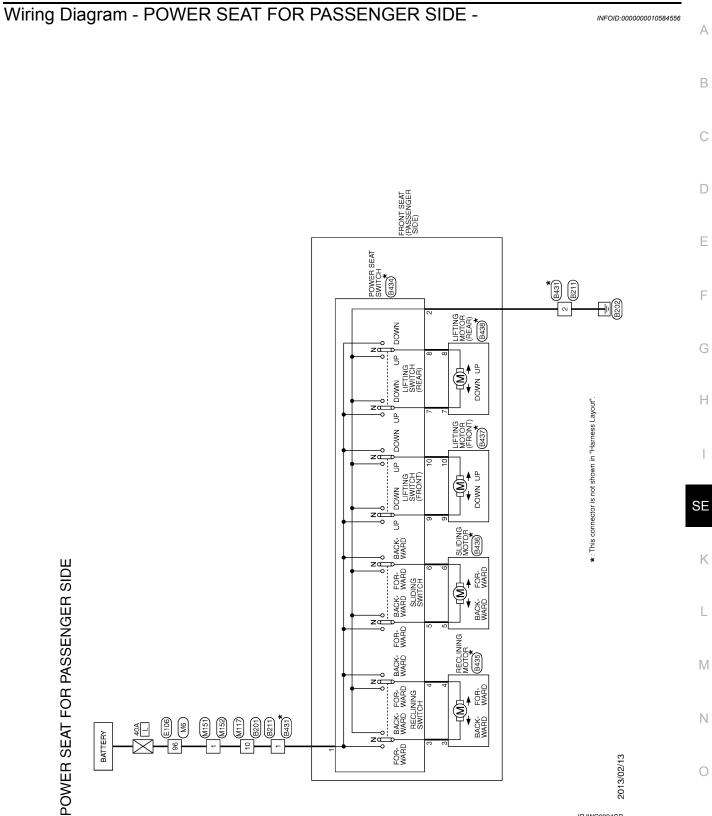
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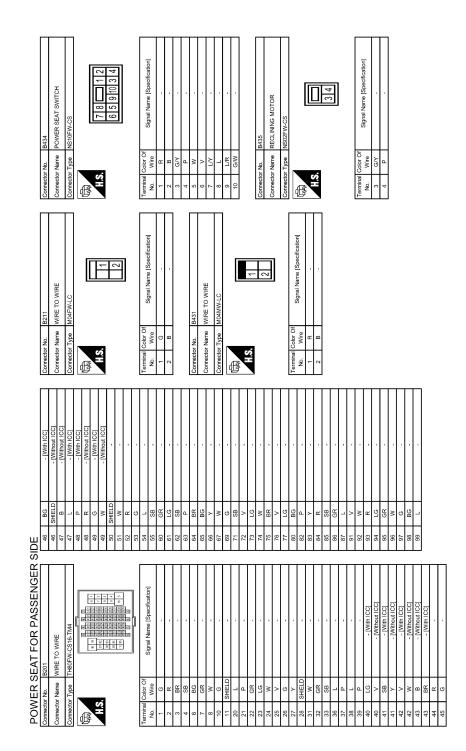
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Revision: 2015 February

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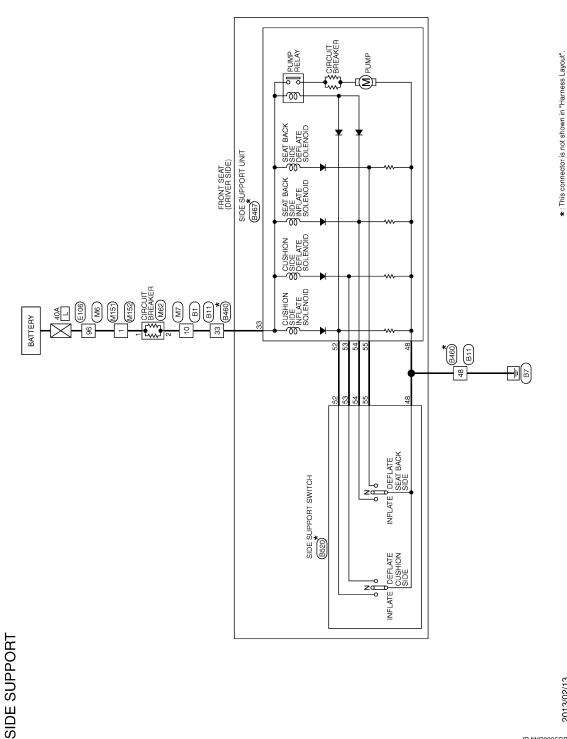
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SIDE SUPPORT

Wiring Diagram - SIDE SUPPORT -

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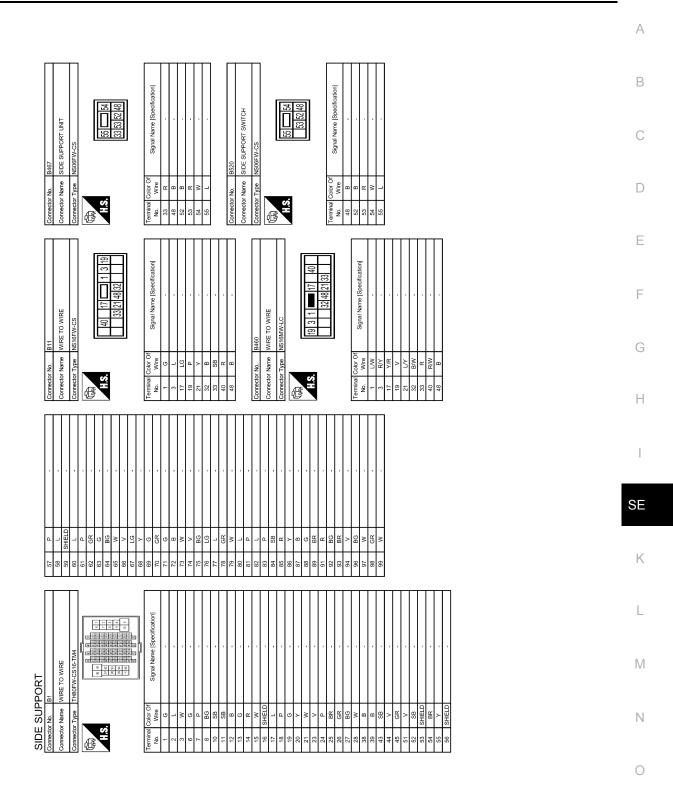


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SIDE SUPPORT

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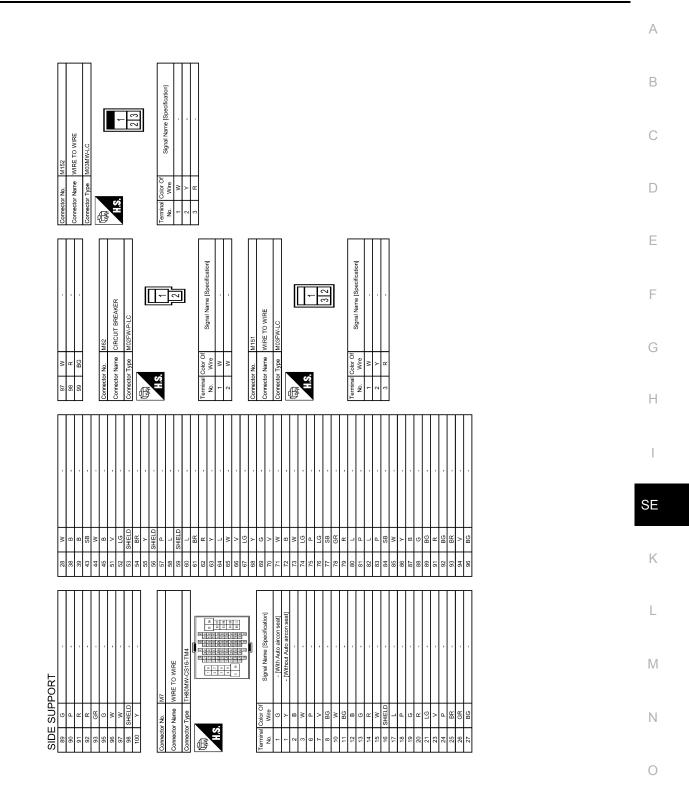
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SIDE SUPPORT

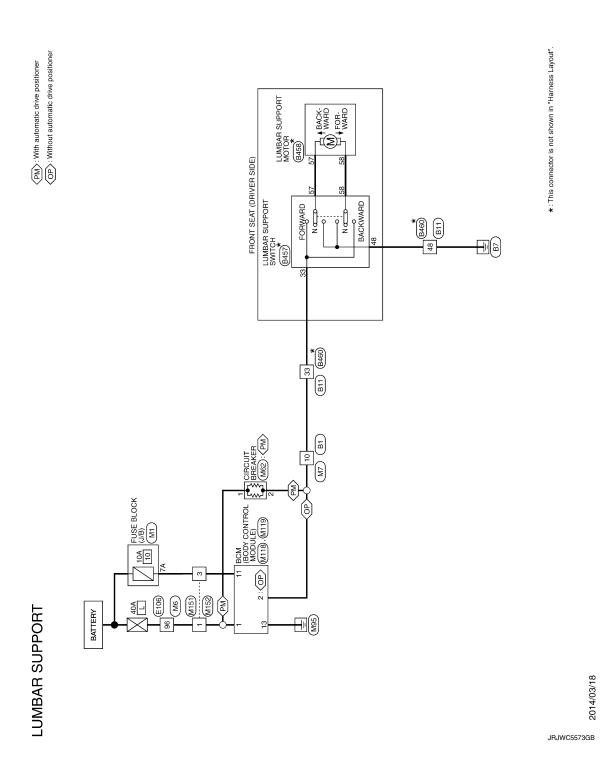


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LUMBAR SUPPORT

Wiring Diagram - LUMBAR SUPPORT -



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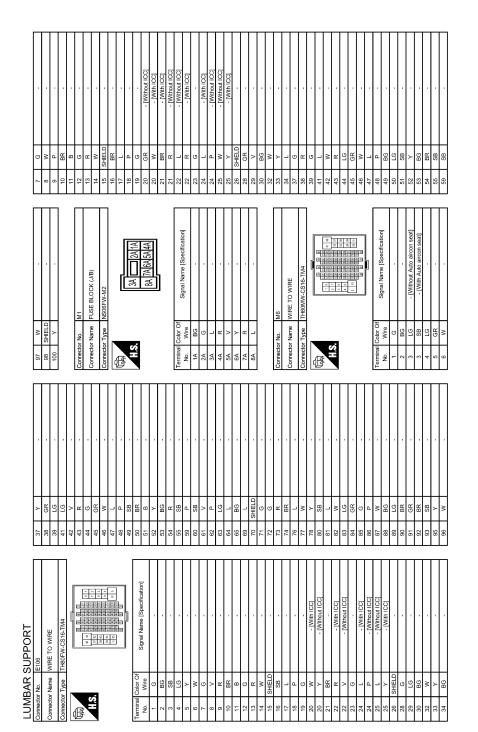
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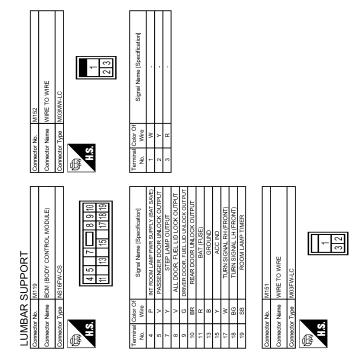
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LUMBAR SUPPORT

LUMBAR SUPPORT

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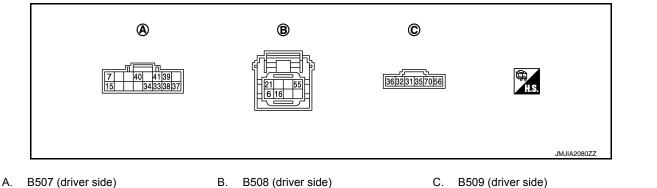
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ECU DIAGNOSIS INFORMATION CLIMATE CONTROLLED SEAT CONTROL UNIT

Reference Value

TERMINAL LAYOUT



- B517 (passenger side)
- B. B508 (driver side)B518 (passenger side)
- C. B509 (driver side) B519 (passenger side)

PHYSICAL VALUES

Teri	minal No.	Wire	Description				Value	Н
+	_	color	Signal name	Input/ Output	Condition		(Approx.)	
						HI COOL	2.6 - 4.2	
c	Cround	6	COOL awitch signal	ا برمور	Climate controlled seat	MID COOL	1.6 - 2.5	-
6	Ground	R	COOL switch signal	Input	switch	LO COOL	0.8 - 1.5	0
						OFF	0	SE
7	Ground	L	HEAT switch indicator	Output	Climate controlled seat	HEAT	Battery voltage	
1	Ground		signal	Output	switch	OFF	0	K
15	Cround	W	COOL switch indica-	Output	Climate controlled seat	COOL	Battery voltage	-
15	Ground	vv	tor signal	Output	switch	OFF	0	-
						HI HEAT	2.6 - 4.2	- L
16	Cround	G		Input	Climate controlled seat	MID HEAT	1.6 - 2.5	-
10	Ground	G	HEAT switch signal		switch	LO HEAT	0.8 - 1.5	M
						OFF	0	
21	Ground	Р	Climate controlled seat switch power supply	Output	Ignition switch ON		Battery voltage	N
31	Ground	L/R	Seat cushion thermal electric device HEAT	Input	Climate controlled seat switch	HEAT or COOL	0 - Battery voltage*	0
			signal		Switch	OFF	0	0
32	Ground	G/R	Seat cushion thermal electric device COOL	Input	Climate controlled seat switch	HEAT or COOL	0 - Battery voltage*	P
			signal		Switch	OFF	0	_
33	Ground	B/R	Seat cushion thermal electric device sensor signal	Input	Climate controlled seat opera	ated	1 - 5	-
34	Ground	Y/R	Seat cushion thermal electric device sensor ground	_	Ignition switch ON		0	-

Revision: 2015 February

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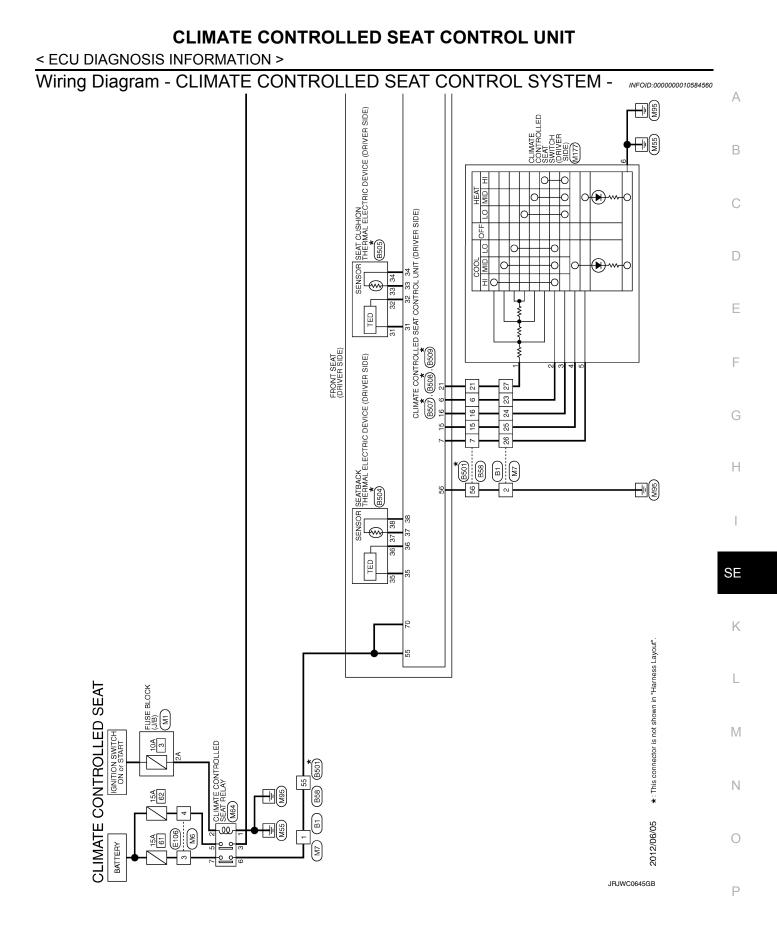
Terr	minal No.	Wire	Description	Description			
+	_	color	Signal name	Input/ Output	Condition		Value (Approx.)
35	Ground	V	Seatback thermal electric device HEAT	Input	Climate controlled seat switch	HEAT or COOL	0 - Battery voltage*
			signal		SWIICH	OFF	0
36	Ground	0	Seatback thermal electric device COOL	Input	Climate controlled seat	HEAT or COOL	0 - Battery voltage*
			signal		Switch	OFF	0
37	Ground	SB	Seatback thermal electric device sensor signal	Input	Climate controlled seat operat	Climate controlled seat operated	
38	Ground	В	Seatback thermal electric device sensor ground	_	Ignition switch ON		0
39	Ground	G/W	Blower motor power supply	Output	Climate controlled seat switch	HEAT or COOL	Battery voltage
			Supply		Other than the above		0
						HEAT	8.5 - 9
40	Ground	R/W	Blower motor speed	Input	Climate controlled seat	HI COOL	12
40	Ground		control signal	input	switch	MID COOL	9
						LO COOL	8
41	Ground	B/W	Blower motor ground	_	—		0
55	Ground	W	Ignition switch power supply	Input	Ignition switch ON		Battery voltage
56	Ground	В	Ground	—	_		0
70	Ground	R	Ignition switch power supply	Input	Ignition switch ON		Battery voltage

*: It changes between battery voltage or 0V

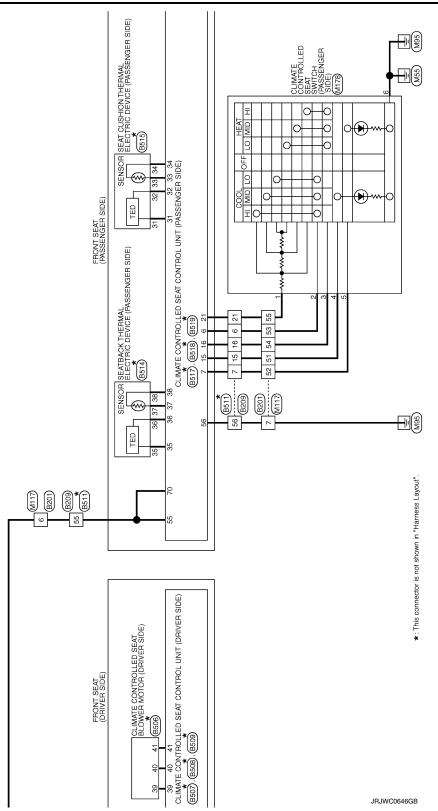
NOTE:

- Measure the value on the condition that the battery voltage is 14 ${\sf V}$

• Wait 1 minute or more after terminal electric device is activated, and then start the measurement

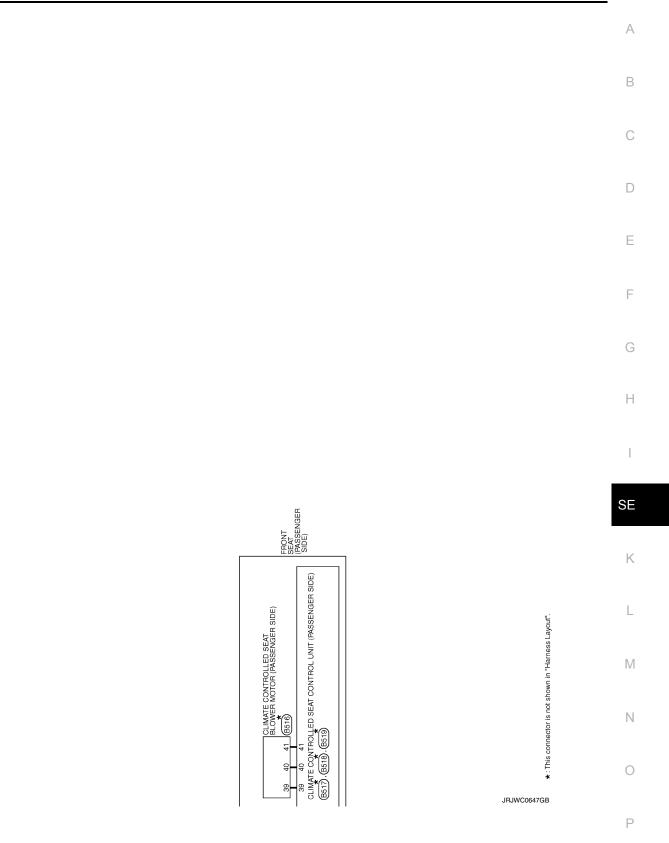


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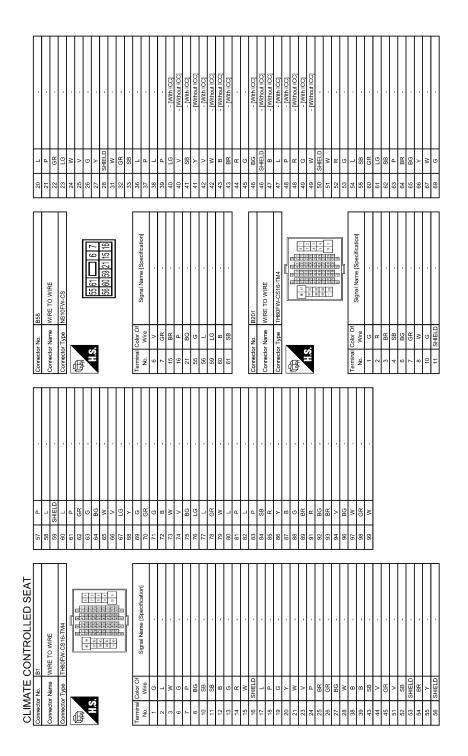


Revision: 2015 February

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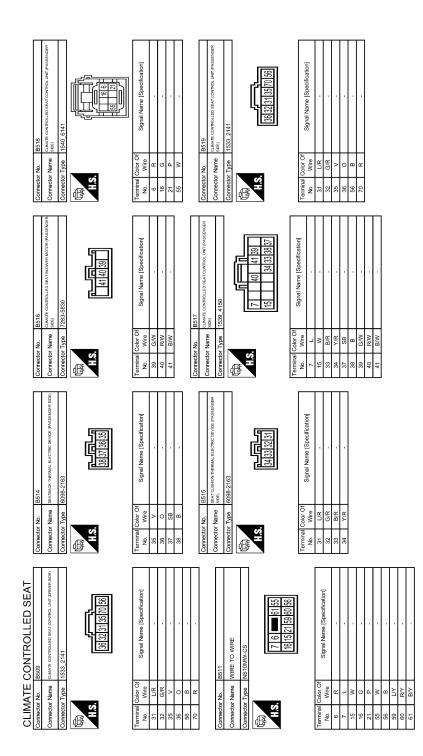
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CLIMATE CONTROLLED SEAT CONTROL UNIT < ECU DIAGNOSIS INFORMATION >

А В CLIMATE CONTROLLED SEAT CONTROL UNIT (DRI CLIMATE CONTROLLED SEAT CONTROL UNIT (DRIV Signal Name [Specification] Signal Name [Specification] С 1539 4150 1540_614 Color Of Wire Connector Name mector Name B/R SB B/W B/W B/W Connector Type onnector Type Wire D Connector No. nector No. H.S. ALS. erminal 40 <u>ത</u> Ś Ż ß ſ Е I CUSHION THERMAL ELECTRIC DEVICE (DRIVER SIDE) VIROLLED SEAT BLOWER MOTOR (DRIVER Signal Name [Specification] Signal Name [Specification] 34 33 32 31 F UMATE G Terminal Color Of No. Wire 39 G/W 40 R/W 41 B/W Color Of Wire Connector Type Connector Name Connector Name R/R G/R Connector No. Connector No. H.S. ALS. 3 2 Ē Ś ß Н Signal Name [Specification] Signal Name [Specification] 21 59 60 56 <u>3837 3635</u> DEVICE ELECTRIC 7 6 💻 16 15 21 5 WIRE TO WIRE SE 501 olor Of Wire Connector Name Connector Name 비구망 Vire V 058 8 Connector Type Connector No. ≥_0_∟_≥ nnector No. H.S. H.S.H 56 59 Κ 38 No. E ġ ß CLIMATE CONTROLLED SEAT L Signal Name [Specification] 15 16 59 21 Μ WIRE TO WIRE NS10FW-C5 r B s ≤ G F r nnector No. onnector Name ector Type B Wire > 뚭 > яß >|≥| () 0 8888 Ν H.S.H 86 66 Ś ß Ο

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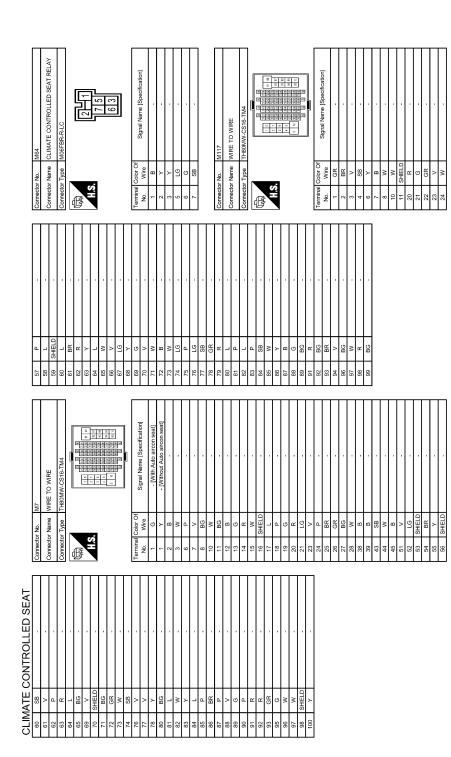
CLIMATE CONTROLLED SEAT CONTROL UNIT < ECU DIAGNOSIS INFORMATION >

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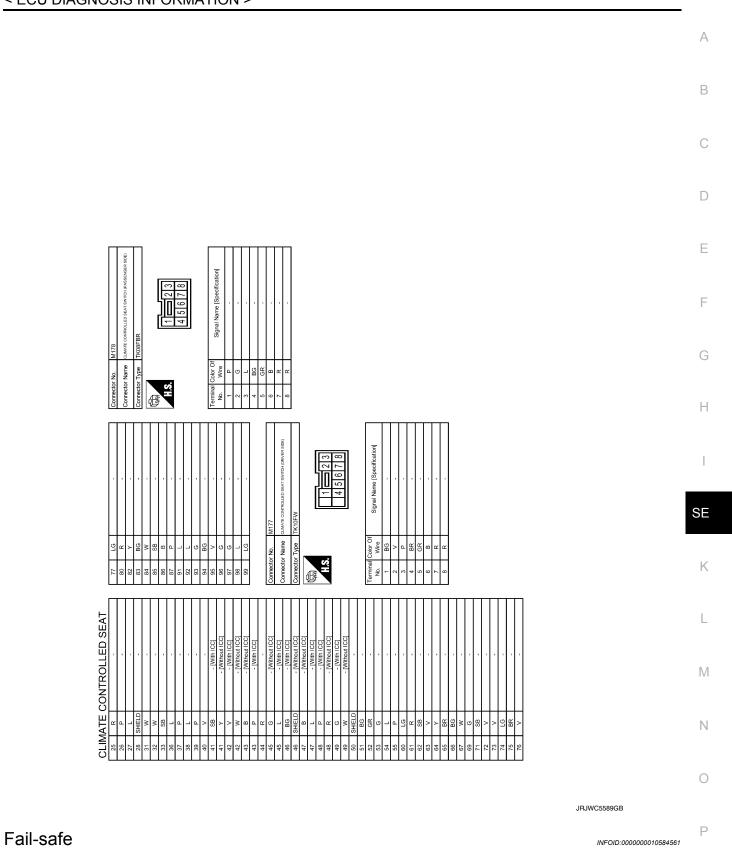
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- Climate controlled seat control unit equips fail-safe function.
- When a malfunction occurs in the systems shown as per the following, climate controlled seat control unit stops output.

< ECU DIAGNOSIS INFORMATION >

Malfunction	Malfunctioning condition
The temperature difference between the seatback ther- mal electric device and seat cushion thermal electric de- vice is 30°C or more	 When it detects for 4 seconds that the temperature difference between the seatback thermal electric device and seat cushion thermal electric device is 30°C 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 If the temperature difference is still 30°C or more after 30 seconds pass, it stops all output and enters the system OFF condition When the temperature difference between seatback thermal electric device and seat cushion thermal electric device becomes 20°C or less, the system recovers automatically 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 NOTE: When the switch operation is performed before entering the system OFF condition, the fail-safe mode is reset.
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)	 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 climate the controlled seat blower motor in the maximum position, and sends the external airflow for 30 seconds If the temperature does not become 105°C or less after 30 seconds pass, it stops all output and enters the system OFF condition When the temperature of the thermal electric device becomes 105°C or less, the system recovers automatically 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
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)	 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 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 If it detects other results of monitoring, it continues activating in the COOL mode
Thermal electric device sensor system open circuit	When it detects for 4 seconds that the thermal electric device sensor sys- tem is an open circuit
Climate controlled seat blower motor system open circuit	 When it detects for 2 seconds that climate controlled seat blower motor system is an open circuit while the climate controlled seat is being activated, it stops output to the thermal electric device When it detects for 10 seconds that the climate controlled seat blower motor system is an open circuit while the climate controlled seat is being activated, it stops all output and enters the system OFF condition NOTE: After detecting the climate seat blower motor system open circuit for 2 seconds, the system recovers automatically if the activation of the climate controlled seat blower motor is detected for 1 second or more.
Switch input out of the specified range	 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 When the switch input returns to a value within the specified range, the system recovers automatically
HEAT or COOL switch input out of the specified range	 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 When the switch input returns to a value within the specified range, the system recovers automatically
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 ventilation seat control unit power source and the ground. **NOTE:**

< ECU DIAGNOSIS INFORMATION >

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

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< ECU DIAGNOSIS INFORMATION >

HEATED SEAT CONTROL UNIT

Reference Value

INFOID:000000010584562



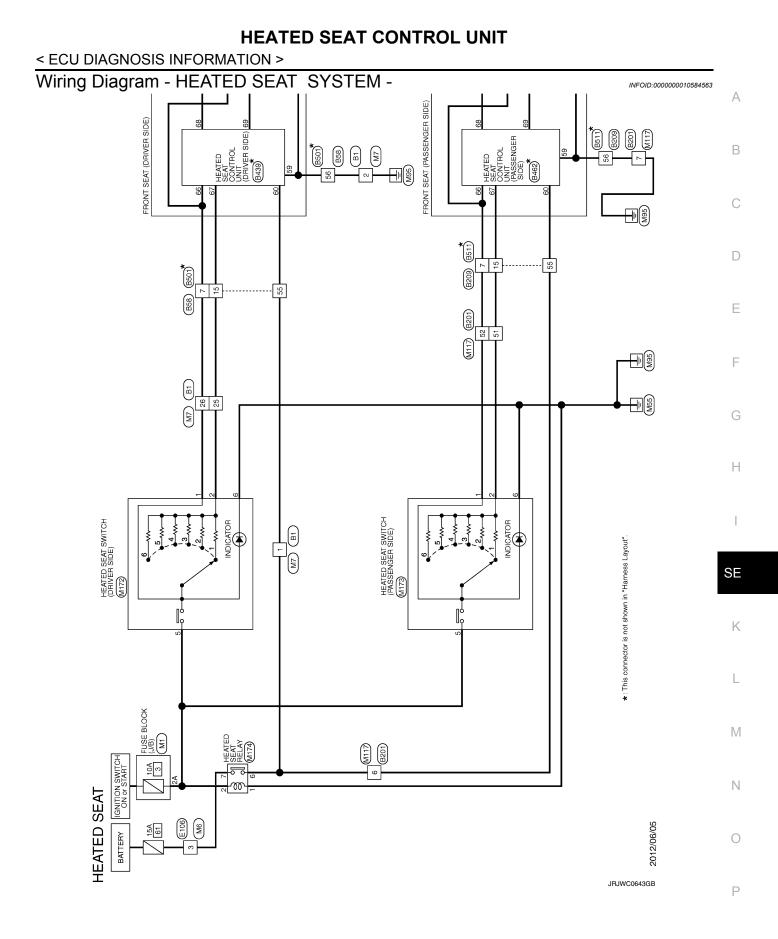


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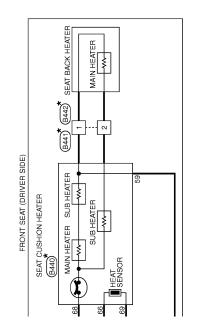
PHYSICAL VALUES

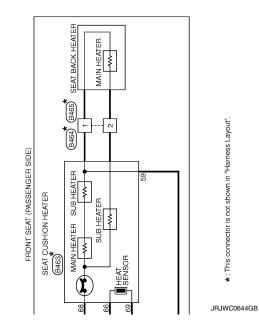
Terminal No. (Wire color)		Description		Condition		Voltage (V)									
(+)	()	Signal name	Input/ Output		Condition										
59 (Y)	Ground	Ground	_		-	0									
60	Ground	IGN power supply	Input	Ignition switch	OFF or ACC	0									
(Y/R)	Ciouna	TON power supply	mput	Ignition switch	ON	Battery voltage									
66	Ground	Heated seat operation sig-	Input	Heated seat	Operate	Battery voltage									
(B)	Gibunu	nal	mput	Tieated Seat	Other than the above	0									
					OFF	0									
				Heated seat switch	1 (Min. temperature)	12.24									
			Input		2	12.33									
67 (L)	Ground	Heated seat switch signal			3	12.49									
(L)					4	12.63									
											5	12.76			
											6 (Max. temperature)	12.90			
68		Seat cushion heater pow-			Operate	0 – Battery voltage									
(R/W)	Ground	er supply	Output	Heated seat	Other than the above	0									
					OFF	0									
			Innut	eat sensor signal Input										1 (Min. temperature)	10.87 – 11.02*
							2	10.93 – 11.07*							
69 (R)	Ground	d Heat sensor signal			Heated seat switch	3	11.04 – 11.17*								
(13)				Switch	4	11.13 – 11.26*									
					5	11.22 – 11.34*									
					6 (Max. temperature)	11.31 – 11.43*									

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



< ECU DIAGNOSIS INFORMATION >





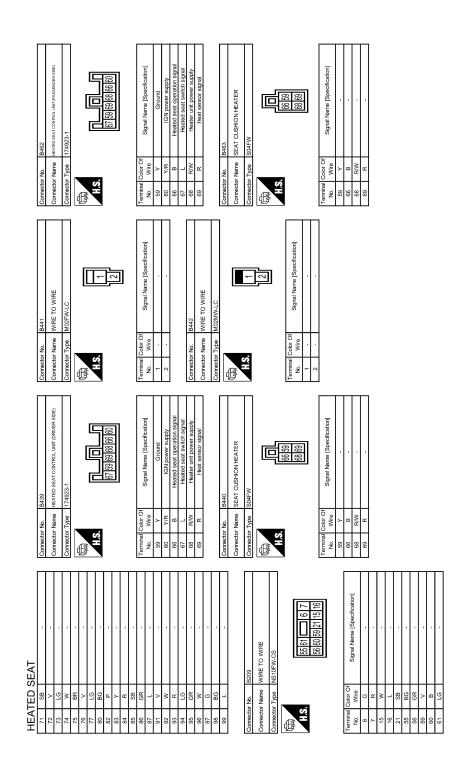
*: This connector is not shown in "Harness Layout".

< ECU DIAGNOSIS INFORMATION >

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< ECU DIAGNOSIS INFORMATION >



JRJWC5579GB

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HEATED SEAT Connector No. B464 Connector Name WIRE TO WIRE Connector Type MOSFW-LC	Terminal No. Color Vice Signal Name [Specification] 1 - - 2 - - Connector Name Nice Nice B465 Connector Name Nice Nice Diagonal Nice Mice Diagonal Nice Mice No Nice Signal Name [Specification]	

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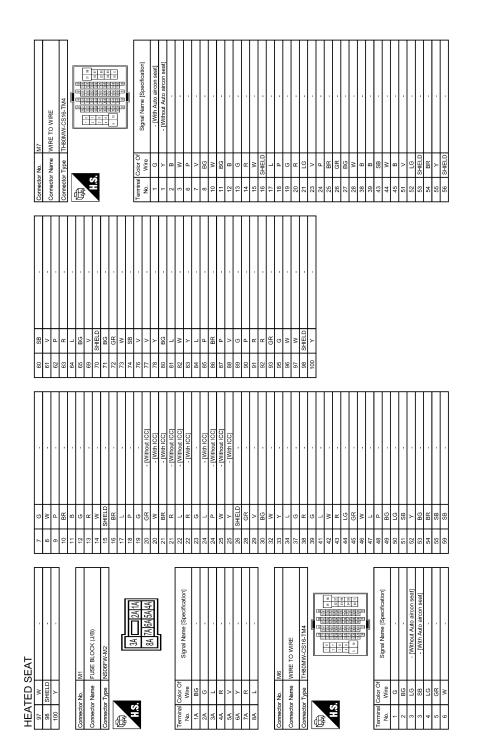
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HEATED SEAT CONTROL UNIT < ECU DIAGNOSIS INFORMATION >

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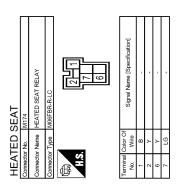
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< ECU DIAGNOSIS INFORMATION >



JRJWC5583GB

CLIMATE CONTROLLED SEAT DOES NOT OPERATE. < SYMPTOM DIAGNOSIS > SYMPTOM DIAGNOSIS А CLIMATE CONTROLLED SEAT DOES NOT OPERATE. BOTH SIDES В BOTH SIDES : Diagnosis Procedure INFOID:000000010584564 1. CHECK CLIMATE CONTROLLED CONTROL UNIT POWER SUPPLY AND GROUND CIRCUIT Check climate controlled control unit power supply and ground circuit. Refer to SE-17, "CLIMATE CONTROLLED SEAT CONTROL UNIT : Diagnosis Procedure". D Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. Ε 2. CONFIRM THE OPERATION Confirm the operation again. Is the inspection result normal? YES >> Check intermittent incident. Refer to GI-47, "Intermittent Incident". >> GO TO 1. NO DRIVER SIDE DRIVER SIDE : Diagnosis Procedure INFOID:0000000010584565 Н 1. CHECK CLOMATE CONTROLLED SEAT CONTROL UNIT POWER SUPPLY CIRCUIT Check climate controlled seat control unit power supply circuit. Refer to SE-17, "CLIMATE CONTROLLED SEAT CONTROL UNIT : Diagnosis Procedure". Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. SE 2.CHECK CLIMATE CONTROLLED SEAT SWITCH Check climate controlled seat switch. Κ Refer to SE-22, "Component Function Check". Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts. 3.CHECK CLIMATE CONTROLLED SEAT BLOWER MOTOR Check climate controlled seat blower motor. M Refer to SE-33, "Component Function Check". Is the inspection result normal? YES >> GO TO 4. Ν NO >> Repair or replace the malfunctioning parts. 4.CONFIRM THE OPERATION Confirm the operation again. Is the inspection result normal? YES >> Check intermittent incident. Refer toGI-47. "Intermittent Incident". Ρ >> GO TO 1. NO PASSENGER SIDE **PASSENGER SIDE : Diagnosis Procedure** INFOID:000000010584566 1. CHECK CLIMATE CONTROLLED SEAT CONTROL UNIT POWER SUPPLY AND GROUND CIRCUIT Check climate controlled seat control unit power supply circuit.

CLIMATE CONTROLLED SEAT DOES NOT OPERATE.

< SYMPTOM DIAGNOSIS >

Refer to SE-17, "CLIMATE CONTROLLED SEAT CONTROL UNIT : Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CHECK CLIMATE CONTROLLED SEAT SWITCH

Check climate controlled seat switch.

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

 $\mathbf{3}$. Check climate controlled seat blower motor

Check climate controlled seat blower motor. Refer to <u>SE-33</u>, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to <u>GI-47, "Intermittent Incident"</u>.

NO >> GO TO 1.

CLIMATE CONTROLLED SEAT BLOWER MOTOR SPEED CANNOT ADJUST.

< SYMPTOM DIAGNOSIS >

CLIMATE CONTROLLED SEAT BLOWER MOTOR SPEED CANNOT AD-JUST.

Diagnosis Procedure	¹⁵⁶⁷ B
1. CHECK CLIMATE CONTROLLED SEAT BLOWER FILTER	D
Check climate controlled seat blower filter. Refer to <u>SE-39, "Diagnosis Procedure"</u> .	С
Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts.	D
2. CHECK CLIMATE CONTROLLED SEAT SWITCH	
Check climate controlled seat switch. Refer to <u>SE-22, "Component Function Check"</u> .	E
<u>Is the inspection result normal?</u> YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts.	F
3. CHECK CLIMATE CONTROLLED SEAT BLOWER MOTOR	0
Check climate controlled seat blower motor. Refer to <u>SE-33, "Component Function Check"</u> .	— G
<u>Is the inspection result normal?</u> YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts.	Η
4.CONFIRM THE OPERATION	
Confirm the operation again.	
<u>Is the inspection result normal?</u> YES >> Check intermittent incident. Refer to <u>GI-47, "Intermittent Incident"</u> . NO >> GO TO 1.	SE
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CLIMATE CONTROLLED SEAT DOES NOT OPERATES WHEN SWITCH IS DONE IN HEAT OR COOL.

< SYMPTOM DIAGNOSIS >

CLIMATE CONTROLLED SEAT DOES NOT OPERATES WHEN SWITCH IS DONE IN HEAT OR COOL.

Diagnosis Procedure

INFOID:000000010584568

1. CHECK CLIMATE CONTROLLED SEAT SWITCH

Check climate controlled seat switch. Refer to <u>SE-22</u>, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-47. "Intermittent Incident".

NO >> GO TO 1.

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TION STOP AT NOSE.	
< SYMPTOM DIAGNOSIS >	
WHEN THE CLIMATE CONTROLLED SEAT SWITCH IS TURNED ON, OP-	А
ERATION STOP AT NOSE.	1
Diagnosis Procedure	В
1. CHECK CLIMATE CONTROLLED SEAT BLOWER FILTER	
Check climate controlled seat blower filter.	С
Refer to <u>SE-39, "Diagnosis Procedure"</u> . <u>Is the inspection result normal?</u>	
YES >> GO TO 2.	
NO >> Repair or replace the malfunctioning parts.	D
2. CHECK SEAT CUSHION THERMAL ELECTRIC DEVICE SENSOR	
Check seat cushion thermal electric device sensor. Refer to <u>SE-31</u> , "Diagnosis Procedure".	Е
Is the inspection result normal?	
YES >> GO TO 3.	F
NO >> Repair or replace the malfunctioning parts.	
3. CHECK SEAT CUSHION THERMAL ELECTRIC DEVICE	G
Check seat cushion thermal electric device. Refer to <u>SE-29, "Component Function Check"</u> .	
Is the inspection result normal?	Н
YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts.	
4. CHECK SEATBACK THERMAL ELECTRIC DEVICE SENSOR	
	I
Check seatback thermal electric device sensor. Refer to <u>SE-27, "Diagnosis Procedure"</u> .	
	SE
YES >> GO TO 5.	
NO >> Repair or replace the malfunctioning parts.	V
5. CHECK SEATBACK THERMAL ELECTRIC DEVICE	Κ
Check seatback thermal electric device.	
Refer to <u>SE-25, "Component Function Check"</u> . <u>Is the inspection result normal?</u>	L
YES >> GO TO 6.	
NO >> Repair or replace the malfunctioning parts.	M
6.CHECK CLIMATE CONTROLLED BLOWER MOTOR	
Check climate controlled blower motor. Refer to <u>SE-33</u> , "Component Function Check".	Ν
Is the inspection result normal?	
YES >> GO TO 7.	~
NO >> Repair or replace the malfunctioning parts.	0
CONFIRM THE OPERATION	
Confirm the operation again.	Ρ
Is the inspection result normal?	
 YES >> Check intermittent incident. Refer to <u>GI-47, "Intermittent Incident"</u>. NO >> GO TO 1. 	

SEAT SWITCH INDICATOR DOES NOT OPERATE IN HEAT OR COOL POSI-TION

< SYMPTOM DIAGNOSIS >

SEAT SWITCH INDICATOR DOES NOT OPERATE IN HEAT OR COOL PO-SITION

Diagnosis Procedure

INFOID:000000010584570

1. CHECK CLIMATE CONTROLLED SEAT SWITCH INDICATOR

Check climate controlled seat indicator. Refer to <u>SE-36</u>, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.confirm the operation

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-47. "Intermittent Incident".

NO >> GO TO 1.

HEATED SEAT DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >	
HEATED SEAT DOES NOT OPERATE	
BOTH SIDES	А
BOTH SIDES : Diagnosis Procedure	В
1.CHECK HEATED SEAT SWITCH POWER SUPPLY	
Check heated seat switch power supply. Refer to <u>SE-16, "HEATED SEAT SWITCH : Diagnosis Procedure"</u> .	С
Is the inspection result normal?	
YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts.	D
2.CHECK HEATED SEAT RELAY	
Check heated seat relay. Refer to <u>SE-44, "Component Function Check"</u> .	Ε
Is the inspection result normal?	
YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts.	F
3. CHECK HEATED SEAT CONTROL UNIT POWER SUPPLY AND GROUND CIRCUIT	
Check heated seat switch power supply and ground circuit.	G
Refer to <u>SE-14, "HEATED SEAT CONTROL UNIT : Diagnosis Procedure"</u> . Is the inspection result normal?	
YES >> GO TO 4.	Η
NO >> Repair or replace the malfunctioning parts.	
4.CONFIRM THE OPERATION	
Confirm the operation again.	
<u>Is the inspection result normal?</u> YES >> Check intermittent incident. Refer to <u>GI-47</u> , "Intermittent Incident".	SE
NO >> GO TO 1.	
DRIVER SIDE	
DRIVER SIDE : Diagnosis Procedure	K
1.CHECK HEATED SEAT SWITCH POWER SUPPLY	L
Check heated seat switch power supply.	
Refer to <u>SE-16, "HEATED SEAT SWITCH : Diagnosis Procedure"</u> . Is the inspection result normal?	M
YES >> GO TO 2.	101
NO >> Repair or replace the malfunctioning parts.	
2. CHECK HEATED SEAT CONTROL UNIT POWER SUPPLY AND GROUND CIRCUIT	Ν
Check heated seat switch power supply and ground circuit. Refer to <u>SE-14, "HEATED SEAT CONTROL UNIT : Diagnosis Procedure"</u> .	0
Is the inspection result normal?	0
YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts.	
3. CHECK HEATED SEAT SWITCH	Ρ
Check heated seat switch.	
Refer to <u>SE-40, "DRIVER SIDE : Component Function Check"</u> .	
Is the inspection result normal?	
YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts.	

HEATED SEAT DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

4.CHECK SEAT CUSHION HEATER

Check seat cushion heater.

Refer to <u>SE-51, "DRIVER SIDE : Component Function Check"</u>.

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to <u>GI-47, "Intermittent Incident"</u>.

NO >> GO TO 1.

PASSENGER SIDE

PASSENGER SIDE : Diagnosis Procedure

1.CHECK HEATED SEAT SWITCH POWER SUPPLY

Check heated seat switch power supply. Refer to <u>SE-16, "HEATED SEAT SWITCH : Diagnosis Procedure"</u>.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

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

Check heated seat switch power supply and ground circuit. Refer to SE-14, "HEATED SEAT CONTROL UNIT : Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK HEATED SEAT SWITCH

Check heated seat switch.

Refer to <u>SE-41, "PASSENGER SIDE : Component Function Check"</u>.

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.CHECK SEAT CUSHION HEATER

Check seat cushion heater.

Refer to SE-52, "PASSENGER SIDE : Component Function Check".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to <u>GI-47, "Intermittent Incident"</u>.

NO >> GO TO 1.

INFOID:000000010584573

SEATBACK HEATER ONLY DOES NOT OPERATE		
SYMPTOM DIAGNOSIS > SEATBACK HEATER ONLY DOES NOT OPERATE		
DRIVER SIDE		
DRIVER SIDE : Diagnosis Procedure		
	INFOID:000000010584574	
1.CHECK SEATBACK HEATER		
Check seatback heater. Refer to <u>SE-55</u> , "DRIVER SIDE : Component Function Check".		
Is the inspection result normal?		
YES >> GO TO 2.		
NO >> Repair or replace the malfunctioning parts.		
2.CONFIRM THE OPERATION		
Confirm the operation again.		
<u>Is the inspection result normal?</u> YES >> Check intermittent incident. Refer to <u>GI-47, "Intermittent Incident"</u> .		
NO >> GO TO 1.		
PASSENGER SIDE		
PASSENGER SIDE : Diagnosis Procedure	INFOID:000000010584575	
1.CHECK SEATBACK HEATER		
Check seatback heater. Refer to SE-55, "PASSENGER SIDE : Component Function Check".		
Is the inspection result normal?		
YES >> GO TO 2.		
NO >> Repair or replace the malfunctioning parts. 2.CONFIRM THE OPERATION		
Confirm the operation again. <u>Is the inspection result normal?</u>		
YES >> Check intermittent incident. Refer to <u>GI-47, "Intermittent Incident"</u> .		
NO $>>$ GO TO 1.		

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CANNOT ADJUST HEATED SEAT TEMPERATURE

< SYMPTOM DIAGNOSIS >

CANNOT ADJUST HEATED SEAT TEMPERATURE DRIVER SIDE

INFOID:000000010584576

1.CHECK HEATED SEAT SWITCH

Check heated seat switch. Refer to <u>SE-40, "DRIVER SIDE : Component Function Check"</u>.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CHECK HEAT SENSOR

Check heat sensor. Refer to <u>SE-46, "DRIVER SIDE : Description"</u>.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to <u>GI-47, "Intermittent Incident"</u>.

NO >> Replace heated seat control unit. Refer to <u>SE-150, "Removal and Installation"</u>.

PASSENGER SIDE

PASSENGER SIDE : Diagnosis Procedure

1.CHECK HEATED SEAT SWITCH

Check heated seat switch.

Refer to SE-41, "PASSENGER SIDE : Component Function Check".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK HEAT SENSOR

Check heat sensor.

Refer to SE-48, "PASSENGER SIDE : Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to <u>GI-47, "Intermittent Incident"</u>.

NO >> Replace heated seat control unit. Refer to <u>SE-150, "Removal and Installation"</u>.

HEATED SEAT SWITCH INDICATOR DOES NOT THRN ON

HEATED SEAT SWITCH INDICATOR DOES NOT TURN ON	
< SYMPTOM DIAGNOSIS >	
HEATED SEAT SWITCH INDICATOR DOES NOT TURN ON	А
DRIVER SIDE	A
DRIVER SIDE : Diagnosis Procedure	В
1.CHECK HEATED SEAT SWITCH INDICATOR	
Check heated seat switch indicator. Refer to <u>SE-57, "DRIVER SIDE : Component Function Check"</u> .	С
Is the inspection result normal?	
YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts.	D
2. CONFIRM THE OPERATION	
Confirm the operation again.	E
Is the inspection result normal?	
YES >> Check intermittent incident. Refer to <u>GI-47, "Intermittent Incident"</u> .	_
NO >> GO TO 1. PASSENGER SIDE	F
PASSENGER SIDE : Diagnosis Procedure	G
1.CHECK HEATED SEAT SWITCH INDICATOR	
Check heated seat switch indicator. Refer to <u>SE-58, "PASSENGER SIDE : Component Function Check"</u> .	Н
Is the inspection result normal?	
YES >> GO TO 2.	
NO >> Repair or replace the malfunctioning parts.	
2.CONFIRM THE OPERATION	SE
Confirm the operation again.	
<u>Is the inspection result normal?</u> YES >> Check intermittent incident. Refer to <u>GI-47, "Intermittent Incident</u> ".	К
NO $>>$ GO TO 1.	n.
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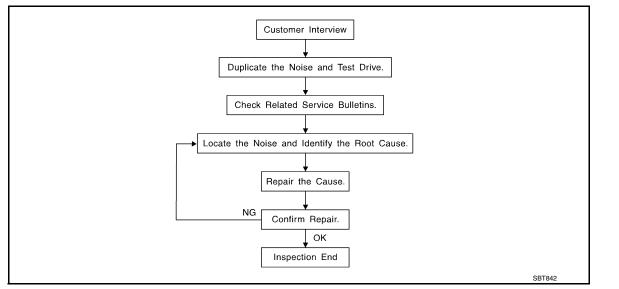
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< SYMPTOM DIAGNOSIS >

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 customer's comments; refer to <u>SE-116</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, perform a diagnosis and repair the noise that the customer is concerned about. This can be accomplished by performing a cruise test on the vehicle with the customer.
- After identifying the type of noise, isolate the noise in terms of its characteristics. The noise characteristics are provided so the customer, service adviser and technician are all speaking the same language when defining the noise.
- Squeak (Like tennis shoes on a clean floor)
 Squeak characteristics include the light contact/fast movement/brought on by road conditions/hard surfaces
 = higher pitch noise/softer surfaces = lower pitch noises/edge to surface = chirping
- Creak (Like walking on an old wooden floor)
 Creak characteristics include firm contact/slow movement/twisting with a rotational movement/pitch dependent on materials/often brought on by activity.
- Rattle (Like shaking a baby rattle) Rattle characteristics include the fast repeated contact/vibration or similar movement/loose parts/missing clip or fastener/incorrect clearance.
- Knock (Like a knock on a door)
 Knock characteristics include hollow sounding/sometimes repeating/often brought on by driver action.
- Tick (Like a clock second hand) Tick characteristics include gentle contacting of light materials/loose components/can be caused by driver action or road conditions.
- Thump (Heavy, muffled knock noise) Thump characteristics include softer knock/dead sound often brought on by activity.
- Buzz (Like a bumblebee) Buzz characteristics include high frequency rattle/firm contact.
- Often the degree of acceptable noise level will vary depending up on the person. A noise that a technician may judge as acceptable may be very irritating to the customer.
- Weather conditions, especially humidity and temperature, may have a great effect on noise level.

DUPLICATE THE NOISE AND TEST DRIVE

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

< SYMPTOM DIAGNOSIS >

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

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

CHECK RELATED SERVICE BULLETINS

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

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

LOCATE THE NOISE AND IDENTIFY THE ROOT CAUSE

- 1. Narrow down the noise to a general area. To help pinpoint the source of the noise, use a listening tool (Chassis ear: J-39570, Engine ear and mechanics stethoscope).
- 2. Narrow down the noise to a more specific area and identify the cause of the noise by:
- Removing the components in the area that is are suspected to be the cause of the noise.
 Do not use too much force when removing clips and fasteners, otherwise clips and fastener can be broken or lost during the repair, resulting in the creation of new noise.
- Tapping or pushing/pulling the component that is are suspected to be the cause of the noise.
 Do not tap or push/pull the component with excessive force, otherwise the noise will be eliminated only temporarily.
- Feeling for a vibration by hand by touching the component(s) that is are suspected to be the cause of the noise.
- Placing a piece of paper between components that are suspected to be the cause of the noise.
- Looking for loose components and contact marks. Refer to SE-114, "Inspection Procedure".

REPAIR THE CAUSE

- If the cause is a loose component, tighten the component securely.
- If the cause is insufficient clearance between components:
- Separate components by repositioning or loosening and retightening the component, if possible.
- Insulate components with a suitable insulator such as urethane pads, foam blocks, felt cloth tape or urethane tape. A Nissan Squeak and Rattle Kit (J-50397) is available through the authorized Nissan Parts Department.

CAUTION:

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

М Always check with the Parts Department for the latest parts information. The following materials are contained in the Nissan Squeak and Rattle Kit (J-50397). Each item can be ordered separately as needed. URETHANE PADS [1.5 mm (0.059 in) thick] Ν Insulates connectors, harness, etc. 76268-9E005: 100 \times 135 mm (3.94 \times 5.31 in)/76884-71L01: 60 \times 85 mm (2.36 \times 3.35 in)/76884-71L02:15 \times 25 mm (0.59 \times 0.98 in) INSULATOR (Foam blocks) Insulates components from contact. Can be used to fill space behind a panel. 73982-9E000: 45 mm (1.77 in) thick, 50 \times 50 mm (1.97 \times 1.97 in)/73982-50Y00: 10 mm (0.39 in) thick, 50 \times 50 mm (1.97 \times 1.97 in) Ρ INSULATOR (Light foam block) 80845-71L00: 30 mm (1.18 in) thick, 30×50 mm (1.18 \times 1.97in) FELT CLOTHTAPE Used to insulate where movement does not occur. Ideal for instrument panel applications. 68370-4B000: 15 × 25 mm (0.59 × 0.98 in) pad/68239-13E00: 5 mm (0.20 in) wide tape roll The following materials, not found in the kit, can also be used to repair squeaks and rattles.

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UHMW (TEFLON) TAPE

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< SYMPTOM DIAGNOSIS >

Insulates where slight movement is present. Ideal for instrument panel applications. SILICONE GREASE Used in place of UHMW tape that is be visible or does not fit. Will only last a few months. SILICONE SPRAY Used when grease cannot be applied. DUCT TAPE Used to eliminate movement.

CONFIRM THE REPAIR

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

Inspection Procedure

INFOID:000000010584581

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

INSTRUMENT PANEL

Most incidents are caused by contact and movement between:

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

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

CAUTION:

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

CENTER CONSOLE

Components to pay attention to include:

- 1. Shifter assembly cover to finisher
- 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 from the Nissan Squeak and Rattle Kit (J-50397) to repair the noise.

TRUNK

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

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

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< SYMPTOM DIAGNOSIS > Most of these incidents can be repaired by adjusting

< STMPTOM DIAGNOSIS >
Most of these incidents can be repaired by adjusting, securing or insulating the item(s) or component(s) causing the noise.
SUNROOF/HEADLINING
Noises in the sunroof/headlining area can often be traced to one of the following:
1. Sunroof lid, rail, linkage or seals making a rattle or light knocking noise
2. Sunvisor shaft shaking in the holder
Front or rear windshield touching headlining and squeaking
Again, pressing on the components to stop the noise while duplicating the conditions can isolate most of these incidents. Repairs usually consist of insulating with felt cloth tape.
SEATS
When isolating seat noise it's important to note the position the seats in and the load placed on the seat when the noise occurs. These conditions should be duplicated when verifying and isolating the cause of the noise. Cause of seat noise include:
1. Headrest rods and holder
2. A squeak between the seat pad cushion and frame
3. The rear seatback lock and bracket
These noises can be isolated by moving or pressing on the suspected components while duplicating the con-
ditions under which the noise occurs. Most of these incidents can be repaired by repositioning the component
or applying urethane tape to the contact area.
JNDERHOOD
Some interior noise may be caused by components under the hood or on the engine wall. The noise is then
ransmitted into the passenger compartment.
Causes of transmitted underhood noise include:
1. Any component mounted to the engine wall
2. Components that pass through the engine wall
3. Engine wall mounts and connectors
4. Loose radiator mounting pins
5. Hood bumpers out of adjustment
6. Hood striker out of adjustment
These noises can be difficult to isolate since they cannot be reached from the interior of the vehicle. The best method is to secure, move or insulate one component at a time and test drive the vehicle. Also, engine RPM or load can be changed to isolate the noise. Repairs can usually be made by moving, adjusting, securing, or poulating the point.
nsulating the component causing the noise.

< SYMPTOM DIAGNOSIS >

Diagnostic Worksheet



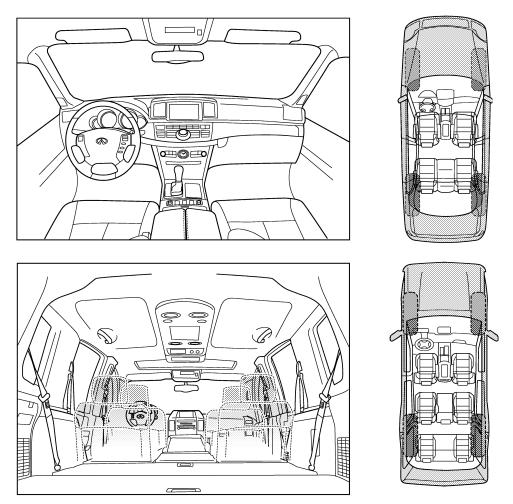
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

Dear Infiniti Customer:

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

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

The illustrations are for reference only, and may not reflect the actual configuration of your vehicle.



Continue to page 2 of the worksheet and briefly describe the location of the noise or rattle. In addition, please indicate the conditions which are present when the noise occurs.

< SYMPTOM DIAGNOSIS >

Briefly describe the location where the n	noise occurs:
I. WHEN DOES IT OCCUR? (please ch	heck the boxes that apply)
anytime	after sitting out in the rain
1st time in the morning	when it is raining or wet
only when it is cold outside	dry or dusty conditions
only when it is hot outside	☐ other:
II. 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)
\Box 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 m	
after driving miles or m	
after driving miles or m	P PERSONNEL
after driving miles or m	P PERSONNEL
☐ after driving miles or m	P PERSONNEL YES NO Initials of person performing
after driving miles or m	P PERSONNEL YES NO Initials of person performing
after driving miles or m TO BE COMPLETED BY DEALERSHIF Test Drive Notes: /ehicle test driven with customer - Noise verified on test drive - Noise source located and repaired - Follow up test drive performed to confi	P PERSONNEL YES NO Initials of person performing Image: Image of the system Image of the system Image of the system Image of the system Image of the system Image of the system Image of the system Image of the system Image of
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after driving miles or m O BE COMPLETED BY DEALERSHIF est Drive Notes: Cehicle test driven with customer Noise verified on test drive Noise source located and repaired Follow up test drive performed to confin IN:	P PERSONNEL

< 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 "SRS AIR BAG" and "SEAT BELT" of this Service Manual.

WARNING:

Always observe the following items for preventing accidental activation.

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

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

WARNING:

Always observe the following items for preventing accidental activation.

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

Precautions for Removing Battery Terminal

 When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.
 NOTE:

ECU may be active for several tens of seconds after the ignition switch is turned OFF. If the battery terminal is removed before ECU stops, then a DTC detection error or ECU data corruption may occur.

• For vehicles with the 2-batteries, be sure to connect the main battery and the sub battery before turning ON the ignition switch. **NOTE:**

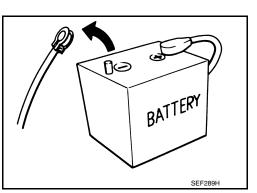
If the ignition switch is turned ON with any one of the terminals of main battery and sub battery disconnected, then DTC may be detected.

After installing the 12V battery, always check "Self Diagnosis Result" of all ECUs and erase DTC.
 NOTE:

The removal of 12V battery may cause a DTC detection error.

Service Notice

- When removing or installing various parts, place a cloth or padding onto the vehicle body to prevent scratches.
- Handle trim, molding, instruments, grille, etc. carefully during removing or installing. Be careful not to oil or damage them.



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

Precaution for Work

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

Then dip a cloth into fresh water, and wring the water out of the cloth to wipe the detergent off. Then rub with a soft and dry cloth.

- Never use organic solvent such as thinner, benzene, alcohol, and gasoline.
- For genuine leather seats, use a genuine leather seat cleaner.

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PREPARATION

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PREPARATION PREPARATION

Special Service Tool

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

Tool number (Kent-Moore No.) Tool name		Description
(J39570) Chassis ear	SIIA0993E	Locates the noise
(J-50397) NISSAN Squeak and Rattle Kit	SIIA0994E	Repairs the cause of noise
Commercial Service To	ol	INFOID:000000010584587
Tool name		Description
Engine ear	SIIA0995E	Locates the noise
Remover tool	JMKIA3050ZZ	Removes clips, pawls and metal clips

< PREPARATION > CLIP LIST

Clip List

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				E
Shapes	Removal & Installation	Shapes	Removal & Installation	
\$ \$ \$	Removal: Remove by bending up with flat-bladed screwdrivers or clip remover.	Clip A Clip B	Removal: Finisher Clip A	(
T TT SI	Removal: Remove with a clip remover.	Clip A Clip B (Grommet)	Removal: Flat-bladed screwdriver Body panel Clip B	F
	Removal: Installation: Push center pin to catching position. Installation: (Do not remove center pin by hitting it.) Push Push Installation:		Removal: Holder portion of clip must be spread out to remove rod.	(
	Removal: Remove by bending up with		Removal: 1. Screw out with a Phillips screwdriver.	S
	flat-bladed screwdrivers or clip remover.		2. Remove female portion with flat-bladed screwdriver.	5
	Removal:		Removal: Installation: Rotate 45° to remove.	
\forall			Removal:	
	Removal:		Removal:	
			JMJIA3734GB	

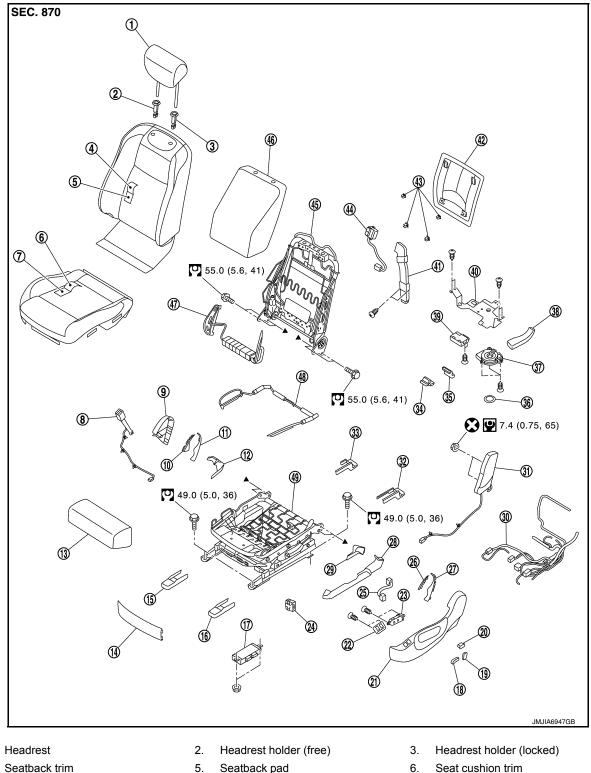
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< REMOVAL AND INSTALLATION > **REMOVAL AND INSTALLATION**

FRONT SEAT

Exploded View

DRIVER SEAT



7. Seat cushion pad

1.

4.

- 8. Seat belt buckle
- 9. Seat cushion inner finisher outside

SE-122

< REMOVAL AND INSTALLATION >

10.	Seat cushion inner finisher inside (front)	11.	Seat cushion inner finisher inside (rear)	12.	Seat cushion inner lower finisher	А
13.	Seat cushion pad (front)	14.	Seat cushion front finisher	15.	Front inner slide cover	
16.	Front outer slide cover	17.	Seat control unit	18.	Seat slide and lifter switch knob	
19.	Seat reclining switch knob	20.	Lumbar support switch	21.	Seat cushion outer finisher outside	В
22.	Slide support switch	23.	Seat control switch	24.	Heated seat control unit	
25.	Seat switch harness	26.	Seat cushion outer finisher inside (front)	27.	Seat cushion outer finisher inside (rear)	С
28.	Seat cushion outer lower finisher (outside)	29.	Seat cushion outer lower finisher (inside)	30.	Seat harness	
31.	Side air bag module	32.	Rear outer slide cover	33.	Rear inner slide cover	D
34.	Seat cushion thermal electric device	35.	Seat cushion duct A	36.	Blower filter	
37.	Climate controlled seat blower motor	38.	Seat cushion duct B	39.	Climate controlled seat control unit	
40.	Climate unit bracket	41.	Seatback duct	42.	Seatback board	Е
43.	Clip	44.	Seatback thermal electric device	45.	Seatback frame	
46.	Seatback silencer	47.	Seatback side support bag and unit	48.	Seat cushion side support bag	
49.	Seat cushion frame					F
\bigotimes	: Always replace after every disassen	nbly.				
()	∶ N·m (kg-m, ft-lb)					G
Ŷ	∶ N·m (kg-m, in-lb)					0
▲:	Indicates that the part is connected at	point	s with same symbol in actual vehicle			Н
PASS	ENGER SEAT					11

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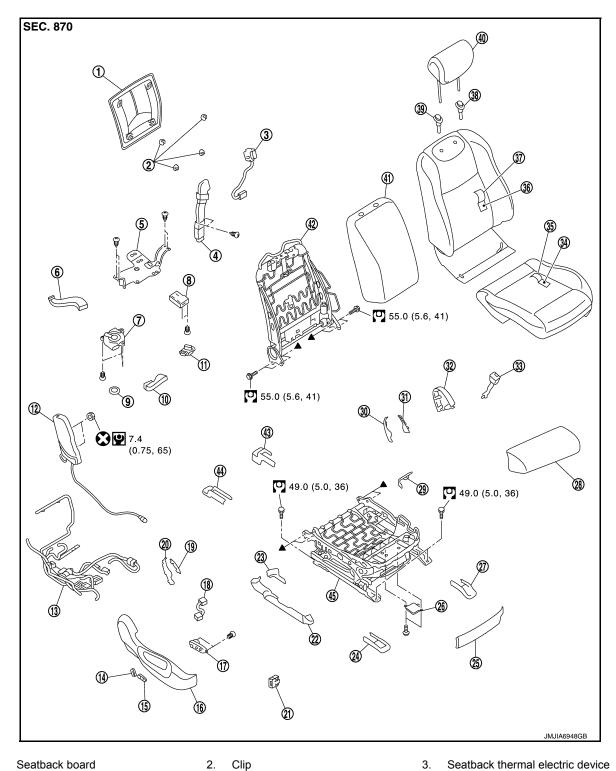
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< REMOVAL AND INSTALLATION >



- 1. Seatback board
- Seatback duct 4.
- 7. Climate controlled seat blower motor 8.
- 10. Seat cushion duct A
- 13. Seat harness
- 16. Seat cushion outer finisher outside
- 19. Seat cushion outer finisher inside (front)
- 22. Seat cushion outer lower finisher (outside)

- Clip
- 5. Climate unit bracket
 - Climate controlled seat control unit
- Seat cushion thermal electric device 12. 11.
- 14. Seat reclining switch knob
- 17. Seat control switch
- 20. Seat cushion outer finisher inside (rear)
- 23. Seat cushion outer lower finisher (in- 24. Front outer slide cover side)

- Seatback thermal electric device
- 6. Seat cushion duct B
- 9. Blower filter
 - Side air bag module
- 15. Seat slide and lifter switch knob
- 18. Seat switch harness
- 21. Heated seat control unit

< REMOVAL AND INSTALLATION >

25.	Seat cushion front finisher	26.	Occupant detection system control unit	27.	Front inner slide cover	А
28.	Seat cushion pad (front)	29.	Seat cushion inner lower finisher	30.	Seat cushion inner finisher inside (rear)	
31.	Seat cushion inner finisher inside (front)	32.	Seat cushion inner finisher outside	33.	Seat belt buckle	В
34.	Seat cushion pad	35.	Seat cushion trim	36.	Seatback pad	
37.	Seatback trim	38.	Headrest holder (locked)	39.	Headrest holder (free)	С
40.	Headrest	41.	Seatback silencer	42.	Seatback frame	0
43.	Rear inner slide cover	44.	Rear outer slide cover	45.	Seat cushion frame	
⊗	: Always replace after every disasser	nbly.				D
0	: N·m (kg-m, ft-lb)					
Ŷ	: N·m (kg-m, in-lb)					Е
▲:	Indicates that the part is connected at	point	ts with same symbol in actual vehicle			
Rem	oval and Installation				INFOID:000000010584590	F

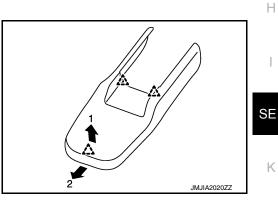
REMOVAL

CAUTION:

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

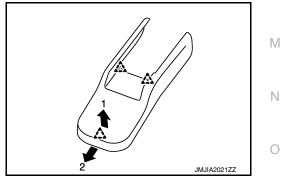
- 1. Remove the headrest.
- 2. Remove the front outer slide cover.
- a. Slide the seat to the rear-most position.
- b. Pull up the front edge of the front outer slide cover to release the pawls.
- c. Slide the front outer slide cover forward to release the pawls.

2 : Pawl



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

2 : Pawl



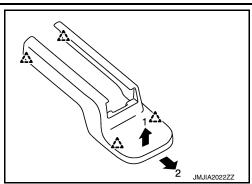
- 4. Remove the mounting bolts on the front side of the front seat.
- 5. Remove the rear outer slide cover.

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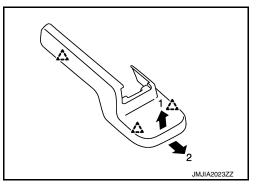
< REMOVAL AND INSTALLATION >

- a. Slide the seat to the front-most position.
- b. Pull up the rear edge of the rear outer slide cover to release the pawls.
- c. Slide the rear outer slide cover to release the pawls.



- 6. Remove the rear inner slide cover.
- a. Slide the seat to the front-most position.
- b. Pull up the rear edge of the rear inner slide cover to release the pawls.
- c. Slide the rear inner slide cover rearward to release the pawls.

Pawl : Pawl



- 7. Remove the mounting bolts on the rear side of the front seat.
- 8. Set seatback in a standing position.
- 9. Disconnect harness connector under the seat and remove harness securing clips. CAUTION:

Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait for 3 minutes or more.

- 10. Remove seat from the vehicle. CAUTION:
 - When removing and installing, use shop cloths to protect parts from damage.
 - When removing and installing, 2 workers are required so as to prevent it from dropping.

INSTALLATION

Note the following items, and then install in the reverse order of removal. **CAUTION:**

- Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait for 3 minutes or more.
- Clamp the harness in position.
- NOTE:
- After installing the front seat, perform additional service when removing battery negative terminal (automatic drive positioner model only). Refer to <u>ADP-8</u>, "<u>ADDITIONAL SERVICE WHEN REMOVING BATTERY NEG-</u> <u>ATIVE TERMINAL : Special Repair Requirement</u>".
- After installing the passenger seat, perform zero point reset. Refer to <u>SRC-6</u>, "ZERO POINT RESET : <u>Special Repair Requirement</u>".

Disassembly and Assembly

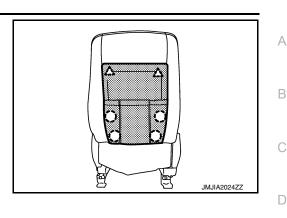
SEATBACK

Disassembly

1. Remove the seatback board.

< REMOVAL AND INSTALLATION >

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



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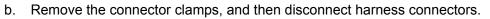
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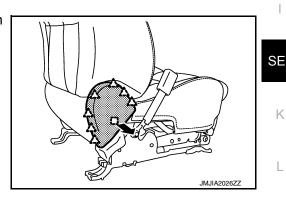
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- 2. Remove the seat cushion outer finisher.
- a. Remove the clip, metal clips and pawls, and then pull out seat cushion outer finisher.
 - (^ˆ) : Clip
 <u>^</u>: Pawl
 [^ˆ] : Metal clip

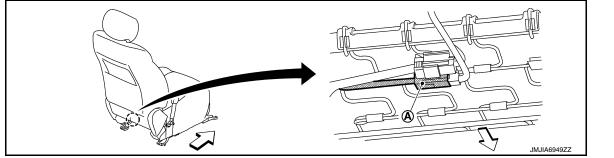


- 3. Remove the seat cushion outer finisher inside (front and rear).
- 4. Remove the seat cushion inner finisher. Remove the metal clip and pawls, and then pull out seat cushion inner finisher.

<u>^</u>	: Pawl
[]]	: Metal clip



- 5. Remove the seat cushion inner finisher inside (front and rear).
- 6. Remove the seatback trim retainer and seatback trim band from seat cushion frame.
- 7. Disconnect the seatback heater unit harness connector (A).



⟨□ : Vehicle front

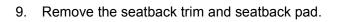
8. Remove the seatback assembly.

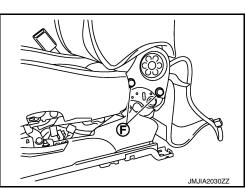
< REMOVAL AND INSTALLATION >

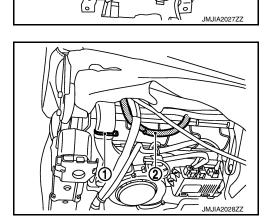
a. Remove the side air bag module harness (A).

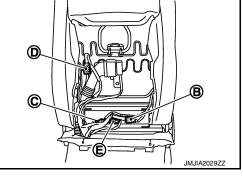
- b. Cut the seatback duct band (1) of seat cushion under side.
- c. Disconnect the side support air hose joint (2).

- d. Disconnect the reclining motor harness connector (B).
- e. Disconnect the lumbar support unit harness connector (C).
- f. Disconnect the side support unit harness connector (D).
- g. Disconnect the seatback thermal electric device harness connector (E).
- h. Pull out harness from the seatback trim and seat cushion trim.
- i. Remove the seatback assembly mounting bolts (F).



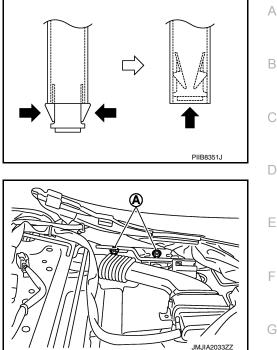






< REMOVAL AND INSTALLATION >

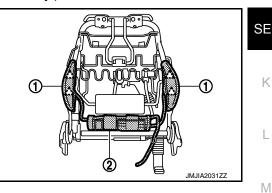
 a. Remove the headrest holder.
 CAUTION:
 Before installing headrest holder check its orientation. (front/rear and right/left)



b. Remove the side air bag module mounting nuts (A).

- c. Remove the seatback trim and seatback pad from the seatback frame.
- d. Remove the side air bag module.
- e. Remove the hog rings, and separate the seatback trim and seatback pad.
- 10. Remove the seatback silencer.
- 11. Remove the seatback side support bag and unit. (Side support model only.)
- a. Remove the pawls, and then remove side support bag (1).
- b. Remove the side support unit (2).

2 : Pawl



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Assembly

Note the following item, and assemble in the reverse order of disassembly.

CAUTION:

Install the hog rings of seatback trim in position, and then securely connect the trim or trim cord with $^{\rm N}$ the pad side wire.

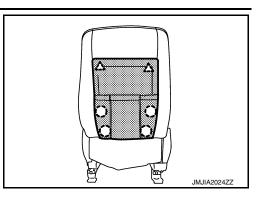
SEAT CUSHION

Disassembly

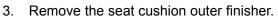
1. Remove the seatback board.

< REMOVAL AND INSTALLATION >

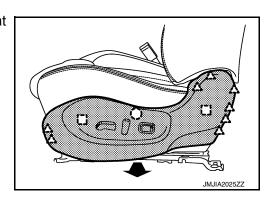
- a. Remove the clips, and then pull out seatback board.
- b. Pull down the seatback board to release the upper pawls.



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



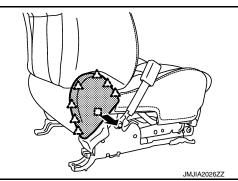
- a. Remove the clip, metal clips and pawls, and then pull out seat cushion outer finisher.



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- b. Remove the connector clamps, and then disconnect harness connectors.
- 4. Remove the seat cushion outer finisher inside (front and rear).
- Remove the seat cushion inner finisher. Remove the metal clip and pawls, and then pull out seat cushion inner finisher.

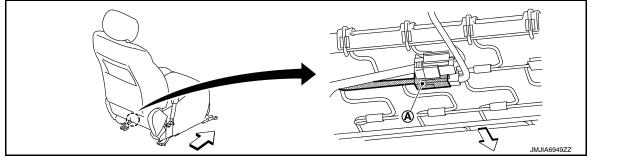
$\hat{\Delta}$: Pawl
[]]	: Metal clip



- 6. Remove the seat cushion inner finisher inside (front and rear).
- 7. Remove the seatback trim retainer and seatback trim band from seat cushion frame.

< REMOVAL AND INSTALLATION >

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



- 9. Remove the seatback assembly.
- a. Remove the side air bag module harness (A).

- b. Cut the seatback duct band (1) of seat cushion under side.
- c. Disconnect the side support air hose joint (2).

- d. Disconnect the reclining motor harness connector (B).
- e. Disconnect the lumbar support unit harness connector (C).
- f. Disconnect the side support unit harness connector (D).
- g. Disconnect the thermal electric device harness connector (E).

h. Pull out harness from the seatback trim and seat cushion trim.

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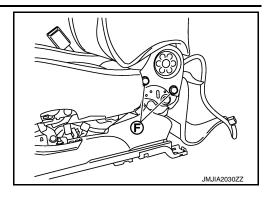
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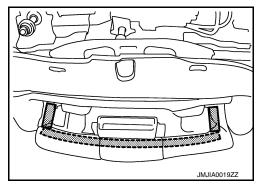
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< REMOVAL AND INSTALLATION >

i. Remove the seatback assembly mounting bolts (F).

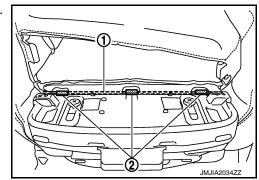


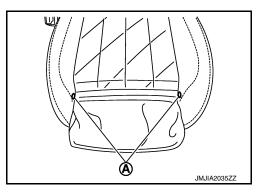
- 10. Remove the seat belt buckle. Refer to SB-8, "SEAT BELT BUCKLE : Removal and Installation".
- 11. Remove the seat cushion pad (front). (Thigh extension model only.)
- a. Remove the retainer.
- b. Remove the seat cushion pad (front).



- 12. Remove the seat cushion trim and seat cushion pad.
- a. Remove the seat cushion trim wire (1) from the hooks (2). (Thigh extension model only.)

b. Remove the clips (A). (Thigh extension model only.)

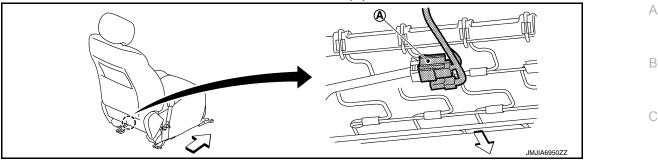




c. Remove the seat cushion retainer.

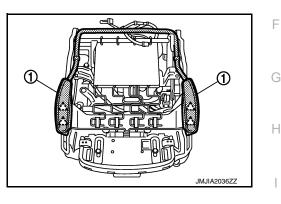
< REMOVAL AND INSTALLATION >

d. Disconnect the seat cushion heater unit harness connector (A).



- e. Remove the hog rings, and separate the seat cushion trim and seat cushion pad.
- 13. Remove the seat cushion side support bag. (Side support model only.)
- a. Remove the hose clamp.
- b. Remove the pawls, and then remove side support bag (1).

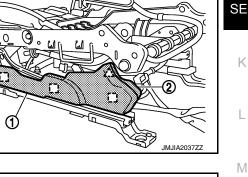
A : Pawl

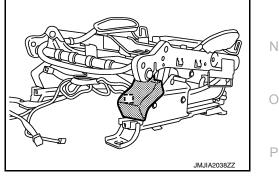


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- 14. Remove the metal clips and pawl, and then pull out seat cushion outer lower finisher outside (1) and inside (2).
- 15. Remove the seat cushion inner lower finisher.
 - : Metal clip





- 16. Remove the driver seat control unit (Automatic drive positioner model only). Refer to <u>ADP-216, "Removal</u> <u>and Installation"</u>.
- 17. Remove the occupant detection system control unit. Refer to SR-28. "Removal and Installation".
- 18. Remove the heated seat control unit. Refer to <u>SE-150, "Removal and Installation"</u>.

Assembly

< REMOVAL AND INSTALLATION >

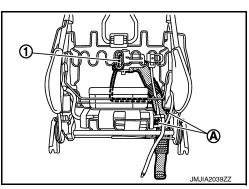
Note the following item, and assemble in the reverse order of disassembly. CAUTION: Install the hog rings of seat cushion trim in position, and then securely connect

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

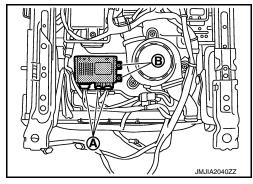
CLIMATE CONTROLLED SEAT UNIT

Disassembly

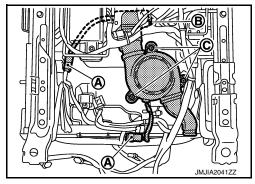
1. Remove the seatback duct and seatback thermal electric device. Remove the screws (A), and then cut the band (1).



- 2. Remove the climate controlled seat control unit.
- a. Disconnect the harness connectors (A).
- b. Remove the climate controlled seat control unit fixing screws (B).



- 3. Remove the seat cushion duct, seat cushion thermal electric device and climate controlled seat blower motor.
- a. Disconnect the harness connectors (A).
- b. Remove the thermal electric device fixing screw (B).
- c. Remove the climate controlled seat blower motor fixing screws (C).

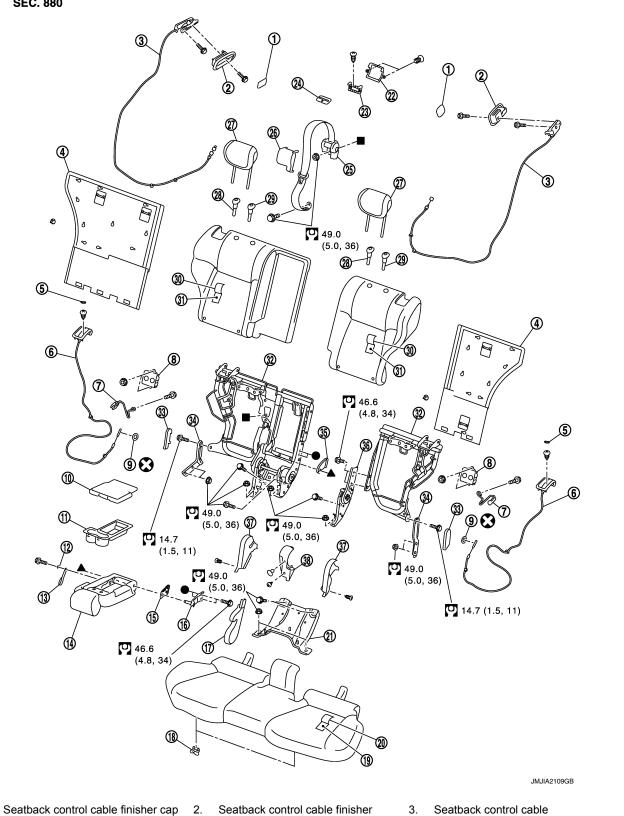


Assembly Assemble in the reverse order of disassembly.

REAR SEAT

Exploded View

SEC. 880



- 1.
- 4. Seatback board
- Seat belt hook 7.

- 5. Reclining lever knob cap 8. Dynamic damper
 - - **SE-135**

6.

9.

Push nut

Reclining lever knob assembly

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REAR SEAT

14. Armrest pad and frame assembly

26. Center seat belt retractor cover

38. Reclining device inner cover inside

17. Rear center device cover

23. Seat belt guide (lower)

29. Headrest holder (locked)

35. Armrest hinge cover LH

20. Seat cushion trim

32. Seatback frame

12. Spacer

27. Headrest

15. Armrest hinge cover RH

21. Rear center back bracket

33. Seatback hinge outer cover

18. Seat cushion hook

24. Seat belt finisher

36. Reclining device LH

30. Seatback trim

< REMOVAL AND INSTALLATION >

- 10. Armrest lid assembly
- 13. Armrest strap
- 16. Armrest bracket
- 19. Seat cushion pad
- 22. Seat belt guide (upper)
- 25. Center seat belt retractor
- 28. Headrest holder (free)
- 31. Seatback pad
- 34. Seatback hinge37. Reclining device inner cover
- : Always replace after every disassembly.
- : N·m (kg-m, ft-lb)

●, ▲, ■ : Indicates that the part is connected at points with same symbol in actual vehicle

11. Cup holder

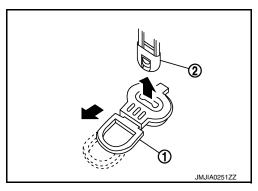
Removal and Installation

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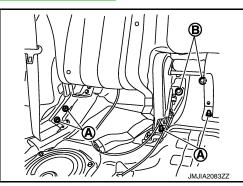
REMOVAL

CAUTION:

- When removing and installing, use shop cloths to protect parts from damage.
- Always remove seat back while the reclining device is in the locked condition. Never release the locked condition after removing seat back.
- 1. Remove the seat cushion.
- a. Pull the lock lever (1) at the front bottom of the seat cushion forward (1 for each side), and pull the seat cushion upward to release the wire (2) from the seat cushion hook. Then pull the seat cushion forward the remove
- b. Remove the seat cushion from vehicle.



- 2. Remove the seatback RH.
- a. Remove the rear seat belt inner anchor. Refer to <u>SB-11</u>, "SEAT BELT RETRACTOR : Removal and Installation".
- b. Remove the LATCH system. Refer to SB-17, "Removal and Installation".
- c. Remove the seatback control cable RH. Refer to <u>SE-143, "Removal and Installation"</u>.
- d. Remove the mounting nuts (A) and bolt (B).



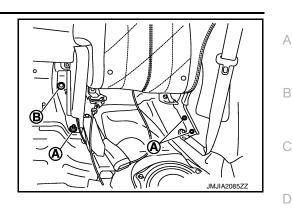
- 3. Remove the seatback LH.
- a. Remove the LATCH system. Refer to SB-17, "Removal and Installation".
- b. Remove the seatback control cable LH. Refer to SE-143, "Removal and Installation".

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SE-136

< REMOVAL AND INSTALLATION >

c. Remove the mounting nuts (A) and bolt (B).



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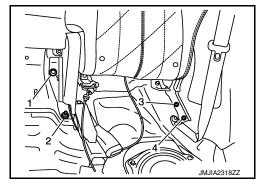
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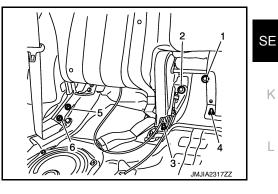
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INSTALLATION

- CAUTION:
- When removing and installing, use shop cloths to protect parts from damage.
- · Always remove seat back while the reclining device is in the locked condition. Never release the locked condition after removing seat back.
- 1. Install the seatback LH mounting bolt (1) and nuts (2), (3), (4).

2. Install the seatback RH mounting bolts (1), (2) and nuts (3), (4) (5), (6).





- Install the seatback control cable. Refer to <u>SE-143, "Removal and Installation"</u>.
- 4. Install the seat cushion.

Disassembly and Assembly

SEATBACK

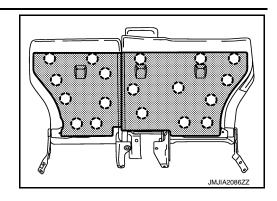
Disassembly

1. Remove the seatback board.

< REMOVAL AND INSTALLATION >

Remove the clips.

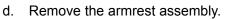
(_) : Clip



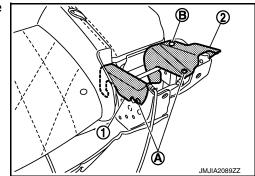
- 2. Remove the armrest assembly. (RH seat only)
- a. Remove the hog rings, and then pull the seatback trim.
- b. Remove the metal clips and pawl, and then pull out armrest bracket cover.

<u>^</u>	: Pawl
[]]	: Metal clip

c. Remove the mounting bolts (A), and then remove the armrest bracket (1).



3. Remove the reclining device cover. Remove the screws (A) and clip (B), and then reclining device inner cover (1) and reclining device inner cover inside (2).



4. Remove the reclining lever knob assembly.

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REAR SEAT

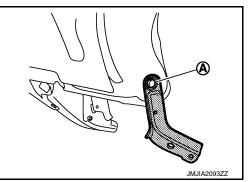
< REMOVAL AND INSTALLATION >

a. Remove the push nut (1), cable resin part (2) and cable clamp (3).

b. Remove the hog rings (A) and cable clamp.

- c. Remove the reclining lever knob cap.
- d. Remove the screw (B), and then remove reclining knob lever assembly (4).

- 5. Remove the seatback trim and pad.
- a. Remove the seatback hinge outer cover.
- b. Remove the mounting bolt (A) and then remove seatback hinge.



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- c. Remove the hog rings from back side.
- d. Remove the seatback retainer.
- e. Remove the seat belt finisher. Refer to SB-11, "SEAT BELT RETRACTOR : Removal and Installation".

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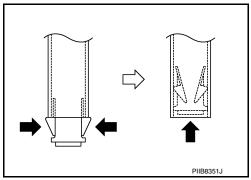
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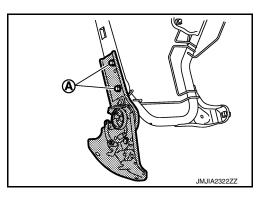
B

< REMOVAL AND INSTALLATION >

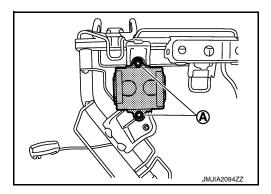
 f. Remove the headrest holder.
 CAUTION: Before installing headrest holder check its orientation. (front/rear and right/left)



- g. Remove the seatback trim and pad.
- h. Remove the hog rings to separate the seatback trim and seatback pad.
- Remove the reclining device LH. (LH seat only) Remove the mounting bolts (A), and then remove reclining device LH.



7. Remove the dynamic damper. Remove the dynamic damper mounting nuts (A).

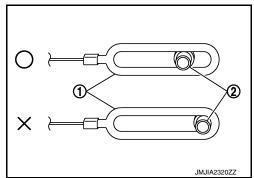


- 8. Remove the seat belt hook.
- 9. Remove the rear center seat belt retractor. Refer to <u>SB-11, "SEAT BELT RETRACTOR : Removal and Installation"</u>.

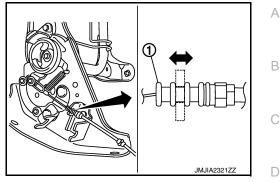
Assembly

Assemble in the reverse order of disassembly. **CAUTION:**

• Always slacken cable end and link pin when installing reclining lever knob cable.



• Always install in the position that the reclining device lock can be released, because cable resin part is adjustable (3 stages).



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

SEAT CUSHION

Disassembly

Remove the hog rings to separate the trim and pad.

Assembly

Assemble in the reverse order of disassembly.

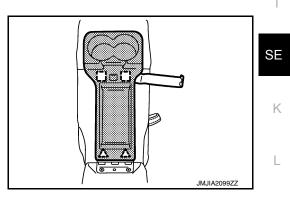
CAUTION:

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

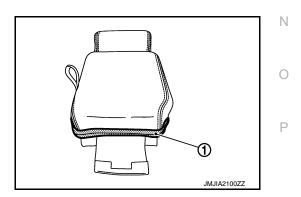
ARMREST

Disassembly

- 1. Remove the cup holder. Remove the metal clips and pawls.
 - · . Pawl □ . Metal clip



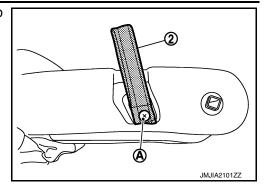
- 2. Remove the armrest lid assembly. Remove the fixing screw.
- 3. Remove the armrest strap.
- a. Open the fastener (1), and then pull up armrest trim.



REAR SEAT

< REMOVAL AND INSTALLATION >

b. Remove the mounting bolt (A), and then remove armrest strap (2).



Assembly Assemble in the reverse order of disassembly.

SEATBACK CONTROL CABLE

< REMOVAL AND INSTALLATION >

SEATBACK CONTROL CABLE

Exploded View

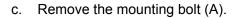
Refer to SE-135, "Exploded View".

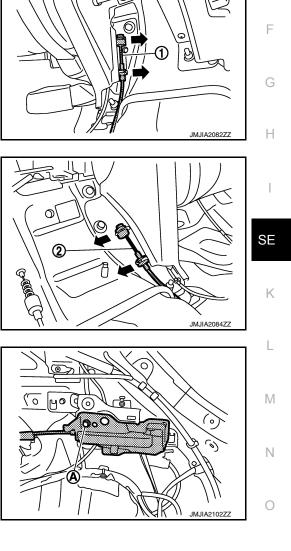
Removal and Installation

REMOVAL

- 1. Remove the seat cushion assembly. Refer to <u>SE-136, "Removal and Installation"</u>.
- 2. Remove the seatback control cable finisher. Refer to INT-31, "Removal and Installation".
- 3. Remove the luggage side finisher. Refer to INT-31, "Removal and Installation".
- 4. Remove the seatback control cable.
- a. Remove the seatback control cable RH (1).

b. Remove the seatback control cable LH (2).





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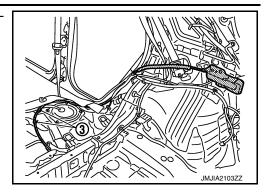
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SEATBACK CONTROL CABLE

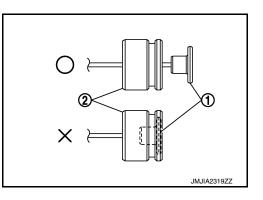
< REMOVAL AND INSTALLATION >

d. Remove the cable clamps (3), and then remove seatback control cable.



INSTALLATION Install in the reverse order of removal. CAUTION:

Always slacken cable end and cable clamp when installing seat back control cable.



POWER SEAT SWITCH

< REMOVAL AND INSTALLATION >

POWER SEAT SWITCH

Exploded View

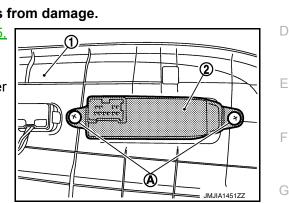
Refer to SE-122, "Exploded View".

Removal and Installation

REMOVAL

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

- 1. Remove the seat cushion outer finisher (1). Refer to <u>SE-125.</u> <u>"Removal and Installation"</u>.
- 2. Remove the screws (A).
- 3. Remove the power seat switch (2) from the seat cushion outer finisher.



INSTALLATION Install in the reverse order of removal. CAUTION: Be careful to clamp the harness to the right place.

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LUMBAR SUPPORT SWITCH

< REMOVAL AND INSTALLATION >

LUMBAR SUPPORT SWITCH

Exploded View

Refer to SE-122, "Exploded View".

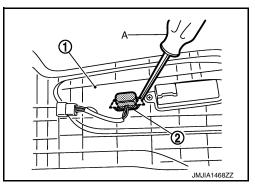
Removal and Installation

REMOVAL CAUTION:

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

- 1. Remove the seat cushion outer finisher (1). Refer to SE-125, "Removal and Installation".
- 2. Remove the lumbar support switch (2) from the seat cushion outer finisher with remover tool (A).

2 : Pawl



INSTALLATION Install in the reverse order of removal. CAUTION: Be careful to clamp the harness to the right place. INFOID:000000010584599

SIDE SUPPORT SWITCH

< REMOVAL AND INSTALLATION >

SIDE SUPPORT SWITCH

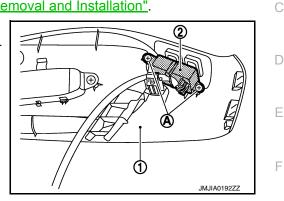
Removal and Installation

REMOVAL

CAUTION:

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

- 1. Remove the seat cushion outer finisher (1). Refer to SE-125, "Removal and Installation".
- 2. Remove the screws (A).
- 3. Remove side support switch (2) from the seat cushion outer finisher.



INSTALLATION Install in the reverse order of removal. CAUTION: • Clamp the harness in position.

NOTE:

After installing the driver seat, perform additional service when removing battery negative terminal. Refer to ADP-8, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Description".

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CLIMATE CONTROLLED SEAT SWITCH

< REMOVAL AND INSTALLATION >

CLIMATE CONTROLLED SEAT SWITCH

Exploded View

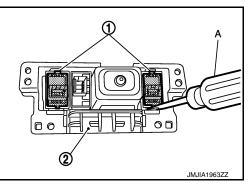
Refer to IP-23, "Exploded View".

Removal and Installation

REMOVAL

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

- 1. Remove the console upper finisher, console finisher assembly, cup holder assembly and console switch finisher. Refer to <u>IP-23</u>, "Removal and Installation"
- 2. Climate controlled seat switch (1) is removed from console switch finisher (2) using remover tool (A).



INSTALLATION Install in the reverse order of removal. INFOID:000000010584602

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Revision: 2015 February

CLIMATE CONTROLLED SEAT BLOWER FILTER

< REMOVAL AND INSTALLATION >

CLIMATE CONTROLLED SEAT BLOWER FILTER

Exploded View

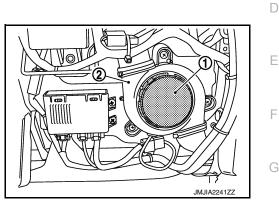
Refer to SE-122, "Exploded View".

Removal and Installation

REMOVAL CAUTION:

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

- 1. Disconnect seat cushion rear fixing belt.
- 2. Turn blower filter (1) counter clockwise and remove it from climate controlled seat blower motor (2).



INSTALLATION Install in the reverse order of removal.

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HEATED SEAT CONTROL UNIT

< REMOVAL AND INSTALLATION >

HEATED SEAT CONTROL UNIT

Exploded View

Refer to SE-122, "Exploded View".

Removal and Installation

REMOVAL

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

- 1. Remove the front seat.
- 2. Disconnect heated seat control unit connector.
- 3. Remove the heated seat control unit from the heated seat control unit stay. Refer to <u>SE-125, "Removal</u> <u>and Installation"</u>.

INSTALLATION Install in the reverse order of removal. CAUTION: Always clamp the harness to the right place. INFOID:000000010584606

HEATED SEAT SWITCH

< REMOVAL AND INSTALLATION >

HEATED SEAT SWITCH

Exploded View

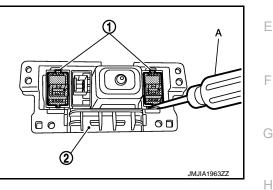
Refer to IP-23, "Exploded View".

Removal and Installation

REMOVAL CAUTION:

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

- Remove the console upper finisher, console finisher assembly, cup holder assembly and console switch finisher. Refer to <u>IP-23</u>, "Removal and Installation".
- Heated seat switch (1) is removed from console switch finisher (2) using remover tool (A).



INSTALLATION Install in the reverse order of removal.

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