SECTION SE
SEAT

CONTENTS

BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

INFOID:0000000000960459

DETAILED FLOW

1.OBTAIN INFORMATION ABOUT SYMPTOM

Interview the customer to obtain the malfunction information (conditions and environment when the malfunction occurred) as much 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.PERFORM “BASIC INSPECTION”

Perform the basic inspection.Refer to SE-91, "Basic Inspection".

>> GO TO 4.

4.IDENTIFY THE MALFUNCTIONING SYSTEM WITH “SYMPTOM DIAGNOSIS”

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

>> GO TO 5.

5.IDENTIFY MALFUNCTIONING PARTS WITH “COMPONENT DIAGNOSIS”

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

>> GO TO 6.

6.REPAIR OR REPLACE THE MALFUNCTIONING PARTS

Repair or replace the specified malfunctioning parts.

>> GO TO 7.

7.FINAL CHECK

Is the malfunctioning part repaired or replaced?
(Check that malfunctions are not reproduced when obtaining the malfunction information from the customer, referring to the symptom inspection result in step 2.)

YES or NO

YES >> Trouble diagnosis is completed.
NO >> GO TO 3.

FUNCTION DIAGNOSIS

POWER SEAT

System Description

INFOID:0000000000960460

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

SLIDING OPERATION

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

RECLINING OPERATION

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

LIFTING OPERATION

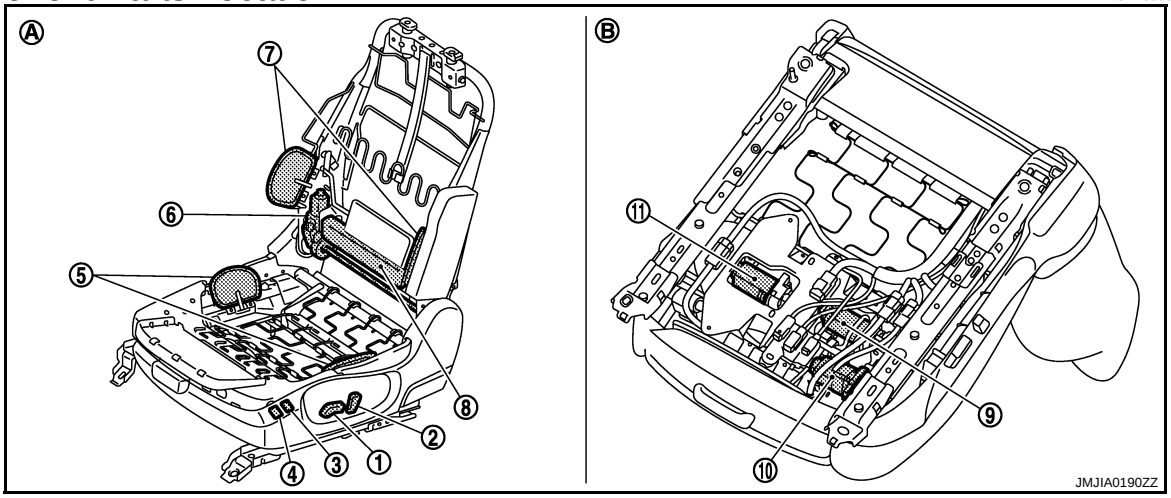
While operating the lifting switch located in power seat switch, lifting motor operates and makes possible the seat cushion up and down position adjustment.

SIDE SUPPORT OPERATION

- While operating the side support switch, the pump located inside side support unit operates and adjust the air pressure in seat cushion and seatback side support.
- It is possible to soften the side support, by allowing some air to escape, 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:0000000000960461



1.	Sliding switch and lifting switch B414	2.	Reclining switch B414	3.	Side support switch (seat back) B414
4.	Side support switch (seat cushion) B414	5.	Side support (seat cushion)	6.	Reclining motor B415
7.	Side support (seat back)	8.	Side support unit B420	9.	Lifting motor (rear) B418
10.	Sliding motor B416	11.	Lifting motor (front) B417		
A.	View with seat cushion pad and seat back pad are removed.	B.	View with back side of seat cushion.		

Component Description

INFOID:0000000000960462

Item	Function
BCM	Supplies at all times the power received from battery to power seat switch and side support unit.
Power seat switch	Built-in reclining switch, sliding switch and lifting switch, controls the power supplied to each motor.

Item	Function
Reclining motor	With the power supplied to power seat switch, operates the forward and backward movement of seatback.
Sliding motor	With the power supplied to power seat switch, operates the forward and backward slide of seat.
Lifting motor (front/rear)	With the power supplied to power seat switch, operates the up and down movement of seat cushion.
Side support switch	With a built-in cushion side and seat back side, controls the power supplied to pump and to each solenoid.
Side support unit	Built-in pump, pump relay and solenoid, operates when pressing ON/OFF on side support switch.

TILT&TELESCOPIC SYSTEM

System Description

INFOID:0000000000960463

Power from battery is supplied at all times to automatic driver positioner control unit, tilt and telescopic system can operate regardless of the ignition switch position.

TILT OPERATION

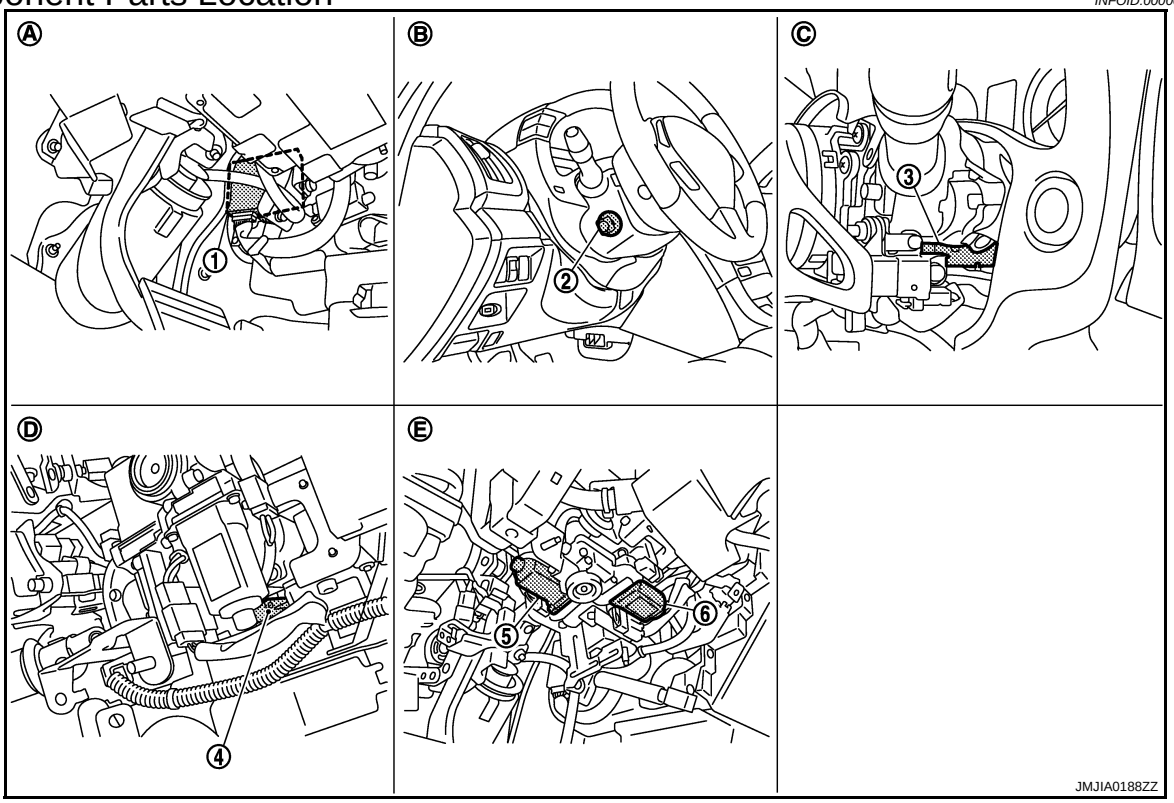
- While operating the tilt and telescopic switch, tilt motor operates, and allows up or down position adjustment of steering wheel.
- During tilt motor operation tilt sensor detects the position of steering wheel and automatically cuts the power when the operation limit is reached.

TELESCOPIC OPERATION

- Operating the tilt and telescopic switch, telescopic motor operates and allows forward and backward position regulation of steering wheel.
- During telescopic motor operation telescopic sensor detects the position of steering wheel and automatically cuts the power when the operation limit is reached.

Component Parts Location

INFOID:0000000000960464



1.	Automatic drive positioner control unit M51, M52	2.	Tilt & telescopic switch M31	3.	Telescopic sensor M48
4.	Tilt sensor M48	5.	Telescopic motor M49	6.	Tilt motor M49
A.	View with instrument driver lower panel is removed.	B.	Steering column cover	C.	View with steering column cover is removed.
D.	View with steering column cover is removed.	E.	View with instrument lower cover is removed.		

Component Description

INFOID:0000000000960465

Item	Function
Automatic drive positioner control unit	Detects data input signal of tilt and telescopic switch and tilt and telescopic sensor, performs tilt and telescopic motor control.
Tilt and telescopic switch	Tilt switch and telescopic switch, as a unit, transmit switch operation signal to automatic drive positioner control unit.
Tilt and telescopic motor	Operates with the power received from automatic drive control unit.
Tilt and telescopic sensor	Detects the position of steering, send signal to automatic drive positioner control unit.

HEATED SEAT

System Description

INFOID:0000000000960466

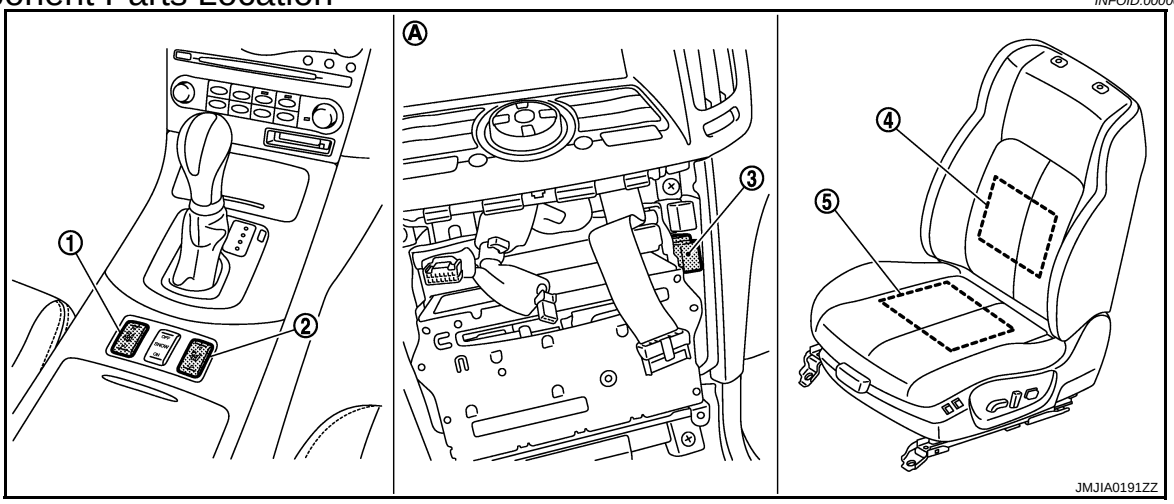
Heated seat is a system that operates when ignition switch is in ON or START position.

HEATER OPERATION

- While operating the heated seat switch, seat cushion heater and seat back heater operate.
- Changing heated seat switch to LOW/HIGH position, depending on working heater number it is possible to adjust the seat temperature.

Component Parts Location

INFOID:0000000000960467



1. Heated seat switch (driver side) M138: with A/T, M172: with M/T
2. Heated seat switch (passenger side) M140: with A/T, M173: with M/T
3. Heated seat relay M70
4. Seat back heater B413
5. Seat cushion heater B412

A. View with cluster lid assembly is removed.

Component Description

INFOID:0000000000960468

Item	Function
Heated seat switch (driver side / passenger side)	• Power is supplied to each heater. • Depending on LOW/HIGH position of switch, operating heater number is changeable.
Seat cushion heater	Built-in seat cushion, the heater operates with the power supplied by heater seat switch.
Seat back heater	Built-in seatback, the heater operates with the power supplied by heater seat switch.

LUMBAR SUPPORT

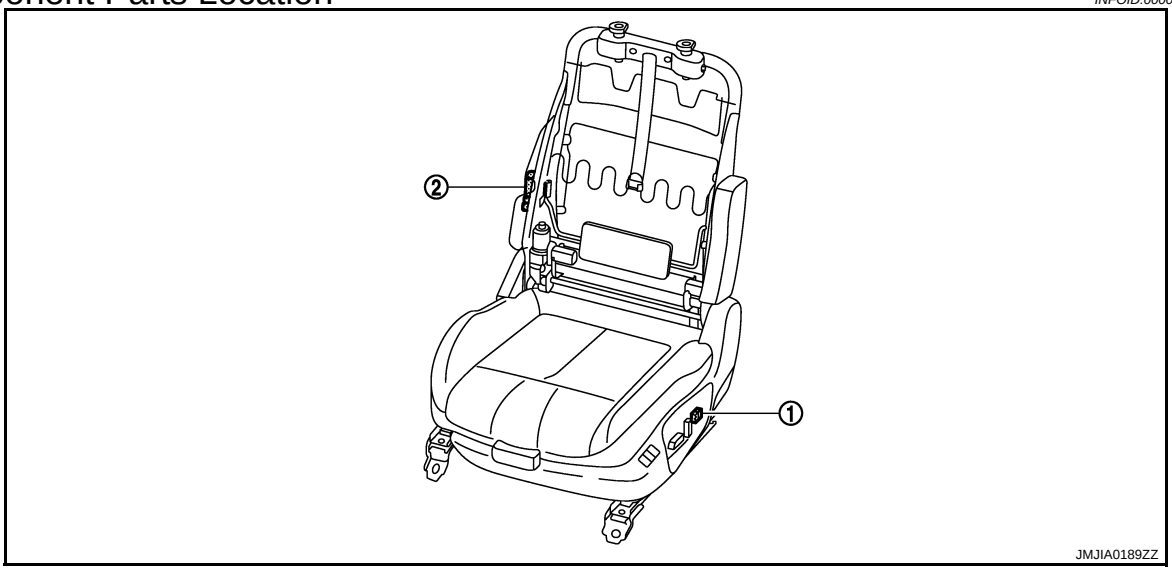
System Description

INFOID:0000000000960469

- 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:0000000000960470



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

Component Description

INFOID:0000000000960471

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

COMPONENT DIAGNOSIS

POWER SEAT POWER SUPPLY CIRCUIT

Component Function Check

INFOID:0000000000960472

1.CHECK DOOR LOCK FUNCTION

Check door lock function.
Refer to DLK-10, "DOOR LOCK AND UNLOCK SWITCH : System Description".

Is the inspection results normal?

YES >> GO TO 2.
NO >> Refer to DLK-168, "DOOR LOCK AND UNLOCK SWITCH : Symptom Table".

2.CHECK POWER SEAT FUNCTION

Check slide operation with power seat switch.

Is the inspection results normal?

YES >> Power seat power supply circuit is OK.
NO >> Refer to SE-11, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000000960473

1.CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect power seat switch and side support unit connectors.
3. Check voltage between power seat switch connector and ground.

Terminals			Voltage
(+)		(-)	
Power seat switch connector	Terminal		
B414	1	Ground	Battery voltage

4. Check voltage between side support unit connector and ground.

Terminals			Voltage
(+)		(-)	
Side supoort unit connector	Terminal		
B420	1	Ground	Battery voltage

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-39, "Intermittent Incident".
NO >> Repair or replace power supply circuit.

HEATED SEAT POWER SUPPLY AND GROUND CIRCUIT

Component Function Check

INFOID:0000000000960474

1.CHECK HEATED SEAT FUNCTION

1. Turn ignition switch ON.
2. Check operation of heated seat with heated seat switch.

Is the inspection result normal?

YES >> Heated seat power supply and ground circuit are OK.
NO >> Refer to SE-12, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000000960475

1.CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect heated seat switch connector.
3. Check voltage between heated seat switch (driver side) and ground.

Terminals			Voltage
(+)		(-)	
Heated seat switch connector	Terminal		
M138 (with A/T) M172 (with M/T)	1	Ground	Battery voltage

4. Check voltage between heated seat switch (passenger side) and ground.

Terminals			Voltage
(+)		(-)	
Heated seat switch connector	Terminal		
M140 (with A/T) M173 (with M/T)	1	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace power supply circuit.

2.CHECK GROUND CIRCUIT

1. Check continuity between heated seat switch (driver side) and ground.

Heated seat switch connector	Terminal	Ground	Continuity
M138 (with A/T) M172 (with M/T)	4		Existed

2. Check continuity between heated seat switch (passenger side) and ground.

Heated seat switch connector	Terminal	Ground	Continuity
M140 (with A/T) M173 (with M/T)	4		Existed

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-39, "Intermittent Incident".
NO >> Repair or replace power supply circuit.

POWER SEAT SWITCH

Description

INFOID:0000000000960476

With a built-in reclining switch, sliding switch and lifting switch, power seat switch controls the power supplied to each motor.

Component Function Check

INFOID:0000000000960477

1.CHECK POWER SEAT SWITCH FUNCTION

Check power seat operation with power seat switch.

Is the inspection results normal?

YES >> Power seat switch is OK.
NO >> Refer to SE-13, "Diagnosis Procedure"..

Diagnosis Procedure

INFOID:0000000000960478

1.CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect power seat switch connector.
3. Check continuity between power seat switch (driver side) and ground.

Power seat switch connector	Terminal	Ground	Continuity
B414	2		Existed

4. Check continuity between power seat switch (passenger side) and ground.

Power seat switch connector	Terminal	Ground	Continuity
B434	2		Existed

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace ground circuit.

2.CHECK POWER SEAT SWITCH

Check power seat switch function.
Refer to SE-13, "Component Inspection".

Is the inspection result normal?

YES >> Power seat switch is OK.
NO >> Replace power seat switch.

Component Inspection

INFOID:0000000000960479

NOTE:
Same component inspection procedure for driver seat and passenger seat.

1.CHECK POWER SEAT SWITCH

1. Turn ignition switch OFF.
2. Remove power seat switch.
3. Detect the malfunctioning switch.

Which switch is malfunctioning?

RECLINING SWITCH>>GO TO 2.
SLIDING SWITCH>>GO TO 3.
LIFTING MOTOR (FRONT)>>GO TO 4.
LIFTING MOTOR (REAR)>>GO TO 5.

2.CHECK RECLINING SWITCH

Check continuity between power seat switch terminals.

Terminal		Switch condition	Continuity
1	3	Forward	Existed
		Neutral	Not existed
		Back ward	Not existed
2		Forward	Not existed
		Neutral	Not existed
		Back ward	Existed
1	4	Forward	Not existed
		Neutral	Not existed
		Back ward	Existed
2		Forward	Existed
		Neutral	Not existed
		Back ward	Not existed

Is the inspection result normal?

YES >> Power seat switch (reclining switch) is OK.
NO >> Replace power seat switch. Refer to SE-109, "Removal and Installation".

3.CHECK SLIDING SWITCH

Check continuity between power seat switch terminals.

Terminal		Switch condition	Continuity
1	5	Forward	Existed
		Neutral	Not existed
		Back ward	Not existed
2		Forward	Not existed
		Neutral	Not existed
		Back ward	Existed
1	6	Forward	Not existed
		Neutral	Not existed
		Back ward	Existed
2		Forward	Existed
		Neutral	Not existed
		Back ward	Not existed

Is the inspection result normal?

YES >> Power seat switch (sliding switch) is OK.
NO >> Replace power seat switch. Refer to SE-109, "Removal and Installation".

4.CHECK LIFTING SWITCH (FRONT)

Check continuity between power seat switch terminals.

Terminal		Switch condition	Continuity
1	9	Up	Existed
		Neutral	Not existed
		Down	Not existed
2		Up	Not existed
		Neutral	Not existed
		Down	Existed

Terminal		Switch condition	Continuity
1	10	Up	Not existed
		Neutral	Not existed
		Down	Existed
2		Up	Existed
		Neutral	Not existed
		Down	Not existed

Is the inspection result normal?

YES >> Power seat switch (front lifting switch) is OK.
NO >> Replace power seat switch. Refer to SE-109, "Removal and Installation".

5. CHECK LIFTING SWITCH (REAR)

Check continuity between power seat switch terminals.

Terminal		Switch condition	Continuity
1	7	Up	Existed
		Neutral	Not existed
		Down	Not existed
2		Up	Not existed
		Neutral	Not existed
		Down	Existed
1	8	Up	Not existed
		Neutral	Not existed
		Down	Existed
2		Up	Existed
		Neutral	Not existed
		Down	Not existed

Is the inspection result normal?

YES >> Power seat switch (rear lifting switch) is OK.
NO >> Replace power seat switch. Refer to SE-109, "Removal and Installation".

SIDE SUPPORT SWITCH

Description

INFOID:0000000000960480

With a built-in cushion side and seatback side, side support switch controls the power supplied to pump and to each solenoid.

Component Function Check

INFOID:0000000000960481

1.CHECK SIDE SUPPORT SWITCH FUNCTION

Check side support operation with side support switch.

Is the inspection results normal?

YES >> Side support switch is OK.
NO >> Refer to SE-16, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000000960482

1.CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect side support switch connector.
3. Check continuity between side support switch and ground.

Side support switch connector	Terminal	Ground	Continuity
B419	2		Existed

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace ground circuit.

2.CHECK SIDE SUPPORT SWITCH

Check side support switch function.
Refer to SE-16, "Component Inspection".

Is the inspection result normal?

YES >> Side support switch is OK.
NO >> Replace side support switch.

Component Inspection

INFOID:0000000000960483

1.CHECK SIDE SUPPORT SWITCH

1. Turn ignition switch OFF.
2. Remove side support switch.
3. Detect the malfunctioning switch.

Which switch is malfunctioning?

CUSHION SIDE>>GO TO 2.
SEATBACK SIDE>>GO TO 3.

2.CHECK CUSHION SIDE SWITCH

Check continuity between side support switch (cushion side) terminals.

Terminal		Cushion side switch condition	Continuity
15	2	Inflate	Existed
		Neutral	Not existed
		Deflate	Not existed
16		Inflate	Not existed
		Neutral	Not existed
		Deflate	Existed

Is the inspection result normal?

YES >> Side support switch (cushion side) is OK.
NO >> Replace side support switch. Refer to SE-110, "Removal and Installation".

3. CHECK SEATBACK SIDE SWITCH

Check continuity between power seat switch terminals.

Terminal		Seatback side switch condition	Continuity
17	2	Inflate	Existed
		Neutral	Not existed
		Deflate	Not existed
18		Inflate	Not existed
		Neutral	Not existed
		Deflate	Existed

Is the inspection result normal?

YES >> Side support switch (seatback side) is OK.
NO >> Replace side support switch. Refer to SE-110, "Removal and Installation".

TILT&TELESCOPIC SWITCH

Description

INFOID:0000000000960484

Tilt switch and telescopic switch as a unit, transmit switch operation signal to automatic drive positioner control unit.

Component Function Check

INFOID:0000000000960485

1.CHECK TILT AND TELESCOPIC SWITCH FUNCTION

Check tilt and telescopic operation with tilt and telescopic switch.

Is the inspection results normal?

YES >> Tilt and telescopic switch is OK.
NO >> Refer to SE-18, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000000960486

1.CHECK TILT AND TELESCOPIC SWITCH FUNCTION

Check voltage between tilt and telescopic switch and ground.

Tilt and telescopic switch		Ground	Switch condition	Voltage (V) Approx.
Connector	Terminal			
M31	2	Ground	Forward position	0
			Other than above	5
	3		Backward position	0
			Other than above	5
	4		Upward position	0
			Other than above	5
	5		Downward	0
			Other than above	5

Is the inspection result normal?

YES >> Tilt and telescopic switch is OK.
NO >> GO TO 2.

2.CHECK TILT AND TELESCOPIC SWITCH SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect tilt and telescopic switch and automatic drive positioner control unit connectors.
3. Check continuity between tilt and telescopic switch and automatic drive positioner control unit.

Tilt and telescopic switch connector	Terminal	ADP control unit	Terminal	Continuity
M31	2	M51	11	Existed
	3		27	
	4		1	
	5		17	

4. Check continuity between tilt and telescopic switch and ground.

Tilt and telescopic switch connector	Terminal		Continuity
M31	2	Ground	Not existed
	3		
	4		
	5		

Is the inspection result normal?

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

3. CHECK TILT AND TELESCOPIC SWITCH GROUND CIRCUIT

Check continuity between tilt and telescopic switch and ground.

Tilt and telescopic switch connector	Terminal	Ground	Continuity
M31	1		Existed

Is the inspection result normal?

YES >> GO TO 4.
NO >> Repair or replace circuit.

4. CHECK TILT AND TELESCOPIC SWITCH

Check tilt and telescopic switch.
Refer to SE-19, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace tilt and telescopic switch.

5. CHECK ADP CONTROL UNIT

1. Connect automatic drive positioner control unit connector.
2. Check voltage between automatic drive positioner control unit and ground.

Tilt and telescopic switch		Ground	Voltage (V) Approx.
Connector	Terminal		
M51	1	Ground	5
	11		5
	17		5
	27		5

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-39, "Intermittent Incident".
NO >> Replace automatic drive positioner control unit. Refer to SE-107, "Removal and Installation".

Component Inspection

INFOID:0000000000960487

1. CHECK TILT SWITCH

1. Turn ignition switch OFF.
2. Remove tilt and telescopic switch.
3. Check continuity between tilt and telescopic switch terminals.

Terminal		Switch condition	Continuity
2	1	Forward	Existed
		Other than above	Not existed
3		Backward	Existed
		Other than above	Not existed
4		Upward	Existed
		Other than above	Not existed
5		Downward	Existed
		Other than above	Not existed

Is the inspection result normal?

YES >> Tilt and telescopic switch is OK.
NO >> Replace tilt and telescopic switch. Refer to SE-112, "Removal and Installation".

HEATED SEAT SWITCH

Description

INFOID:0000000000960488

- Power is supplied to each heater.
- Depending on HIGH/LOW position of switch, operating heater number is changeable.

Component Function Check

INFOID:0000000000960489

1.CHECK HEATED SEAT SWITCH FUNCTION

1. Turn ignition switch ON.
2. Check heated seat operation with heated seat switch.

Is the inspection results normal?

YES >> Power seat switch is OK.
NO >> Refer to SE-20, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000000960490

1.CHECK HEATED SEAT SWITCH SIGNAL CIRCUIT

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

Heated seat switch connector	Terminal	Seat cushion heater connector	Terminal	Continuity
M138 (Driver side with A/T) M172 (Driver side with M/T) M140 (Passenger side with A/T) M173 (Passenger side with M/T)	2	B412 (Driver side) B432 (Passenger side)	12	Existed
	3		11	Existed

4. Check continuity between heated seat switch and ground.

Heated seat switch connector	Terminal		Continuity
M138 (Driver side with A/T) M172 (Driver side with M/T) M140 (Passenger side with A/T) M173 (Passenger side with M/T)	2	Ground	Not existed
	3		

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace circuit.

2.CHECK HEATED SEAT SWITCH

Check heated seat switch.
Refer to SE-20, "Component Inspection".

Is the inspection result normal?

YES >> INSPECTION END.
NO >> Replace tilt and telescopic switch.

Component Inspection

INFOID:0000000000960491

NOTE:
Same component inspection procedure for driver seat and passenger seat.

1.CHECK HEATED SEAT SWITCH

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

Terminal		Switch condition	Continuity
1	2	High	Not existed
		OFF	Not existed
		Low	Existed
	3	High	Existed
		OFF	Not existed
		Low	Not existed
1 (+)	4 (-)	High	Existed
		OFF	Not existed
		Low	Existed
1 (-)	4 (+)	High	Not existed
		OFF	Not existed
		Low	Not existed

Is the inspection result normal?

YES >> Heated seat switch is OK.
NO >> Replace heated seat switch.

SEAT HEATER

Description

INFOID:0000000000960492

- With a built-in seat cushion, the heater operates with the power supplied by heater seat switch.
- With a built-in seat back, the heater operates with the power supplied by heater seat switch.

Component Function Check

INFOID:0000000000960493

1.CHECK SEAT HEATER FUNCTION

Check heated operation with heated seat switch.

Is the inspection results normal?

YES >> Power seat switch is OK.
NO >> Refer to SE-22, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000000960494

1.CHECK SEAT HEATER GROUND CIRCUIT

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

Tilt and telescopic switch connector	Terminal		Continuity
B412 (Driver side) B433 (Passenger side)	2	Ground	Existed

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace circuit.

2.CHECK INTERMITTENT INCIDENT

Check intermittent incident.
Refer to GI-39, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace seat heater.
NO >> Repair or replace the malfunction part.

SLIDING MOTOR

Description

INFOID:0000000000960495

With the power supplied to power seat switch, sliding motor operates the forward and backward slide of seat.

Component Function Check

INFOID:0000000000960496

1.CHECK SLIDING MOTOR FUNCTION

Check sliding operation with power seat switch.

Is the inspection results normal?

YES >> Sliding motor is OK.
NO >> Refer to SE-23, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000000960497

1.CHECK SLIDING MOTOR POWER SUPPLY AND GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect sliding motor and power seat switch connector.
3. Check continuity between sliding motor and power seat switch.

Sliding motor connector	Terminal	Power seat switch connector	Terminal	Continuity
B416 (Driver side) B436 (Passenger side)	5	B416 (Driver side) B436 (Passenger side)	5	Existed
	6		6	

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace circuit.

2.CHECK SLIDING MOTOR

Check sliding motor.
Refer to SE-23, "Component Inspection".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-39, "Intermittent Incident".
NO >> Replace sliding motor.

Component Inspection

INFOID:0000000000960498

1.CHECK SLIDING MOTOR-I

Check visually the sliding motor to see if any foreign object is not disturbing the functionment or if the sliding motor is not broken.

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace seat cushion frame (sliding motor).

2.CHECK SLIDING MOTOR-II

1. Turn ignition switch OFF.
2. Disconnect sliding motor connector.
3. Supply sliding motor terminals with battery voltage and check operation.

Terminal		Operation
(+)	(–)	
5	6	Forward
6	5	Backward

Is the inspection result normal?

YES >> Sliding motor is OK.
NO >> Replace seat cushion frame (sliding motor).

RECLINING MOTOR

Description

INFOID:0000000000960499

With the power supplied to power seat switch, reclining motor operates the forward and backward movement of seatback.

Component Function Check

INFOID:0000000000960500

1.CHECK RECLINING MOTOR FUNCTION

Check reclining operation with power seat switch.

Is the inspection results normal?

YES >> Reclining motor is OK.
NO >> Refer to SE-25, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000000960501

1.CHECK RECLINING MOTOR POWER SUPPLY AND GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect reclining motor and power seat switch connector.
3. Check continuity between reclining motor and power seat switch.

Reclining motor connector	Terminal	Power seat switch connector	Terminal	Continuity
B415 (Driver side) B435 (Passenger side)	3	B415 (Driver side) B435 (Passenger side)	3	Existed
	4		4	

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace circuit.

2.CHECK RECLINING MOTOR

Check reclining motor.
Refer to SE-25, "Component Inspection".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-39, "Intermittent Incident".
NO >> Replace reclining motor.

Component Inspection

INFOID:0000000000960502

1.CHECK RECLINING MOTOR-I

Check visually the reclining motor to see if any foreign object is not disturbing the functionment or if the reclining motor is not broken.

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace seatback frame (reclining motor).

2.CHECK RECLINING MOTOR-II

1. Turn ignition switch OFF.
2. Disconnect reclining motor connector.
3. Supply reclining motor terminals with battery voltage and check operation.

Terminal		Operation
(+)	(–)	
3	4	Forward
4	3	Backward

Is the inspection result normal?

YES >> Reclining motor is OK.
NO >> Replace seatback frame (reclining motor).

LIFTING MOTOR

Description

INFOID:0000000000960503

With the power supplied to power seat switch, lifting motor operates the up and down movement of seat cushion.

Component Function Check

INFOID:0000000000960504

1.CHECK LIFTING MOTOR FUNCTION

Check lifting operation with power seat switch.

Is the inspection results normal?

YES >> Lifting motor is OK.
NO >> Refer to SE-27, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000000960505

1.CHECK MALFUNCTIONING PART

Check which lifting is not operating.

Is it rear or front?

Front >> GO TO 2.
Rear >> GO TO 3.

2.CHECK LIFTING MOTOR (FRONT) POWER SUPPLY AND GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect lifting motor (front) and power seat switch connector.
3. Check continuity between lifting motor (front) and power seat switch.

Lifting motor connector	Terminal	Power seat switch connector	Terminal	Continuity
B417 (Driver side) B437 (Passenger side)	9	B417 (Driver side) B437 (Passenger side)	9	Existed
	10		10	

Is the inspection result normal?

YES >> GO TO 4.
NO >> Repair or replace circuit.

3.CHECK LIFTING MOTOR (REAR) POWER SUPPLY AND GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect lifting motor (rear) and power seat switch connector.
3. Check continuity between lifting motor (rear) and power seat switch.

Lifting motor connector	Terminal	Power seat switch connector	Terminal	Continuity
B418 (Driver side) B438 (Passenger side)	7	B418 (Driver side) B438 (Passenger side)	7	Existed
	8		8	

Is the inspection result normal?

YES >> GO TO 4.
NO >> Repair or replace circuit.

4.CHECK SLIDING MOTOR

Check lifting motor.
Refer to SE-28, "Component Inspection".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-39, "Intermittent Incident".
NO >> Replace lifting motor.

Component Inspection

INFOID:0000000000960506

1.CHECK LIFTING MOTOR-I

Check visually the lifting motor to see if any foreign object is not disturbing the functionment or if the lifting motor is not broken.

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace seat cushion frame (lifting motor).

2.CHECK LIFTING MOTOR-II

1. Turn ignition switch OFF.
2. Disconnect lifting motor connector.
3. Supply lifting motor terminals with battery voltage and check operation.

Item	Terminal		Operation
	(+)	(–)	
Lifting motor (front)	9	10	Up
	10	9	Down
Lifting motor (rear)	7	8	Up
	8	7	Down

Is the inspection result normal?

YES >> Lifting motor is OK.
NO >> Replace seat cushion frame (lifting motor).

TILT&TELESCOPIC MOTOR

Description

INFOID:0000000000960507

Tilt and telescopic motor operates with the power received from automatic drive positioner control unit.

Component Function Check

INFOID:0000000000960508

1.CHECK TILT AND TELESCOPIC MOTOR FUNCTION

Check tilt and telescopic operation with tilt and telescopic switch.

Is the inspection results normal?

YES >> Tilt and telescopic motor are OK.
NO >> Refer to SE-29, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000000960509

1.CHECK MALFUNCTIONING PART

Check malfunctioning part.

Is it tilt operation or telescopic operation?

Tilt >> GO TO 2.
Telescopic>>GO TO 3.

2.CHECK TILT MOTOR POWER SUPPLY AND GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect tilt motor and automatic drive positioner control unit.
3. Check continuity between tilt motor and automatic drive positioner control unit.

Tilt and telescopic motor connector	Terminal	Power seat switch connector	Terminal	Continuity
M49	3	M52	42	Existed
	4		35	

Is the inspection result normal?

YES >> GO TO 4.
NO >> Repair or replace circuit.

3.CHECK TELESCOPIC MOTOR POWER SUPPLY AND GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect telescopic motor and automatic drive positioner control unit.
3. Check continuity between telescopic motor and automatic drive positioner control unit.

Tilt and telescopic motor connector	Terminal	Power seat switch connector	Terminal	Continuity
M49	1	M52	44	Existed
	2		36	

Is the inspection result normal?

YES >> GO TO 4.
NO >> Repair or replace circuit.

4.CHECK TILT AND TELESCOPIC MOTOR

Check tilt and telescopic motor.
Refer to SE-30, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace tilt and telescopic motor.

5.CHECK ADP CONTROL UNIT

1. Connect automatic drive positioner control unit connector.
2. Check voltage between automatic drive positioner control unit and ground.

Tilt and telescopic switch		Ground	Tilt and telescopic switch condition	Voltage (V) Approx.
Connector	Terminal			
M51	35		Upward	Battery voltage
			Other than above	0
	36		Forward	Battery voltage
			Other than above	0
	42		Downward	Battery voltage
			Other than above	0
	44		Backward	Battery voltage
			Other than above	0

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-39, "Intermittent Incident".
NO >> Replace automatic drive positioner control unit. Refer to SE-107, "Removal and Installation".

Component Inspection

INFOID:0000000000960510

1.CHECK TILT AND TELESCOPIC MOTOR-I

Check visually the tilt and telescopic motor to see if any foreign object is not disturbing the functionment or if the tilt and telescopic motor is not broken.

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace tilt and telescopic motor.

2.CHECK TILT AND TELESCOPIC MOTOR-II

1. Turn ignition switch OFF.
2. Disconnect tilt and telescopic motor connector.
3. Supply tilt and telescopic motor terminals with battery voltage and check operation.

Item	Terminal		Operation
	(+)	(–)	
Telescopic motor	1	2	Backward
	2	1	Forward
Tilt motor	3	4	Downward
	4	3	Upward

Is the inspection result normal?

YES >> Tilt and telescopic motor is OK.
NO >> Replace tilt and telescopic motor.

SIDE SUPPORT UNIT

Description

INFOID:0000000000960511

Built-in pump, pump relay and solenoid, side support unit operates when pressing ON/OFF on side support switch.

Component Function Check

INFOID:0000000000960512

1.CHECK SIDE SUPPORT UNIT FUNCTION

Check side support operation with side support switch.

Is the inspection results normal?

YES >> Side support unit is OK.
NO >> Refer to SE-31, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000000960513

1.CHECK SIDE SUPPORT UNIT SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect side support unit and side support switch connectors.
3. Check continuity between side support unit and side support switch connector.

Side support unit connector	Terminal	Side support switch connector	Terminal	Continuity
B420	15	B419	15	Existed
	16		16	
	17		17	
	18		18	

4. Check continuity between side support unit and ground.

Side support unit connector	Terminal		Continuity
B420	15	Ground	Not existed
	16		
	17		
	18		

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace circuit.

2.CHECK SIDE SUPPORT UNIT GROUND CIRCUIT

Check continuity between side support unit and ground.

Side support unit connector	Terminal		Continuity
B420	2	Ground	Existed

Is the inspection result normal?

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

3.CHECK INTERMITTENT INCIDENT

Check intermittent incident.
Refer to GI-39, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace side support unit.
NO >> Repair or replace malfunction part.

TILT&TELESCOPIC SENSOR

Description

INFOID:0000000000960514

Tilt and telescopic sensor detects the position of steering wheel and transmits signals to automatic drive positioner control unit.

Component Function Check

INFOID:0000000000960515

1.CHECK TILT AND TELESCOPIC SENSOR FUNCTION

Check tilt and telescopic operation with tilt and telescopic switch.

Is the inspection results normal?

YES >> Tilt and telescopic sensor is OK.
NO >> Refer to SE-32, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000000960516

1.CHECK TILT AND TELESCOPIC SENSOR CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect tilt and telescopic sensor and automatic drive positioner control unit connector.
3. Check continuity between tilt and telescopic sensor and automatic drive positioner control unit.

Tilt and telescopic sensor connector	Terminal	ADP control unit	Terminal	Continuity
M48	1	M51, M52	33	Existed
	2		23	
	3		7	
	4		41	

4. Check continuity between tilt and telescopic sensor and ground.

Tilt and telescopic sensor connector	Terminal	Ground	Continuity
M48	1		Not existed
	2		
	3		
	4		

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace circuit.

2.CHECK TILT AND TELESCOPIC SENSOR POWER SUPPLY

1. Connect automatic drive positioner control unit connector.
2. Check voltage between automatic drive positioner control unit and ground.

Tilt and telescopic sensor		Ground	Voltage
Connector	Terminal		
M52	33		Approx. 5V

Is the inspection result normal?

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

3.CHECK TILT AND TELESCOPIC SENSOR GROUND

Check continuity between automatic drive positioner control unit and ground.

Tilt and telescopic sensor		Ground	Continuity
Connector	Terminal		
M52	41		Existed

Is the inspection result normal?

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

4. CHECK INTERMITTENT INCIDENT

Check intermittent incident.
Refer to GI-39, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit.
NO >> Repair or replace malfunction part.

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident.
Refer to GI-39, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace tilt and telescopic sensor.
NO >> Repair or replace malfunction part.

ADP CONTROL UNIT POWER SUPPLY AND GROUND CIRCUIT

Component Function Check

INFOID:0000000000960517

1.CHECK AUTOMATIC DRIVE POSITIONER CONTROL UNIT FUNCTION

Check tilt and telescopic operation with tilt and telescopic switch.

Is the inspection results normal?

YES >> Automatic drive positioner control unit is OK.
NO >> Refer to SE-34, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000000960518

1.CHECK ADP CONTROL UNIT POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect automatic drive positioner control unit connector.
3. Check voltage between automatic drive positioner control unit connector and ground.

Automatic drive positioner control unit connector		Ground	Voltage
Connector	Terminal		
M52	34		Battery voltage
	39		Battery voltage

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace circuit.

2.CHECK ADP CONTROL UNIT GROUND CIRCUIT

Check continuity between automatic drive positioner control unit connector and ground.

Automatic drive positioner control unit connector	Terminal	Ground	Continuity
M52	40		Existed
	48		Existed

Is the inspection result normal?

YES >> Power supply and ground circuit are OK.
NO >> Repair or replace circuit.

LUMBAR SUPPORT SWITCH

Description

INFOID:0000000000960519

Lumbar support switch controls the power supplied to lumbar support motor.

Component Function Check

INFOID:0000000000960520

1.CHECK LUMBAR SUPPORT SWITCH FUNCTION

Check lumbar support operation with lumbar support switch.

Is the inspection results normal?

YES >> Lumbar support switch is OK.
NO >> Refer to SE-35, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000000960521

1.CHECK LUMBAR SUPPORT SWITCH POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect lumbar support switch connector.
3. Check voltage between lumbar support switch connector and ground.

Lumbar support switch		Ground	Voltage
Connector	Terminal		
B457	33		Battery voltage

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace circuit.

2.CHECK LUMBAR SUPPORT SWITCH GROUND CIRCUIT

Check continuity between lumbar support switch connector and ground.

Lumbar support switch connector	Terminal	Ground	Continuity
B457	48		Existed

Is the inspection result normal?

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

3.CHECK LUMBAR SUPPORT SWITCH

Check lumbar support switch.
Refer to SE-35, "Component Inspection".

Is the inspection result normal?

YES >> Lumbar support switch is OK.
NO >> Replace lumbar support switch.

Component Inspection

INFOID:0000000000960522

1.CHECK LUMBAR SUPPORT SWITCH

1. Disconnect lumbar support switch connector.
2. Check continuity between lumbar support switch terminals.

Terminal		Switch condition	Continuity
57	33	Forward	Existed
		Other than above	Not existed
58		Backward	Existed
		Other than above	Not existed
57	48	Backward	Existed
		Other than above	Not existed
58		Forward	Existed
		Other than above	Not existed

Is the inspection result normal?

YES >> Lumbar support switch is OK.
NO >> Replace lumbar support switch. Refer to SE-111, "Removal and Installation".

LUMBAR SUPPORT MOTOR

Description

INFOID:0000000000960523

With the power supplied to lumbar support switch, lumbar support motor operates the forward and backward movement of seatback support device.

Component Function Check

INFOID:0000000000960524

1.CHECK LUMBAR SUPPORT MOTOR FUNCTION

Check lumbar support operation with lumbar support switch.

Is the inspection results normal?

YES >> Lumbar support motor is OK.
NO >> Refer to SE-37, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000000960525

1.CHECK LUMBAR SUPPORT MOTOR POWER SUPPLY

1. Disconnect lumbar support motor connector.
2. Check voltage between lumbar support motor connector and ground.

Lumbar support motor		Ground	Lumbar support switch condition	Voltage (V) Approx.
Connector	Terminal			
B458	57		Forward position	Battery voltage
			Other than above	0
	58		Backward position	Battery voltage
			Other than above	0

Is the inspection result normal?

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

2.CHECK LUMBAR SUPPORT MOTOR CIRCUIT

1. Disconnect lumbar support switch connector.
2. Check continuity between lumbar support switch and lumbar support motor.

Lumbar support switch connector	Terminal	Lumbar support motor	Terminal	Continuity
B457	57	B458	57	Existed
	58		58	

3. Check continuity between lumbar support switch and ground.

Lumbar support switch connector	Terminal	Ground	Continuity
B457	57		Not existed
	58		

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-39, "Intermittent Incident".
NO >> Repair or replace circuit.

3.CHECK LUMBAR SUPPORT MOTOR

Check lumbar support motor.
Refer to SE-38, "Component Inspection".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-39, "Intermittent Incident".
NO >> Replace lumbar support motor.

Component Inspection

INFOID:0000000000960526

1. CHECK LUMBAR SUPPORT MOTOR-I

Check visually the lumbar support motor to see if any foreign object is not disturbing the functionment or if the lumbar support motor is not broken.

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace lumbar support motor.

2. CHECK LUMBAR SUPPORT MOTOR-II

1. Turn ignition switch OFF.
2. Disconnect lumbar support motor connector.
3. Supply lumbar support motor terminals with battery voltage and check operation.

Terminal		Operation
(+)	(–)	
57	58	Forward
58	57	Backward

Is the inspection result normal?

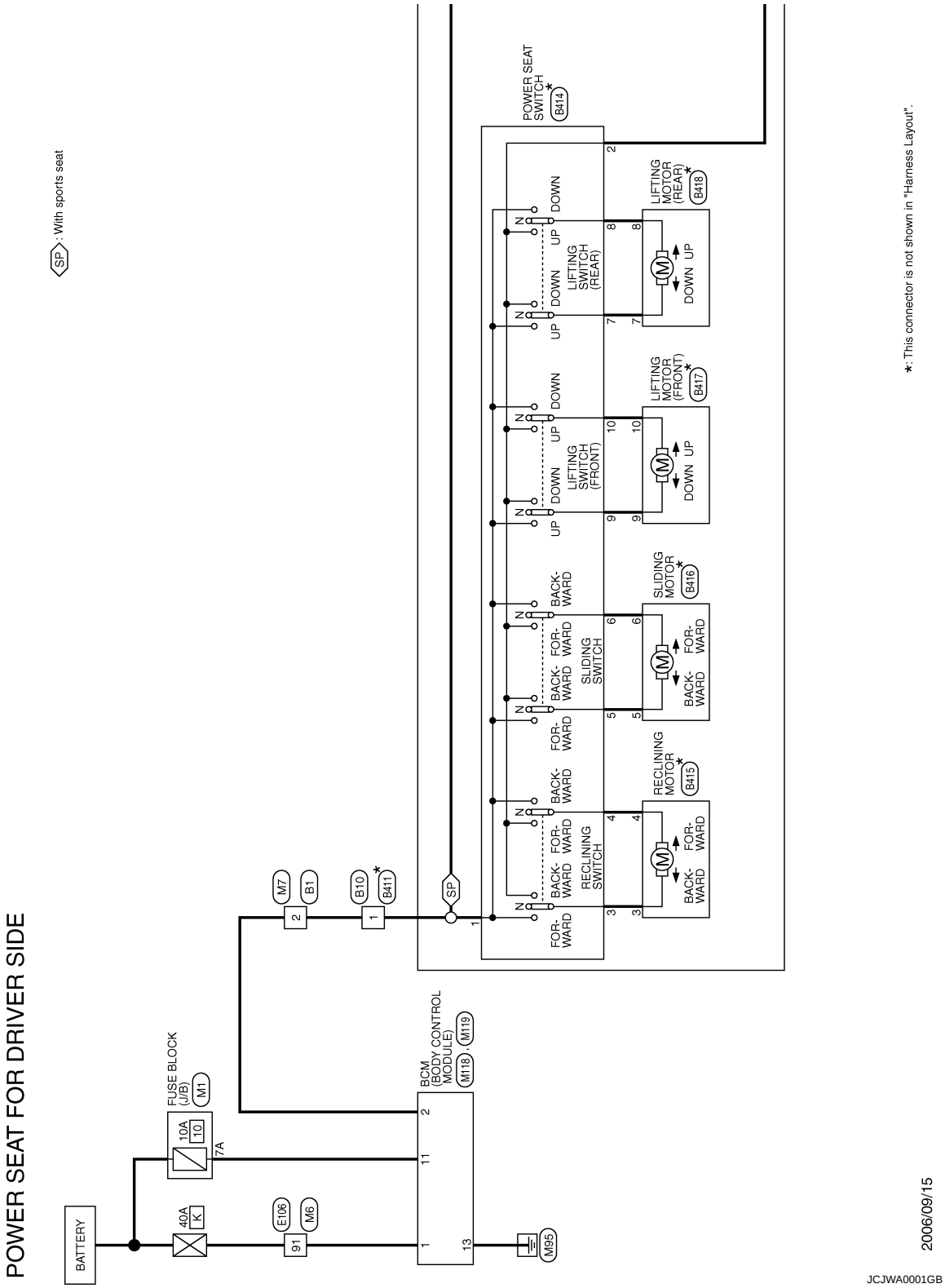
YES >> Lumbar support motor is OK..
NO >> Replace lumbar support motor.

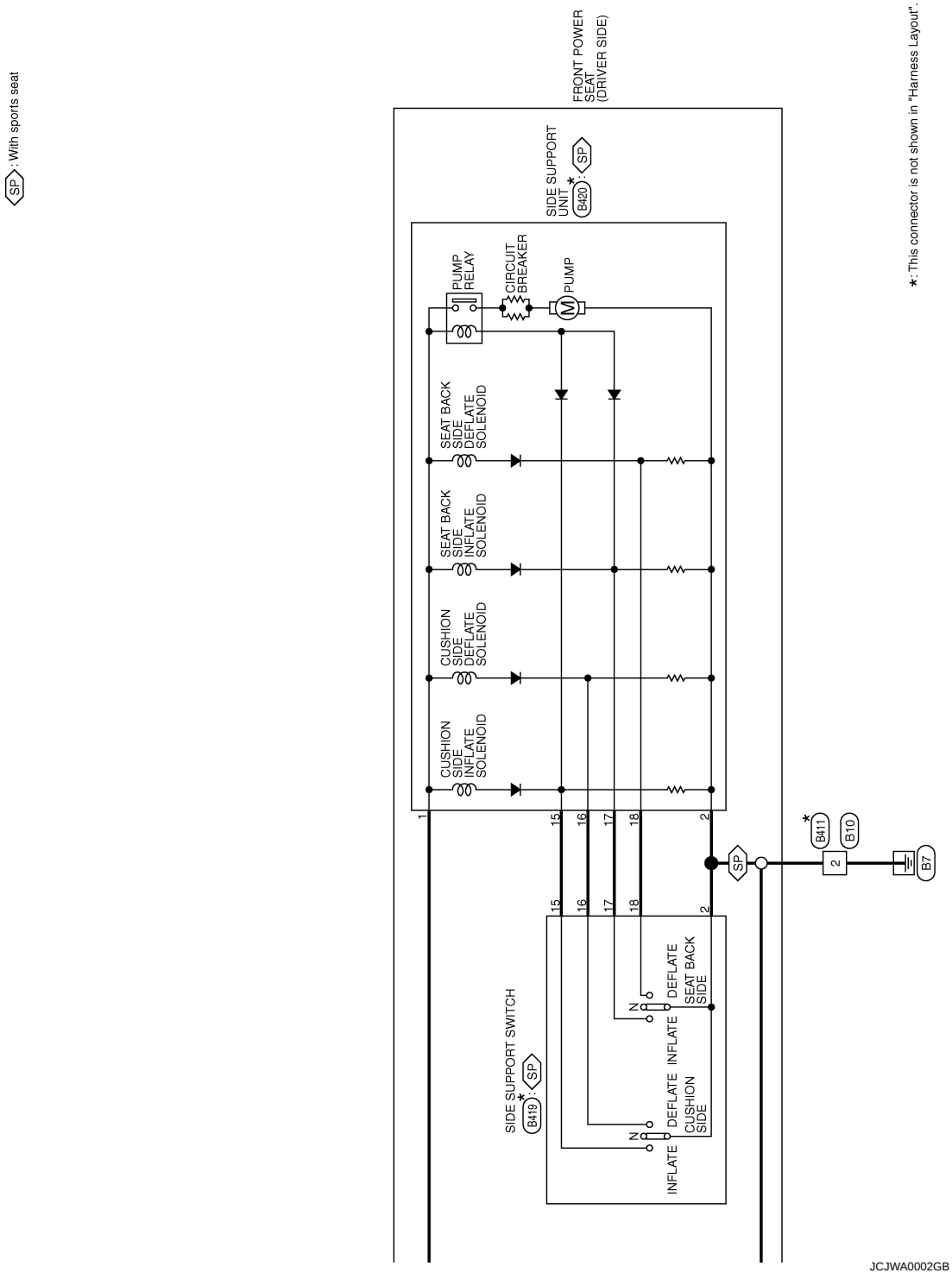
POWER SEAT

Wiring Diagram— POWER SEAT SYSTEM —

INFOID:0000000000960527

DRIVER SIDE




SP : With sports seat
FRONT POWER SEAT (DRIVER SIDE)
SIDE SUPPORT UNIT (B420) : SP
PUMP RELAY
CIRCUIT BREAKER
PUMP
SEAT BACK SIDE DEFLATE SOLENOID
SEAT BACK SIDE INFLATE SOLENOID
CUSHION SIDE DEFLATE SOLENOID
CUSHION SIDE INFLATE SOLENOID
SIDE SUPPORT SWITCH (B419) : SP
DEFLATE SEAT BACK SIDE
INFLATE
DEFLATE CUSHION SIDE
INFLATE
B411
B10
B7
2
*: This connector is not shown in "Harness Layout".
JCJWA0002GB

POWER SEAT FOR DRIVER SIDE

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

Terminal No.	Color of Wire	Signal Name
2	SB	–

Connector No.	B10
Connector Name	WIRE TO WIRE (Without automatic drive positioner)
Connector Type	M04FW-LC

Terminal No.	Color of Wire	Signal Name
1	SB	–
2	B	–

Connector No.	B411
Connector Name	WIRE TO WIRE (Without automatic drive positioner)
Connector Type	M04MW-LC

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

Connector No.	B414
Connector Name	POWER SEAT SWITCH(DRIVER SIDE)
Connector Type	NS10FW-CS

Terminal No.	Color of Wire	Signal Name
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.	B415
Connector Name	RECLINING MOTOR(DRIVER SIDE)
Connector Type	NS02FW-CS

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

Connector No.	B416
Connector Name	SLIDING MOTOR(DRIVER SIDE)
Connector Type	6098-0239

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

Connector No.	B417
Connector Name	LIFTING MOTOR(FRONT)(DRIVER SIDE)
Connector Type	NS02FW-CS

Terminal No.	Color of Wire	Signal Name
9	L/Y	–
10	L	–

Connector No.	B418
Connector Name	LIFTING MOTOR(REAR)(DRIVER SIDE)
Connector Type	NS02FW-CS

Terminal No.	Color of Wire	Signal Name
7	L/R	–
8	G/W	–

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POWER SEAT FOR DRIVER SIDE

Connector No.	B419
Connector Name	SIDE SUPPORT SWITCH
Connector Type	NS06FW-CS

Terminal No.	Color of Wire	Signal Name
2	B	–
15	GR	– [Without automatic drive positioner]
16	W/R	– [Without automatic drive positioner]
17	BR	– [Without automatic drive positioner]
18	LG	– [Without automatic drive positioner]

Connector No.	B420
Connector Name	SIDE SUPPORT UNIT
Connector Type	NS06FW-CS

Terminal No.	Color of Wire	Signal Name
1	R	–
2	B	–
15	GR	– [Without automatic drive positioner]
16	W/R	– [Without automatic drive positioner]
17	BR	– [Without automatic drive positioner]
18	LG	– [Without automatic drive positioner]

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

Terminal No.	Color of Wire	Signal Name
91	W	–

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

Terminal No.	Color of Wire	Signal Name
2	W	– [Without automatic drive positioner]

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

Terminal No.	Color of Wire	Signal Name
91	W	–

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

Terminal No.	Color of Wire	Signal Name
1	W	–
2	Y	POWER WINDOW POWER SUPPLY(BAT)

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

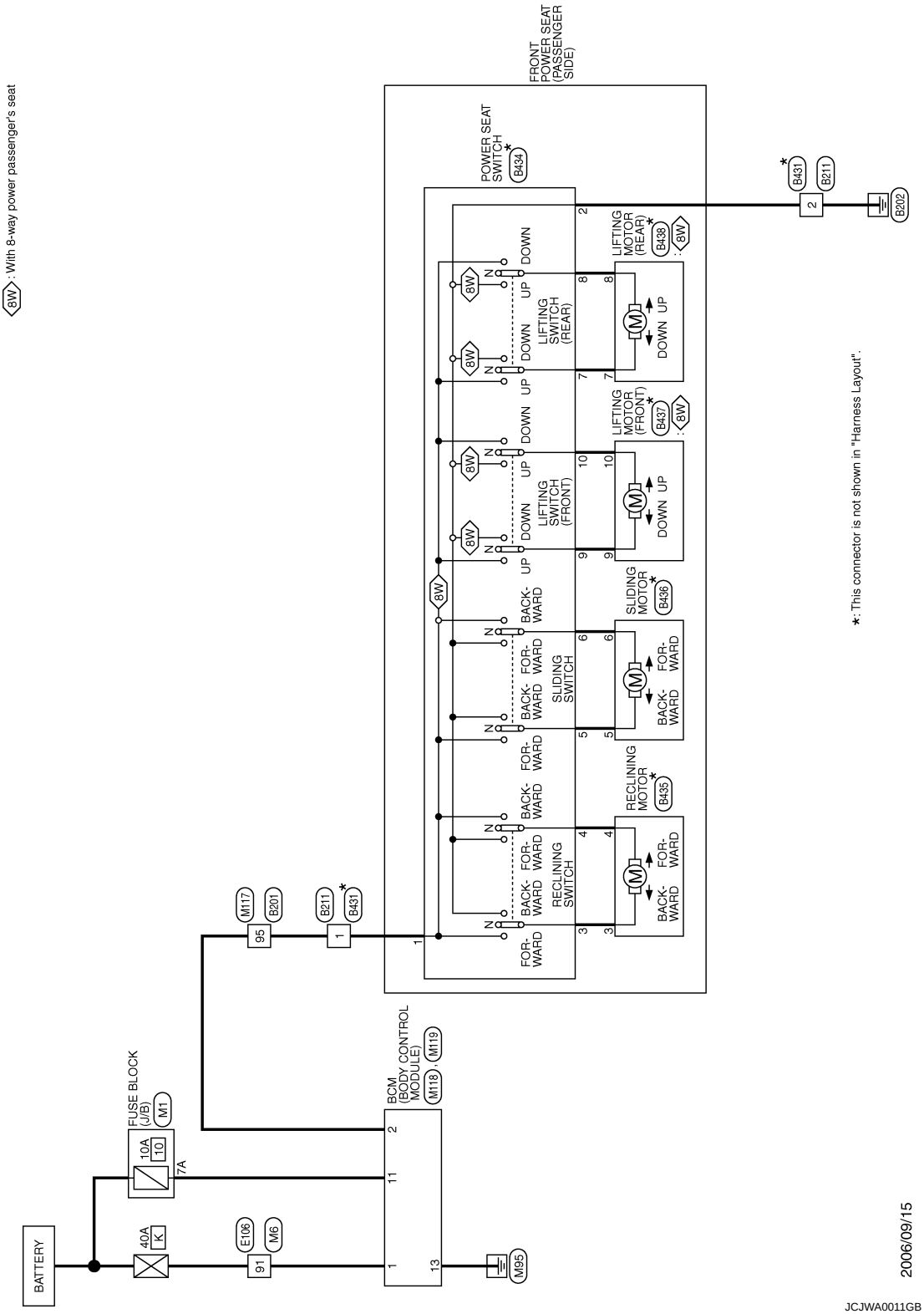
Terminal No.	Color of Wire	Signal Name
7A	R	–

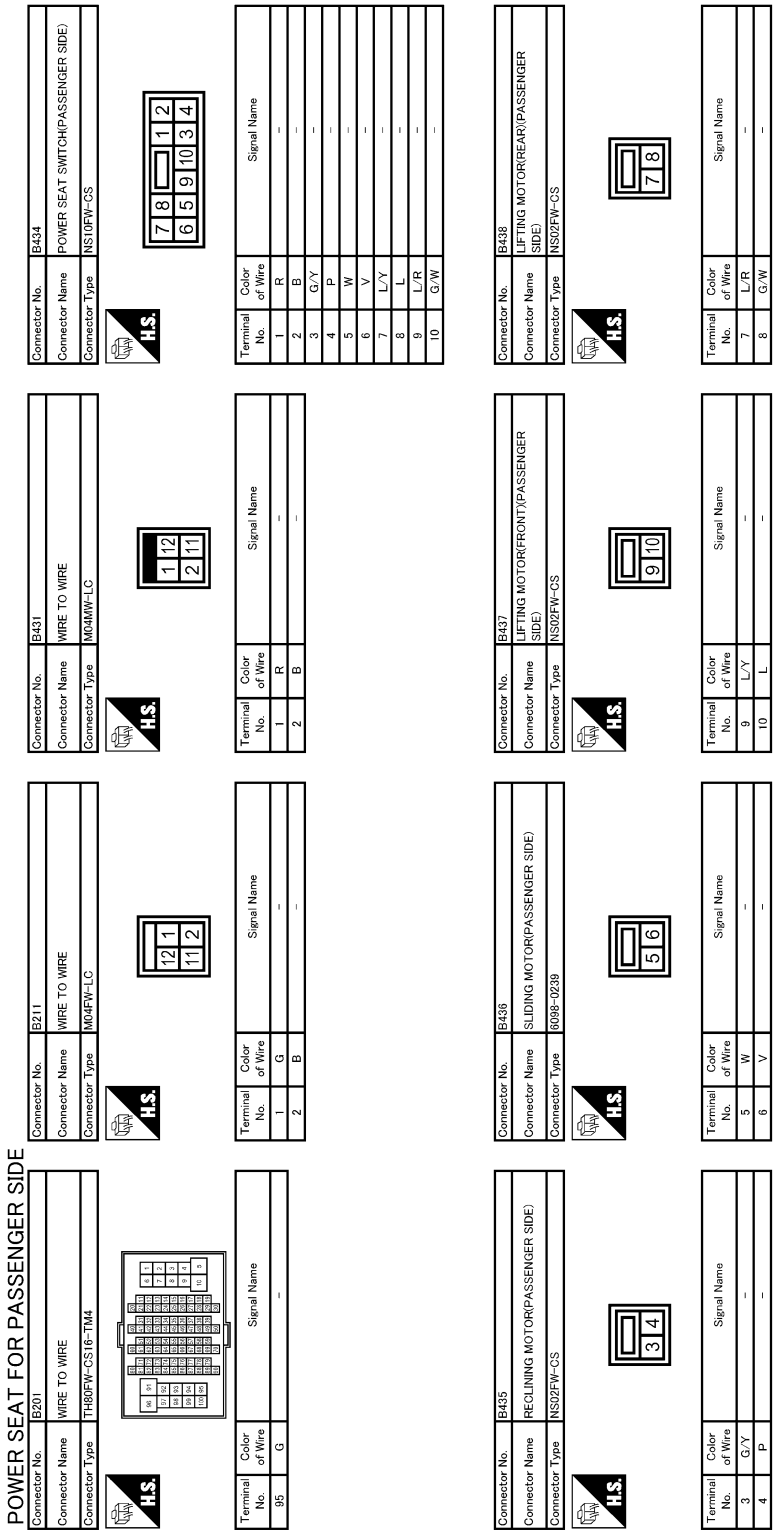
Connector No.	M119
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS16FW-CS

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

JCJWA0004GB

POWER SEAT FOR PASSENGER SIDE





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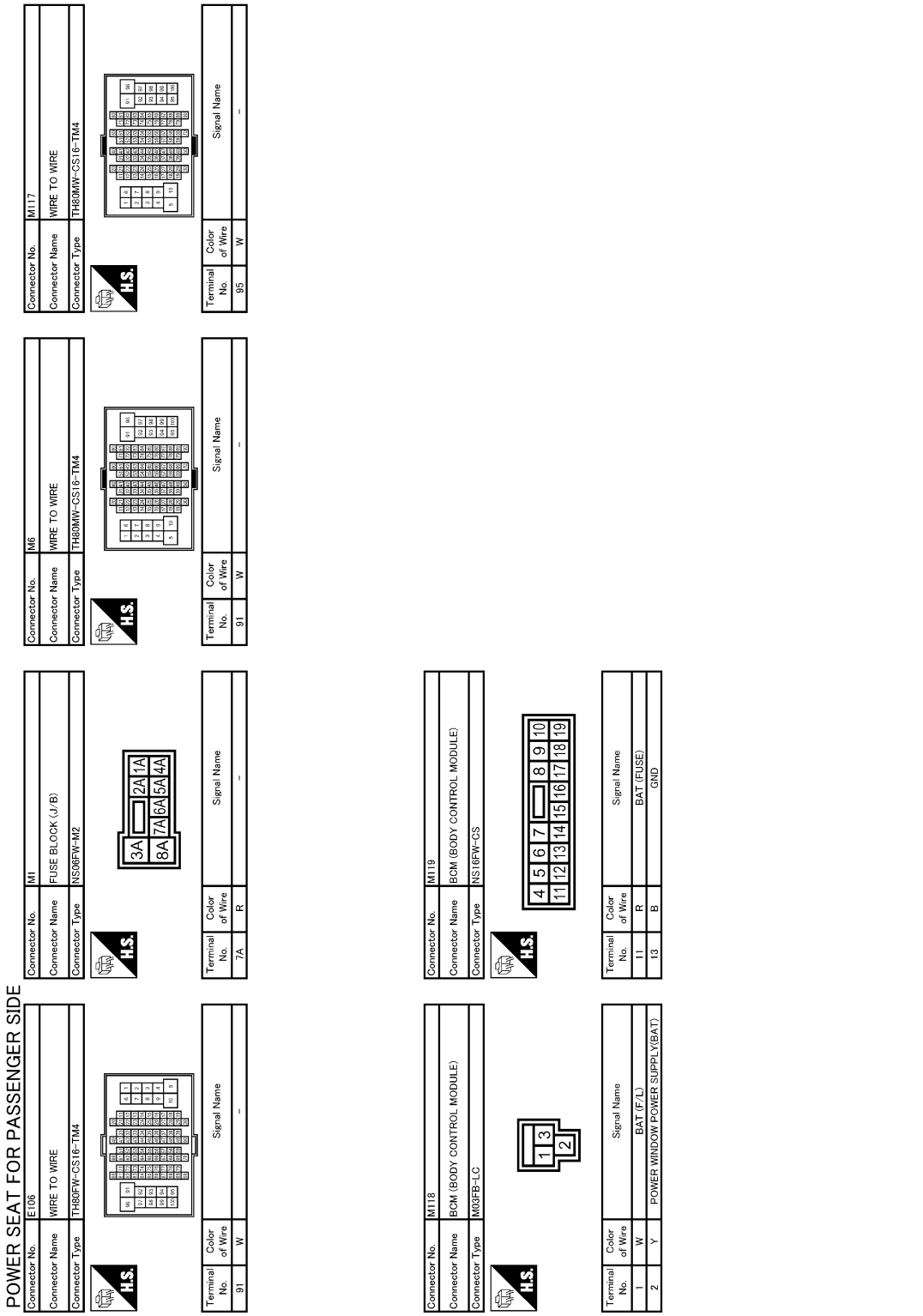
POWER SEAT FOR PASSENGER SIDE



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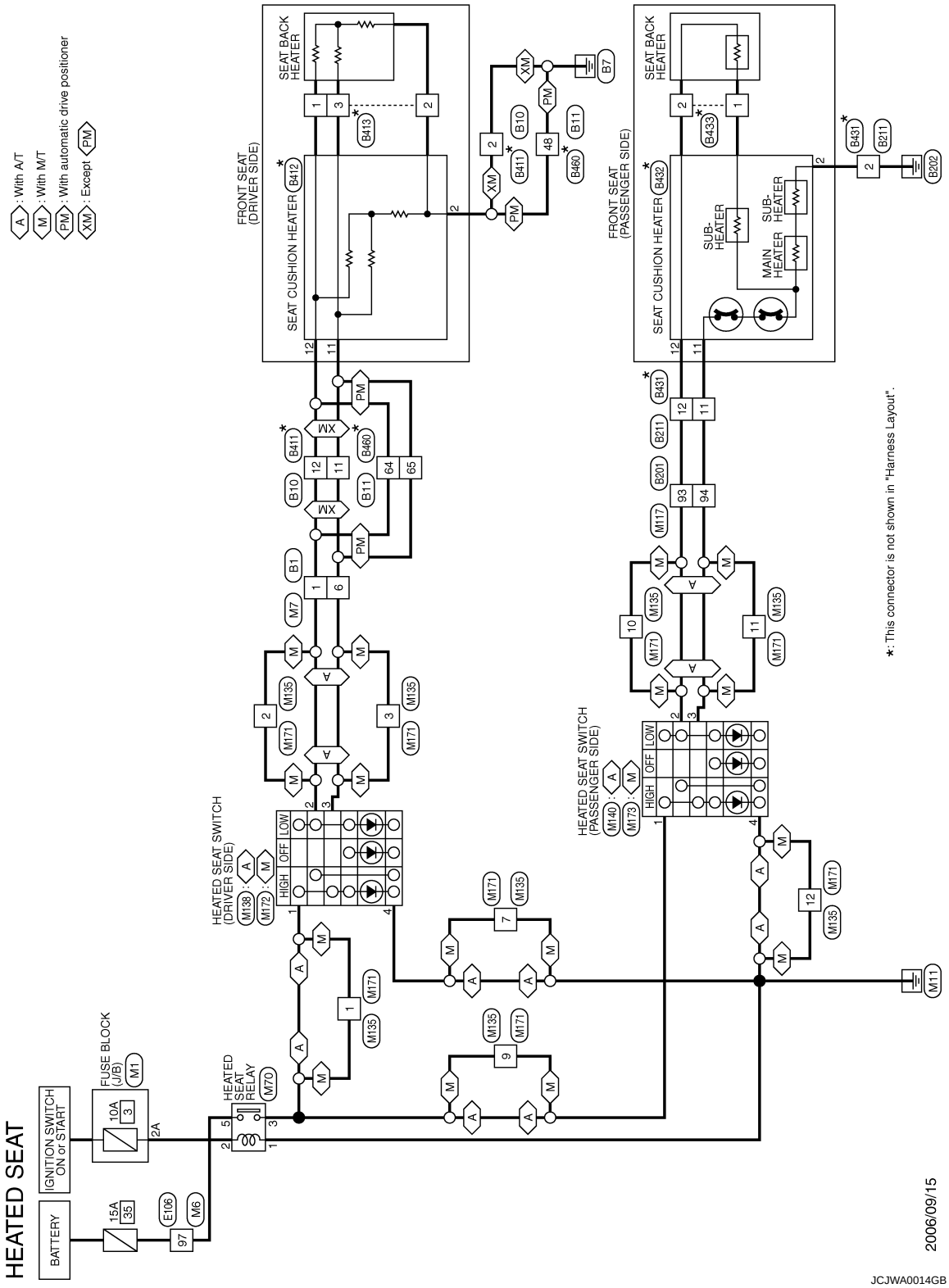
HEATED SEAT

Wiring Diagram— HEATED SEAT SYSTEM —

INFOID:0000000000960528



HEATED SEAT

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

H.S.

Terminal No.	Color of Wire	Signal Name
1	GR	–
6	O	–

Connector No.	B10
Connector Name	WIRE TO WIRE (Without automatic drive positioner)
Connector Type	M04FW-LC

H.S.

Terminal No.	Color of Wire	Signal Name
2	B	–
11	O	–
12	GR	–

Connector No.	B11
Connector Name	WIRE TO WIRE (With automatic drive positioner)
Connector Type	NS16FW-CS

H.S.

Terminal No.	Color of Wire	Signal Name
48	B	–
64	GR	–
65	O	–

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

H.S.

Terminal No.	Color of Wire	Signal Name
93	Y	–
94	GR	–

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

H.S.

Terminal No.	Color of Wire	Signal Name
2	B	–
11	GR	–
12	Y	–

Connector No.	B411
Connector Name	WIRE TO WIRE (Without automatic drive positioner)
Connector Type	M04MW-LC

H.S.

Terminal No.	Color of Wire	Signal Name
2	B	–
11	Y	–
12	Y/G	–

Connector No.	B412
Connector Name	SEAT CUSHION HEATER(DRIVER SIDE)
Connector Type	M03FW-LC

H.S.

Terminal No.	Color of Wire	Signal Name
2	B	–
11	Y	–
12	Y/G	–

Connector No.	B413
Connector Name	SEAT BACK HEATER(DRIVER SIDE)
Connector Type	IM-HMB1043

H.S.

Terminal No.	Color of Wire	Signal Name
1	G	–
2	W	–
3	B	–

JCJWA0015GB

HEATED SEAT

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

H.S.

Terminal No.	Color of Wire	Signal Name
2	B	–
11	Y	–
12	Y/G	–

Connector No.	B432
Connector Name	SEAT CUSHION HEATER(PASSENGER SIDE)
Connector Type	M03FW-LC

H.S.

Terminal No.	Color of Wire	Signal Name
2	B	–
11	Y	–
12	Y/G	–

Connector No.	B433
Connector Name	SEAT BACK HEATER(PASSENGER SIDE)
Connector Type	S02FW

H.S.

Terminal No.	Color of Wire	Signal Name
1	–	–
2	–	–

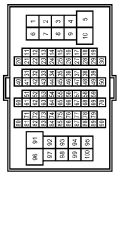
Connector No.	B460
Connector Name	WIRE TO WIRE (With automatic drive positioner)
Connector Type	NS16MW-CS

H.S.

Terminal No.	Color of Wire	Signal Name
48	B	–
64	Y/G	–
65	Y	–

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

H.S.



Terminal No.	Color of Wire	Signal Name
97	R	–

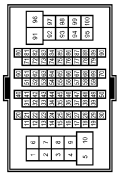
Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS08FW-M2

H.S.

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

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

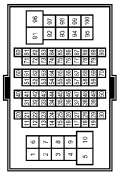
H.S.



Terminal No.	Color of Wire	Signal Name
97	L	–

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

H.S.

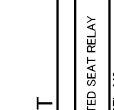


Terminal No.	Color of Wire	Signal Name
1	GR	–
6	SB	–

JCJWA0016GB

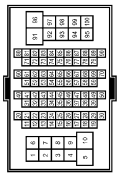
HEATED SEAT

Connector No.	M70
Connector Name	HEATED SEAT RELAY
Connector Type	MS02FL-M2



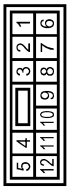
Terminal No.	Color of Wire	Signal Name
1	B	–
2	G	–
3	G	–
5	L	–

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



Terminal No.	Color of Wire	Signal Name
93	L	–
94	GR	–

Connector No.	M135
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS



Terminal No.	Color of Wire	Signal Name
1	G	–
2	GR	–
3	SB	–
7	B	–
9	G	–
10	L	–
11	GR	–
12	B	–

Connector No.	M138
Connector Name	HEATED SEAT SWITCH(DRIVER SIDE)
Connector Type	NS06FW-CS

Terminal No.	Color of Wire	Signal Name
1	G	–
2	GR	–
3	SB	–
4	B	–

Connector No.	M140
Connector Name	HEATED SEAT SWITCH(PASSENGER SIDE)
Connector Type	NS06FBR-CS

Terminal No.	Color of Wire	Signal Name
1	G	–
2	L	–
3	GR	–
4	B	–

Connector No.	M171
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS

Terminal No.	Color of Wire	Signal Name
1	G	–
2	BR	–
3	LG	–
7	B	–
9	W	–
10	GR	–
11	Y	–
12	O	–

Connector No.	M172
Connector Name	HEATED SEAT SWITCH(DRIVER SIDE)
Connector Type	NS06FW-CS

Terminal No.	Color of Wire	Signal Name
1	G	–
2	BR	–
3	LG	–
4	B	–

Connector No.	M173
Connector Name	HEATED SEAT SWITCH(PASSENGER SIDE)
Connector Type	NS06FBR-CS

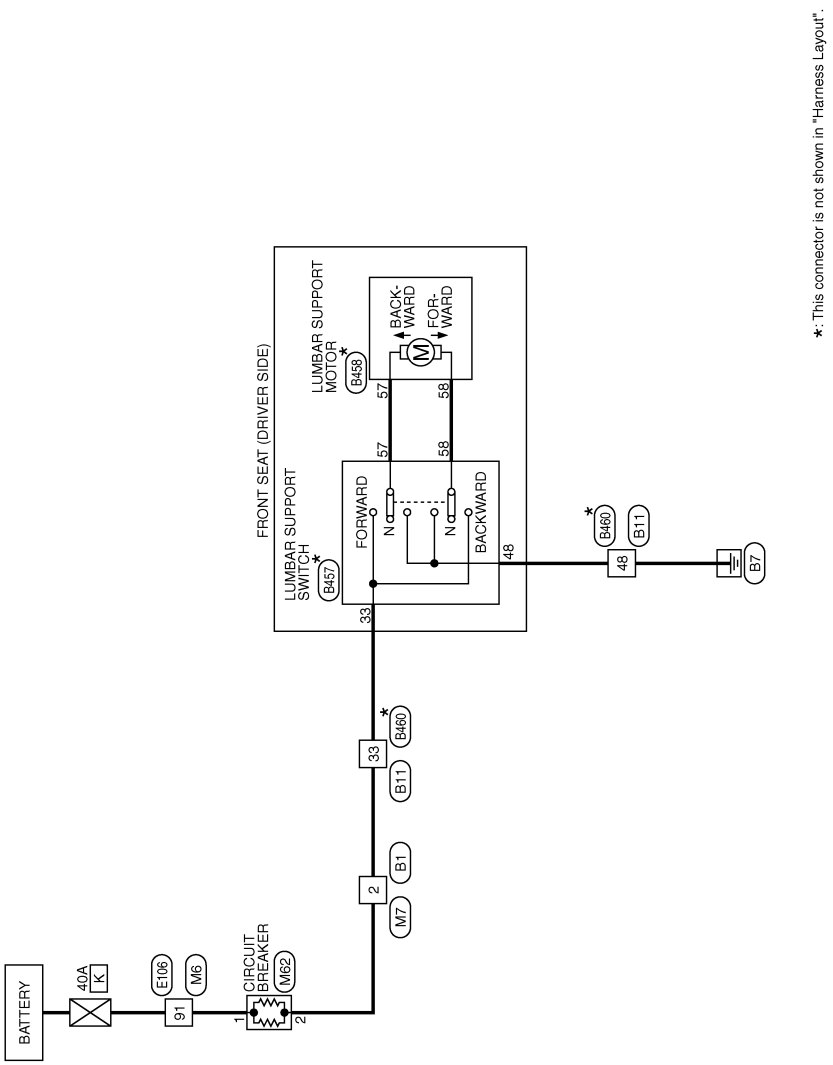
Terminal No.	Color of Wire	Signal Name
1	W	–
2	GR	–
3	Y	–
4	O	–

JCJWA0017GB

LUMBAR SUPPORT

Wiring Diagram— LUMBAR SUPPORT SYSTEM —

INFOID:0000000000960529



LUMBAR SUPPORT

2006/09/15

LUMBAR SUPPORT

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

H.S.

Terminal No.	Color of Wire	Signal Name
2	SB	–

Connector No.	B11
Connector Name	WIRE TO WIRE (With automatic drive positioner)
Connector Type	NS16FW-CS

H.S.

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

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

H.S.

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

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

H.S.

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

Connector No.	B460
Connector Name	WIRE TO WIRE (With automatic drive positioner)
Connector Type	NS16MW-CS

H.S.

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

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

H.S.

Terminal No.	Color of Wire	Signal Name
91	W	–

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

H.S.

Terminal No.	Color of Wire	Signal Name
91	W	–

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

H.S.

Terminal No.	Color of Wire	Signal Name
2	SB	– [With automatic drive positioner]

JCJWA0006GB

LUMBAR SUPPORT

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

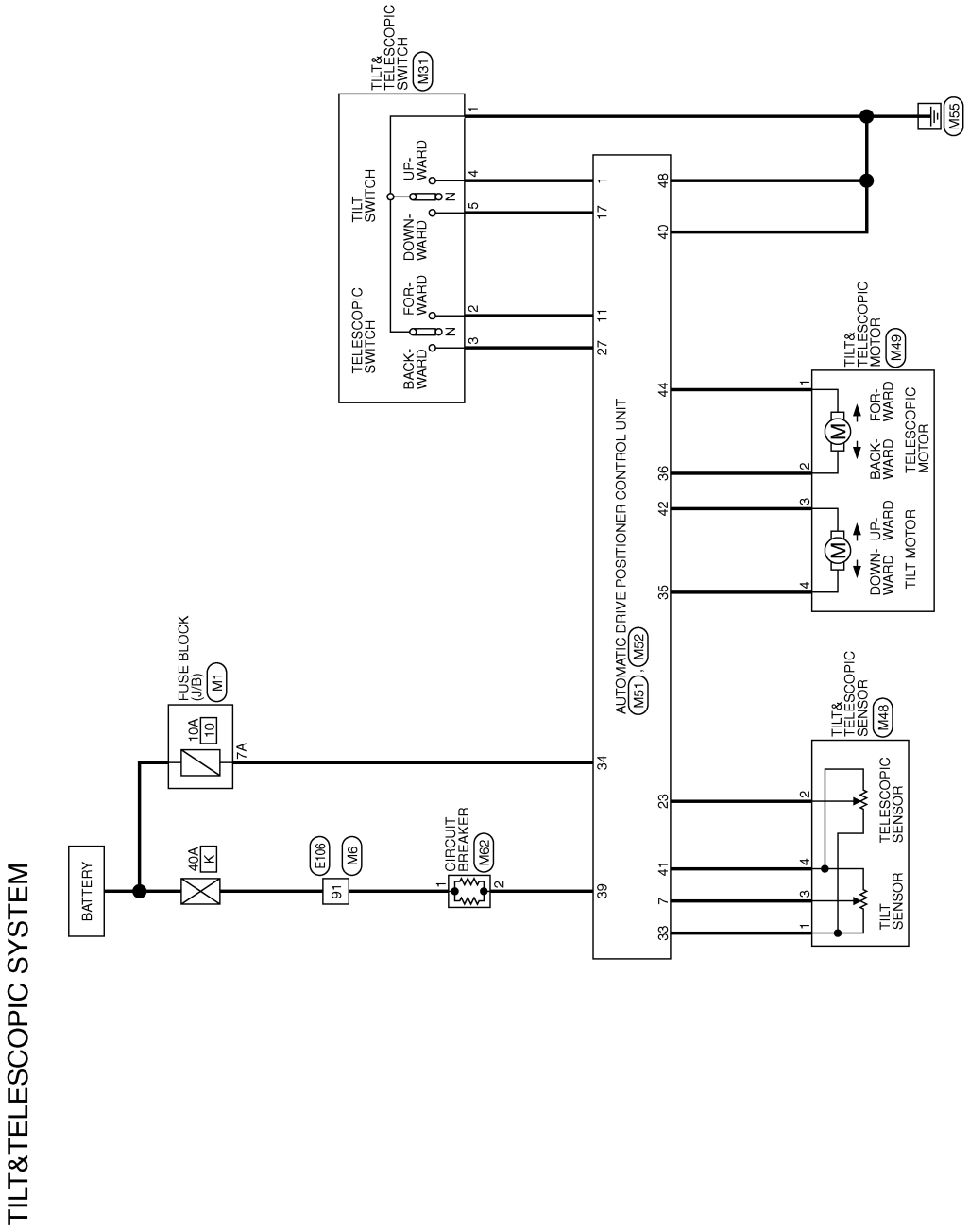
Terminal No.	Color of Wire	Signal Name
1	W	–
2	SB	– [With automatic drive positioner]

JCJWA0007GB

TILT&TELESCOPIC SYSTEM

Wiring Diagram— TILT AND TELESCOPIC SYSTEM —

INFOID:0000000000960530



TILT&TELESCOPIC SYSTEM

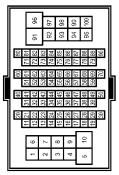
Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

Terminal No.	Color of Wire	Signal Name
91	W	–

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

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

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



Terminal No.	Color of Wire	Signal Name
91	W	–

Connector No.	M31
Connector Name	TILT & TELESCOPIC SWITCH
Connector Type	TK06FGY

Terminal No.	Color of Wire	Signal Name
1	B	–
2	GR	–
3	G	–
4	Y	–
5	W	–

Connector No.	M48
Connector Name	TILT & TELESCOPIC SENSOR
Connector Type	TK04FW

Terminal No.	Color of Wire	Signal Name
1	W	–
2	P	–
3	O	–
4	Y	–

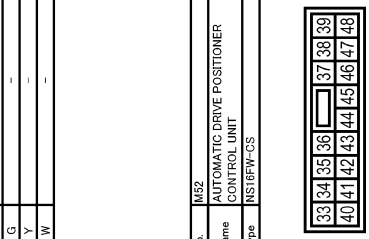
Connector No.	M49
Connector Name	TILT & TELESCOPIC MOTOR
Connector Type	NS04FW-CS

Terminal No.	Color of Wire	Signal Name
1	G	–
2	GR	–
3	O	–
4	L	–

Connector No.	M51
Connector Name	AUTOMATIC DRIVE POSITIONER CONTROL UNIT
Connector Type	TH32FW-NH

Terminal No.	Color of Wire	Signal Name
1	Y	TILT SW (UPWARD)
7	O	TILT SENSOR
11	GR	TELESCOPIC SW (FRONTWARD)
17	W	TILT SW (DOWNWARD)
23	P	TELESCOPIC SENSOR
27	G	TELESCOPIC SW (BACKWARD)

Connector No.	M52
Connector Name	AUTOMATIC DRIVE POSITIONER CONTROL UNIT
Connector Type	NS16FW-CS



Terminal No.	Color of Wire	Signal Name
33	W	POWER SUPPLY (SENSOR) [Without automatic drive positioner]
34	R	BAT (FUSE)
35	L	TILT MOTOR (UPWARD)
36	GR	TELESCOPIC MOTOR (FORWARD)
39	W	BAT (C/B)
40	B	GND(SIGNAL)
41	Y	GND(SENSOR) [Without automatic drive positioner]
42	O	TILT MOTOR (DOWNWARD)
44	G	TELESCOPIC MOTOR (BACKWARD)
48	B	GND(POWER)

JCJWA0009GB

TILT&TELESCOPIC SYSTEM

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

Terminal No.	Color of Wire	Signal Name
1	W	–
2	W	– : [Without automatic drive positioner]

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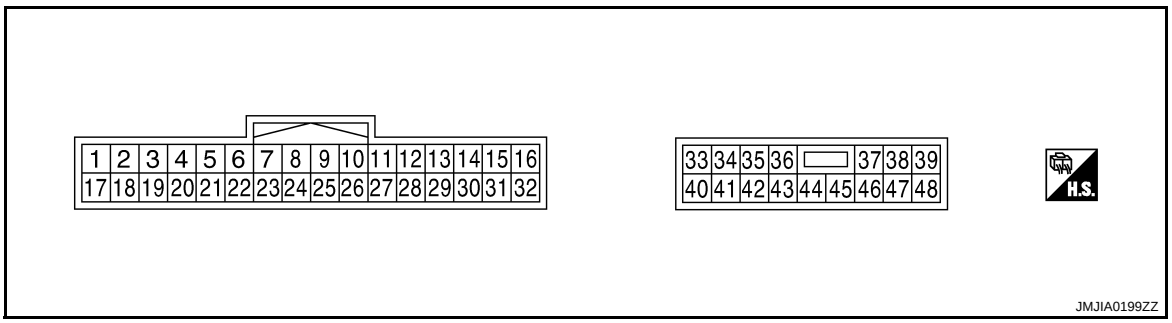
ECU DIAGNOSIS

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

Reference Value

INFOID:0000000000960531

TERMINAL LAYOUT



PHYSICAL VALUES

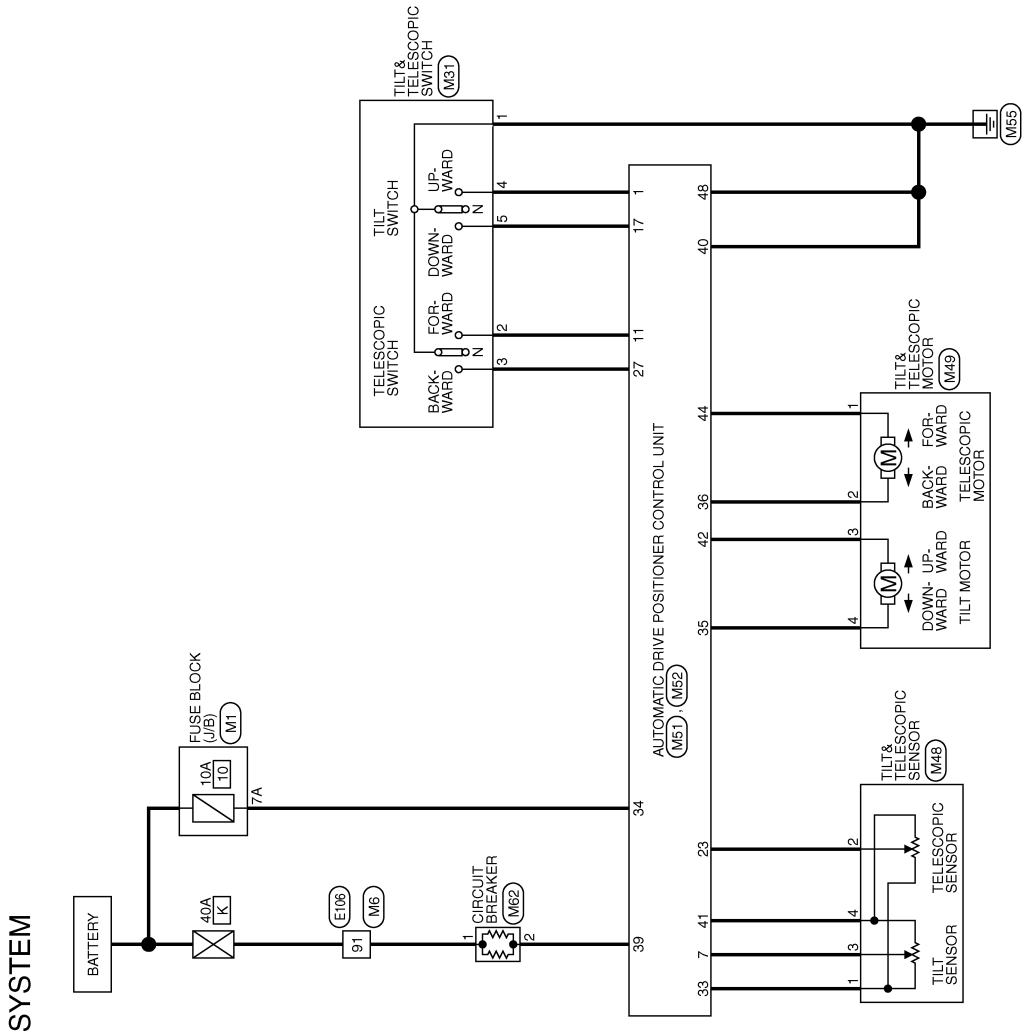
Terminal No.		Wire color	Description		Condition		Voltage (V) (Approx.)
+	-		Signal name	Input/ Output			
1	Ground	Y	Tilt switch up signal	Input	Tilt switch	Operate (up)	0
						Other than above	5
11	Ground	GR	Telescopic switch forward signal	Input	Telescopic switch	Operate (forward)	0
						Other than above	5
17	Ground	W	Tilt switch down signal	Input	Tilt switch	Operate (down)	0
						Other than above	5
23	Ground	P	Telescopic sensor signal	Input	Telescopic position	Top	0.8
						Bottom	3.4
27	Ground	G	Telescopic switch back-ward signal	Input	Telescopic switch	Operate (backward)	0
						Other than above	5
33	Ground	W	Sensor power supply	Input	—		5
34	Ground	R	Power source (Fuse)	Input	—		Battery voltage
35	Ground	L	Tilt motor up output signal	Output	Steering tilt	Operate (up)	Battery voltage
						Other than above	0
36	Ground	GR	Telescopic motor forward output signal	Output	Steering telescopic	Operate (forward)	Battery voltage
						Other than above	0
39	Ground	W	Power source (C/B)		—		Battery voltage
40	Ground	B	Ground	—	—		0
41	Ground	Y	Sensor ground	—	—		0

Terminal No.		Wire color	Description		Condition		Voltage (V) (Approx.)
+	-		Signal name	Input/ Output			
42	Ground	O	Tilt motor down output signal	Output	Steering tilt	Operate (down)	Battery voltage
						Other than above	0
44	Ground	G	Telescopic motor backward output signal	Output	Steering telescopic	Operate (backward)	Battery voltage
						Other than above	0
48	Ground	B	Ground	—	—		0

Wiring Diagram— TILT AND TELESCOPIC SYSTEM —

INFOID:0000000000960532

TILT&TELESCOPIC SYSTEM



TILT&TELESCOPIC SYSTEM

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

Terminal No.	Color of Wire	Signal Name
91	W	–

Connector No.	M48
Connector Name	TILT & TELESCOPIC SENSOR
Connector Type	TK04FW

Terminal No.	Color of Wire	Signal Name
1	W	–
2	P	–
3	O	–
4	Y	–

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

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

Connector No.	M49
Connector Name	TILT & TELESCOPIC MOTOR
Connector Type	NS04FW-CS

Terminal No.	Color of Wire	Signal Name
1	G	–
2	GR	–
3	O	–
4	L	–

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

Terminal No.	Color of Wire	Signal Name
91	W	–

Connector No.	M51
Connector Name	AUTOMATIC DRIVE POSITIONER CONTROL UNIT
Connector Type	TH32FW-NH

Terminal No.	Color of Wire	Signal Name
1	Y	TILT SW (UPWARD)
7	O	TILT SENSOR
11	GR	TELESCOPIC SW (FRONTWARD)
17	W	TILT SW (DOWNWARD)
23	P	TELESCOPIC SENSOR
27	G	TELESCOPIC SW (BACKWARD)

Connector No.	M31
Connector Name	TILT & TELESCOPIC SWITCH
Connector Type	TK06FGY

Terminal No.	Color of Wire	Signal Name
1	B	–
2	GR	–
3	G	–
4	Y	–
5	W	–

Connector No.	M52
Connector Name	AUTOMATIC DRIVE POSITIONER CONTROL UNIT
Connector Type	NS16FW-CS

Terminal No.	Color of Wire	Signal Name
33	W	POWER SUPPLY (SENSOR) [Without automatic drive positioner]
34	R	BAT (FUSE)
35	L	TILT MOTOR (UPWARD)
36	GR	TELESCOPIC MOTOR (FORWARD)
39	W	BAT (C/B)
40	B	GND(SIGNAL)
41	Y	GND(SENSOR) [Without automatic drive positioner]
42	O	TILT MOTOR (DOWNWARD)
44	G	TELESCOPIC MOTOR (BACKWARD)
48	B	GND(POWER)

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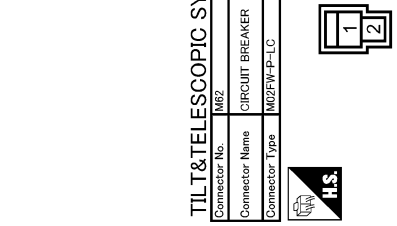
TILT&TELESCOPIC SYSTEM

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



Terminal No.	Color of Wire	Signal Name
1	W	–
2	W	– [Without automatic drive positioner]

JCJWA0010GB

SYMPTOM DIAGNOSIS

ALL COMPONENTS OF POWER SEAT DO NOT OPERATE

Diagnosis Procedure

INFOID:0000000000960533

1.CHECK POWER SEAT POWER SUPPLY CIRCUIT

Check power seat power supply circuit.
Refer to SE-11, "Component Function Check".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-39, "Intermittent Incident".
NO >> Repair or replace the malfunctioning parts.

EITHER DRIVER SEAT OR PASSENGER POWER SEAT DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000000960534

1.CHECK POWER SEAT SWITCH

Check power seat switch.
Refer to SE-13, "Component Function Check".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-39, "Intermittent Incident".
NO >> Repair or replace the malfunctioning parts.

SLIDING FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000000960535

1.CHECK POWER SEAT SWITCH

Check power seat switch.
Refer to SE-13, "Component Function Check".

Is the inspection result normal?

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

2.CHECK SLIDING MOTOR

Check sliding motor.
Refer to SE-23, "Component Function Check".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-39, "Intermittent Incident".
NO >> Repair or replace the malfunctioning parts.

SLIDING FUNCTION IS OPERATING ONLY IN ONE WAY

Diagnosis Procedure

INFOID:0000000000960536

1.CHECK POWER SEAT SWITCH

Check power seat switch
Refer to SE-13, "Component Function Check".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-39, "Intermittent Incident".
NO >> Repair or replace the malfunctioning parts.

RECLINING FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000000960537

1.CHECK POWER SEAT SWITCH

Check power seat switch.
Refer to SE-13, "Component Function Check".

Is the inspection result normal?

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

2.CHECK RECLINING MOTOR

Check reclining motor.
Refer to SE-25, "Component Function Check".

Is the inspection result normal?

YES >> Check intermittent incident. Refer toGI-39, "Intermittent Incident".
NO >> Repair or replace the malfunctioning parts.

RECLINING FUNCTION IS OPERATING ONLY IN ONE WAY

Diagnosis Procedure

INFOID:0000000000960538

1.CHECK POWER SEAT SWITCH

Check power seat switch.
Refer to SE-13, "Component Function Check".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-39, "Intermittent Incident".
NO >> Repair or replace the malfunctioning parts.

LIFTING FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000000960539

1.CHECK POWER SEAT SWITCH

Check power seat switch.
Refer to SE-13, "Component Function Check".

Is the inspection result normal?

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

2.CHECK LIFTING MOTOR

Check lifting motor.
Refer to SE-27, "Component Function Check".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-39, "Intermittent Incident".
NO >> Repair or replace the malfunctioning parts.

LIFTING FUNCTION IS OPERATING ONLY IN ONE WAY

Diagnosis Procedure

INFOID:0000000000960540

1.CHECK POWER SEAT SWITCH

Check power seat switch.
Refer to SE-13, "Component Function Check".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-39, "Intermittent Incident".
NO >> Repair or replace the malfunctioning parts.

ALL OF SIDE SUPPORT COMPONENTS DO NOT OPERATE

Diagnosis Procedure

INFOID:0000000000960541

1.CHECK POWER SEAT POWER SUPPLY CIRCUIT

Check power seat (side support unit) power supply circuit.
Refer to SE-11, "Component Function Check".

Is the inspection result normal?

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

2.CHECK SIDE SUPPORT SWITCH

Check side support switch.
Refer to SE-16, "Component Function Check".

Is the inspection result normal?

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

3.CHECK SIDE SUPPORT UNIT

Check side support unit.
Refer to SE-31, "Component Function Check".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-39, "Intermittent Incident".
NO >> Repair or replace the malfunctioning parts.

SEAT BACK SIDE SUPPORT FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000000960542

1.CHECK SIDE SUPPORT SWITCH

Check side support switch.
Refer to SE-16, "Component Function Check".

Is the inspection result normal?

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

2.CHECK SIDE SUPPORT UNIT

Check side support unit.
Refer to SE-31, "Component Function Check".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-39, "Intermittent Incident".
NO >> Repair or replace the malfunctioning parts.

SEAT CUSHION SIDE SUPPORT DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000000960543

1.CHECK SIDE SUPPORT SWITCH

Check side support switch.
Refer to SE-16, "Component Function Check".

Is the inspection result normal?

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

2.CHECK SIDE SUPPORT UNIT

Check side support unit.
Refer to SE-31, "Component Function Check".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-39, "Intermittent Incident".
NO >> Repair or replace the malfunctioning parts.

BOTH DRIVER SEAT HEATER AND PASSENGER SEAT HEATER DO NOT OPERATE

Diagnosis Procedure

INFOID:0000000000960544

1. CHECK HEATED SEAT POWER SUPPLY AND GROUND CIRCUIT

Check heated seat power supply and ground circuit.
Refer to SE-12, "Component Function Check".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-39, "Intermittent Incident".
NO >> Repair or replace the malfunctioning parts.

DRIVER SIDE HEATER DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000000960545

1.CHECK HEATED SEAT POWER SUPPLY AND GROUND CIRCUIT

Check heated seat power supply and ground circuit.
Refer to SE-12, "Component Function Check".

Is the inspection result normal?

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

2.CHECK HEATED SEAT SWITCH

Check heated seat switch.
Refer to SE-20, "Component Function Check".

Is the inspection result normal?

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

3.CHECK SEAT HEATER

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

Is the inspection result normal?

YES >> Check intermittent incident. Refer toGI-39, "Intermittent Incident".
NO >> Repair or replace the malfunctioning parts.

PASSENGER SIDE HEATER DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000000960546

1.CHECK HEATED SEAT POWER SUPPLY AND GROUND CIRCUIT

Check heated seat power supply and ground circuit.
Refer to SE-12, "Component Function Check".

Is the inspection result normal?

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

2.CHECK HEATED SEAT SWITCH

Check heated seat switch.
Refer to SE-20, "Component Function Check".

Is the inspection result normal?

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

3.CHECK SEAT HEATER

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

Is the inspection result normal?

YES >> Check intermittent incident. Refer toGI-39, "Intermittent Incident".
NO >> Repair or replace the malfunctioning parts.

DRIVER SIDE SEAT BACK HEATER DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000000960547

1.CHECK HEATED SEAT SWITCH

Check heated seat switch (driver side).
Refer to SE-20, "Component Function Check".

Is the inspection result normal?

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

2.CHECK SEAT HEATER

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

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-39, "Intermittent Incident".
NO >> Repair or replace the malfunctioning parts.

PASSENGER SIDE SEAT BACK HEATER DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000000960548

1.CHECK HEATED SEAT SWITCH

Check heated seat switch (passenger side).
Refer to SE-20, "Component Function Check".

Is the inspection result normal?

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

2.CHECK SEAT HEATER

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

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-39, "Intermittent Incident".
NO >> Repair or replace malfunctioning parts.

LUMBAR SUPPORT FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000000960549

1.CHECK LUMBAR SUPPORT SWITCH

Check lumbar support switch.
Refer to SE-35, "Component Function Check".

Is the inspection result normal?

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

2.CHECK LUMBAR SUPPORT MOTOR

Check lumbar support motor.
Refer to SE-37, "Component Function Check".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-39, "Intermittent Incident".
NO >> Repair or replace the malfunctioning parts.

STEERING POSITION FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000000960550

1. CHECK AUTOMATIC DRIVE POSITIONER CONTROL UNIT POWER SUPPLY AND GROUND CIRCUIT

Check automatic drive positioner control unit power supply and ground circuit.
Refer to SE-34, "Component Function Check".

Is the inspection result normal?

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

2. CHECK TILT AND TELESCOPIC SWITCH

Check tilt and telescopic switch.
Refer to SE-18, "Component Function Check".

Is the inspection result normal?

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

3. CHECK TILT AND TELESCOPIC SENSOR

Check tilt and telescopic sensor.
Refer to SE-32, "Component Function Check".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-39, "Intermittent Incident".
NO >> Repair or replace the malfunctioning parts.

TILT FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000000960551

1.CHECK TILT AND TELESCOPIC SWITCH

Check tilt switch.
Refer to SE-18, "Component Function Check".

Is the inspection result normal?

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

2.CHECK TILT AND TELESCOPIC MOTOR

Check tilt motor.
Refer to SE-29, "Component Function Check".

Is the inspection result normal?

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

3.CHECK TILT AND TELESCOPIC SENSOR

Check tilt sensor.
Refer to SE-32, "Component Function Check".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-39, "Intermittent Incident".
NO >> Repair or replace the malfunctioning parts.

TELESCOPIC FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000000960552

1.CHECK TILT AND TELESCOPIC SWITCH

Check telescopic switch.
Refer to SE-18, "Component Function Check".

Is the inspection result normal?

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

2.CHECK TILT AND TELESCOPIC MOTOR

Check telescopic motor.
Refer to SE-29, "Component Function Check".

Is the inspection result normal?

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

3.CHECK TILT AND TELESCOPIC SENSOR

Check telescopic sensor.
Refer to SE-32, "Component Function Check".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-39, "Intermittent Incident".
NO >> Repair or replace the malfunctioning parts.

TILT FUNCTION IS OPERATING ONLY IN ONE WAY

Diagnosis Procedure

INFOID:0000000000960553

1.CHECK TILT AND TELESCOPIC SWITCH

Check tilt switch.
Refer to SE-18, "Component Function Check".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-39, "Intermittent Incident".
NO >> Repair or replace the malfunctioning parts.

TELESCOPIC FUNCTION IS OPERATING ONLY IN ONE SIDE

Diagnosis Procedure

INFOID:0000000000960554

1.CHECK TILT AND TELESCOPIC SWITCH

Check telescopic switch.
Refer to SE-18, "Component Function Check".

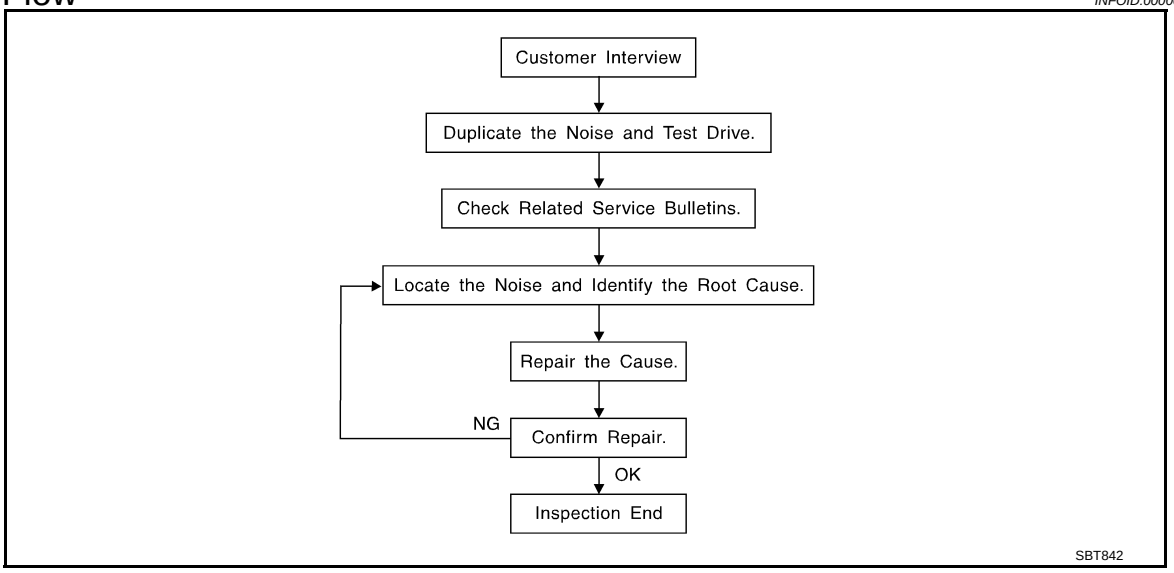
Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-39, "Intermittent Incident".
NO >> Repair or replace the malfunctioning parts.

SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow

INFOID:0000000000960555



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-87, "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 you may judge as acceptable may be very irritating to the customer.
- Weather conditions, especially humidity and temperature, may have a great effect on noise level.

DUPLICATE THE NOISE AND TEST DRIVE

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

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 you suspect the noise is coming from.
  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 you suspect is causing 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 with your hand by touching the component(s) that you suspect is (are) causing the noise.
- placing a piece of paper between components that you suspect are causing the noise.
- looking for loose components and contact marks.
  Refer to SE-85, "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 your authorized Nissan Parts Department.

CAUTION:
Do not 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 will be visible or not fit. Will only last a few months.
SILICONE SPRAY
Use when grease cannot be applied.
DUCT TAPE
Use to eliminate movement.

CONFIRM THE REPAIR

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

Inspection Procedure

INFOID:0000000000960556

Refer to Table of Contents for specific component removal and installationinformation.

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

CENTER CONSOLE

Components to pay attention to include:

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

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

DOORS

Pay attention to the:

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

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

TRUNK

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

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 insulatingthe 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 knockingnoise
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 duplicatingthe conditions can isolate most of these incidents. Repairs usually consistof insulating with felt cloth tape.

SEATS

When isolating seat noise it's important to note the position the seatis in and the load placed on the seat when the noise is present. These conditionsshould 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 suspectedcomponents while duplicating the conditions under which the noise occurs.Most of these incidents can be repaired by repositioning the component orapplying urethane tape to the contact area.

UNDERHOOD

Some interior noise may be caused by components under the hood or onthe 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

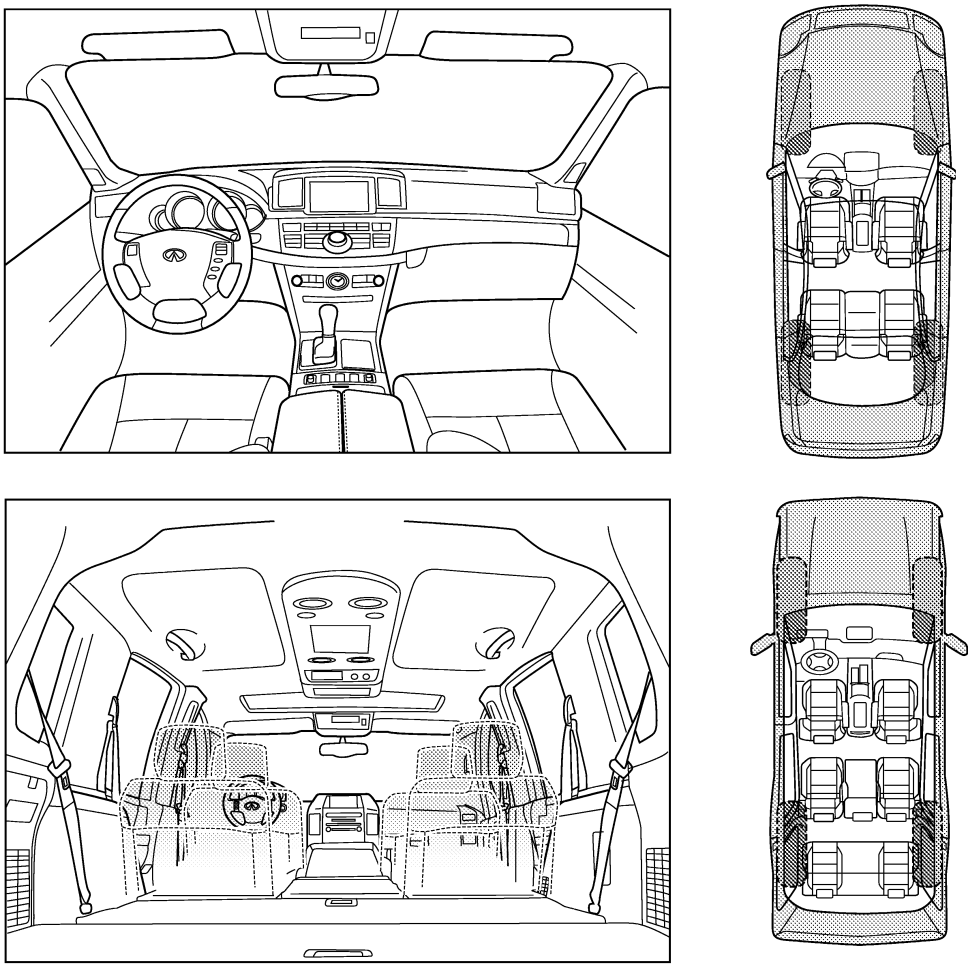
INFOID:0000000000960557

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:0000000000960558

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 and SB section of this Service Manual.

WARNING:

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

Service Notice

INFOID:0000000000960559

- 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:0000000000960560

- 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.

- Do not use organic solvent such as thinner, benzene, alcohol, and gasoline.
- For genuine leather seats, use a genuine leather seat cleaner.

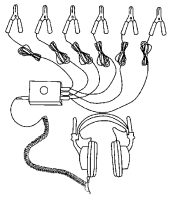
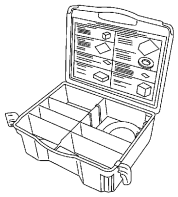
PREPARATION

PREPARATION

Special Service Tool

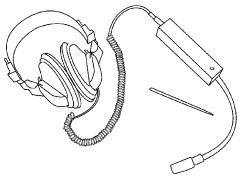
INFOID:0000000000960561

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

Commercial Service Tool

INFOID:0000000000960562

Tool name	Description
Engine ear  SIIA0995E	Locating the noise

ON-VEHICLE MAINTENANCE

PRE-INSPECTION FOR DIAGNOSTIC

Basic Inspection

INFOID:0000000000960563

BASIC INSPECTION

1. INSPECTION START

1. Check the service history.
2. Check the following parts.

- Fuse/circuit breaker blown.
- Poor connection, open or short circuit of harness connector.
- Battery voltage.

Is the inspection result normal?

YES >> INSPECTION END.
NO >> Repair or replace the malfunctioning parts.

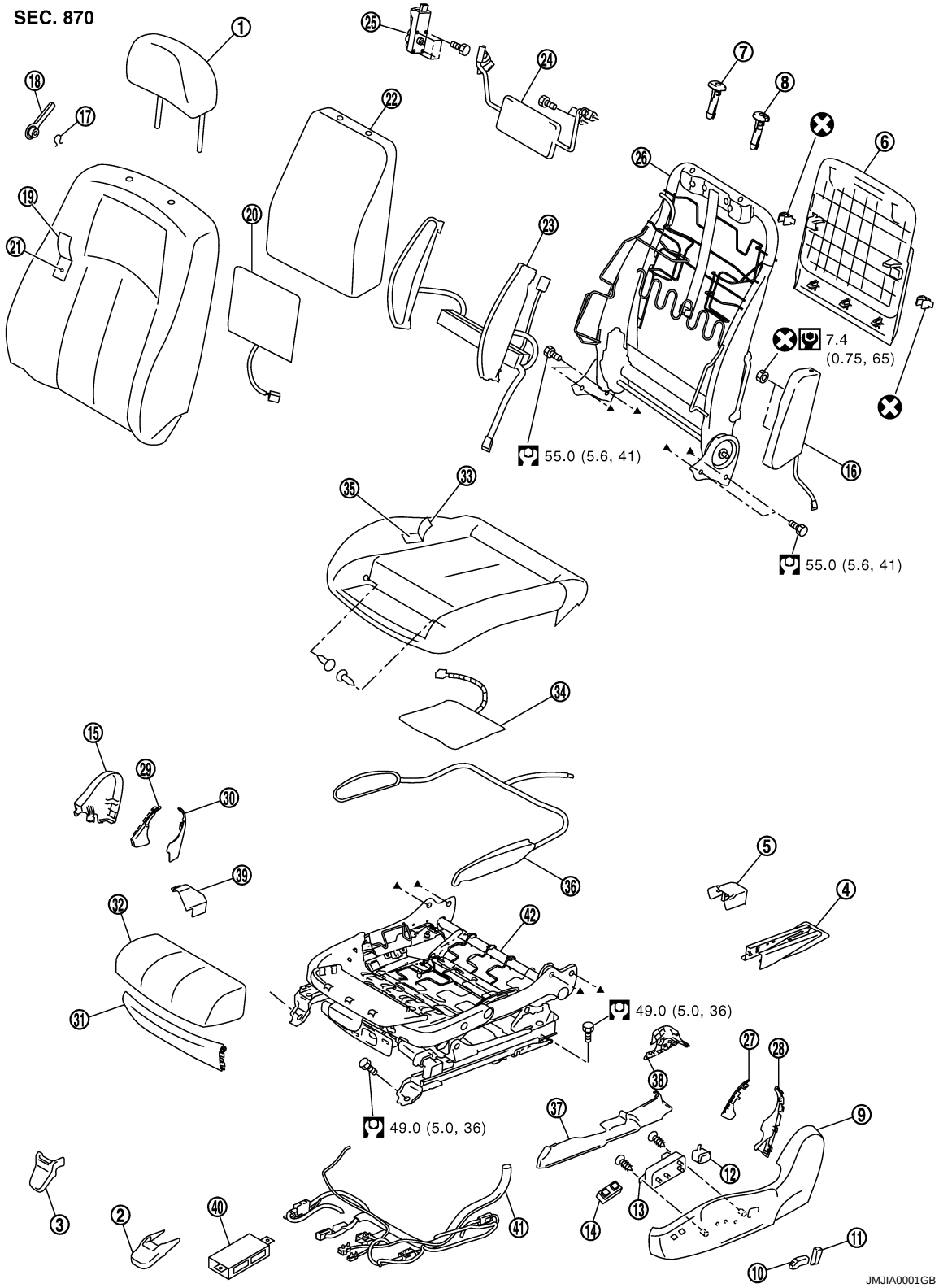
ON-VEHICLE REPAIR

FRONT SEAT

Exploded View

INFOID:0000000000960564

DRIVER'S SEAT

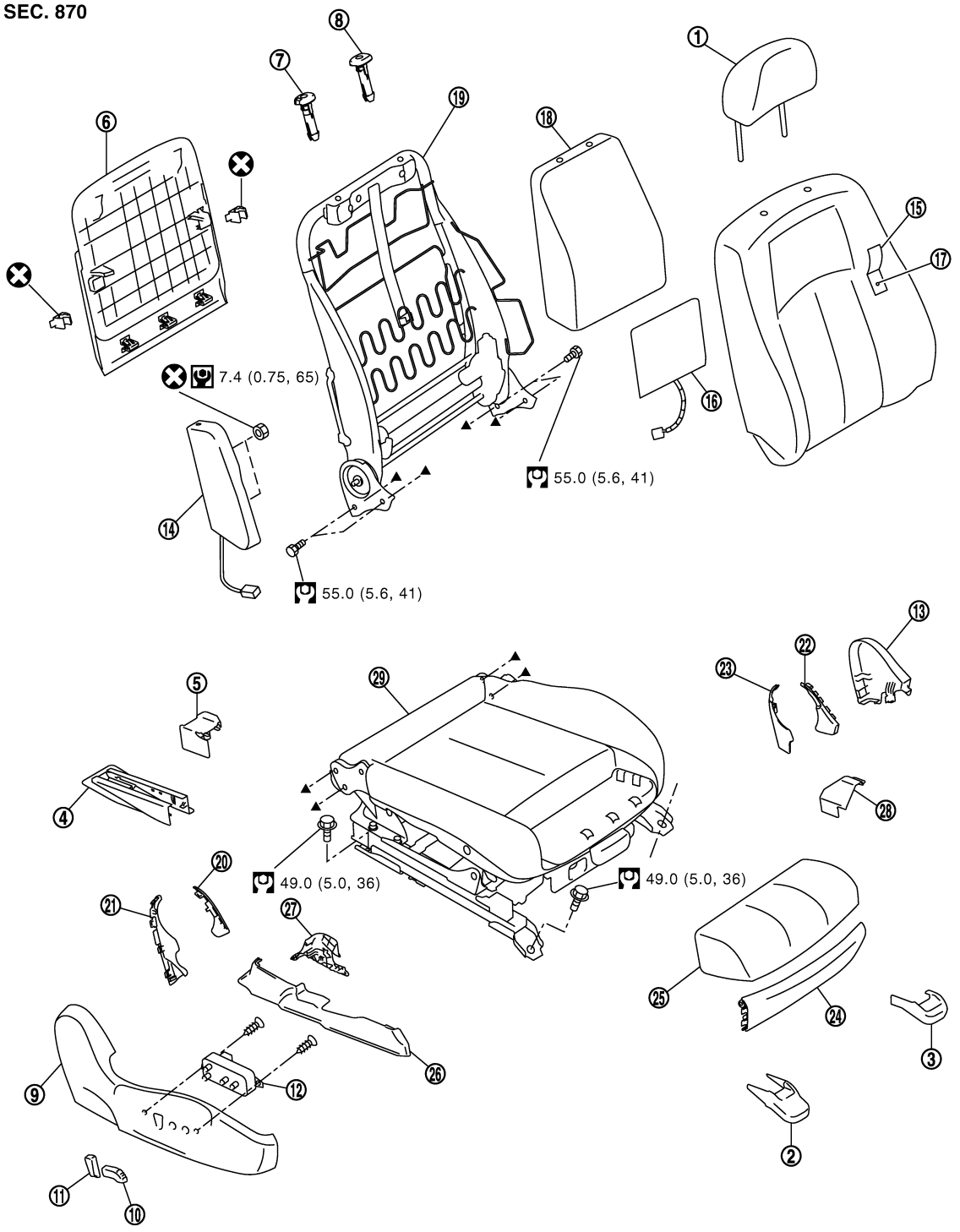


1. Headrest
2. Front outer slide cover
3. Front inner slide cover
4. Rear outer slide cover
5. Rear inner slide cover
6. Seatback board
7. Headrest holder (free)
8. Headrest holder (locked)
9. Seat cushion outer finisher
10. Seat slide and lifter switch knob
11. Seat reclining switch knob
12. Lumbar support switch
13. Seat control switch
14. Side support switch
15. Seat cushion inner finisher
16. Side air bag module
17. Snap ring
18. Lumbar support lever knob
19. Seatback trim
20. Seatback heater unit
21. Seatback pad
22. Seatback silencer
23. Seatback side support bag and unit
24. Lumbar support unit
25. Lumbar support motor
26. Seatback frame
27. Reclining device outer cover (front)
28. Reclining device outer cover (rear)
29. Reclining device inner cover (front)
30. Reclining device inner cover (rear)
31. Seat cushion front finisher
32. Thigh extension pad
33. Seat cushion trim
34. Seat cushion heater unit
35. Seat cushion pad
36. Seat cushion side support bag
37. Seat slide outer finisher (outside)
38. Seat slide outer finisher (inside)
39. Seat slide inner finisher
40. Seat control unit
41. Seat harness
42. Seat cushion frame

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

PASSENGER'S SEAT

SEC. 870



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1. Headrest
2. Front outer slide cover
3. Front inner slide cover
4. Rear outer slide cover
5. Rear inner slide cover
6. Seatback board
7. Headrest holder (free)
8. Headrest holder (locked)
9. Seat cushion outer finisher
10. Seat slide and lifter switch knob
11. Seat reclining switch knob
12. Seat control switch
13. Seat cushion inner finisher
14. Side air bag module
15. Seatback trim
16. Seatback heater unit
17. Seatback pad
18. Seatback silencer

19. Seatback frame
20. Reclining device outer cover (front)
21. Reclining device outer cover (rear)
22. Reclining device inner cover (front)
23. Reclining device inner cover (rear)
24. Seat cushion front finisher
25. Thigh extension pad
26. Seat slide outer finisher (outside)
27. Seat slide outer finisher (inside)
28. Seat slide inner finisher
29. Seat cushion assembly

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

Removal and Installation

INFOID:0000000000960565

REMOVAL

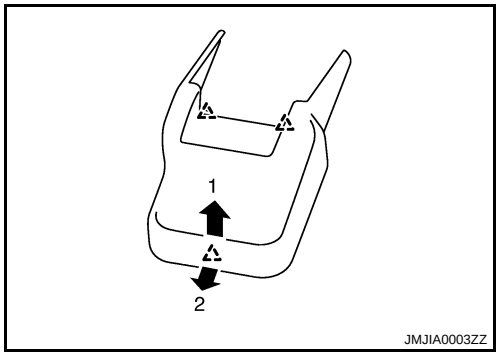
CAUTION:

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

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

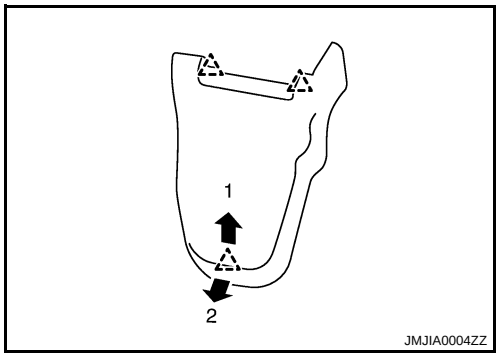
a. Front outer slide cover
- Slide the seat to the rearmost position.
- Pull up the front edge of the front slide cover to release the pawls.
- Slide the front slide cover forward to release the pawls.

△ :Pawl



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

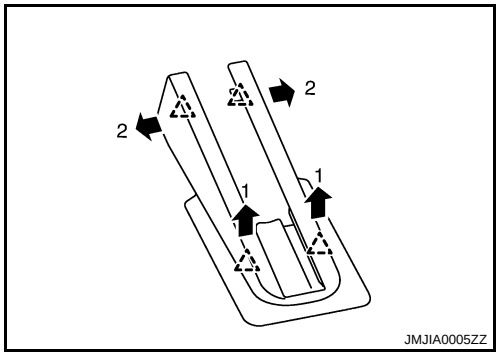
△ :Pawl



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

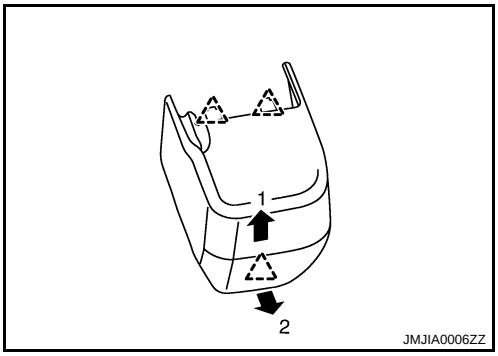
a. Rear outer slide cover
- Slide the seat to the foremost position.
- Pull up the rear edge of the rear outer slide cover to release the pawls.
- Open the front end of the rear outer slide cover to release the pawls.

△ :Pawl



b. Rear inner slide cover
   - Slide the seat to the foremost 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 both battery cables, 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.

INSTALLATION

Install in the reverse order of removal.

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

NOTE:
After installing the driver 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 : Description".

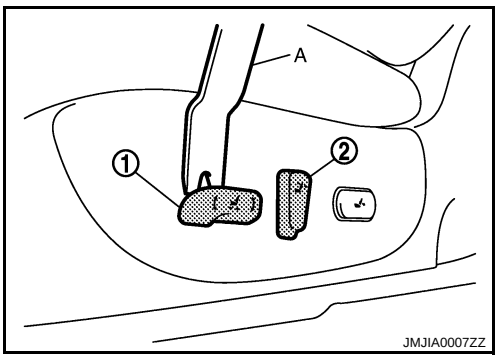
Disassembly and Assembly

INFOID:0000000000960566

SEATBACK

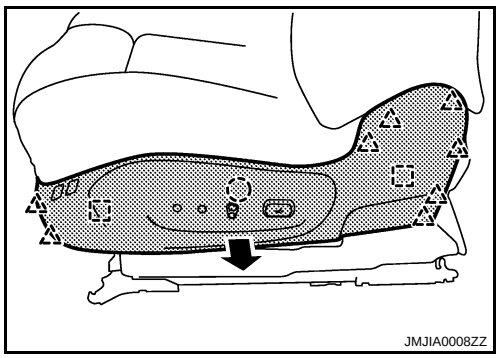
Disassembly

1. Remove the seat cushion outer finisher.
   - Remove the seat slide and lifter switch knob (1) and seat reclining switch knob (2).Using a remover tool (A).

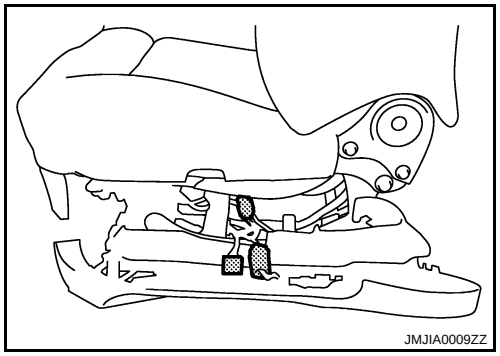


- Remove the metal clips, clips and pawls, and then pull out seat cushion outer finisher.

: Metal clip
: Pawl


JMJIA0008ZZ

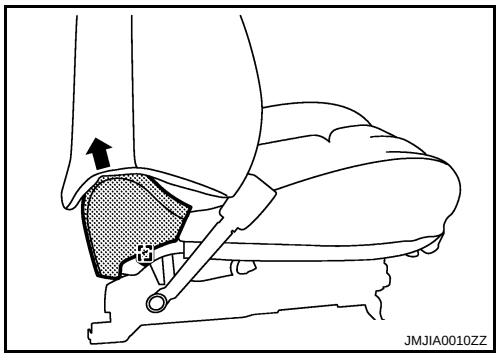
- Disconnect the seat control switch, lumbar support switch and side support switch harness connector.


JMJIA0009ZZ

- Remove the reclining device outer cover (front, rear).

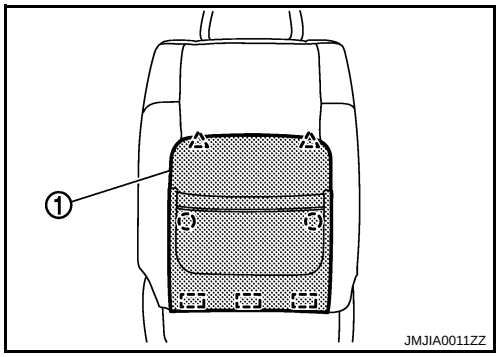
2. Remove the seat cushion inner finisher.
   - Remove the reclining device inner covers (front, rear) by releasing the metal clip and pull it up together with the cover.
   - Remove the relining device inner covers (front, rear) from the seat cushion inner finisher by releasing the pawls.

: Metal clip


JMJIA0010ZZ

3. Remove the back board.
   - Remove the metal clips and clips, and then pull out seatback board (1).
   - Pull down the seatback board to release the upper pawls.

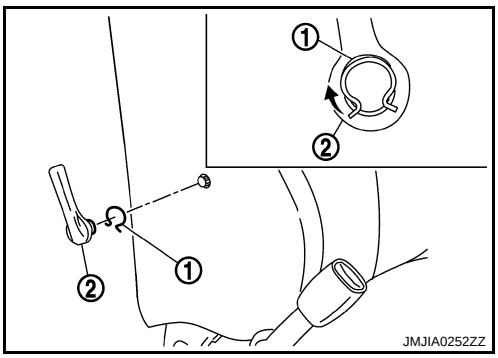
: Clip
: Metal clip
: Pawl



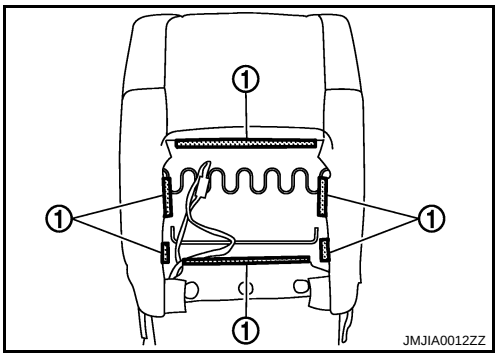
JMJIA0011ZZ

4. Remove the lumbar support lever knob.(Manual lumbar support model only.)

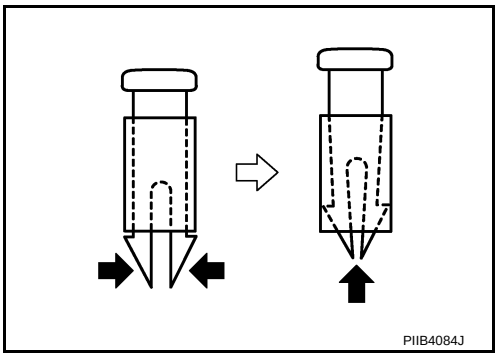
Pull snap ring (1) upward, and remove lumbar support lever knob (2) from seatback frame.



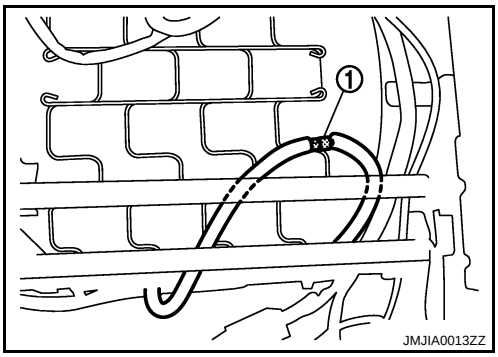
5. Remove the seatback pad and trim.
   - Remove the seatback retainer (1) on the back side of the seatback.



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

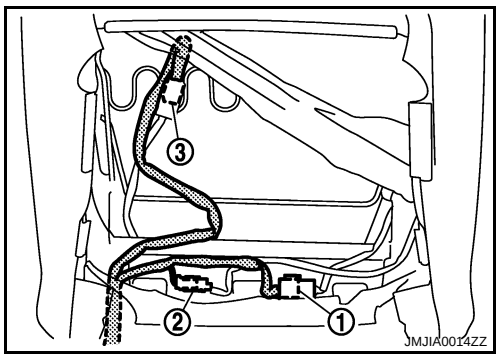


   - Remove the side air bag module.
   - Remove the side support hose joint (1) located under the seat cushion.(Side support model only.)



   - Disconnect the seatback heater unit harness connector.

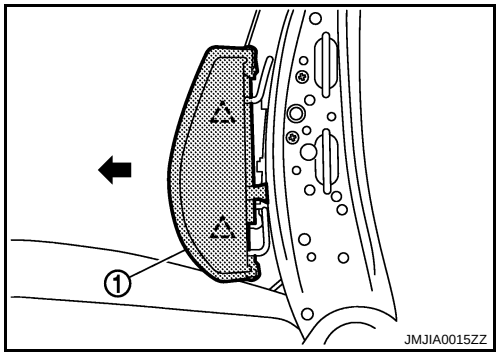
- Disconnect the reclining motor harness connector (1) and remove the harness clamp.
- Disconnect the lumbar support motor harness connector (2) and remove the harness clamp.(Power lumbar support model only.)
- Disconnect the side support unit harness connector (3) and remove the harness clamp.(Side support model only.)



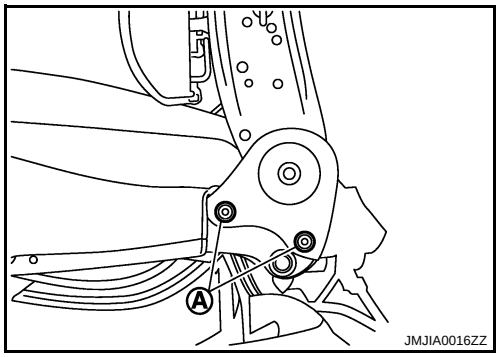
- Remove the seatback pad and seatback trim from the seatback frame.
- Remove the hog rings, and separate the trim and pad.

6. Remove the seatback silencer.
7. Remove the lumbar support motor.(Power lumbar support model only.)
   - Remove the bolts, and then remove lumbar support unit.
   - Remove the screws, and then remove lumbar support motor.
8. Remove the side support bag and unit.(Side support model only.)
   - Remove the pawls, and then remove side support bag (1).
   - Remove the side support unit.

: Pawl



9. Remove the seatback frame.
   Remove the seatback frame mounting bolt (A).



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

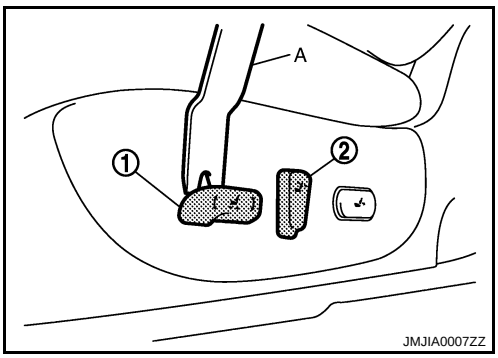
Disassembly

CAUTION:

Do not disassemble front passenger seat cushion assembly.
Always replace as an assembly.
For front passenger seat service parts, refer to the service part catalogue.

1. Remove the seat cushion outer finisher.

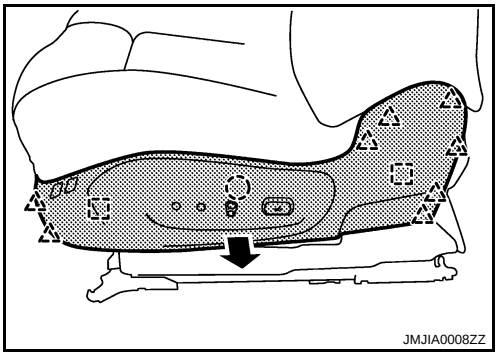
- Remove the seat slide and lifter switch knob (1) and seat reclining switch knob (2).Using a remover tool (A).



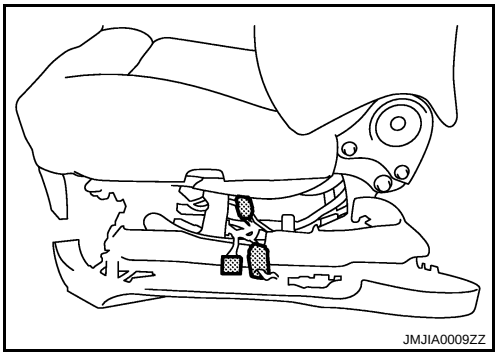
- Remove the metal clips, clips and pawls, and then pull out seat cushion outer finisher.

: Metal clip

: Pawl



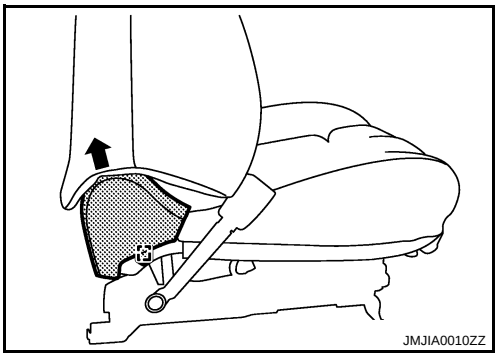
- Disconnect the seat control switch, lumbar support switch and side support switch harness connector.



- Remove the reclining device outer cover (front, rear).

2. Remove the seat cushion inner finisher.
   - Remove the reclining device inner covers (front, rear) by releasing the metal clip and pull it up together with the cover.
   - Remove the relining device inner covers (front, rear) from the seat cushion inner finisher by releasing the pawls.

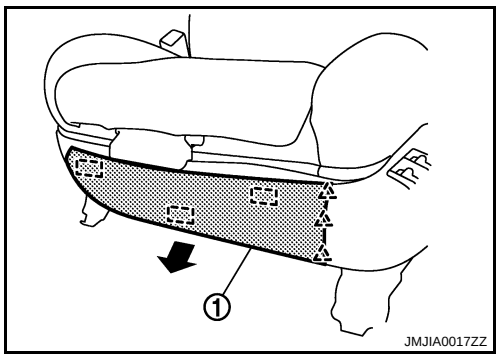
: Metal clip



3. Remove the seat cushion front finisher.

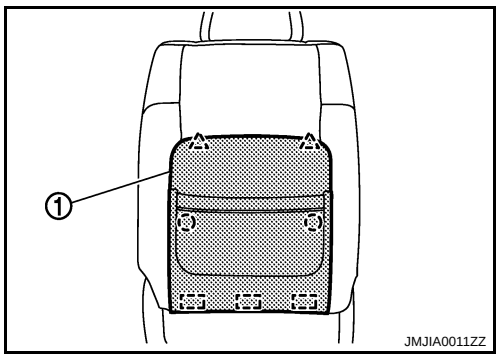
Remove the metal clips, and then pull out seat cushion front finisher (1).

: Metal clip
: Pawl

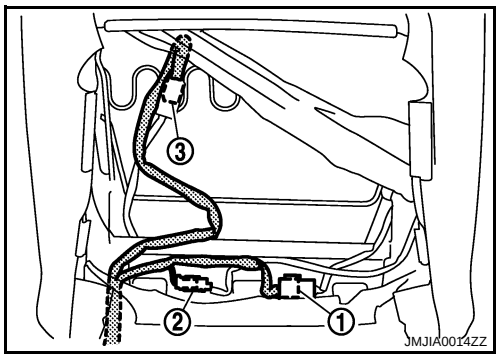


4. Remove the seatback board.
   - Remove the metal clips and clips, and then pull out seatback board (1).
   - Pull down the seatback board to release the upper pawls.

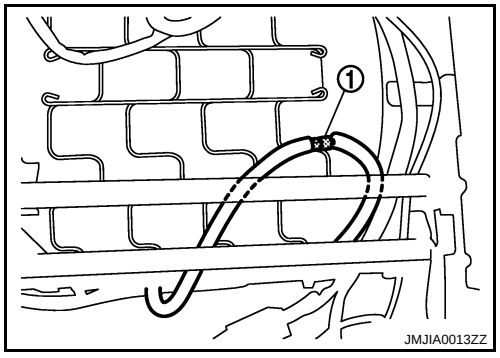
: Clip
: Metal clip
: Pawl



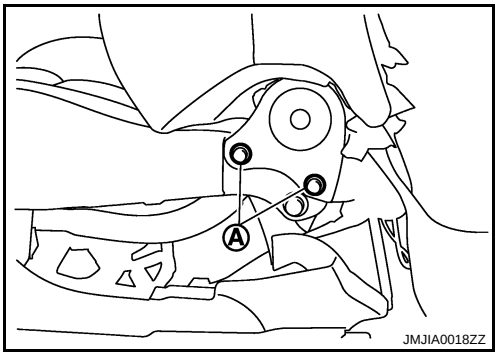
5. Remove the seatback assembly.
   - Disconnect the reclining motor harness connector (1) and remove the harness clamp.
   - Disconnect the lumbar support motor harness connector (2) and remove the harness clamp.(Power lumbar support model only.)
   - Disconnect the side support unit harness connector (3) and remove the harness clamp.(Side support model only.)



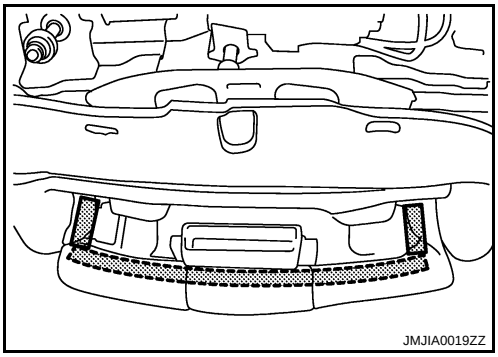
   - Remove the seat cushion retainer, and then side air bag harness clamp and seatback heater unit harness connector.
   - Remove the side support hose joint (1) located under the seat cushion.(Side support model only.)



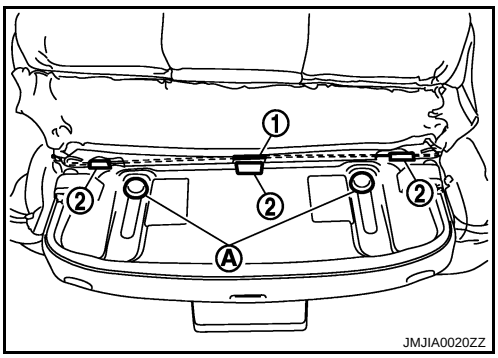
- Remove the seatback mounting bolts (A), and then remove the seatback assembly.



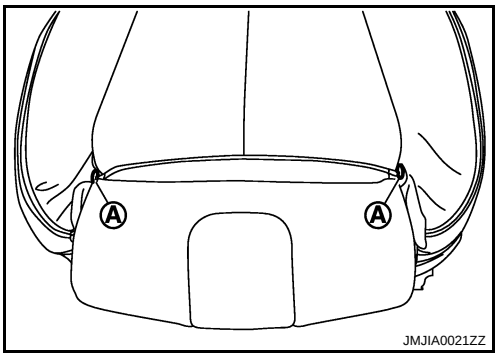
6. Remove the thigh extension.(Thigh extension model only.)
   - Remove the retainer.



   - Remove the thigh extension pad.
   - Remove the mounting screw (A).
   - Remove the seat cushion trim wire (1) from the hook (2).
   - Remove the thigh extension frame by sliding it.



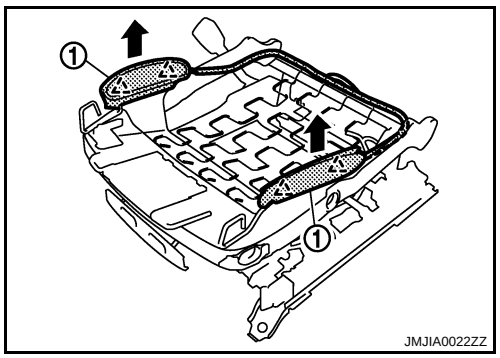
7. Remove the seat cushion pad and trim.
   - Remove the clip (A).(Thigh extension model only.)



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

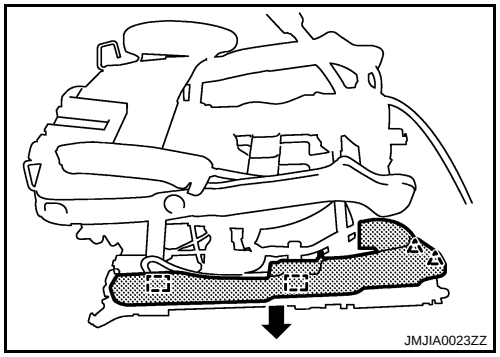
- Remove the pawls, and then remove side support bag (1).

: Pawl



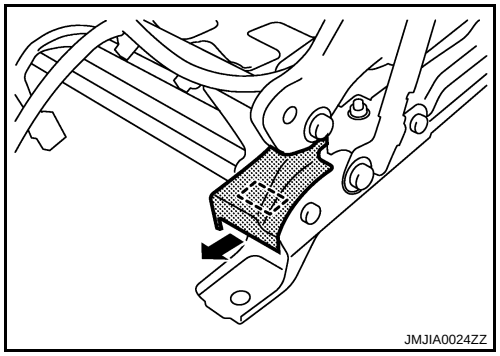
9. Remove the seat slide outer finisher.
   - Remove the metal clip and pawls, and then pull out seat slide outer finisher (outside).
   - Remove the metal clip, and then pull out seat slide outer finisher (inside).

: Metal clip



10. Remove the seat slide inner finisher.
    Remove the metal clip, and then pull out seat slide inner finisher.

: Metal clip



Assembly

Assemble in the reverse order of disassembly.

CAUTION:

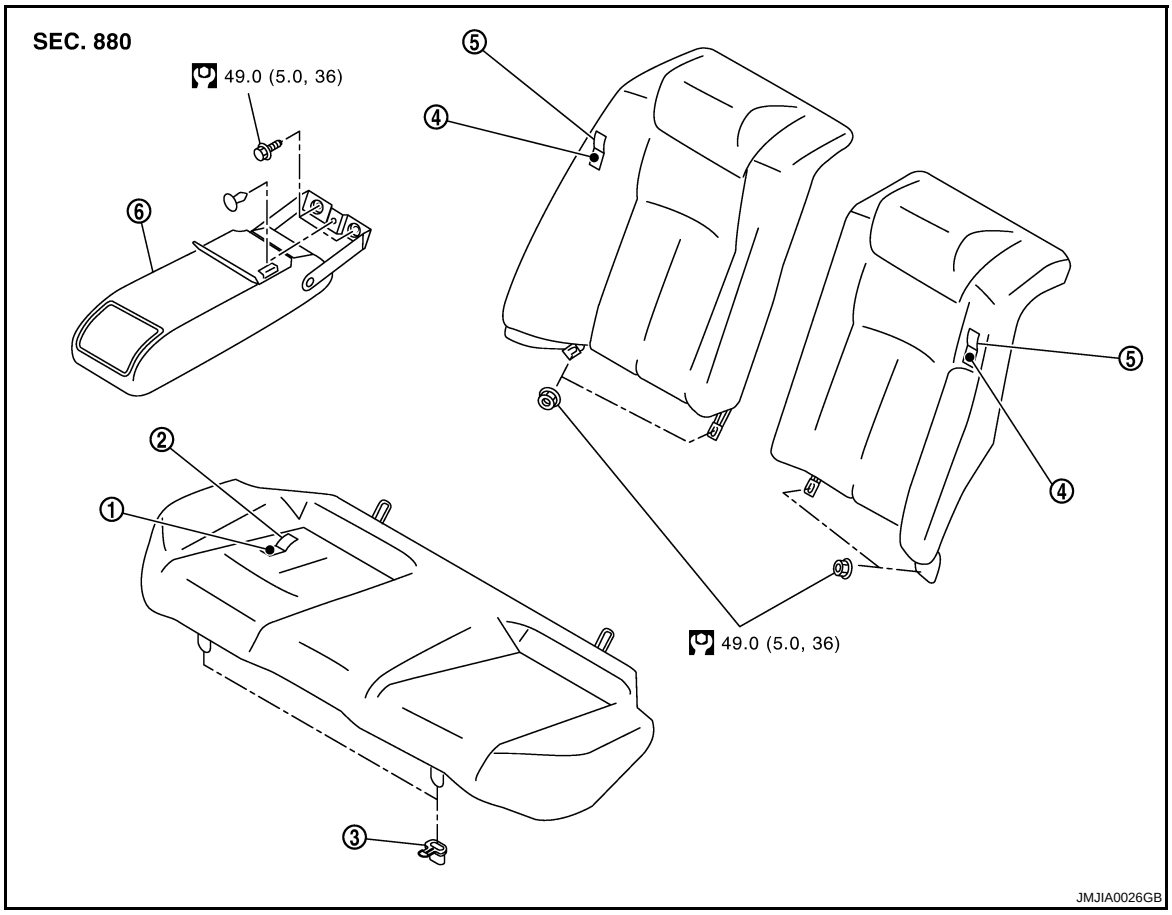
Install the hog rings of seat cushion trim in position, and then securely connect the trim or trim cord with the pad side wire.

REAR SEAT

Exploded View

INFOID:0000000000960567

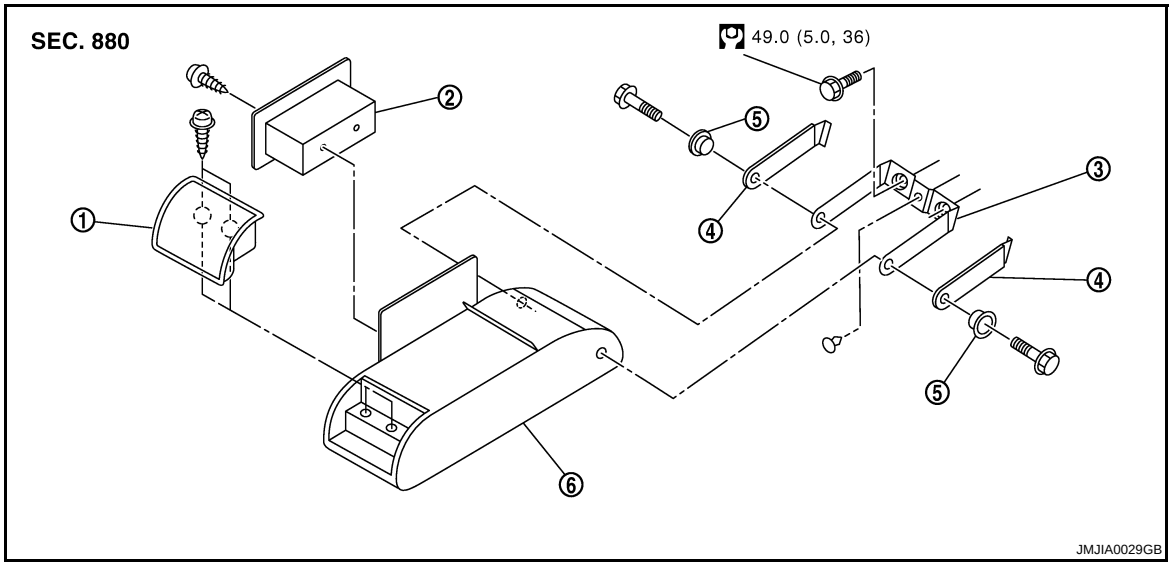
REAR SEAT



1. Seat cushion pad
2. Seat cushion trim
3. Seat cushion hook
4. Seatback pad
5. Seatback trim
6. Armrest assembly

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

ARMREST



1. Cup holder
2. Armrest side console
3. Armrest bracket
4. Armrest bracket outer cover
5. bushing
6. Armrest trim and pad

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

Removal and Installation

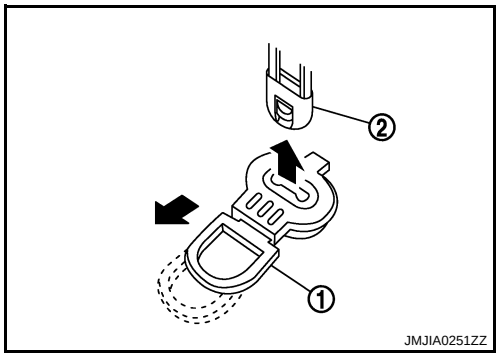
INFOID:0000000000960568

REMOVAL

CAUTION:

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

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 to remove.
   - Remove the seat cushion from the vehicle.



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2. Remove the seatback.
   - Remove the nuts under seatback.
   - Lift up seatback from underneath, and then remove seatback from seatback hook that is fixed to the vehicle.
   - Remove the seatback from the vehicle.
3. Remove the armrest assembly.
   - Remove the fastener.
   - Remove the armrest mounting bolts.
   - Remove the clip.
   - Remove the armrest assembly from the vehicle.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

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

Disassembly and Assembly

INFOID:0000000000960569

SEATBACK

Disassembly

Remove the hog rings, and separate the trim and pad.

Assembly

Assemble in the reverse order of disassembly.

SEAT CUSHION

Disassembly

Remove the hog rings, and separate the trim and pad.

Assembly

Assemble in the reverse order of disassembly.

ARMREST

Disassembly

1. Remove the screws, and then remove the cup holder.
2. Remove the screws, and then remove the armrest side console

3. Remove the bolts, and then remove the armrest bracket.
4. Remove the armrest bracket outer cover from armrest bracket.

Assembly

Assemble in the reverse order of disassembly.

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

Removal and Installation

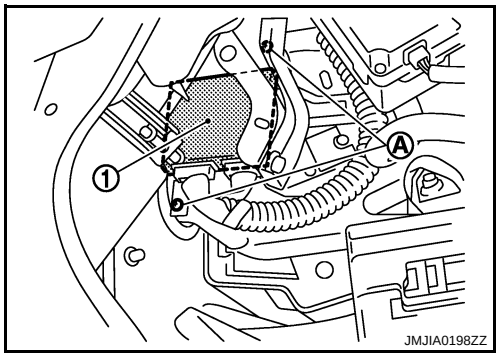
INFOID:0000000000960570

REMOVAL

CAUTION:

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

1. Remove the battery negative terminal.
2. Remove the instrument driver lower panel. Refer to IP-12, "Removal and Installation".
3. Remove the screws (A).
4. Remove automatic drive positioner control unit (1).



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".

SEAT MEMORY SWITCH

Removal and Installation

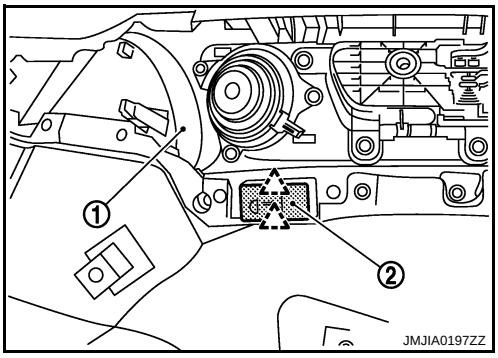
INFOID:0000000000960571

REMOVAL

CAUTION:

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

1. Disconnect battery negative terminal.
2. Remove the front door finisher (1). Refer to INT-10, "Removal and Installation".
3. Press pawls and remove seat memory switch (2) from front door finisher (1).



: Pawl

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".

POWER SEAT SWITCH

Removal and Installation

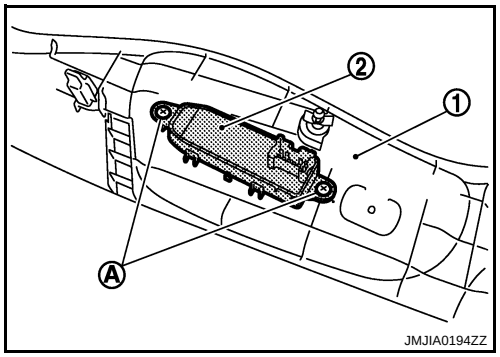
INFOID:0000000000960572

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-96, "Disassembly and Assembly".
2. Remove the screws (A).
3. Remove the power seat switch (2) from the seat cushion outer finisher (1).



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".

SIDE SUPPORT SWITCH

Removal and Installation

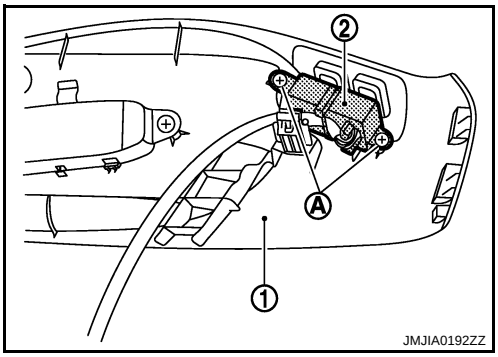
INFOID:0000000000960573

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-95, "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".

LUMBAR SUPPORT SWITCH

Removal and Installation

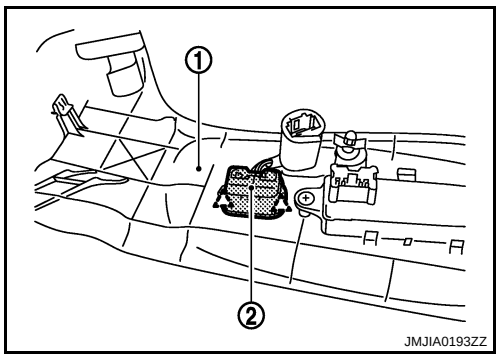
INFOID:0000000000960574

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-95, "Removal and Installation"
2. Remove lumbar support switch (2).



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".

TILT&TELESCOPIC SWITCH

Removal and Installation

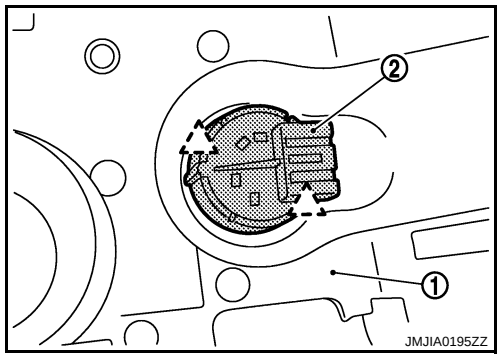
INFOID:0000000000960575

REMOVAL

CAUTION:

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

1. Disconnect battery negative terminal.
2. Remove the steering column mask (1). Refer to IP-12, "Removal and Installation".
3. Press pawls and remove tilt & telescopic switch (2) from the steering column mask (1).



: Pawl

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".