SECTION SE
SEAT

CONTENTS

BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

INFOID:0000000003842663

DETAILED FLOW

1.OBTAIN INFORMATION ABOUT SYMPTOM

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

>> GO TO 2.

2.REPRODUCE THE MALFUNCTION INFORMATION

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

>> GO TO 3.

3.IDENTIFY THE MALFUNCTIONING SYSTEM WITH “SYMPTOM DIAGNOSIS”

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

>> GO TO 4.

4.IDENTIFY THE MALFUNCTIONING PARTS WITH “COMPONENT DIAGNOSIS”

Perform the diagnosis with “Component diagnosis” of the applicable system.

>> GO TO 5.

5.REPAIR OR REPLACE THE MALFUNCTIONING PARTS

Repair or replace the specified malfunctioning parts.

>> GO TO 6.

6.FINAL CHECK

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

Are the malfunctions corrected?

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

SYSTEM DESCRIPTION

POWER SEAT

System Description

INFOID:0000000003842664

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

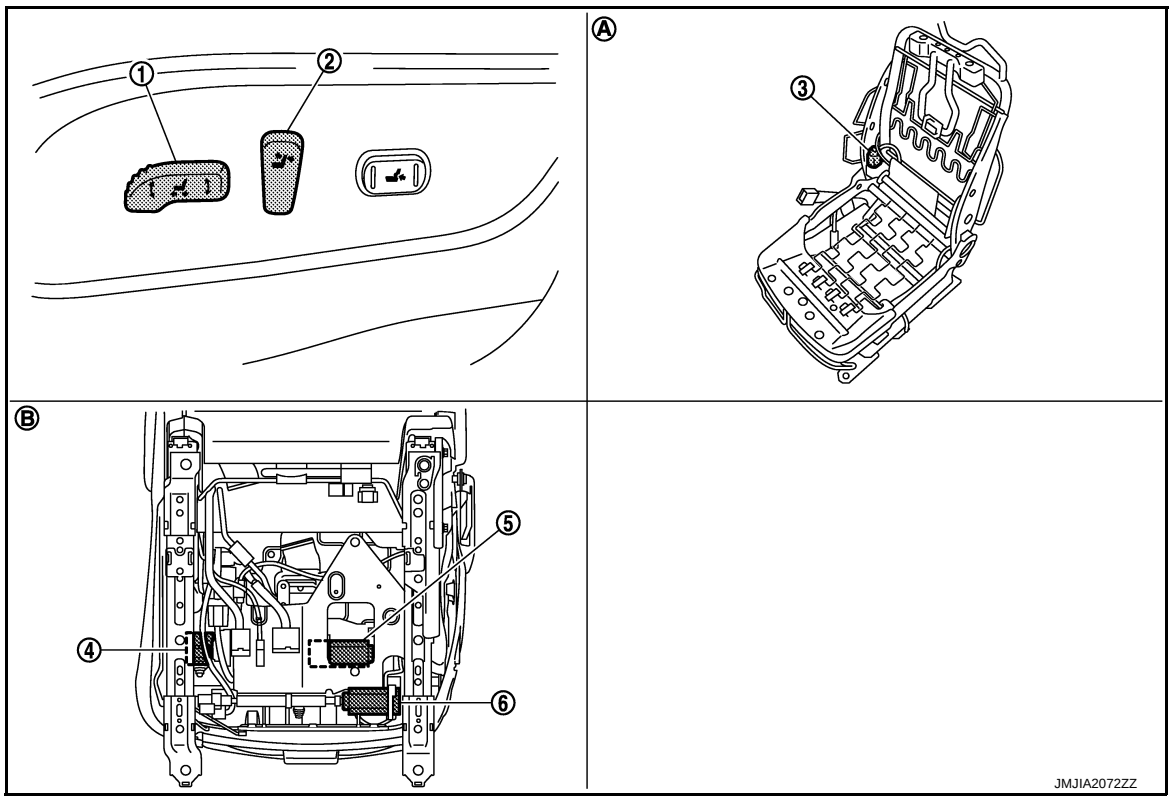
While operating the reclining switch located in power seat switch, reclining motor operates and makes the seat back forward and backward position adjustment possible.

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:0000000003842665



1. Sliding switch and lifting switch (driver side) B414
2. Reclining switch (driver side) B414
3. Reclining motor (driver side) B415
4. Lifting motor (rear) (driver side) B418
5. Lifting motor (front) (driver side) B417
6. Sliding motor (driver side) B416

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

Component Description

INFOID:0000000003842666

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

SIDE SUPPORT

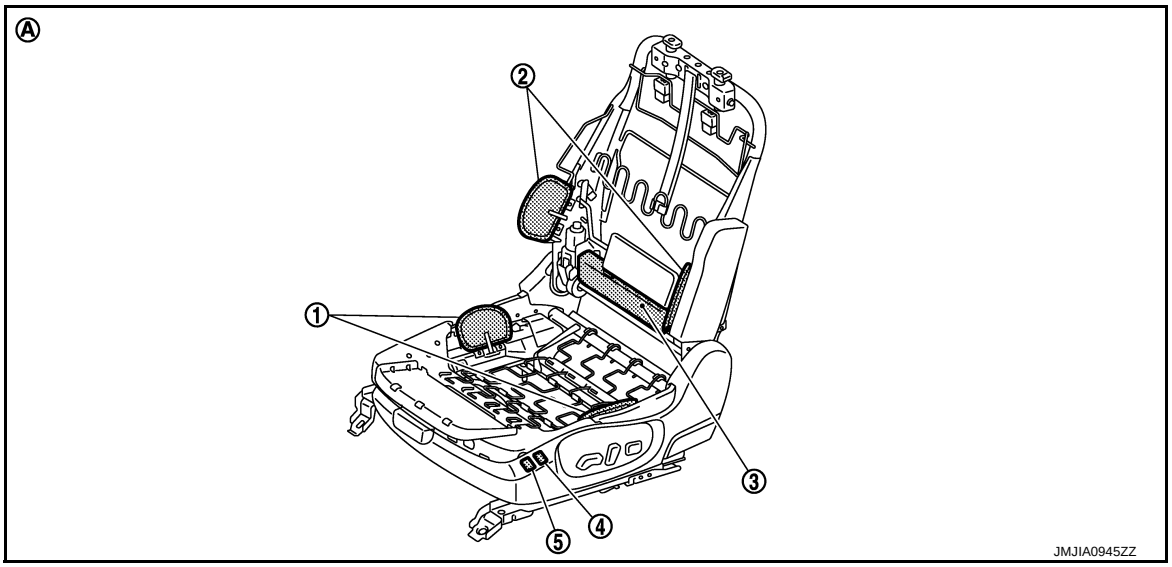
System Description

INFOID:0000000003843267

- 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

INFOID:0000000003843268



1. Side support (seat cushion) (Side support unit B467)
2. Side support (seat back) (Side support unit B467)
3. Side support unit B467
4. Side support switch (seat back side) B464
5. Side support switch (cushion side) B464

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

Component Description

INFOID:0000000003843269

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.

LUMBAR SUPPORT

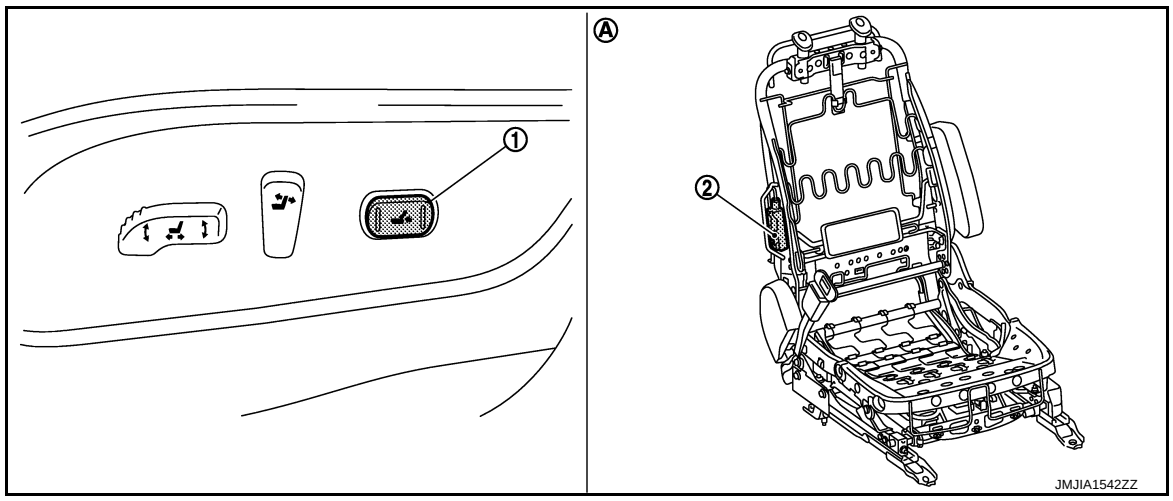
System Description

INFOID:0000000003842670

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

Component Parts Location

INFOID:0000000003842671



1. Lumbar support switch B457
2. Lumbar support motor B458

A. View with seat back pad removed

Component Description

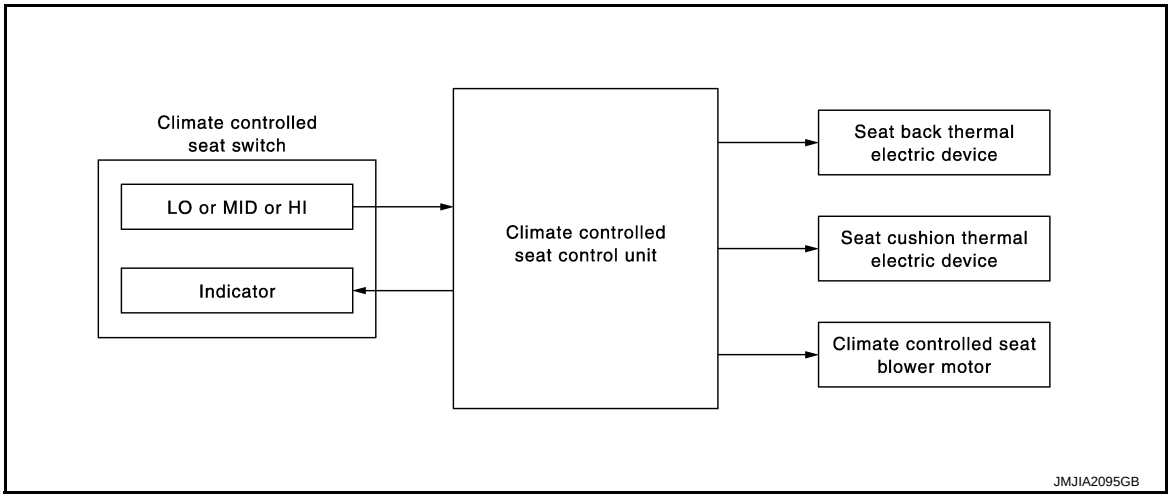
INFOID:0000000003842672

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

CLIMATE CONTROLLED SEAT

System Diagram

INFOID:0000000003900695



System Description

INFOID:0000000003843271

- 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:

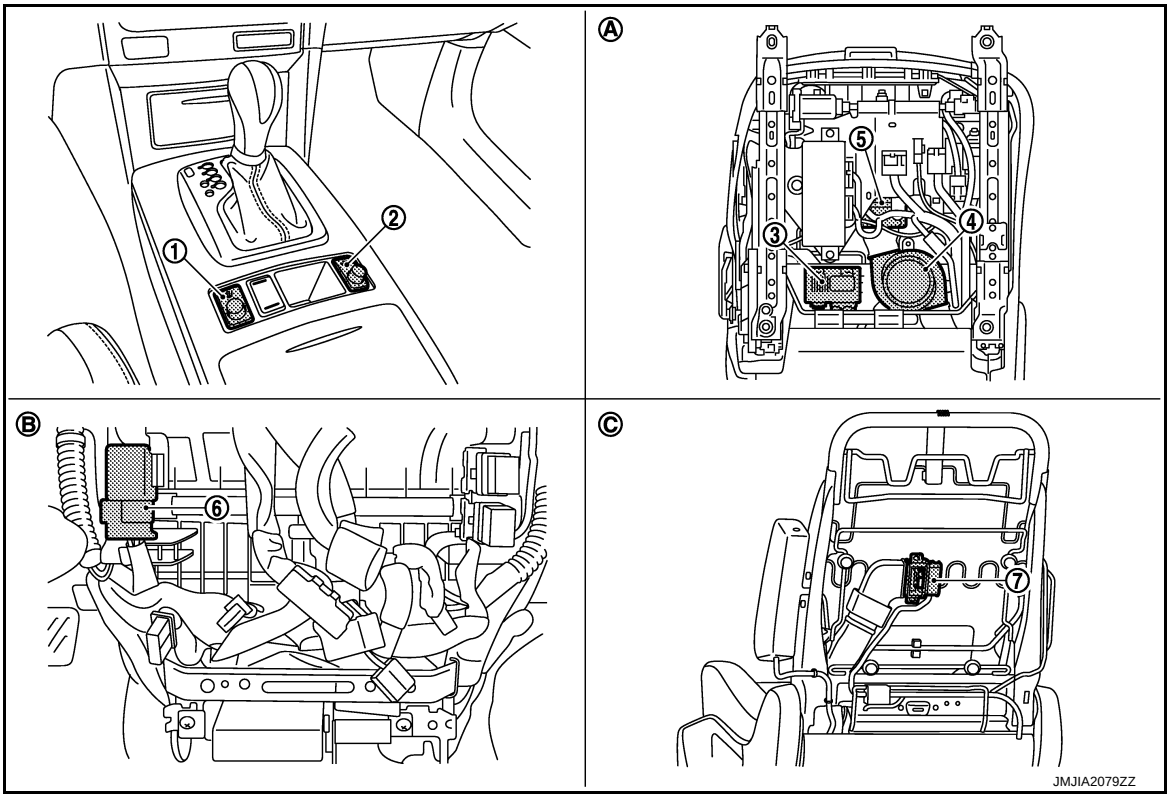
- **The thermal electric device has a dual-climate function that allows one side to operate at a high temperature and the other to operate at a low temperature simultaneously.**
- **Before starting the work, always turn OFF the switch and check that the themal electric device is cold.**

FAIL-SAFE

The fail-safe function is adopted for the climate controlled seat control unit.Refer to SE-52, "Fail-safe".

Component Parts Location

INFOID:0000000003843270



1. Climate controlled seat switch (driver side) M177
2. Climate controlled seat switch (passenger side) M178
3. Climate controlled seat control unit (driver side) B507,B508,B509
4. Climate controlled seat brower motor (driver side) B506
5. Seat cushion thermal electric device (driver side) B505
6. Climate controlled seat relay M64
7. Seatback thermal electric device (driver side) B504

Component Description

INFOID:0000000003843291

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

DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT

CLIMATE CONTROLLED SEAT CONTROL UNIT

CLIMATE CONTROLLED SEAT CONTROL UNIT : Diagnosis Procedure

INFOID:0000000003842680

Driver side

1.CHECK FUSE

Check that the following fuses are not fusing.

Signal name	Fuse No.
Battery power supply	63 (15A)
IGN power supply	3 (10A)

Is the fuse fusing?

YES >> Replace the blown fuse after repairing the affected circuit if a fuse is blown.
NO >> GO TO 2.

2.CHECK CLIMATE CONTROLLED SEAT CONTROL UNIT POWER SUPPLY

1. Turn ignition switch OFF.
2. Disconnect climate controlled seat control unit (driver side) connector.
3. Turn ignition switch ON.
4. Check voltage between climate controlled seat control unit (driver side) harness connector and ground.

(+)		(–)	Voltage (Approx.)
Climate controlled seat control unit (driver side)			
Connector	Terminal		
B508	55	Ground	Battery voltage
B509	70		

Is the measurement value normal?

YES >> GO TO 3.
NO >> GO TO 4.

3.CHECK GROUND CIRCUIT

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

Climate controlled seat control unit (driver side)		Ground	Continuity
Connector	Terminal		
B509	56		Existed

Does continuity exist?

YES >> INSPECTION END
NO >> Repair or replace harness or connector.

4.CHECK CLIMATE CONTROLLED SEAT CONTROL UNIT POWER SUPPLY CIRCUIT 1

1. Turn ignition switch OFF.
2. Disconnect climate controlled seat relay.
3. 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	
B508	55	M64	6	Existed
B509	70			

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

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

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 controlled seat relay		Ground	
Connector	Terminal		
M64	2		Battery voltage
	7		

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-13, "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 controlled seat relay		Ground	Continuity
Connector	Terminal		
M64	1		Existed

Does continuity exist?

YES >> GO TO 8.
NO >> Repair or replace harness.

8. CHECK INTERMITTENT INCIDENT

Refer to GI-35, "Intermittent Incident".

>> INSPECTION END

Passenger side

1. CHECK FUSE

Check that the following fuses are not fusing.

Signal name	Fuse No.
Battery power supply	62 (15A)
IGN power supply	3 (10A)

Is the fuse fusing?

YES >> Replace the blown fuse after repairing the affected circuit if a fuse is blown.
NO >> GO TO 2.

2.CHECK CLIMATE CONTROLLED SEAT CONTROL UNIT POWER SUPPLY

1. Turn ignition switch OFF.
2. Disconnect climate controlled seat control unit (passenger side) connector.
3. Turn ignition switch ON.
4. Check voltage between climate controlled seat control unit (passenger side) harness connector and ground.

(+)		(–)	Voltage (Approx.)
Climate controlled seat control unit (passenger side)			
Connector	Terminal		
B518	55	Ground	Battery voltage
B519	70		

Is the measurement value normal?

YES >> GO TO 3.
NO >> GO TO 4.

3.CHECK GROUND CIRCUIT

Check continuity between harness connector and ground.

Climate controlled seat control unit (passenger side)		Ground	Continuity
Connector	Terminal		
B519	56		Existed

Does continuity exist?

YES >> INSPECTION END
NO >> Repair harness or connector.

4.CHECK CLIMATE CONTROLLED SEAT CONTROL UNIT POWER SUPPLY CIRCUIT 1

1. Turn ignition switch OFF.
2. Disconnect climate controlled seat relay.
3. Check continuity between climate controlled seat control unit (passenger side) harness connector and climate controlled seat relay harness connector.

Climate controlled seat control unit (passenger side)		Climate controlled seat relay		Continuity
Connector	Terminal	Connector	Terminal	
B518	55	M64	3	Existed
B519	70			

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

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

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 controlled seat relay		Ground	
Connector	Terminal		
M64	2		Battery voltage
	5		

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-13, "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 controlled seat relay		Ground	Continuity
Connector	Terminal		
M64	1		Existed

Does continuity exist?

YES >> GO TO 8.
NO >> Repair or replace harness.

8.CHECK INTERMITTENT INCIDENT

Refer to GI-35, "Intermittent Incident".

>> INSPECTION END

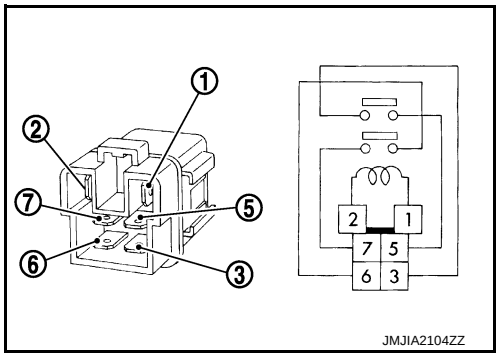
CLIMATE CONTROLLED SEAT CONTROL UNIT : Component Inspection

INFOID:0000000003905924

1.CHECK CLIMATE CONTROLLED SEAT RELAY

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

Climate controlled seat relay Terminal		Condition	Continuity
3	5	12 V direct current supply between terminals 1 and 2.	Existed
		No current supply	Not existed
6	7	12 V direct current supply between terminals 1 and 2.	Existed
		No current supply	Not existed



Is the inspection result normal?

YES >> INSPECTION END.
NO >> Replace climate controlled seat relay.

CLIMATE CONTROLLED SEAT SWITCH

Description

INFOID:0000000003842689

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

INFOID:0000000003842690

1.CHECK FUNCTION

Check that climate controlled seat activates when operating climate controlled seat control switch.

Is the inspection result normal?

YES >> Climate controlled seat switch is OK.
NO >> Refer to SE-14, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000003910780

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.

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

Climate controlled seat switch				Climate cotrolled seat control unit		Continuity
Connector			Terminal	Connector	Terminal	
Driver side	COOL	M177	2	B508	6	Existed
	HEAT		3		16	
Passenger side	COOL	M178	2	B518	6	
	HEAT		3		16	

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

Climate controlled seat switch				Ground	Continuity
Connector			Terminal		
Driver side	COOL	M177	2	Ground	Not existed
	HEAT		3		
Passenger side	COOL	M178	2		
	HEAT		3		

Is the inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace harness.

3. CHECK CLIMATE CONTROLLED SEAT SWITCH POWER SUPPLY

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

(+)			(–)	Voltage (V) (Approx.)
Climate controlled seat switch				
Connector		Terminal		
Driver side	M177	1	Ground	Battery voltage
Passenger side	M178	1		

Is the inspection result normal?

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

4. CHECK CLIMATE CONTROLLED SEAT SWITCH POWER SUPPLY CIRCUIT

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

Climate controlled seat switch			Climate cotrolled seat control unit		Continuity
Connector		Terminal	Connector	Terminal	
Driver side	M177	1	B508	21	Existed
Passenger side	M178	1	B518	21	

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

Climate controlled seat switch			Ground	Continuity
Connector		Terminal		
Driver side	M177	1	Ground	Not existed
Passenger side	M178	1		

Is the inspection result normal?

YES >> Replace climate controlled seat control unit. Refer to SE-74, "Disassembly and Assembly".
NO >> Repair or replace harness.

5.CHECK CLIMATE CONTROLLED SEAT SWITCH

Check climate controlled seat switch.
Refer toSE-16, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 6.
NO >> Replace Climate controlled seat switch. Refer to SE-95, "Removal and Installation".

6.CHECK INTERMITTENT INCIDENT

Refer to GI-35, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000003910781

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 controlled seat switch		Terminal		Condition			Continuity
Driver side	M177	2	1	Climate controlled seat switch	COOL mode	Pressed	Existed
						Released	Not existed
		3			HEAT mode	Pressed	Existed
						Released	Not existed
Passenger side	M178	2	1	Climate controlled seat switch	COOL mode	Pressed	Existed
						Released	Not existed
		3			HEAT mode	Pressed	Existed
						Released	Not existed

Is the inspection result normal?

YES >> Climate controlled seat switch is OK.
NO >> Replace climate controlled seat switch. Refer to SE-95, "Removal and Installation".

SEATBACK THERMAL ELECTRIC DEVICE

Description

INFOID:0000000003910788

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.

Component Function Check

INFOID:0000000003910789

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 >> Seatack thermal device function is OK.
NO >> Refer to SE-17, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000003910790

1.CHECK SEATBACK THERMAL ELECTRIC DEVICE SIGNAL

1. Turn ignition switch ON.
2. Check voltage between seatback thermal electric device harness connector and ground.

(+)			(–)	Condition		Voltage (V) (Approx.)
Seatback thermal electric device						
Connector		Terminal				
Driver side	B504	35	Ground	Climate controlled seat switch	HEAT and COOL	0 - battery voltage*
					Other than above	0
		36			HEAT and COOL	0 - battery voltage*
					Other than above	0
Passenger side	B514	35		Climate controlled seat switch	HEAT and COOL	0 - battery voltage*
					Other than above	0
		36			HEAT and COOL	0 - battery voltage*
					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 seatback thermal electric device.
NO >> GO TO 2.

2.CHECK SEATBACK THERMAL ELECTRIC DEVICE CIRCUIT

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.

Climate controlled seat control unit			Seatback thermal electric device		Continuity
Connector		Terminal	Connector	Terminal	
Driver side	B509	35	B504	35	Existed
		36		36	
Passenger side	B519	35	B514	35	
		36		36	

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

Climate controlled seat control unit			Ground	Continuity
Connector		Terminal		
Driver side	B509	35		Not existed
		36		
Passenger side	B519	35		
		36		

Is the inspection result normal?

YES >> Replace climate controlled seat control unit. Refer to SE-74, "Disassembly and Assembly".
NO >> Repair or replace harness.

SEATBACK THERMAL ELECTRIC DEVICE SENSOR

Description

INFOID:0000000003940120

Measures seatback temperature.

Diagnosis Procedure

INFOID:0000000003940122

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.

(+)			(–)	Condition	Voltage (V) (Approx.)
Climate controlled seat control unit					
Connector		Terminal			
Driver side	B507	37	Ground	Climate controlled seat operated	1 - 5
Passenger side	B517				

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.

Climate controlled seat control unit			Seatback thermal electric device		Continuity
Connector		Terminal	Connector	Terminal	
Driver side	B507	37	B504	37	Existed
		38		38	
Passenger side	B517	37	B514	37	
		38		38	

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

Climate controlled seat control unit				Continuity
Connector		Terminal		
Driver side	B507	37	Ground	Not existed
		38		
Passenger side	B517	37		
		38		

Is the inspection result normal?

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

3.CHECK SEATBACK THERMAL ELECTRIC DEVICE SENSOR

Check resistance between seatback thermal electric device connector.

Seatback thermal electric device		Terminal		Resistance (KΩ) (Approx.)
Connector				
Driver side	B504	37	38	1
Passenger side	B514			

Is the inspection result normal?

YES >> Replace climate controlled seat control unit. Refer to SE-73, "Removal and Installation".
NO >> Replace seatback thermal electric device.

SEAT CUSHION THERMAL ELECTRIC DEVICE

Description

INFOID:0000000003910785

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

Component Function Check

INFOID:0000000003940376

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 >> Seatack thermal device function is OK.
NO >> Refer to SE-17, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000003940377

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.

(+)			(–)	Condition		Voltage (V) (Approx.)
Seat cushion thermal electric device						
Connector		Terminal				
Driver side	B505	31	Ground	Climate controlled seat switch	HEAT and COOL	0 - battery voltage*
					Other than above	0
		32			HEAT and COOL	0 - battery voltage*
					Other than above	0
Passenger side	B515	31		Climate controlled seat switch	HEAT and COOL	0 - battery voltage*
					Other than above	0
		32			HEAT and COOL	0 - battery voltage*
					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.

Climate controlled seat control unit			Seat cushion thermal electric device		Continuity
Connector		Terminal	Connector	Terminal	
Driver side	B509	31	B505	31	Existed
		32		32	
Passenger side	B519	31	B515	31	
		32		32	

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

Climate controlled seat control unit			Ground	Continuity
Connector		Terminal		
Driver side	B509	31		Not existed
		32		
Passenger side	B519	31		
		32		

Is the inspection result normal?

YES >> Replace climate controlled seat control unit. Refer to SE-74, "Disassembly and Assembly".
NO >> Repair or replace harness.

SEAT CUSHION THERMAL ELECTRIC DEVICE SENSOR

Description

INFOID:0000000003940123

Measures seat cushion temperature.

Diagnosis Procedure

INFOID:0000000003940730

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.

(+)			(–)	Condition	Voltage (V) (Approx.)
Climate controlled seat control unit					
Connector		Terminal			
Driver side	B507	34	Ground	Climate controlled seat operated	1 - 5
Passenger side	B517				

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.

Climate controlled seat control unit			Seat cushion thermal electric device		Continuity
Connector		Terminal	Connector	Terminal	
Driver side	B507	33	B505	33	Existed
		34		34	
Passenger side	B517	33	B515	33	
		34		34	

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

Climate controlled seat control unit				Continuity
Connector		Terminal	Ground	
Driver side	B507	33		Not existed
		34		
Passenger side	B517	33		
		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.

Seat cushion thermal electric device		Terminal		Resistance (KΩ) (Approx.)
Connector				
Driver side	B505	33	34	1
Passenger side	B515			

Is the inspection result normal?

YES >> Replace climate controlled seat control unit. Refer to SE-73, "Removal and Installation".
NO >> Replace seat cushion thermal electric device.

CLIMATE CONTROLLED SEAT BLOWER MOTOR

Description

INFOID:0000000003910782

- Sends air flow to the seat cushion and seatback.

Component Function Check

INFOID:0000000003932187

1.CHECK FUNCTION

When turning the climate controlled seat switch to the HEAT and COOL mode position, check that the climate controlled seat blower is operated in each specific mode.

Is the inspection result normal?

YES >> Climate controlled seat blower motor is OK.
NO >> Refer to SE-25, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000003910784

1.CHECK CLIMATE CONTROLLED SEAT BLOWER MOTOR POWER SUPPLY

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

(+)			(–)	Condition		Voltage (V) (Approx.)
Climate controlled seat blower motor						
Connector		Terminal				
Driver side	B506	39	Ground	Climate controlled seat switch	HEAT mode	Battery voltage
					COOL mode	
					Other than above	0
Passenger side	B516			Climate controlled seat switch	HEAT mode	Battery voltage
					COOL mode	
					Other than above	0

Is the inspection result normal?

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

2.CHECK CLIMATE CONTROLLED BLOWER MOTOR POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect climate controlled 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.

Climate controlled seat blower motor			Climate controlled seat control unit		Continuity
Connector		Terminal	Connector	Terminal	
Driver side	B506	39	B507	39	Existed
Passenger side	B516		B517		

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

Climate controlled seat blower motor			Ground	Continuity
Connector		Terminal		
Driver side	B506	39		Not existed
Passenger side	B516			

Is the inspection result normal?

YES >> Replace climate controlled seat control unit. Refer to SE-74, "Disassembly and Assembly".
NO >> Repair or replace harness.

3. CHECK CLIMATE CONTROLLED SEAT BLOWER MOTOR SPEED CONTROL SIGNAL

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

(+)			(–)	Condition		Voltage (V) (Approx.)
Climate controlled seat blower motor						
Connector		Terminal				
Driver side	B506	40	Ground	Climate controlled seat	HEAT mode	8.5 - 9
					LO COOL	8
					MID COOL	9
Passenger side	B516				HI COOL	12
					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.
2. 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.

Climate controlled seat blower motor			Climate controlled seat control unit		Continuity
Connector		Terminal	Connector	Terminal	
Driver side	B506	40	B507	40	Existed
Passenger side	B516		B517		

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

Climate controlled seat blower motor			Ground	Continuity
Connector		Terminal		
Driver side	B506	40		Not existed
Passenger side	B516			

Is the inspection result normal?

YES >> Replace climate controlled seat control unit. Refer to SE-74, "Disassembly and Assembly".
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.

Climate controlled seat blower motor			Climate controlled seat control unit		Continuity
Connector		Terminal	Connector	Terminal	
Driver side	B506	41	B507	41	Existed
Passenger side	B516		B517		

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

Climate controlled seat blower motor			Ground	Continuity
Connector		Terminal		
Driver side	B506	41		Not existed
Passenger side	B516			

Is the inspection result normal?

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

6. CHECK CLIMATE CONTROLLED SEAT BLOWER MOTOR GROUND

1. 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.

Climate controlled seat blower motor			Ground	Continuity
Connector		Terminal		
Driver side	B506	41		Existed
Passenger side	B516			

Is the inspection result normal?

YES >> Replace climate controlled seat control unit. Refer to SE-74, "Disassembly and Assembly".
NO >> Replace climate controlled seat blower motor. Refer to SE-74, "Disassembly and Assembly".

CLIMATE CONTROLLED SEAT SWITCH INDICATOR

Description

INFOID:0000000003926390

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

Component Function Check

INFOID:0000000003926391

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 toSE-28, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000003926392

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			Ground	Continuity
Connector		Terminal		
Driver side	M177	6		Existed
Passenger side	M178			

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.

NO >> Replace climate controlled seat control unit. Refer to SE-74, "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.

Climate controlled seat switch			Climate controlled seat control unit		Continuity
Connector		Terminal	Connector	Terminal	
Driver side	M177	4	B507	15	Existed
		5		7	
Passenger side	M178	4	B517	15	
		5		7	

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

Climate controlled seat switch			Ground	Continuity
Connector		Terminal		
Driver side	M177	4		Not existed
		5		
Passenger side	M178	4		
		5		

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 SE-29, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 6.
NO >> Replace climate controlled seat switch. Refer to SE-95, "Removal and Installation"

6. CHECK INTERMITTENT INCIDENT

Refer to GI-35, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000003931341

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.

Terminal				Continuity
Climate controlled seat switch		(+)*	(–)*	
Driver side	COOL indicator	4	6	Existed
	HEAT indicator	5		
Passenger side	COOL indicator	4	6	
	HEAT indicator	5		

*For a digital tester.
NOTE:

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 SE-95, "Removal and Installation".

CLIMATE CONTROLLED SEAT BLOWER FILTER

Diagnosis Procedure

INFOID:0000000004019755

1.CHECK CLIMATE CONTROLLED SEAT BLOWER FILTER

Remove climate controlled seat blower motor filter and check that there is no clogging by dirt or foreign matters.

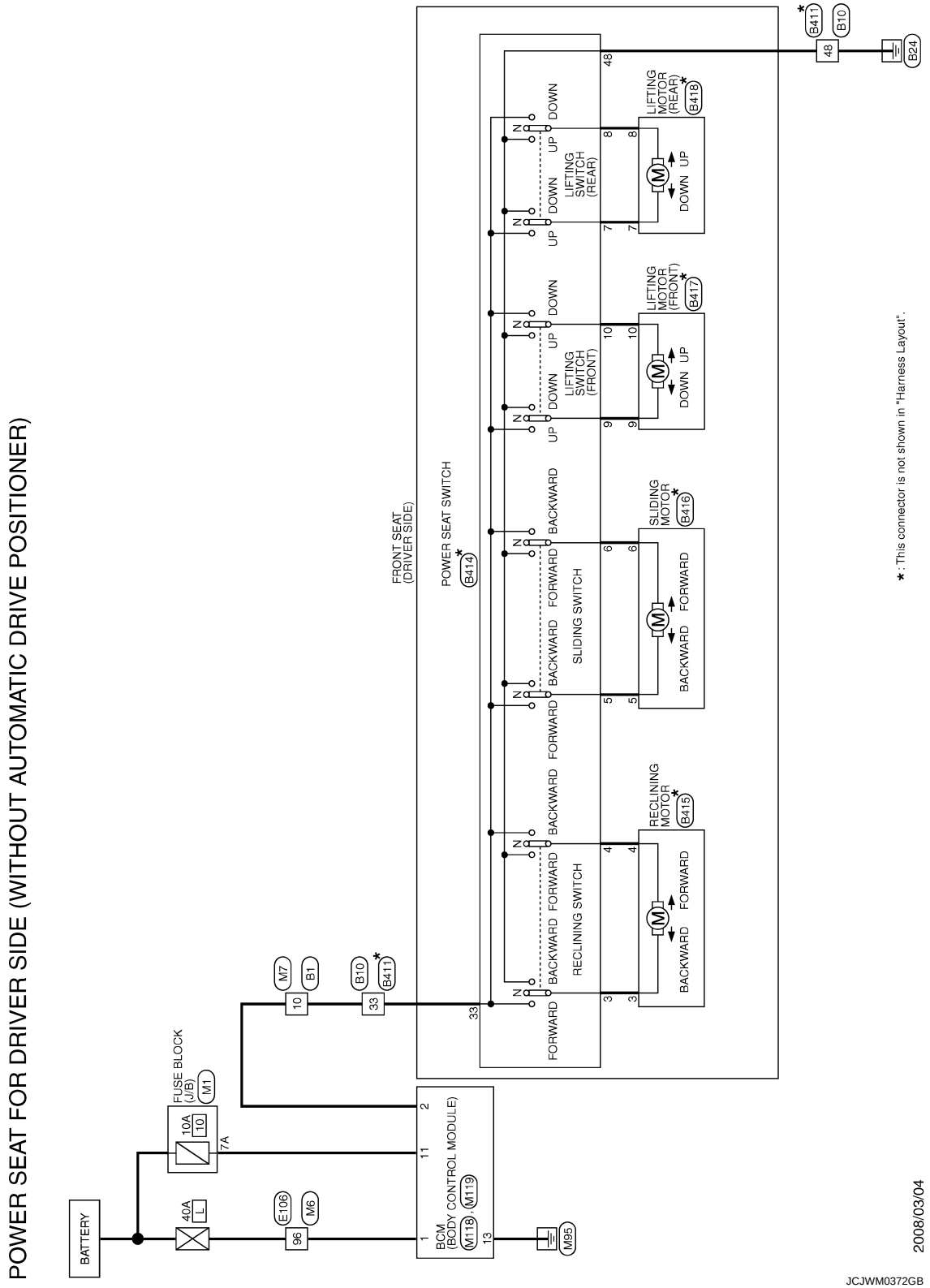
Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace climate controlled seat blower filter. Refer to SE-96, "Removal and Installation".

POWER SEAT

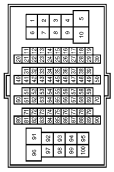
Wiring Diagram - POWER SEAT FOR DRIVER SIDE (WITHOUT AUTOMATIC DRIVE POSITIONER) -

INFOID:0000000003842728



POWER SEAT FOR DRIVER SIDE (WITHOUT AUTOMATIC DRIVE POSITIONER)

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
10	SB	–

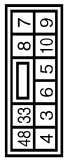
Connector No.	B10
Connector Name	WIRE TO WIRE
Connector Type	M04FW-LC

Terminal No.	Color of Wire	Signal Name [Specification]
33	SB	–
48	B	–

Connector No.	B411
Connector Name	WIRE TO WIRE
Connector Type	M04MW-LC

Terminal No.	Color of Wire	Signal Name [Specification]
33	R	–
48	B	–

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



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

Connector No.	B415
Connector Name	RECLINING MOTOR (DRIVER SIDE) (WITHOUT AUTOMATIC DRIVE POSITIONER)
Connector Type	NS02FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
3	G/Y	–
4	P	–

Connector No.	B416
Connector Name	SLIDING MOTOR (DRIVER SIDE) (WITHOUT AUTOMATIC DRIVE POSITIONER)
Connector Type	6098-0239

Terminal No.	Color of Wire	Signal Name [Specification]
5	W	–
6	V	–

Connector No.	B417
Connector Name	LIFTING MOTOR (FRONT) (DRIVER SIDE) (WITHOUT AUTOMATIC DRIVE POSITIONER)
Connector Type	NS02FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
9	L/R	–
10	G/W	–

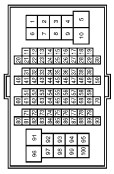
Connector No.	B418
Connector Name	LIFTING MOTOR (REAR) (DRIVER SIDE) (WITHOUT AUTOMATIC DRIVE POSITIONER)
Connector Type	NS02FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
7	L/Y	–
8	L	–

JCJWM0373GB

POWER SEAT FOR DRIVER SIDE (WITHOUT AUTOMATIC DRIVE POSITIONER)

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

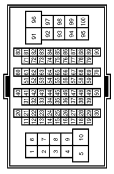


Terminal No.	Color of Wire	Signal Name [Specification]
96	W	–

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

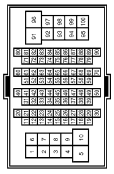
Terminal No.	Color of Wire	Signal Name [Specification]
7A	R	–

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
96	W	–

Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
10	W	–

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

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

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

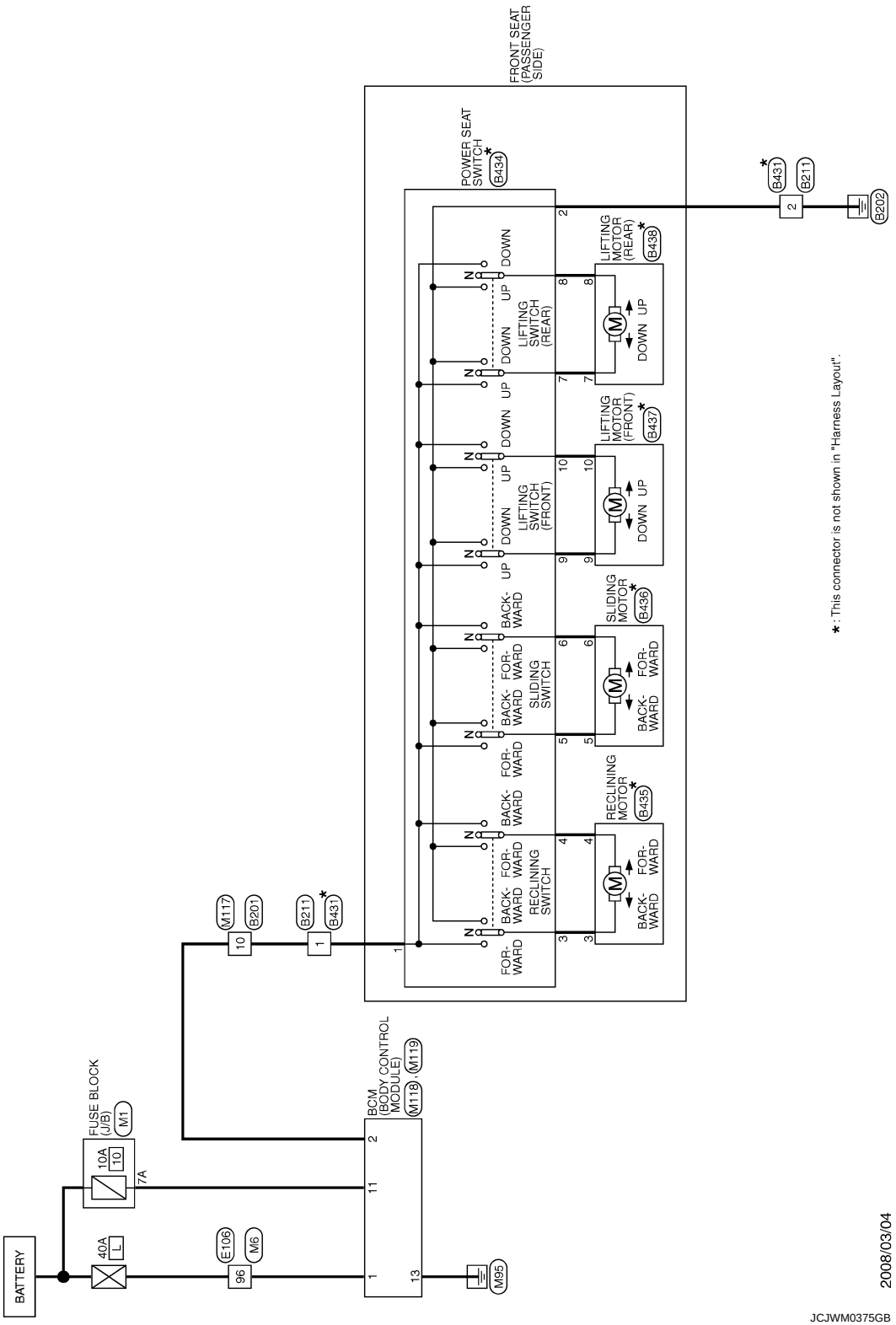
Terminal No.	Color of Wire	Signal Name [Specification]
11	R	BAT (FUSE)
13	B	GND

JCJWM0374GB

Wiring Diagram - POWER SEAT FOR PASSENGER SIDE -

INFOID:0000000003842729

POWER SEAT FOR PASSENGER SIDE



POWER SEAT FOR PASSENGER SIDE

Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

Terminal No.	Color of Wire	Signal Name [Specification]
10	G	–

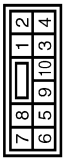
Connector No.	B211
Connector Name	WIRE TO WIRE
Connector Type	M04FW-LC

Terminal No.	Color of Wire	Signal Name [Specification]
1	G	–
2	B	–

Connector No.	B431
Connector Name	WIRE TO WIRE
Connector Type	M04MW-LC

Terminal No.	Color of Wire	Signal Name [Specification]
1	R	–
2	B	–

Connector No.	B434
Connector Name	POWER SEAT SWITCH (PASSENGER SIDE)
Connector Type	NS10FW-CS



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

Connector No.	B435
Connector Name	RECLINING MOTOR (PASSENGER SIDE)
Connector Type	NS02FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
3	G/Y	–
4	P	–

Connector No.	B436
Connector Name	SLIDING MOTOR (PASSENGER SIDE)
Connector Type	6098-0239

Terminal No.	Color of Wire	Signal Name [Specification]
5	W	–
6	V	–

Connector No.	B437
Connector Name	LIFTING MOTOR (FRONT) (PASSENGER SIDE)
Connector Type	NS02FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
9	L/R	–
10	G/W	–

Connector No.	B438
Connector Name	LIFTING MOTOR (REAR) (PASSENGER SIDE)
Connector Type	NS02FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
7	L/Y	–
8	L	–

JCJWM0376GB

POWER SEAT FOR PASSENGER SIDE

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
96	W	–

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

H.S.

3A 2A 1A
8A 7A 6A 5A 4A

Terminal No.	Color of Wire	Signal Name [Specification]
7A	R	–

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
96	W	–

Connector No.	M117
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
10	W	–

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

H.S.

1 3
2

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

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

H.S.

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

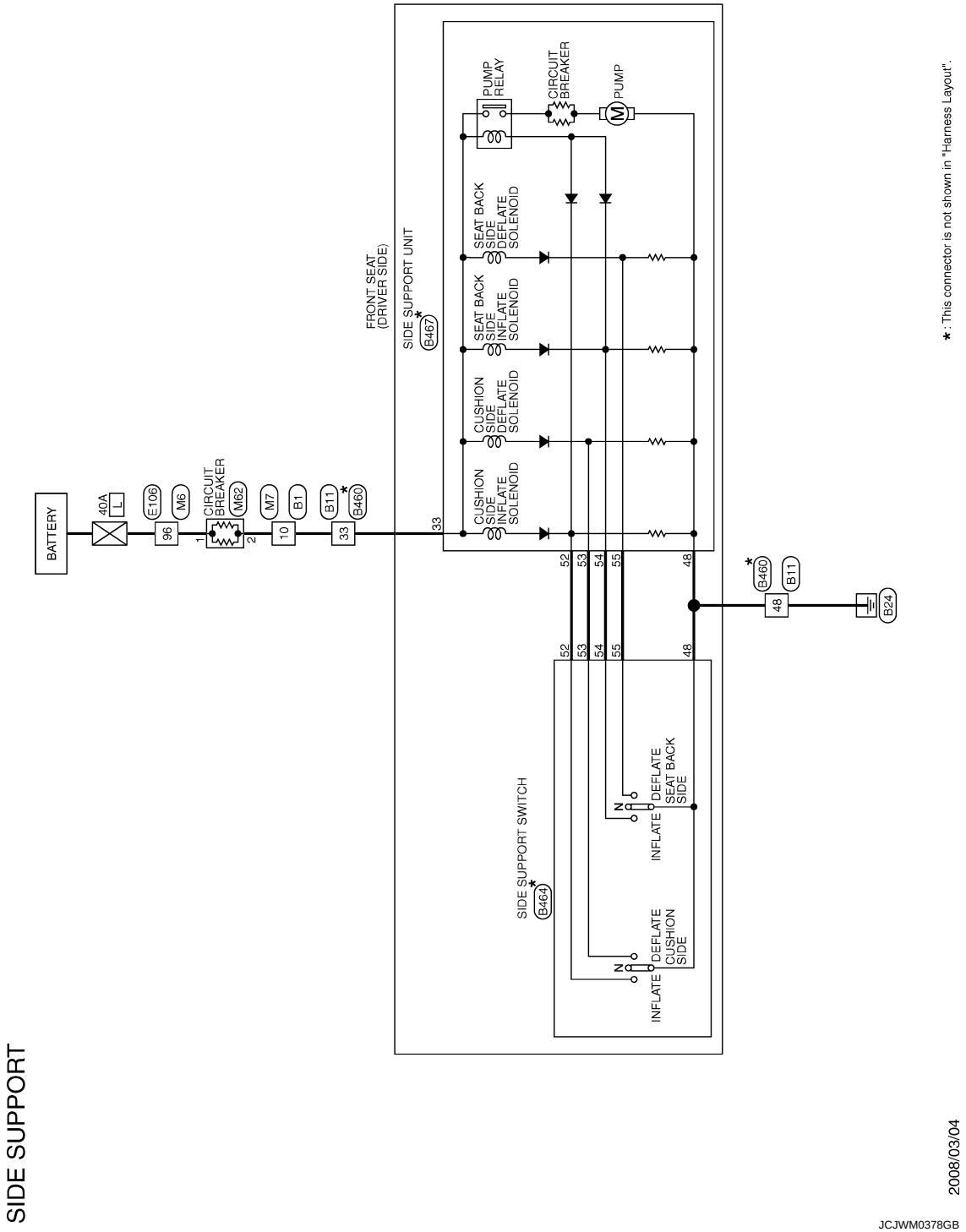
Terminal No.	Color of Wire	Signal Name [Specification]
11	R	BAT (FUSE)
13	B	GND

JCJWM0377GB

SIDE SUPPORT

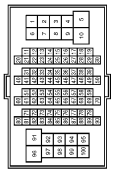
Wiring Diagram - SIDE SUPPORT -

INFOID:0000000003842730



SIDE SUPPORT

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

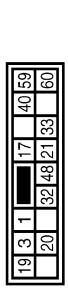


Terminal No.	Color of Wire	Signal Name [Specification]
10	SB	–

Connector No.	B11
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS

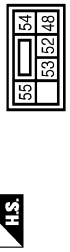
Terminal No.	Color of Wire	Signal Name [Specification]
33	SB	–
48	B	–

Connector No.	B460
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
33	R	–
48	B	–

Connector No.	B464
Connector Name	SIDE SUPPORT SWITCH
Connector Type	NS06FW-CS

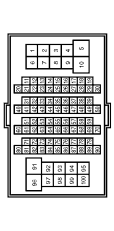


Terminal No.	Color of Wire	Signal Name [Specification]
48	B	–
52	B	–
53	R	–
54	W	–
55	L	–

Connector No.	B467
Connector Name	SIDE SUPPORT UNIT
Connector Type	NS06FW-CS

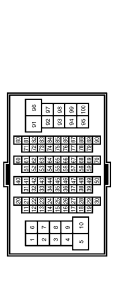
Terminal No.	Color of Wire	Signal Name [Specification]
33	R	–
48	B	–
52	B	–
53	R	–
54	W	–
55	L	–

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



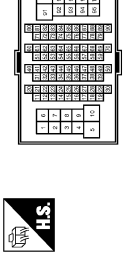
Terminal No.	Color of Wire	Signal Name [Specification]
96	W	–

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
96	W	–

Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

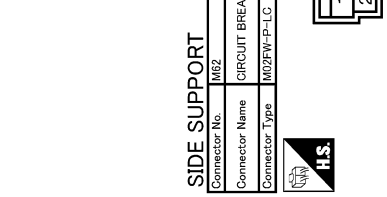


Terminal No.	Color of Wire	Signal Name [Specification]
10	W	–

JCJWM0379GB

SIDE SUPPORT

Connector No.	M62
Connector Name	CIRCUIT BREAKER
Connector Type	M02FW-P-LC



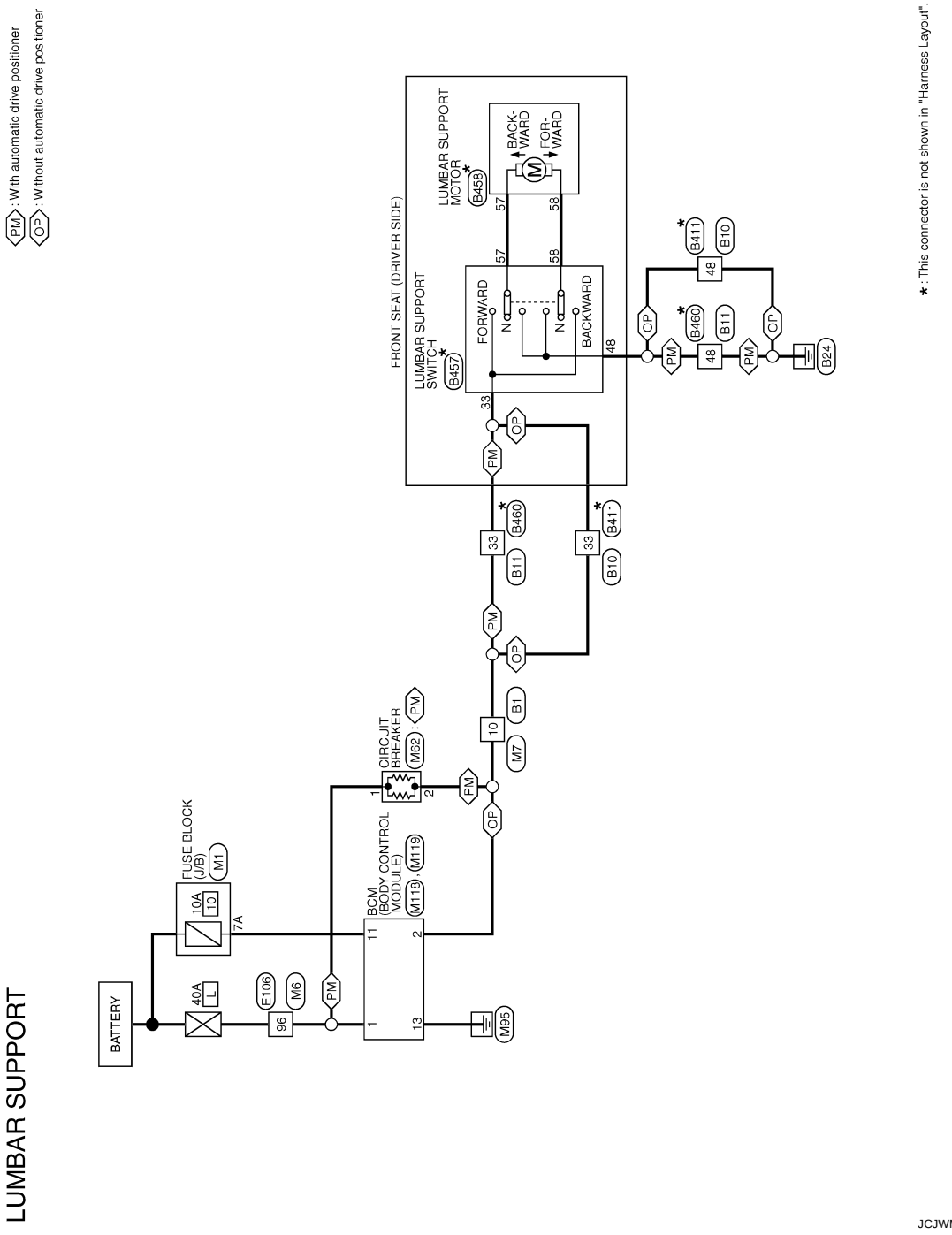
Terminal No.	Color of Wire	Signal Name [Specification]
1	W	–
2	W	–

JCJWM0380GB

LUMBAR SUPPORT

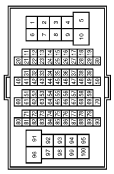
Wiring Diagram - LUMBAR SUPPORT -

INFOID:0000000003842731



LUMBAR SUPPORT

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
10	SB	–

Connector No.	B10
Connector Name	WIRE TO WIRE
Connector Type	M04FW-LC

Terminal No.	Color of Wire	Signal Name [Specification]
33	SB	–
48	B	–

Connector No.	B11
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
33	SB	–
48	B	–

Connector No.	B411
Connector Name	WIRE TO WIRE
Connector Type	M04MW-LC

Terminal No.	Color of Wire	Signal Name [Specification]
33	R	–
48	B	–

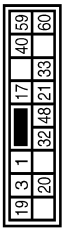
Connector No.	B457
Connector Name	LUMBAR SUPPORT SWITCH
Connector Type	NS04FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
33	R	–
48	B	–
57	W	–
58	L	–

Connector No.	B458
Connector Name	LUMBAR SUPPORT MOTOR
Connector Type	C02FW

Terminal No.	Color of Wire	Signal Name [Specification]
57	W	–
58	L	–

Connector No.	B460
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
33	R	–
48	B	–

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

Terminal No.	Color of Wire	Signal Name [Specification]
96	W	–

JCJWM0382GB

LUMBAR SUPPORT

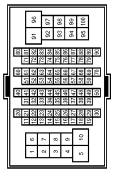
Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS06FW-M2

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
7A	R	–

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

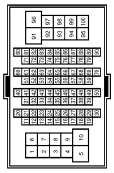
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
96	W	–

Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
10	W	–

Connector No.	M62
Connector Name	CIRCUIT BREAKER
Connector Type	M02FW-P-LC

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	W	–
2	W	–

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

H.S.

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

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

H.S.

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

JCJWM0383GB

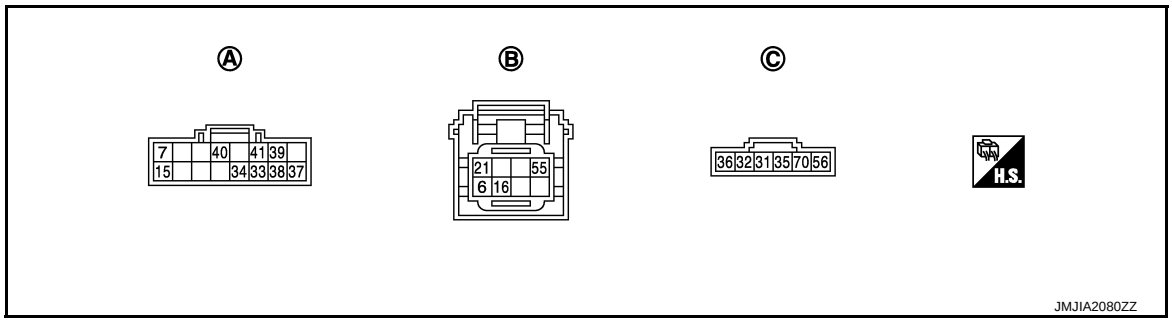
ECU DIAGNOSIS INFORMATION

CLIMATE CONTROLLED SEAT CONTROL UNIT

Reference Value

INFOID:0000000003842733

TERMINAL LAYOUT



A. B507 B. B508 C. B509

PHYSICAL VALUES

Terminal No.		Wire color	Description		Condition		Value (Approx.)
+	–		Signal name	Input/ Output			
6	Ground	R	COOL switch signal	Input	Climate controlled seat switch	HI COOL	2.6 - 4.2
						MID COOL	1.6 - 2.5
						LO COOL	0.8 - 1.5
						OFF	0
7	Ground	L	HEAT switch indicator signal	Output	Climate controlled seat switch	HEAT	Battery voltage
						OFF	0
15	Ground	W	COOL switch indicator signal	Output	Climate controlled seat switch	COOL	Battery voltage
						OFF	0
16	Ground	G	HEAT switch signal	Input	Climate controlled seat switch	HI HEAT	2.6 - 4.2
						MID HEAT	1.6 - 2.5
						LO HEAT	0.8 - 1.5
						OFF	0
21	Ground	P	Climate controlled seat switch power supply	Output	Ignition switch ON		Battery voltage
31	Ground	L/R	Seat cushion thermal electric device HEAT signal	Input	Climate controlled seat switch	HEAT or COOL	0 - Battery voltage*
						OFF	0
32	Ground	G/R	Seat cushion thermal electric device COOL-signal	Input	Climate controlled seat switch	HEAT or COOL	0 - Battery voltage*
						OFF	0
33	Ground	B/R	Seat cushion thermal electric device sensor signal	Input	Climate controlled seat operated		1 - 5
34	Ground	Y/R	Seat cushion thermal electric device sensor ground	—	Ignition switch ON		0

Terminal No.		Wire color	Description		Condition		Value (Approx.)
+	–		Signal name	Input/ Output			
35	Ground	V	Seatback therminal electric device HEAT signal	Input	Climate controlled seat switch	HEAT or COOL	0 - Battery voltage*
						OFF	0
36	Ground	O	Seatback therminal electric device COOL signal	Input	Climate controlled seat switch	HEAT or COOL	0 - Battery voltage*
						OFF	0
37	Ground	SB	Seatback therminal electric device sensor signal	Input	Climate controlled seat operated		1 - 5
38	Ground	B	Seatback therminal 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
					Other than the above		0
40	Ground	R/W	Blower motor speed control signal	Input	Climate controlled seat switch	HEAT	8.5 - 9
						HI COOL	12
						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	B	Ground	—	—		0
70	Ground	R	Ignition switch power supply	Input	Ignition switch ON		Battery voltage

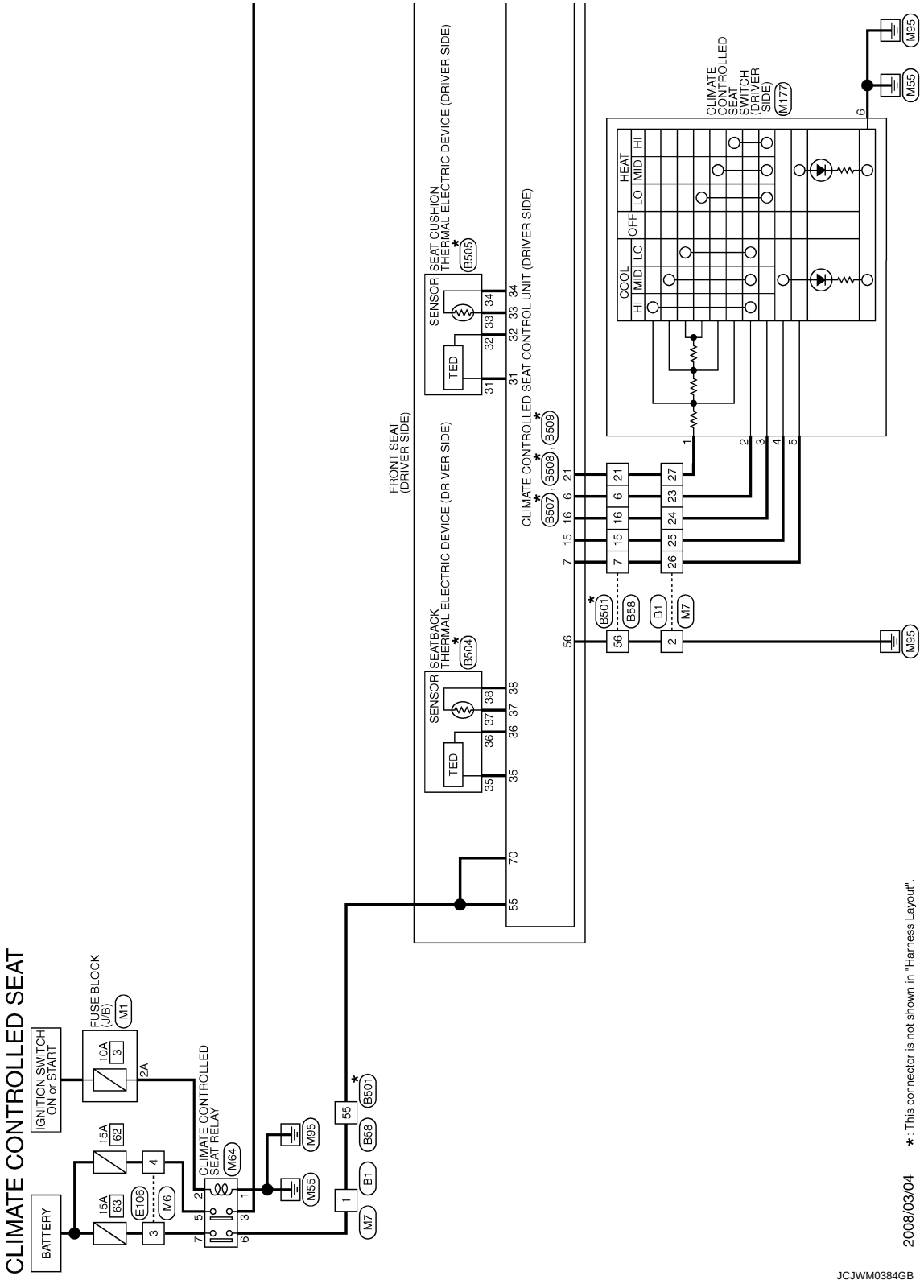
*:It changes between battery voitage or 0V

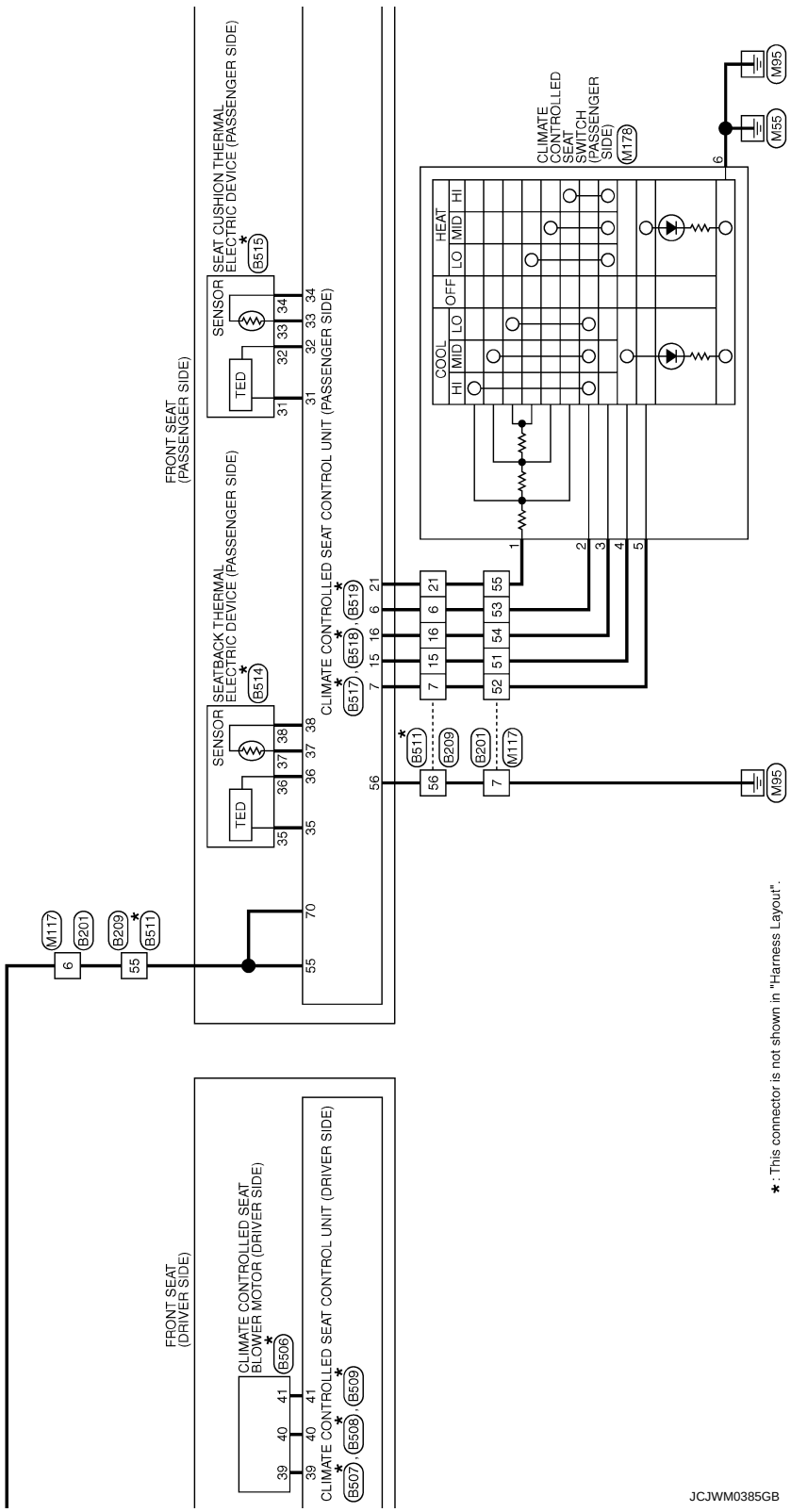
NOTE:

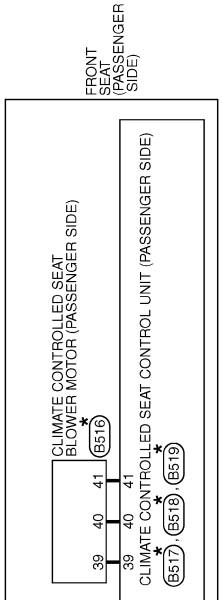
- Measure the value on the condition that the battery voltage is 14 V
- Wait 1 minute or more after terminal electric device is activated, and then start the measurement

Wiring Diagram - CLIMATE CONTROLLED SEAT CONTROL SYSTEM -

INFOID:0000000003842734



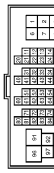

FRONT SEAT (PASSENGER SIDE)
SEAT CUSHION THERMAL ELECTRIC DEVICE (PASSENGER SIDE) B515
SENSOR
TED
SEATBACK THERMAL ELECTRIC DEVICE (PASSENGER SIDE) B514
CLIMATE CONTROLLED SEAT CONTROL UNIT (PASSENGER SIDE)
B519
B518
B517
CLIMATE CONTROLLED SEAT SWITCH (PASSENGER SIDE) M178
COOL HI MID LO OFF HEAT LO MID HI
M95
M55
B511
B209
B201
M117
M95
M117
B201
B209
B511
FRONT SEAT (DRIVER SIDE)
CLIMATE CONTROLLED SEAT BLOWER MOTOR (DRIVER SIDE) B506
CLIMATE CONTROLLED SEAT CONTROL UNIT (DRIVER SIDE)
B507
B508
B509
* : This connector is not shown in "Harness Layout".
JCJWM0385GB



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

CLIMATE CONTROLLED SEAT

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	–
2	Y	–
23	V	–
24	P	–
25	BR	–
26	GR	–
27	O	–

Connector No.	B58
Connector Name	WIRE TO WIRE
Connector Type	NS10FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
6	V	–
7	GR	–
15	BR	–
16	P	–
21	O	–
55	G	–
56	Y	–

Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

Terminal No.	Color of Wire	Signal Name [Specification]
6	O	–
7	GR	–
51	W	–
52	R	–
53	P	–
54	L	–
55	SB	–

Connector No.	B209
Connector Name	WIRE TO WIRE
Connector Type	NS10FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
6	P	–
7	R	–
15	W	–
16	L	–
21	SB	–
55	O	–
56	GR	–

Connector No.	B501
Connector Name	WIRE TO WIRE
Connector Type	NS10MW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
6	R	–
7	L	–
15	W	–
16	G	–
21	P	–
55	W	–
56	B	–

Connector No.	B504
Connector Name	SEATBACK THERMAL ELECTRIC DEVICE (DRIVER SIDE)
Connector Type	6098-2163

Terminal No.	Color of Wire	Signal Name [Specification]
35	V	–
36	O	–
37	SB	–
38	B	–

Connector No.	B505
Connector Name	SEAT CUSHION THERMAL ELECTRIC DEVICE (DRIVER SIDE)
Connector Type	6098-2163

Terminal No.	Color of Wire	Signal Name [Specification]
31	L/R	–
32	G/R	–
33	B/R	–
34	Y/R	–

Connector No.	B506
Connector Name	CLIMATE CONTROLLED SEAT BLOWER MOTOR (DRIVER SIDE)
Connector Type	7283-5830

Terminal No.	Color of Wire	Signal Name [Specification]
39	G/W	–
40	R/W	–
41	B/W	–

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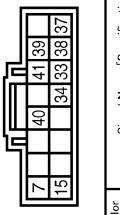
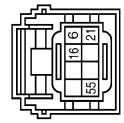
CLIMATE CONTROLLED SEAT

Connector No.	B507
Connector Name	CLIMATE CONTROLLED SEAT CONTROL UNIT (DRIVER SIDE)
Connector Type	15394150



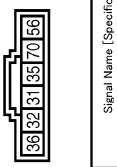
Terminal No.	Color of Wire	Signal Name [Specification]
7	L	–
15	W	–
33	B/R	–
34	Y/R	–
37	SB	–
38	B	–
39	G/W	–
40	R/W	–
41	B/W	–

Connector No.	B508
Connector Name	CLIMATE CONTROLLED SEAT CONTROL UNIT (DRIVER SIDE)
Connector Type	15406141



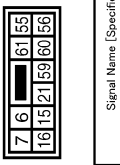
Terminal No.	Color of Wire	Signal Name [Specification]
6	R	–
16	G	–
21	P	–
55	W	–

Connector No.	B509
Connector Name	CLIMATE CONTROLLED SEAT CONTROL UNIT (DRIVER SIDE)
Connector Type	15332141



Terminal No.	Color of Wire	Signal Name [Specification]
31	L/R	–
32	G/R	–
35	V	–
36	O	–
56	B	–
70	R	–

Connector No.	B511
Connector Name	WIRE TO WIRE
Connector Type	NS10MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
6	R	–
7	L	–
15	W	–
16	G	–
21	P	–
55	W	–
56	B	–

Connector No.	B514
Connector Name	SEATBACK THERMAL ELECTRIC DEVICE (PASSENGER SIDE)
Connector Type	6098-2163

Terminal No.	Color of Wire	Signal Name [Specification]
35	V	–
36	O	–
37	SB	–
38	B	–

Connector No.	B515
Connector Name	SEAT CUSHION THERMAL ELECTRIC DEVICE (PASSENGER SIDE)
Connector Type	6098-2163

Terminal No.	Color of Wire	Signal Name [Specification]
31	L/R	–
32	G/R	–
33	B/R	–
34	Y/R	–

Connector No.	B516
Connector Name	CLIMATE CONTROLLED SEAT BLOWER MOTOR (PASSENGER SIDE)
Connector Type	7283-5830

Terminal No.	Color of Wire	Signal Name [Specification]
39	G/W	–
40	R/W	–
41	B/W	–

Connector No.	B517
Connector Name	CLIMATE CONTROLLED SEAT CONTROL UNIT (PASSENGER SIDE)
Connector Type	15394150

Terminal No.	Color of Wire	Signal Name [Specification]
7	L	–
15	W	–
33	B/R	–
34	Y/R	–
37	SB	–
38	B	–
39	G/W	–
40	R/W	–
41	B/W	–

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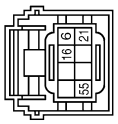
CLIMATE CONTROLLED SEAT

Connector No.	B518
Connector Name	CLIMATE CONTROLLED SEAT CONTROL UNIT (PASSENGER SIDE)
Connector Type	15406141

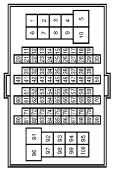


Terminal No.	Color of Wire	Signal Name [Specification]
6	R	–
16	G	–
21	P	–
55	W	–

Connector No.	B519
Connector Name	CLIMATE CONTROLLED SEAT CONTROL UNIT (PASSENGER SIDE)
Connector Type	15332141

Terminal No.	Color of Wire	Signal Name [Specification]
31	L/R	–
32	G/R	–
35	V	–
36	O	–
56	B	–
70	R	–

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

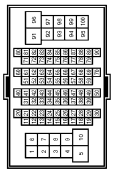


Terminal No.	Color of Wire	Signal Name [Specification]
3	SB	–
4	LG	–

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

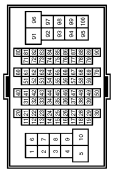
Terminal No.	Color of Wire	Signal Name [Specification]
2A	G	–

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
3	SB	–
4	LG	–

Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

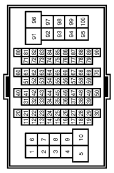


Terminal No.	Color of Wire	Signal Name [Specification]
1	G	–
2	B	–
23	V	–
24	P	–
25	BR	–
26	GR	–
27	O	–

Connector No.	M64
Connector Name	CLIMATE CONTROLLED SEAT RELAY
Connector Type	M06FBR-R-LC

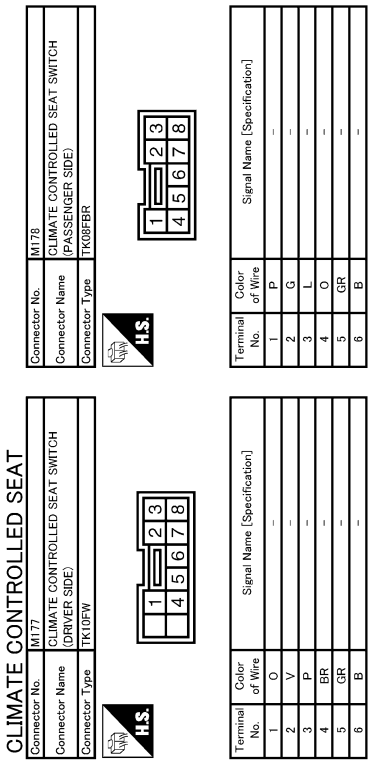
Terminal No.	Color of Wire	Signal Name [Specification]
1	B	–
2	Y	–
3	Y	–
5	LG	–
6	G	–
7	SB	–

Connector No.	M117
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
6	Y	–
7	B	–
51	O	–
52	GR	–
53	G	–
54	L	–
55	P	–

JCJWM0389GB



JCJWM0390GB

Fail-safe

INFOID:0000000003959701

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

Malfunction	Malfunctioning condition
The temperature difference between the seatback thermal electric device and seat cushion thermal electric device is 30°C 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 system is an open circuit
Climate controlled seat blower motor system open circuit	• When it detects for 2 seconds that climate controlled seat blower motor system is an open circuit while the climate controlled seat is being activated, it stops output to the thermal electric device • When it detects for 10 seconds that the climate controlled seat blower motor system is an open circuit while the climate controlled seat is being activated, it stops all output and enters the system OFF condition **NOTE:** After detecting the climate seat blower motor system open circuit for 2 seconds, the system recovers automatically if the activation of the climate controlled seat blower motor is detected for 1 second or more.
Switch input out of the specified range	• 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:

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

SYMPTOM DIAGNOSIS

CLIMATE CONTROLLED SEAT DOES NOT OPERATE.

BOTH SIDES

BOTH SIDES : Diagnosis Procedure

INFOID:0000000003842736

1. CHECK CLIMATE CONTROLLED CONTROL UNIT POWER SUPPLY AND GROUND CIRCUIT

Check climate controlled control unit power supply and ground circuit.
Refer to SE-10, "CLIMATE CONTROLLED SEAT CONTROL UNIT : Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace the malfunctioning parts.

2. CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-35, "Intermittent Incident".
NO >> GO TO 1.

DRIVER SIDE

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000003842740

1. CHECK CLOMATE CONTROLLED SEAT CONTROL UNIT POWER SUPPLY CIRCUIT

Check climate controlled seat control unit power supply circuit.
Refer to SE-10, "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-14, "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.
Refer to SE-25, "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 toGI-35, "Intermittent Incident".
NO >> GO TO 1.

PASSENGER SIDE

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000003942074

1. CHECK CLIMATE CONTROLLED SEAT CONTROL UNIT POWER SUPPLY AND GROUND CIRCUIT

Check climate controlled seat control unit power supply circuit.

Refer to SE-10, "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-14, "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.
Refer to SE-25, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Repair or replace the malfunctioning parts.

4.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-35, "Intermittent Incident".
NO >> GO TO 1.

CLIMATE CONTROLLED SEAT BLOWER MOTOR SPEED CANNOT ADJUST.

Diagnosis Procedure

INFOID:0000000003842742

1.CHECK CLIMATE CONTROLLED SEAT BLOWER FILTER

Check climate controlled seat blower filter.
Refer to SE-31, "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-14, "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.
Refer to SE-25, "Component_Function_Check".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Repair or replace the malfunctioning parts.

4.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-35, "Intermittent Incident".
NO >> GO TO 1.

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

Diagnosis Procedure

INFOID:0000000003842743

1.CHECK CLIMATE CONTROLLED SEAT SWITCH

Check climate controlled seat switch.
Refer to SE-14, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-35, "Intermittent Incident".
NO >> GO TO 1.

WHEN THE CLIMATE CONTROLLED SEAT SWITCH IS TURNED ON, OPERATION STOP AT NOSE.

Diagnosis Procedure

INFOID:0000000003857650

1. CHECK CLIMATE CONTROLLED SEAT BLOWER FILTER

Check climate controlled seat blower filter.
Refer to SE-31, "Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace the malfunctioning parts.

2. CHECK SEAT CUSHION THERMAL ELECTRIC DEVICE SENSOR

Check seat cushion thermal electric device sensor.
Refer to SE-23, "Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace the malfunctioning parts.

3. CHECK SEAT CUSHION THERMAL ELECTRIC DEVICE

Check seat cushion thermal electric device.
Refer to SE-21, "Component_Function_Check".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Repair or replace the malfunctioning parts.

4. CHECK SEATBACK THERMAL ELECTRIC DEVICE SENSOR

Check seatback thermal electric device sensor.
Refer to SE-19, "Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace the malfunctioning parts.

5. CHECK SEATBACK THERMAL ELECTRIC DEVICE

Check seatback thermal electric device.
Refer to SE-17, "Component_Function_Check".

Is the inspection result normal?

YES >> GO TO 6.
NO >> Repair or replace the malfunctioning parts.

6. CHECK CLIMATE CONTROLLED BLOWER MOTOR

Check climate controlled blower motor.
Refer to SE-25, "Component_Function_Check".

Is the inspection result normal?

YES >> GO TO 7.
NO >> Repair or replace the malfunctioning parts.

7. CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-35, "Intermittent Incident".
NO >> GO TO 1.

< SYMPTOM DIAGNOSIS >

SEAT SWITCH INDICATOR DOES NOT OPERATE IN HEAT OR COOL POSITION

Diagnosis Procedure

INFOID:0000000003857651

1. CHECK CLIMATE CONTROLLED SEAT SWITCH INDICATOR

Check climate controlled seat indicator.
Refer to SE-28, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace the malfunctioning parts.

2. CONFIRM THE OPERATION

Confirm the operation again.

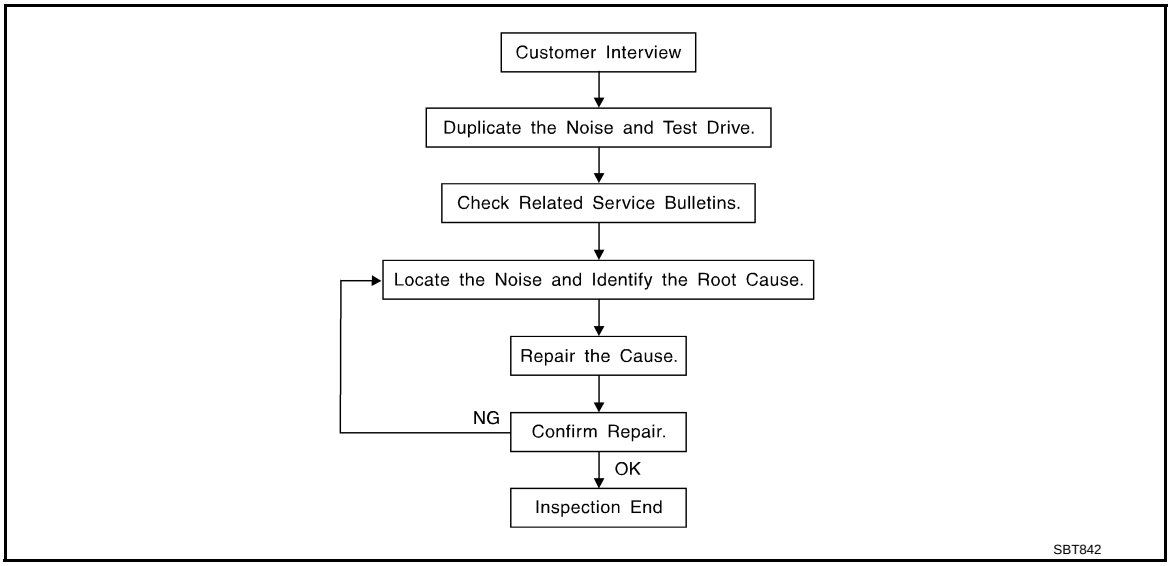
Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-35, "Intermittent Incident".
NO >> GO TO 1.

SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow

INFOID:0000000004063239



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 SE-65, "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.

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-63, "Inspection Procedure".

REPAIR THE CAUSE

- If the cause is a loose component, tighten the component securely.
- If the cause is insufficient clearance between components:

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

CAUTION:
Never use excessive force as many components are constructed of plastic and may be damaged.
NOTE:
Always check with the Parts Department for the latest parts information.
The following materials are contained in the Nissan Squeak and Rattle Kit (J-43980). Each item can be ordered separately as needed.
URETHANE PADS [1.5 mm (0.059 in) thick]
Insulates connectors, harness, etc.
76268-9E005: 100 × 135 mm (3.94 × 5.31 in)/76884-71L01: 60 × 85 mm (2.36 × 3.35 in)/76884-71L02:15 × 25 mm (0.59 × 0.98 in)
INSULATOR (Foam blocks)
Insulates components from contact. Can be used to fill space behind a panel.
73982-9E000: 45 mm (1.77 in) thick, 50 × 50 mm (1.97 × 1.97 in)/73982-50Y00: 10 mm (0.39 in) thick, 50 × 50 mm (1.97 × 1.97 in)
INSULATOR (Light foam block)
80845-71L00: 30 mm (1.18 in) thick, 30 × 50 mm (1.18 × 1.97in)
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.
UHMW (TEFLON) TAPE

Insulates where slight movement is present. Ideal for instrument panel applications.
SILICONE GREASE
Used in place of UHMW tape that is be visible or does not fit. 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:0000000004063240

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-43980) to repair the noise.

TRUNK

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

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

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

SUNROOF/HEADLINING

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

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

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

SEATS

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

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

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

UNDERHOOD

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

1. Any component mounted to the engine wall
2. Components that pass through the engine wall
3. Engine wall mounts and connectors
4. Loose radiator mounting pins
5. Hood bumpers out of adjustment
6. Hood striker out of adjustment

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

Diagnostic Worksheet

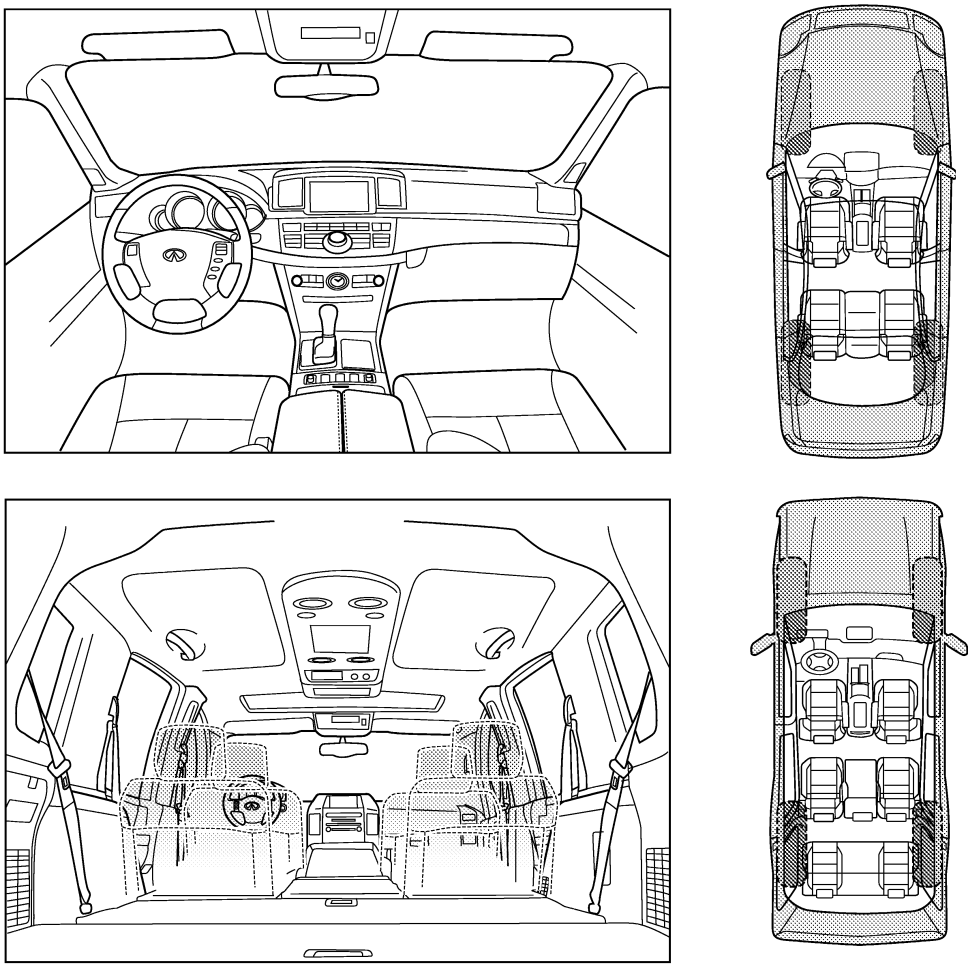
INFOID:0000000003842746

INFINITI

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.

PIIB8741E

SQUEAK & RATTLE DIAGNOSTIC WORKSHEET - page 2

Briefly describe the location where the noise occurs:

_____

_____

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

- ☐ anytime
- ☐ 1st time in the morning
- ☐ only when it is cold outside
- ☐ only when it is hot outside
- ☐ after sitting out in the rain
- ☐ when it is raining or wet
- ☐ dry or dusty conditions
- ☐ other:

III. WHEN DRIVING:

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

IV. WHAT TYPE OF NOISE

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

TO BE COMPLETED BY DEALERSHIP PERSONNEL

Test Drive Notes:

_____

_____

_____

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

VIN: _____ Customer Name: _____

W.O.# _____ Date: _____

This form must be attached to Work Order

PIIB8742E

PRECAUTION

PRECAUTIONS

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

INFOID:0000000004166516

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:

- **To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.**
- **Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the “SRS AIR BAG”.**
- **Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.**

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

WARNING:

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

Precaution Necessary for Steering Wheel Rotation after Battery Disconnect

INFOID:0000000003842748

NOTE:

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

This vehicle is equipped with a push-button ignition switch and a steering lock unit.
If the battery is disconnected or discharged, the steering wheel will lock and cannot be turned.
If turning the steering wheel is required with the battery disconnected or discharged, follow the procedure below before starting the repair operation.

OPERATION PROCEDURE

1. Connect both battery cables.
   NOTE:
   Supply power using jumper cables if battery is discharged.
2. Turn the push-button ignition switch to ACC position.
   (At this time, the steering lock will be released.)
3. Disconnect both battery cables. The steering lock will remain released with both battery cables disconnected and the steering wheel can be turned.
4. Perform the necessary repair operation.

5. When the repair work is completed, re-connect both battery cables. With the brake pedal released, turn the push-button ignition switch from ACC position to ON position, then to LOCK position. (The steering wheel will lock when the push-button ignition switch is turned to LOCK position.)
6. Perform self-diagnosis check of all control units using CONSULT-III.

Service Notice

INFOID:0000000003842749

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

Precaution for Work

INFOID:0000000003842750

- When removing or disassembling each component, be careful not to damage or deform it. If a component may be subject to interference, be sure to protect it with a shop cloth.
- When removing (disengaging) components with a screwdriver or similar tool, be sure to wrap the component with a shop cloth or vinyl tape to protect it.
- Protect the removed parts with a shop cloth and keep them.
- Replace a deformed or damaged clip.
- If a part is specified as a non-reusable part, always replace it with new one.
- Be sure to tighten bolts and nuts securely to the specified torque.
- After re-installation is completed, be sure to check that each part works normally.
- Follow the steps below to clean components.

- Water soluble foul: Dip a soft cloth into lukewarm water, and wring the water out of the cloth to wipe the fouled area.
  Then rub with a soft and dry cloth.
- Oily foul: Dip a soft cloth into lukewarm water with mild detergent (concentration: within 2 to 3%), and wipe the fouled area.
  Then dip a cloth into fresh water, and wring the water out of the cloth to wipe the detergent off. Then rub with a soft and dry cloth.

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

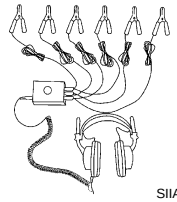
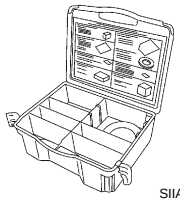
PREPARATION

PREPARATION

Special Service Tool

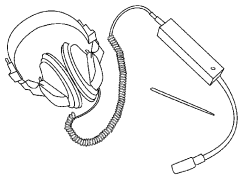
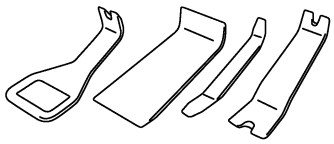
INFOID:0000000003842751

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
(J43980) NISSAN Squeak and Rattle Kit  SIIA0994E	Repairs the cause of noise

Commercial Service Tool

INFOID:0000000003842752

Tool name	Description
Engine ear  SIIA0995E	Locates the noise
Remover tool  PIIB7923J	Removes clips, pawls and metal clips

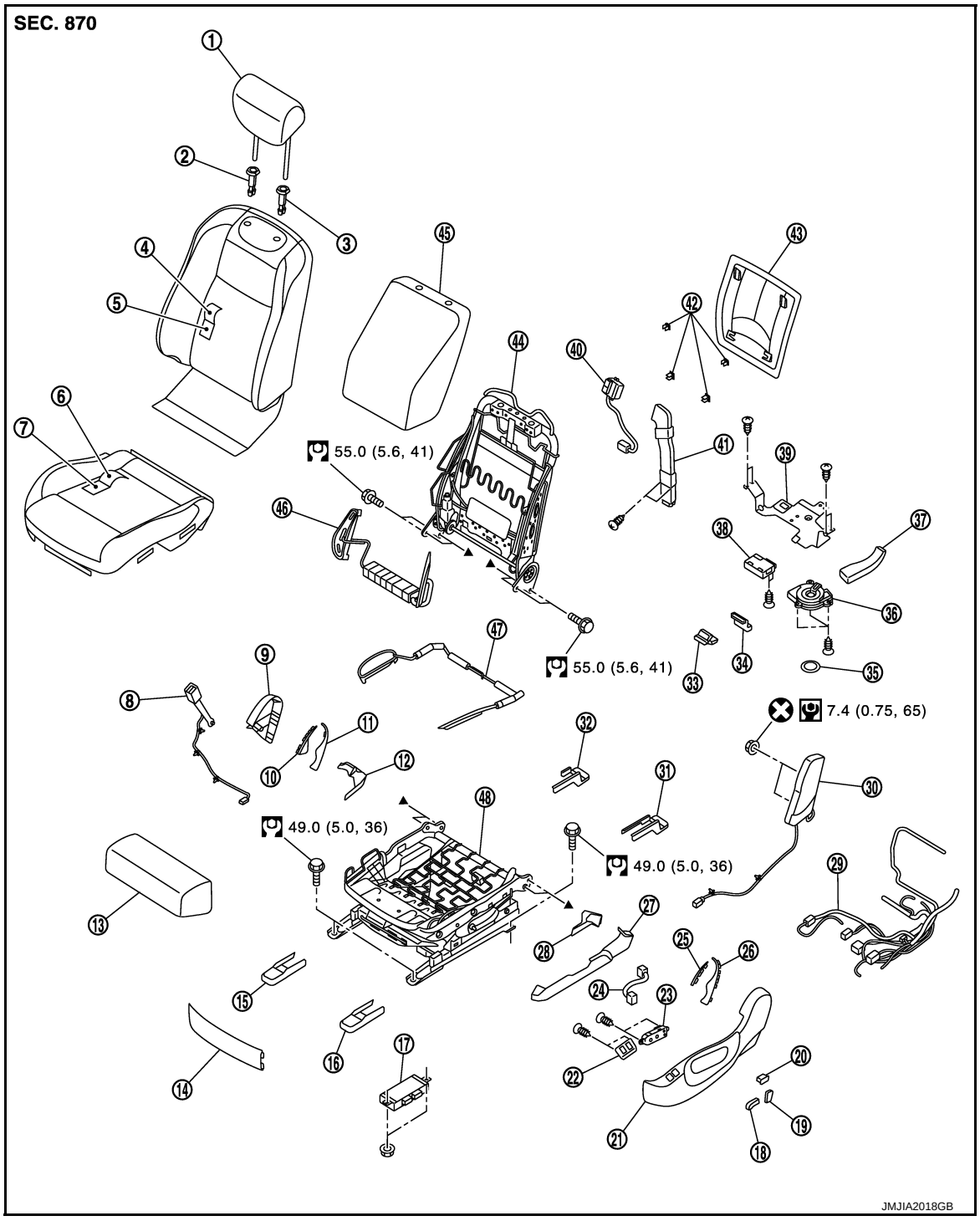
REMOVAL AND INSTALLATION

FRONT SEAT

Exploded View

INFOID:0000000003842753

DRIVER'S SEAT

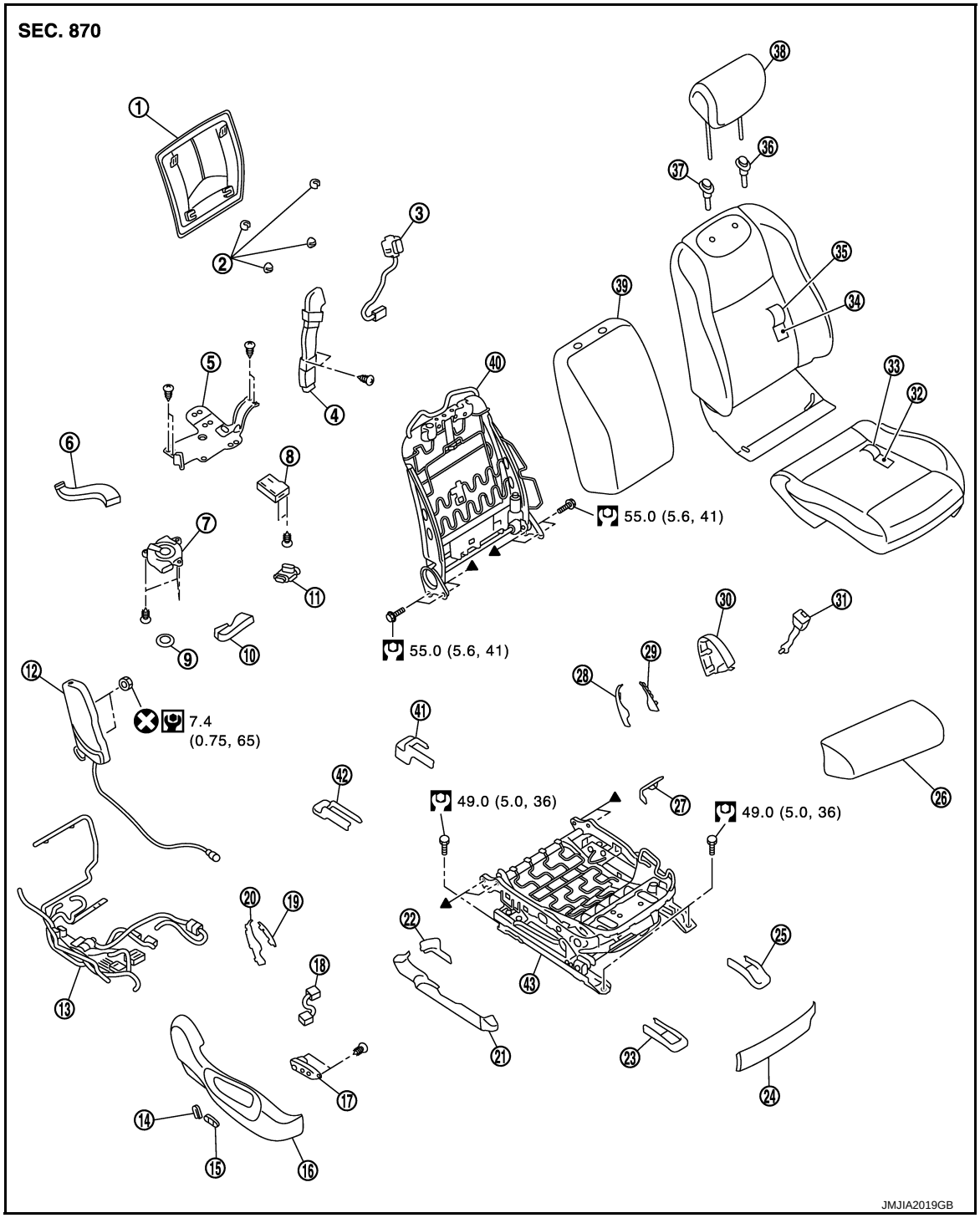


1. Headrest
2. Headrest holder (free)
3. Headrest holder (locked)
4. Seatback trim
5. Seatback pad
6. Seat cushion trim
7. Seat cushion pad
8. Seat belt buckle
9. Seat cushion inner finisher outside

10. Seat cushion inner finisher inside (front)
11. Seat cushion inner finisher inside (rear)
12. Seat cushion inner lower finisher
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
22. Slide support switch
23. Seat control switch
24. Seat switch harness
25. Seat cushion outer finisher inside (front)
26. Seat cushion outer finisher inside (rear)
27. Seat cushion outer lower finisher (outside)
28. Seat cushion outer lower finisher (inside)
29. Seat harness
30. Side air bag module
31. Rear outer slide cover
32. Rear inner slide cover
33. Seat cushion thermal electric device (TED)
34. Seat cushion duct A
35. Blower filter
36. Climate controlled seat blower motor
37. Seat cushion duct B
38. Climate controlled seat control unit
39. Climate unit bracket
40. Seatback thermal electric device (TED)
41. Seatback duct
42. Clip
43. Seatback board
44. Seatback frame
45. Seatback silencer
46. Seatback side support bag and unit
47. Seat cushion side support bag
48. Seat cushion frame

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

PASSENGER'S SEAT



1. Seatback board	2. Clip	3. Seatback thermal electric device (TED)
4. Seatback duct	5. Climate unit bracket	6. Seat cushion duct B
7. Climate controlled seat blower motor	8. Climate controlled seat control unit	9. Blower filter
10. Seat cushion duct A	11. Seat cushion thermal electric device (TED)	12. Side air bag module
13. Seat harness	14. Seat reclining switch knob	15. Seat slide and lifter switch knob
16. Seat cushion outer finisher outside	17. Seat control switch	18. Seat switch harness
19. Seat cushion outer finisher inside (front)	20. Seat cushion outer finisher inside (rear)	21. Seat cushion outer lower finisher (outside)

22. Seat cushion outer lower finisher (inside)
23. Front outer slide cover
24. Seat cushion front finisher
25. Front inner slide cover
26. Seat cushion pad (front)
27. Seat cushion inner lower finisher
28. Seat cushion inner finisher inside (rear)
29. Seat cushion inner finisher inside (front)
30. Seat cushion inner finisher outside
31. Seat belt buckle
32. Seat cushion pad
33. Seat cushion trim
34. Seatback pad
35. Seatback trim
36. Headrest holder (locked)
37. Headrest holder (free)
38. Headrest
39. Seatback silencer
40. Seatback frame
41. Rear inner slide cover
42. Rear outer slide cover
43. Seat cushion frame

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

Removal and Installation

INFOID:0000000003842754

REMOVAL

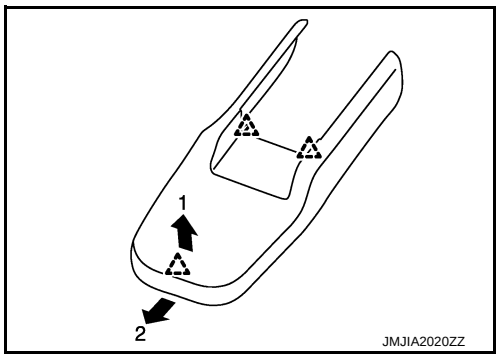
CAUTION:

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

1. Remove the headrest.
2. Remove the front slide cover.

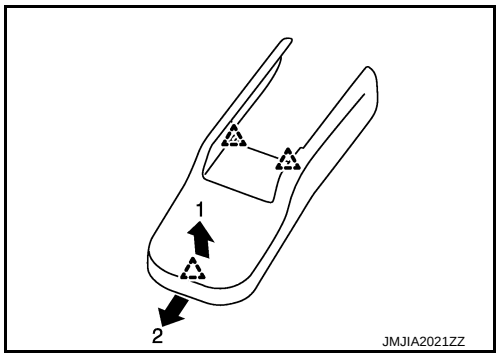
a. Front outer slide cover
- Slide the seat to the rear-most position.
- Pull up the front edge of the front outer slide cover to release the pawls.
- Slide the front outer slide cover forward to release the pawls.

: Pawl



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

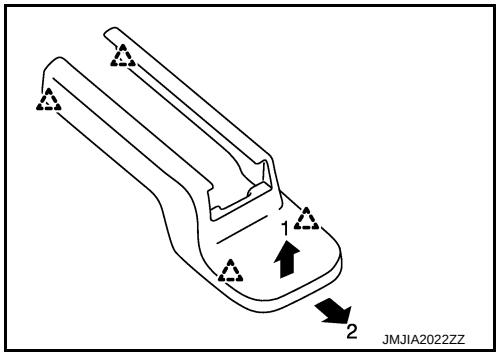
: Pawl



3. Remove the mounting bolts on the front side of the front seat.
4. Remove the rear slide cover.

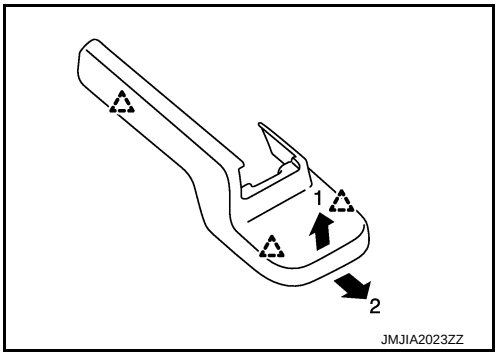
a. Rear outer slide cover
- Slide the seat to the front-most position.
- Pull up the rear edge of the rear outer slide cover to release the pawls.
- Slide the rear outer slide cover to release the pawls.

: Pawl



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

   : Pawl



5. Remove the mounting bolts on the rear side of the front seat.
6. Set seatback in a standing position.
7. Disconnect harness connector under the seat and remove harness securing clips.
   CAUTION:
   Before removal, turn ignition switch OFF, disconnect battery negative terminal and then wait for at least 3 minutes.
8. Remove seat from the vehicle.
   CAUTION:
   - **When removing and installing, use shop cloths to protect parts from damage.**
   - **When removing and installing, 2 workers are required so as to prevent it from dropping.**

INSTALLATION

Install in the reverse order of removal.

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

NOTE:
- After installing the front seat, perform additional service when removing battery negative terminal (automatic drive positioner model only). Refer to ADP-8, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement".
- After installing the passenger seat, perform zero point reset. Refer to SRC-8, "ZERO POINT RESET : Special Repair Requirement".

Disassembly and Assembly

INFOID:0000000003842755

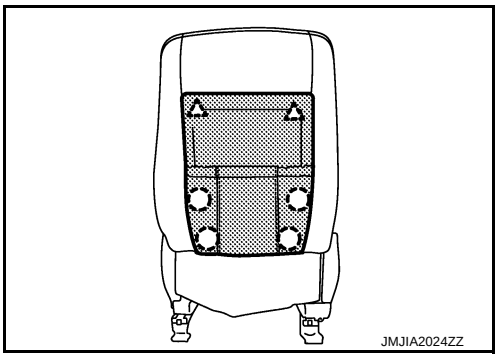
SEATBACK

Disassembly

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

   : Clip

   : Pawl

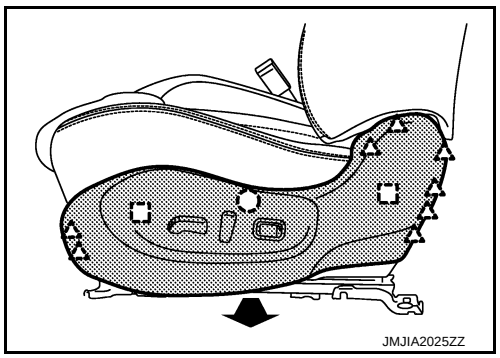


2. Remove the seat cushion outer finisher.

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

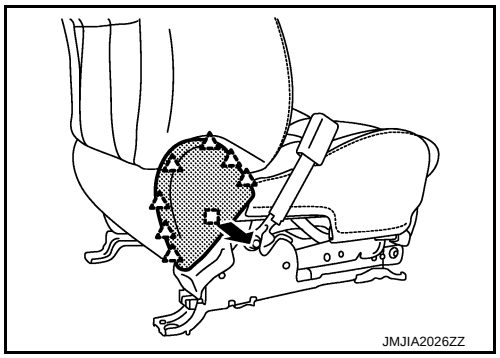
: Clip
: Metal clip
: Pawl

- Remove the connector clamps, and then disconnect harness connectors.

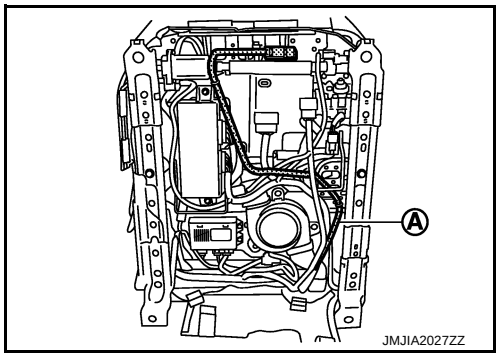

JMJIA2025ZZ

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.

: Metal clip
: Pawl

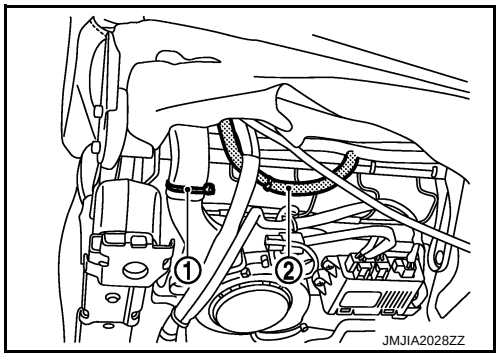

JMJIA2026ZZ

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



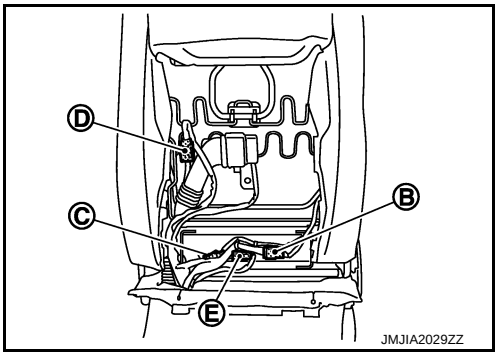
JMJIA2027ZZ

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

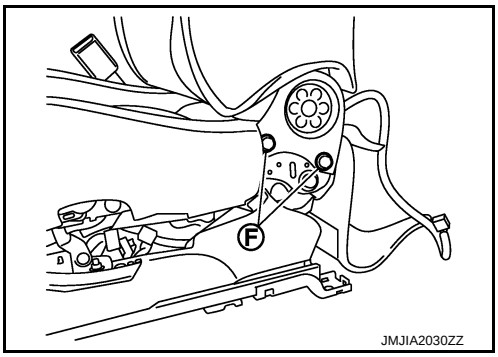


JMJIA2028ZZ

- Disconnect the reclining motor harness connector (B).
- Disconnect the lumbar support unit harness connector (C).
- Disconnect the side support unit harness connector (D).
- Disconnect the seatback thermal electric device (TED) harness connector (E).

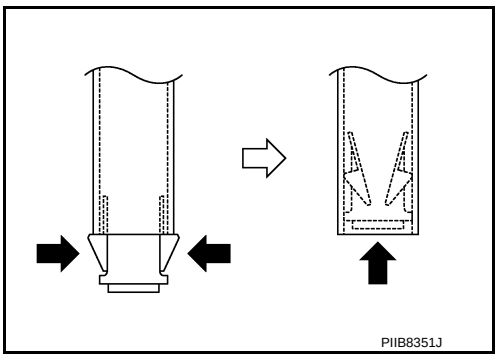


- Pull out harness from the seatback trim and seat cushion trim.
- Remove the seatback assembly mounting bolts (F).

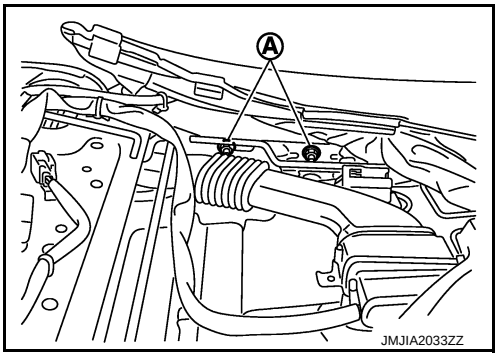


8. Remove the seatback trim and seatback pad.
   - Remove the headrest holder.

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



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

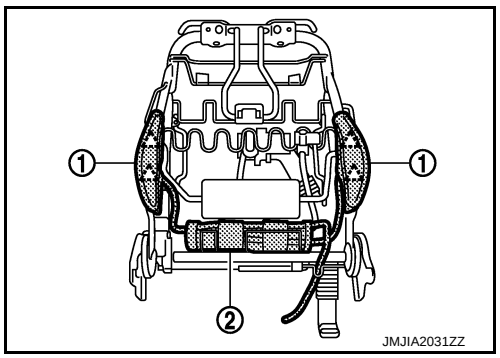


- Remove the seatback trim and seatback pad from the seatback frame.
- Remove the side air bag module.
- Remove the hog rings, and separate the seatback trim and seatback pad.

9. Remove the seatback silencer.
10. Remove the seatback side support bag and unit. (Side support model only.)

- Remove the pawls, and then remove side support bag (1).
- Remove the side support unit (2).

: Pawl



Assembly

Assemble in the reverse order of disassembly.

CAUTION:

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

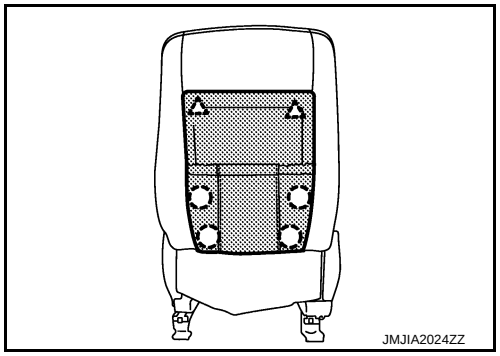
SEAT CUSHION

Disassembly

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

: Clip

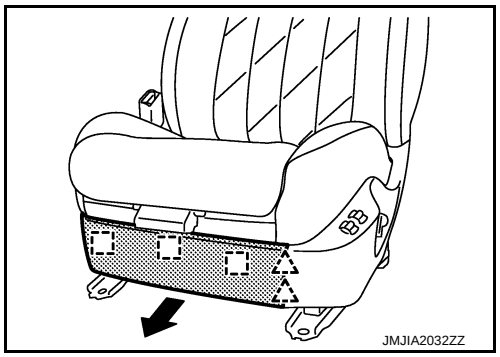
: Pawl



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

: Metal clip

: Pawl



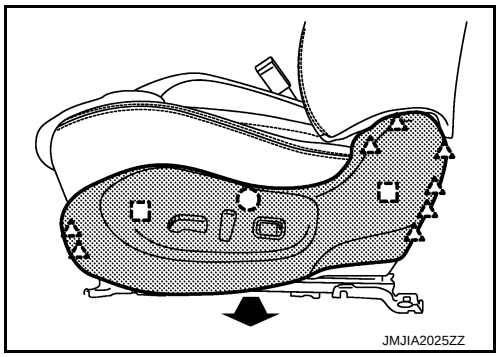
3. Remove the seat cushion outer finisher.
   - Remove the clip, metal clips and pawls, and then pull out seat cushion outer finisher.

: Clip

: Metal clip

: Pawl

   - Remove the connector clamps, and then disconnect harness connectors.

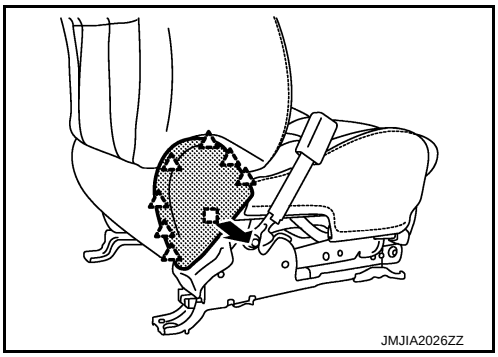


4. Remove the seat cushion outer finisher inside (front and rear).

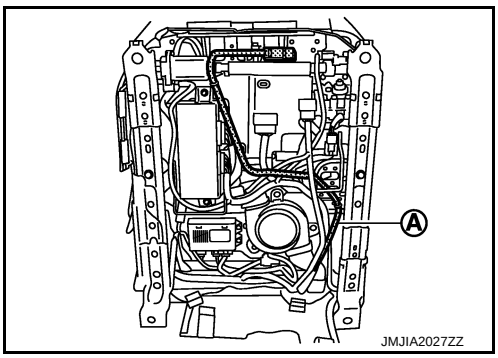
5. Remove the seat cushion inner finisher.
   Remove the metal clip and pawls, and then pull out seat cushion inner finisher.

   : Metal clip

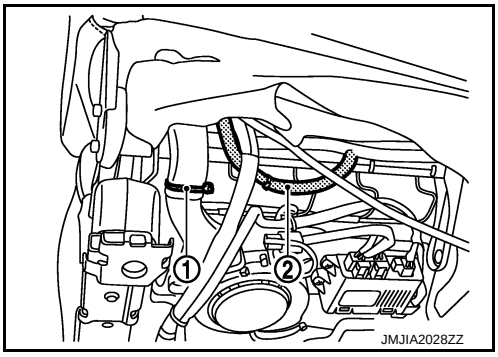
   : Pawl



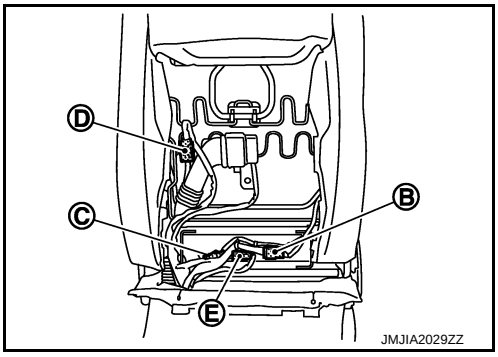
6. Remove the seat cushion inner finisher inside (front and rear).
7. Remove the seatback trim retainer and seatback trim band from seat cushion frame.
8. Remove the seatback assembly.
   - Remove the side air bag module harness (A).



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

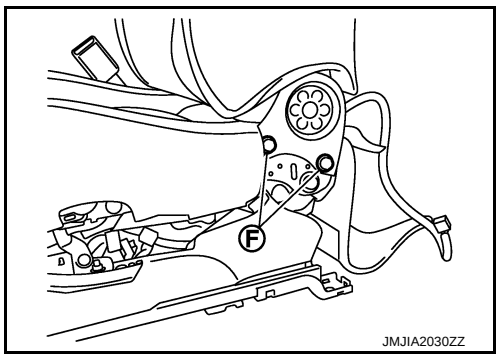


   - Disconnect the reclining motor harness connector (B).
   - Disconnect the lumbar support unit harness connector (C).
   - Disconnect the side support unit harness connector (D).
   - Disconnect the thermal electric device (TED) harness connector (E).

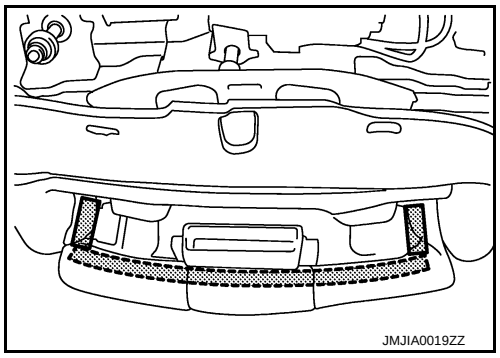


   - Pull out harness from the seatback trim and seat cushion trim.

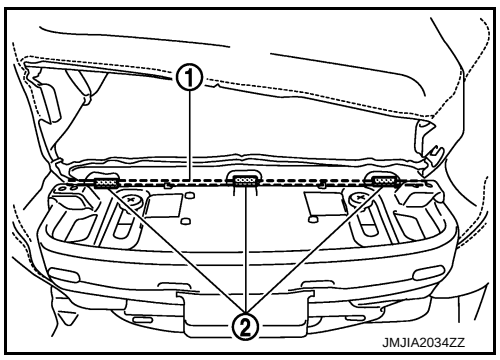
- Remove the seatback assembly mounting bolts (F).



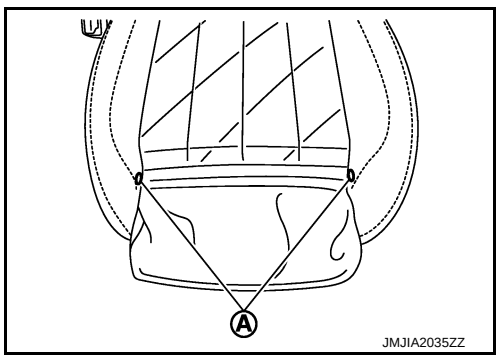
9. Remove the seat belt buckle. Refer to SB-8, "SEAT BELT BUCKLE : Removal and Installation".
10. Remove the seat cushion pad (front). (Thigh extension model only.)
    - Remove the retainer.
    - Remove the seat cushion pad (front).



11. Remove the seat cushion trim and seat cushion pad.
    - Remove the seat cushion trim wire (1) from the hook (2). (Thigh extension model only.)



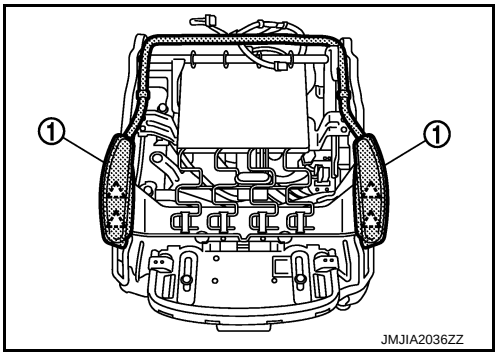
    - Remove the clip (A). (Thigh extension model only.)



    - Remove the seat cushion retainer.
    - Disconnect the seat cushion heater unit harness connector.
    - Remove the hog rings, and separate the seat cushion trim and seat cushion pad.
12. Remove the seat cushion side support bag. (Side support model only.)
    - Remove the hose clamp.

- Remove the pawls, and then remove side support bag (1).

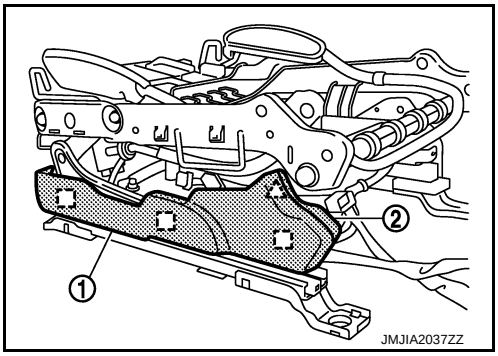
: Pawl



13. Remove the metal clips and pawl, and then pull out seat cushion outer lower finisher outside (1) and inside (2).

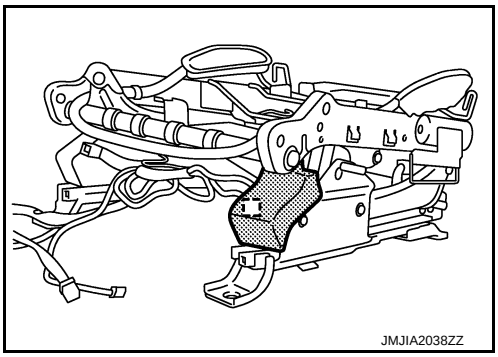
: Metal clip

: Pawl



14. Remove the seat cushion inner lower finisher.

: Metal clip



15. Remove the driver seat control unit (Automatic drive positioner model only). Refer to ADP-207, "Removal and Installation".

Assembly

Assemble in the reverse order of disassembly.

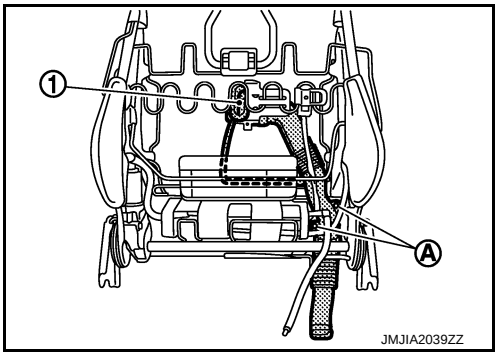
CAUTION:

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

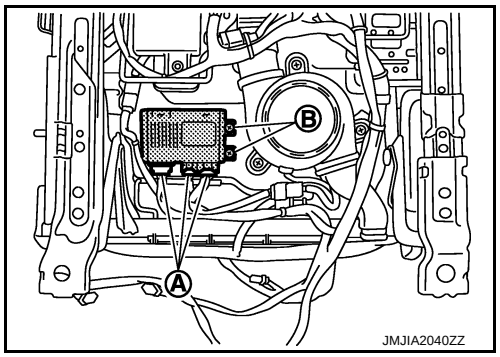
CLIMATE CONTROLLED SEAT UNIT

Disassembly

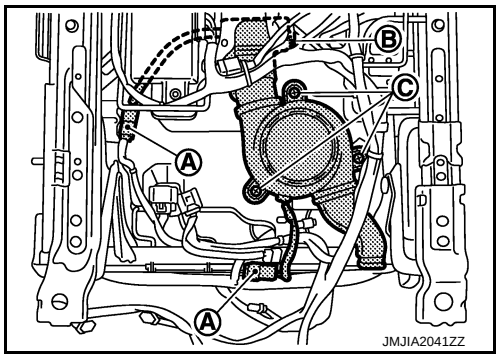
1. Remove the seatback duct and seatback thermal electric device (TED). Remove the screws (A), and then cut the band (1).



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



3. Remove the seat cushion duct, seat cushion thermal electric device (TED) and climate controlled seat brower motor.
   - Disconnect the harness connectors (A).
   - Remove the thermal electric device (TED) mounting screw (B).
   - Remove the climate controlled seat brower motor mounting screws (C).



Assembly

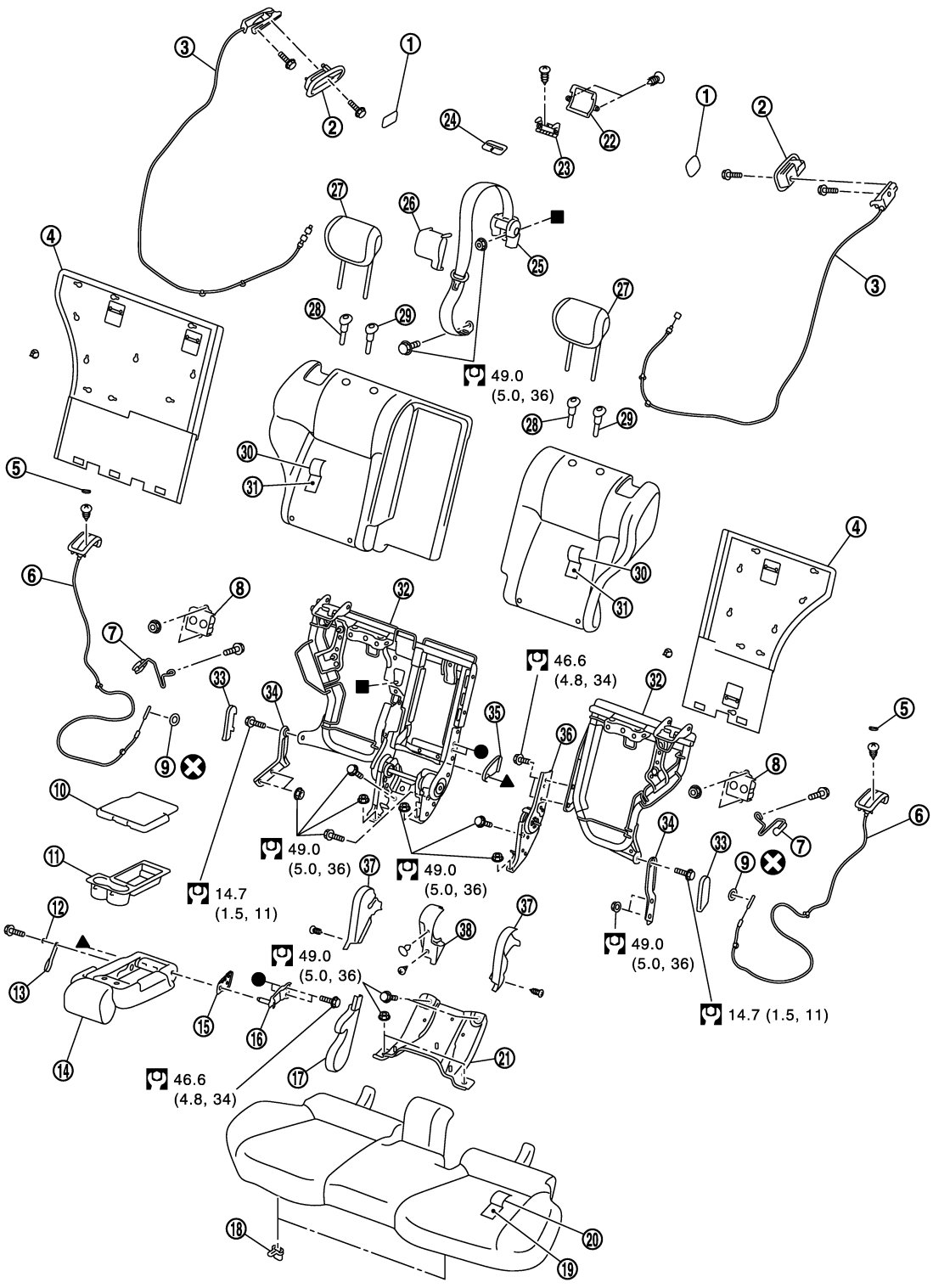
Assemble in the reverse order of disassembly.

REAR SEAT

Exploded View

INFOID:0000000003842756

SEC. 880



JMJIA2109GB

1. Seatback control cable finisher cap
2. Seatback control cable finisher
3. Seatback control cable
4. Seatback board
5. Reclining lever knob cap
6. Reclining lever knob assembly
7. Seat belt hook
8. Dynamic damper
9. Push nut

10. Armrest lid assembly
11. Cup holder
12. Spacer
13. Armrest strap
14. Armrest pad and frame assembly
15. Armrest hinge cover (RH)
16. Armrest bracket
17. Rear center device cover
18. Seat cushion hook
19. Seat cushion pad
20. Seat cushion trim
21. Rear center back bracket
22. Seat belt guide (upper)
23. Seat belt guide (lower)
24. Seat belt finisher
25. Center seat belt retractor
26. Center seat belt retractor cover
27. Headrest
28. Headrest holder (free)
29. Headrest holder (locked)
30. Seatback trim
31. Seatback pad
32. Seatback frame
33. Seatback hinge outer cover
34. Seatback hinge
35. Armrest hinge cover (LH)
36. Reclining device (LH)
37. Reclining device inner cover
38. Reclining device inner cover inside

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

Removal and Installation

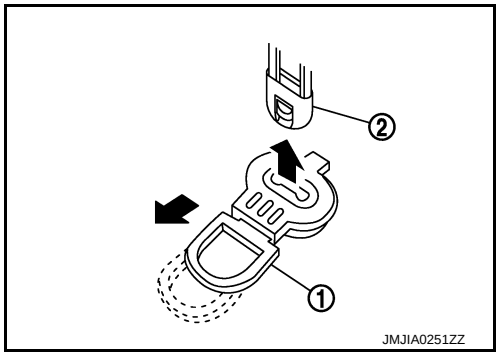
INFOID:0000000003842757

REMOVAL

CAUTION:

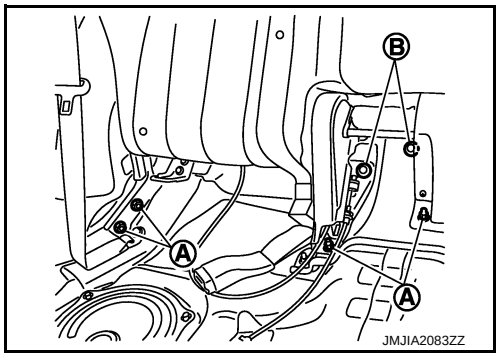
- **When removing and installing, use shop cloths to protect parts from damage.**
- **Always remove seat back while the reclining device is in the locked condition. Never release the locked condition after removing seat back.**

1. Remove the seat cushion.
   - 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
   - Remove the seat cushion from vehicle.



JMJIA0251ZZ

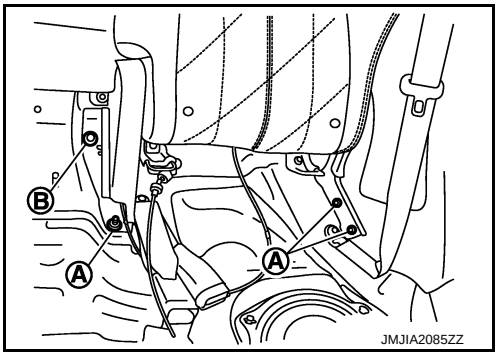
2. Remove the seatback (RH).
   - Remove the rear seat belt inner anchor. Refer to SB-11, "SEAT BELT RETRACTOR : Removal and Installation".
   - Remove the LATCH system. Refer to SB-17, "Removal and Installation".
   - Remove the seatback control cable (RH). Refer to SE-90, "Removal and Installation".
   - Remove the mounting nuts (A) and bolt (B).



JMJIA2083ZZ

3. Remove the seatback (LH).
   - Remove the LATCH system. Refer to SB-17, "Removal and Installation".
   - Remove the seatback control cable (LH). Refer to SE-90, "Removal and Installation".

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

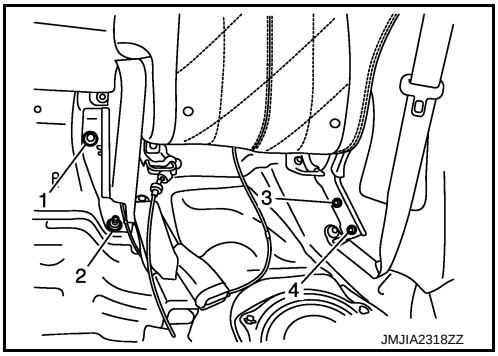


INSTALLATION

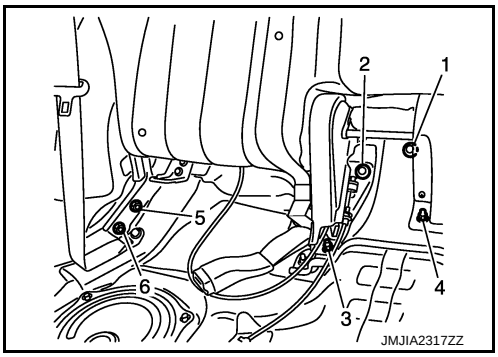
CAUTION:

- **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).



3. Install the seatback control cable. Refer to SE-90, "Removal and Installation".
4. Install the seat cushion.

Disassembly and Assembly

INFOID:0000000003842758

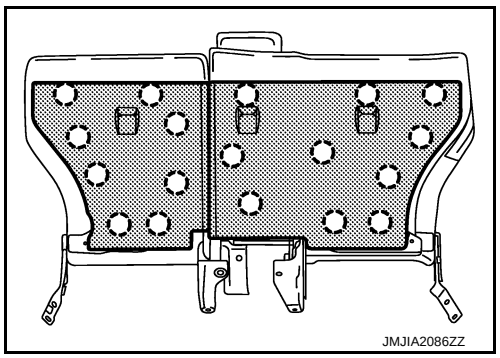
SEATBACK

Disassembly

1. Remove the seatback board.

Remove the clips.

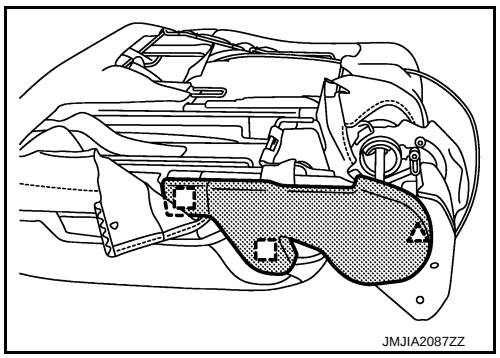
: Clip



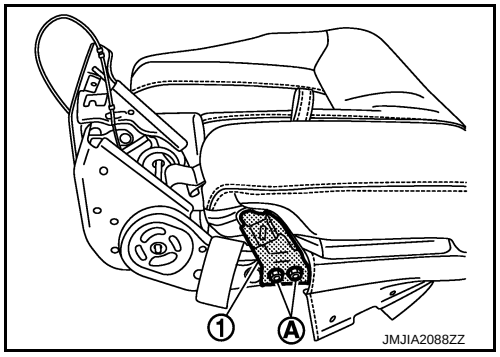
2. Remove the armrest assembly. (RH seat only)
   - Remove the hog lings, and then pull the seatback trim.
   - Remove the metal clips and pawl, and then pull out armrest bracket cover.

: Metal clip

: Pawl

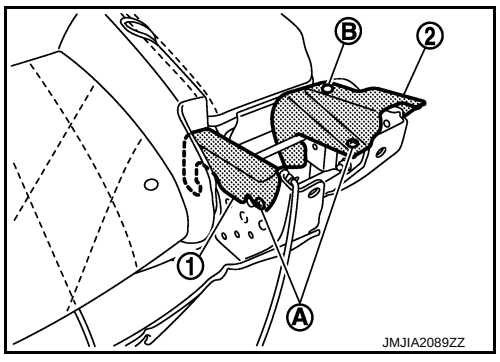


   - Remove the mounting bolts (A), and then remove the armrest bracket (1).



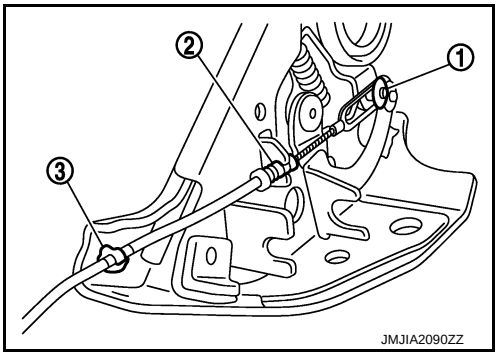
   - Remove the armrest assembly.

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).

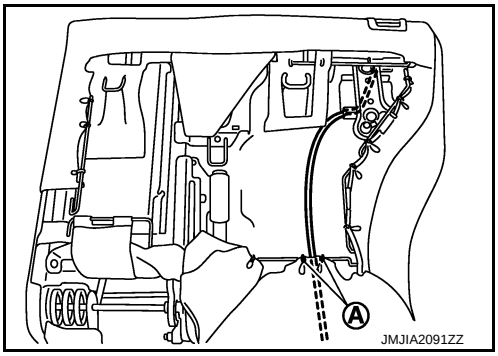


4. Remove the reclining lever knob assembly.

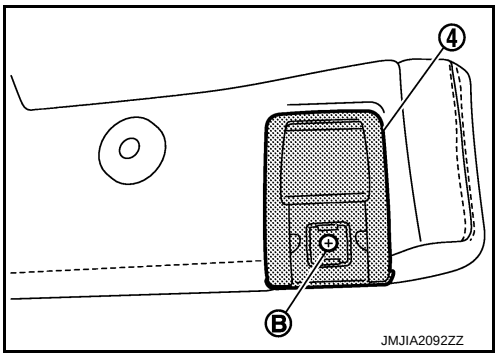
- Remove the push nut (1), cable resin part (2) and cable clamp (3).



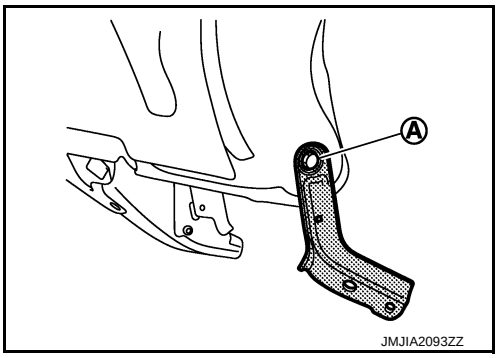
- Remove the hog rings (A) and cable clamp.



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



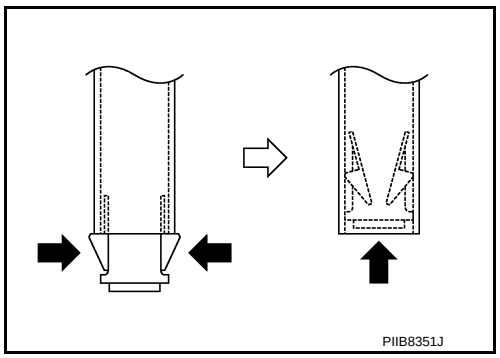
5. Remove the seatback trim and pad.
   - Remove the seatback hinge outer cover.
   - Remove the mounting bolt (A) and then remove seatback hinge.



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

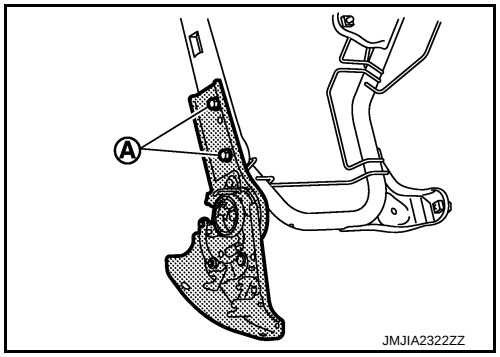
- Remove the headrest holder.

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

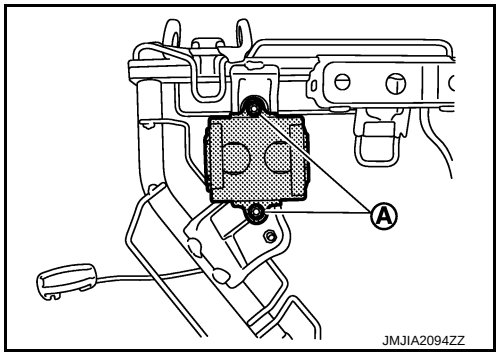


- Remove the seatback trim and pad.
- Remove the hog rings to separate the seatback trim and seatback pad.

6. Remove the reclining device (LH). (LH seat only)
Remove the mounting bolts (A), and then remove reclining device (LH).



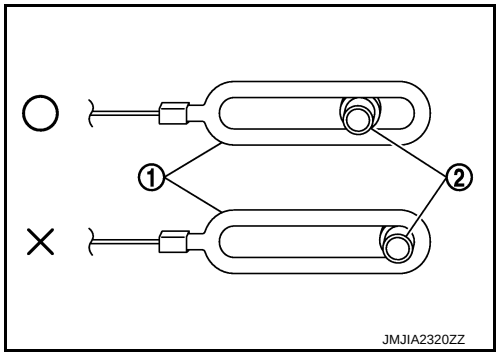
7. Remove the dynamic damper.
Remove the dynamic damper mounting nuts (A).



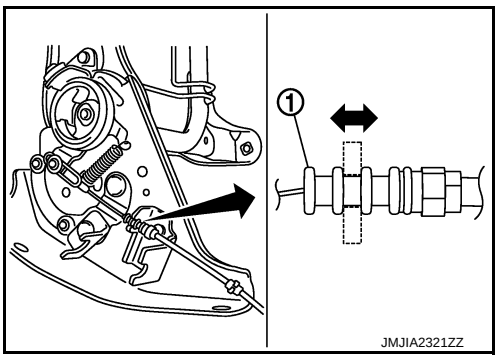
8. Remove the seat belt hook.
9. Remove the rear center seat belt retractor. Refer to SB-11, "SEAT BELT RETRACTOR : Removal and Installation".

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).**



- **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.

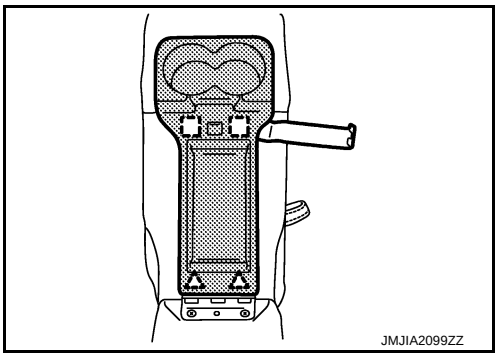
ARMREST

Disassembly

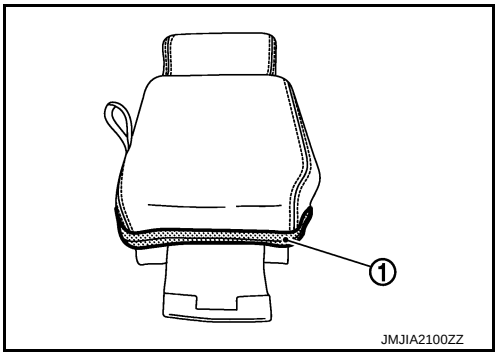
1. Remove the cup holder.
   Remove the metal clips and pawls.

   : Pawl

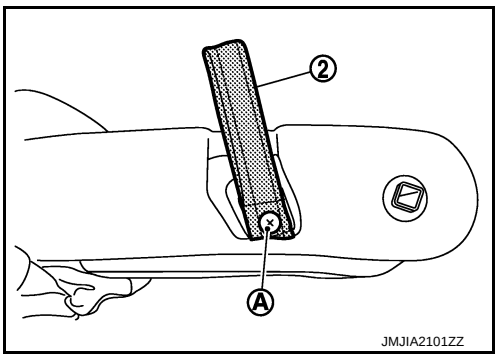
   : Metal clip



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



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



Assembly

Assemble in the reverse order of disassembly.

SEATBACK CONTROL CABLE

Exploded View

INFOID:0000000003901758

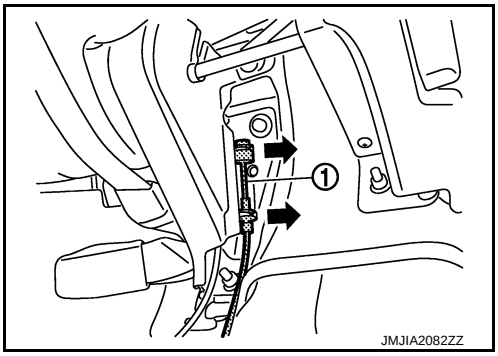
Refer to SE-82, "Exploded View".

Removal and Installation

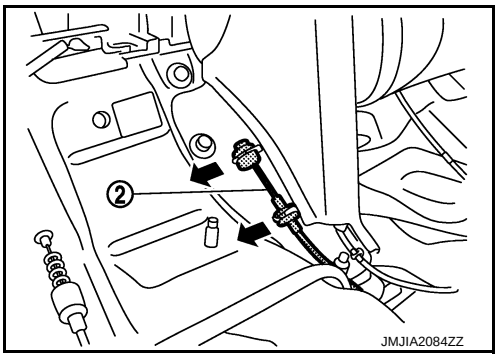
INFOID:0000000003901759

REMOVAL

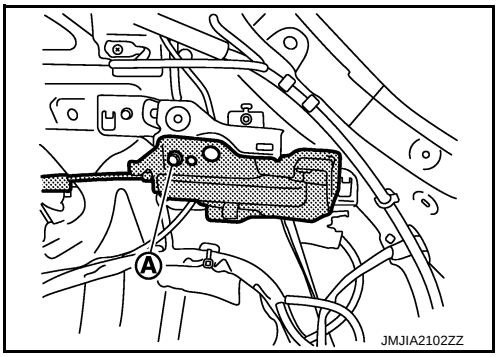
1. Remove the seat cushion assembly. Refer to SE-83, "Removal and Installation".
2. Remove the seatback control cable finisher. Refer to INT-29, "Removal and Installation".
3. Remove the luggage side finisher. Refer to INT-29, "Removal and Installation".
4. Remove the seatback control cable.
   - Remove the seatback control cable (RH) (1).



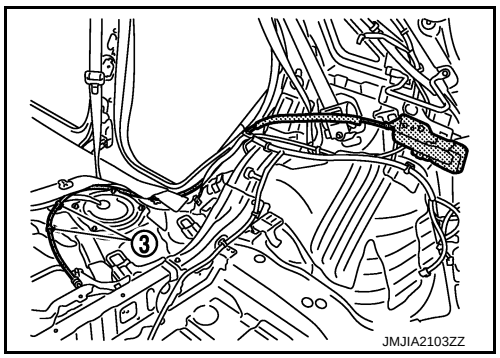
   - Remove the seatback control cable (LH) (2).



   - Remove the mounting bolt (A).



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

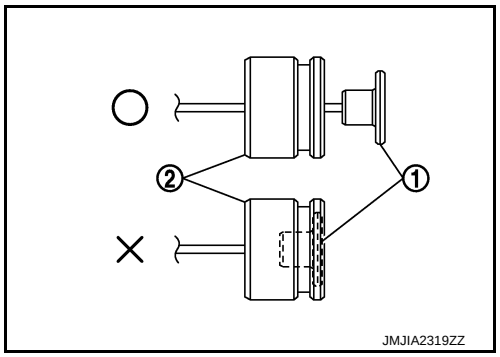


INSTALLATION

Install in the reverse order of removal.

CAUTION:

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



POWER SEAT SWITCH

Exploded View

INFOID:0000000003842761

Refer to SE-70, "Exploded View".

Removal and Installation

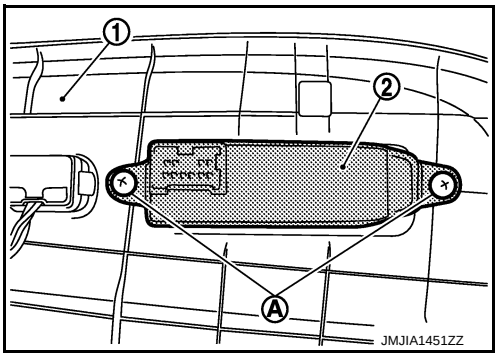
INFOID:0000000003842762

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-73, "Removal and Installation".
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.

LUMBAR SUPPORT SWITCH

Exploded View

INFOID:0000000003842763

Refer to SE-70, "Exploded View".

Removal and Installation

INFOID:0000000003842764

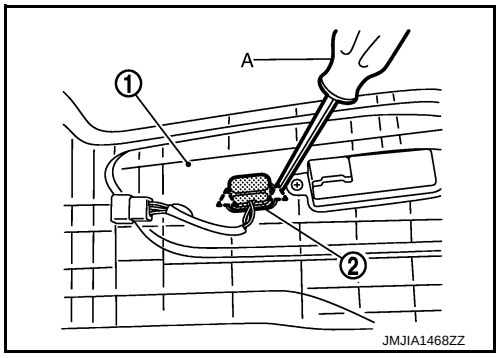
REMOVAL

CAUTION:

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

1. Remove the seat cushion outer finisher (1). Refer to SE-73, "Removal and Installation".
2. Remove the lumbar support switch (2) from the seat cushion outer finisher with flat-bladed screw driver (A).

: Pawl



INSTALLATION

Install in the reverse order of removal.

CAUTION:

Be careful to clamp the harness to the right place.

SIDE SUPPORT SWITCH

Removal and Installation

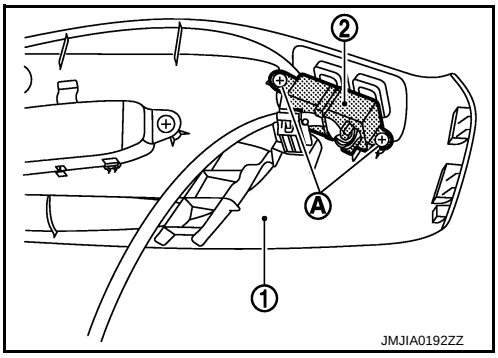
INFOID:0000000003910585

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-73, "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".

CLIMATE CONTROLLED SEAT SWITCH

Exploded View

INFOID:0000000003842767

Refer to IP-22, "Exploded View".

Removal and Installation

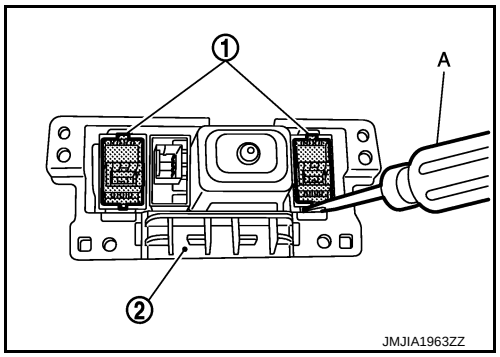
INFOID:0000000003842768

REMOVAL

CAUTION:

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 IP-22, "Removal and Installation"
2. Climate controlled seat switch (1) is removed from console switch finisher (2) using flat-bladed screwdriver (A) etc.



INSTALLATION

Install in the reverse order of removal.

CLIMATE CONTROLLED SEAT BLOWER FILTER

Exploded View

INFOID:0000000004019778

Refer to SE-70, "Exploded View".

Removal and Installation

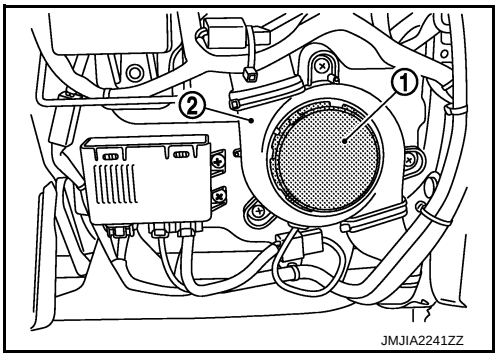
INFOID:0000000004019779

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.

Replacement interuals

Blower filter replacement interuals :Every 24 months or 48,000km