SECTION SE
SEAT

CONTENTS

BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

INFOID:0000000004240955

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.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 4.

4.IDENTIFY MALFUNCTIONING PARTS WITH “COMPONENT DIAGNOSIS”

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

>> GO TO 5.

5.REPAIR OR REPLACE THE MALFUNCTIONING PARTS

Repair or replace the specified malfunctioning parts.

>> GO TO 6.

6.FINAL CHECK

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 2.

SYSTEM DESCRIPTION

POWER SEAT

System Description

INFOID:0000000004240956

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

SLIDING OPERATION

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

RECLINING OPERATION

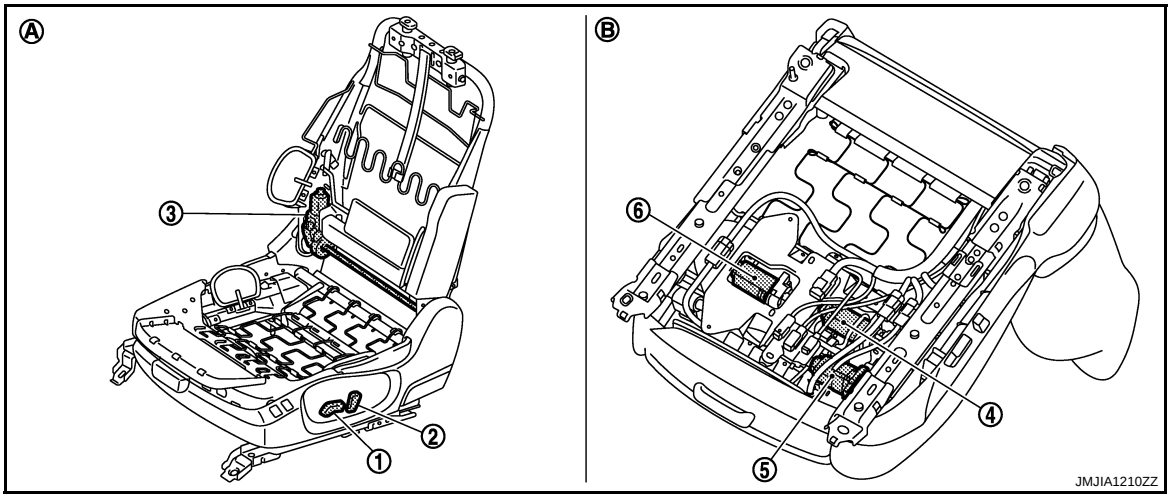
While operating the reclining switch located in power seat switch, reclining motor operates and makes possible the seat back forward and backward position adjustment.

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.

Component Parts Location

INFOID:0000000004240957



1. Sliding switch and lifting switch B414 (driver side) B434 (passenger side)
2. Reclining switch B414 (driver side) B434 (passenger side)
3. Reclining motor B415 (driver side) B435 (passenger side)
4. Lifting motor (rear) B418 (driver side) B438 (passenger side)
5. Sliding motor B416 (driver side) B436 (passenger side)
6. Lifting motor (front) B417 (driver side) B437 (passenger side)

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

B. View with back side of seat cushion.

Component Description

INFOID:0000000004240958

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

TILT&TELESCOPIC SYSTEM

System Description

INFOID:0000000004240959

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

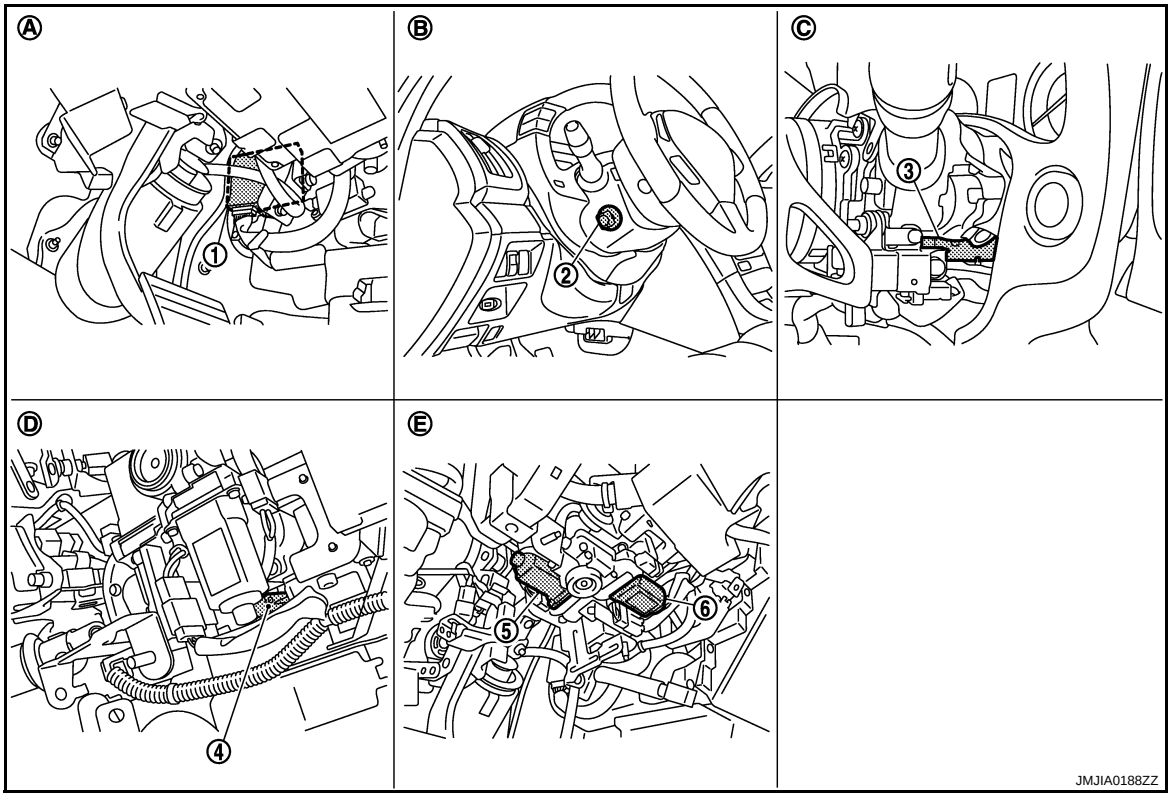
- While operating the tilt and telescopic switch, tilt motor operates, and allows up or down position adjustment of steering wheel.
- During tilt motor operation tilt sensor detects the position of steering wheel and automatically cuts the power when the operation limit is reached.

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:0000000004240960



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:0000000004240961

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.

SIDE SUPPORT

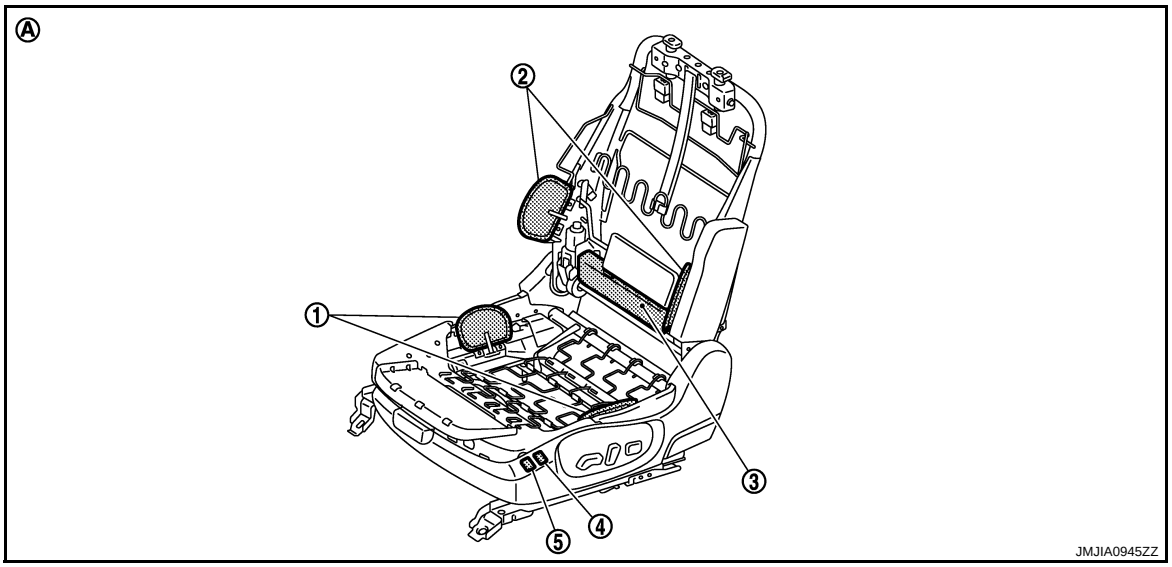
System Description

INFOID:0000000004240962

- 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:0000000004240963



1. Side support (seat cushion) (Side support unit B465)
2. Side support (seat back) (Side support unit B465)
3. Side support unit B465
4. Side support switch (seat back side) B464
5. Side support switch (cushion side) B464

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

Component Description

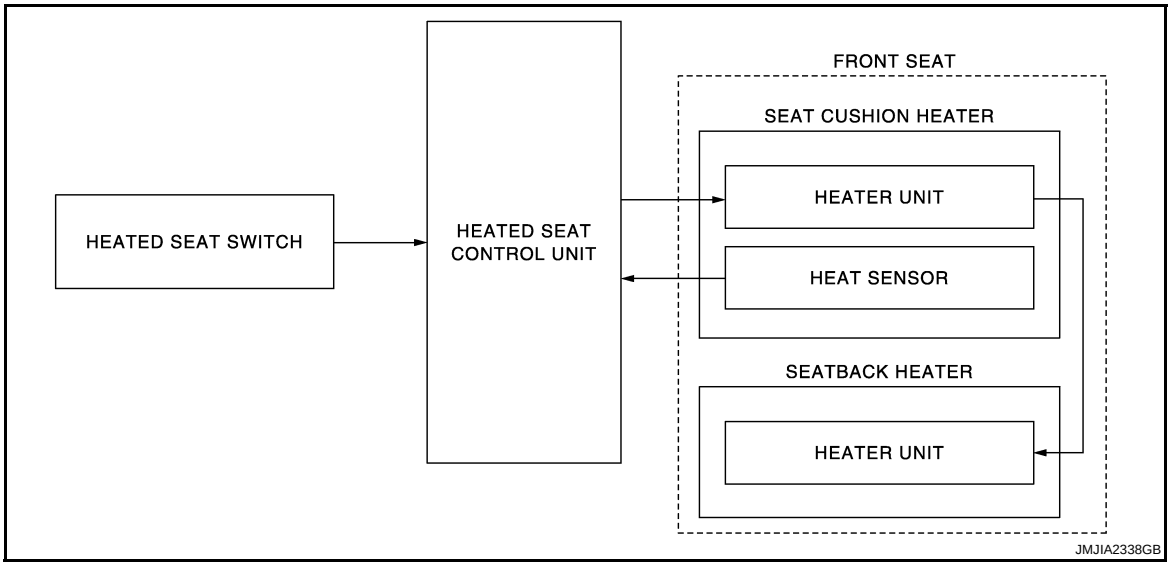
INFOID:0000000004240964

Item	Function
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.

HEATED SEAT

System Diagram

INFOID:0000000004535415



System Description

INFOID:0000000004535416

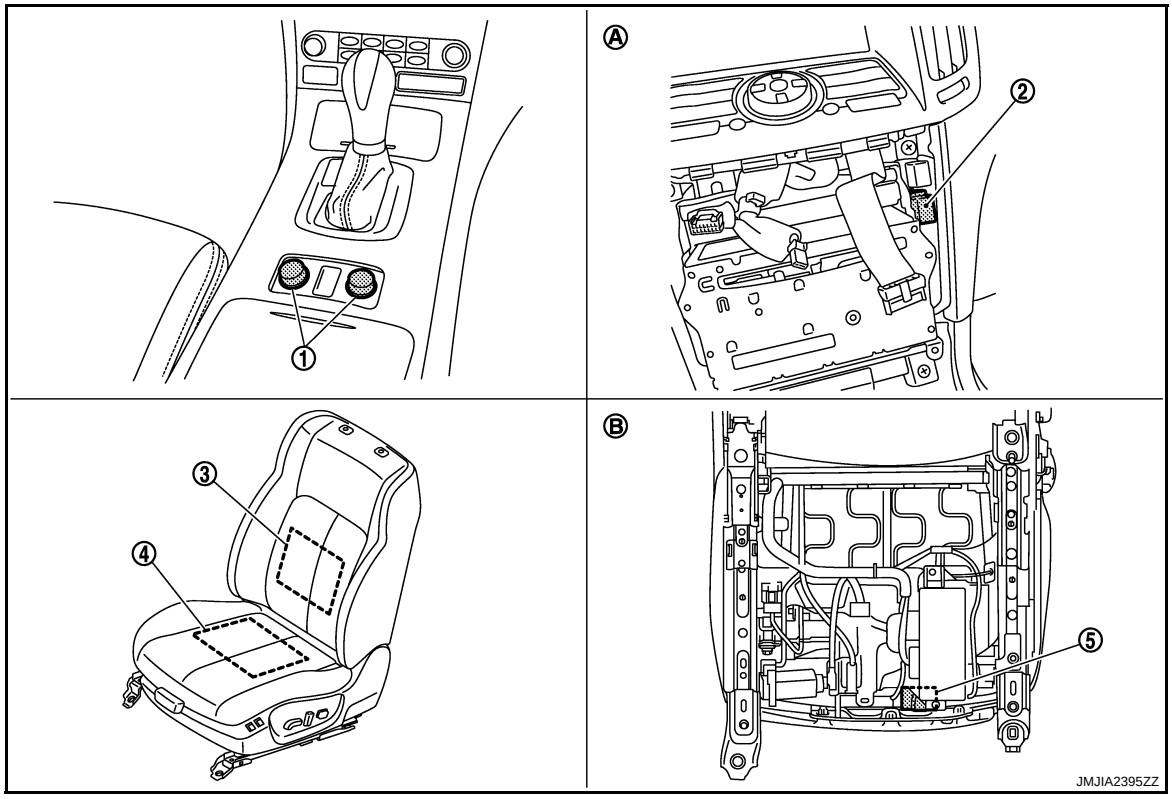
- Heated seat is activated by heated seat switch while ignition switch is ON, and has the function to warm seat cushion and seatback.
- Heated seat equips the 6-stage temperature adjustment function that adjusts temperature by operating heated seat switch to the optimal position.
- Heated seat equips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

OPERATION DESCRIPTION

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

Component Parts Location

INFOID:0000000004535417



1. Heated seat switch
   - Driver side
   - With A/T M141
   - With M/T M175
   - Passenger side
   - With A/T M142
   - With M/T M176
2. Heated seat relay M70
3. Seatback heater
   - Driver side B425
   - Passenger side B445
4. Seat cushion heater
   - Driver side B467, B424
   - Passenger side B441, B444
5. Heated seat control unit
   - Driver side B466
   - Passenger side B440

A. Behind cluster lid C
B. Backside of seat cushion

Component Description

INFOID:0000000004535418

Item	Function
Heated seat switch	• Adjusts heated seat temperature and deactivates heated seat • Equips indicator that indicates the operating condition
Seat cushion heater	• Warms seat cushion • Contains heater sensor that outputs seat cushion temperature to heated seat control unit
Seatback heater	Warms seatback
Heated seat control unit	Controls heated seat temperature and is independently placed in each seat cushion (driver seat and passenger seat)

LUMBAR SUPPORT

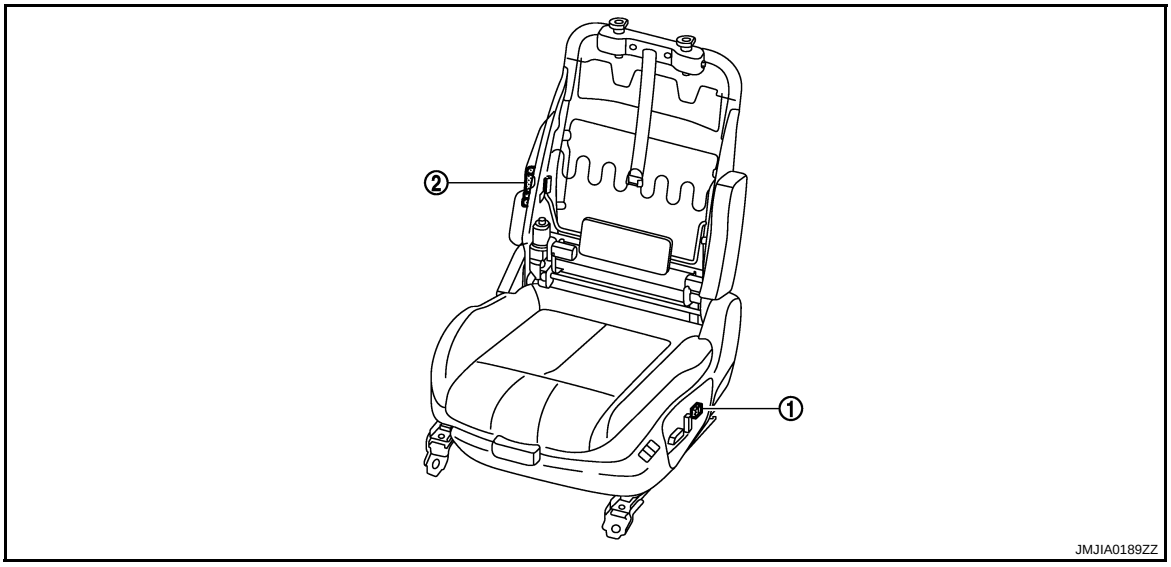
System Description

INFOID:0000000004240968

- 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:0000000004240969



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

Component Description

INFOID:0000000004240970

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.

DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

AUTOMATIC DRIVE POSITIONER CONTROL UNIT : Diagnosis Procedure

INFOID:0000000004535423

1.CHECK FUSE AND FUSIBLE LINK

Check that the following fuse and fusible link are not fusing.

Terminal No.	Signal name	Fuse and fusible link No.
39	Battery power supply	K (40 A)
34		10 (10 A)

Is the inspection result normal?

YES >> GO TO 2.
NO >> Replace the blown fuse and fusible link after repairing the affected circuit if fuse and fusible link are blown.

2.CHECK 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 harness connector and ground.

(+)		(–)	Voltage (V) (Approx.)
Automatic drive positioner control unit			
Connector	Terminal		
M52	34	Ground	Battery voltage
	39		

Is the inspection result normal?

YES >> GO TO 3.
NO-1 >> Repair or replace harness.
NO-2 >> Check circuit breaker, and replace if NG.

3.CHECK GROUND CIRCUIT

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

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

Is the inspection result normal?

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

HEATED SEAT CONTROL UNIT

HEATED SEAT CONTROL UNIT : Diagnosis Procedure

INFOID:0000000004535424

1.CHECK FUSE

Check that the following fuses is not fusing.

Signal name	Fuse No.
Battery power supply	35 (15A)

Is the inspection result normal?

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

2.CHECK POWER SUPPLY 1

1. Turn ignition switch OFF.
2. Disconnect heated seat control unit connector.
3. Turn ignition switch ON.
4. Check voltage between heated seat control unit harness connector and ground.

(+)			(–)	Voltage (V) (Approx.)
Heated seat control unit				
Connector		Terminal		
Driver side	B466	67	Ground	Battery voltage
Passenger side	B440	14		

Is the inspection result normal?

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

3.CHECK POWER SUPPLY CIRCUIT 1

1. Turn ignition switch OFF.
2. Disconnect heated seat relay.
3. Check continuity between heated seat control unit harness connector and heated seat relay terminal connector.

Heated seat control unit			Heated seat relay		Continuity
Connector		Terminal	Connector	Terminal	
Driver side	B466	67	M70	3	Existed
Passenger side	B440	14			

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

Heated seat control unit			Ground	Continuity
Connector		Terminal		
Driver side	B466	67		Not existed
Passenger side	B440	14		

Is the inspection result normal?

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

4.CHECK POWER SUPPLY 2

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

(+)			(–)	Condition		Voltage (V) (Approx.)
Heated seat control unit						
Connector		Terminal				
Driver side	B466	69	Ground	Heated seat switch	ON	Battery voltage
					OFF	0
Passenger side	B440	16			ON	Battery voltage
					OFF	0

Is the inspection result normal?

YES >> GO TO 7.
NO >> GO TO 5.

5.CHECK POWER SUPPLY CIRCUIT 2

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

Heated seat control unit			Heated seat switch		Continuity
Connector		Terminal	Connector	Terminal	
Driver side	B466	69	A/T models: M141 M/T models: M175	1	Existed
Passenger side	B440	16	A/T models: M142 M/T models: M176		

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

Heated seat control unit			Ground	Continuity
Connector		Terminal		
Driver side	B466	69		Not existed
Passenger side	B440	16		

Is the inspection result normal?

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

6.CHECK HEATED SEAT SWITCH

Check heated seat switch.
- Driver side: Refer to SE-18, "DRIVER SIDE : Component Inspection".
- Passenger side: Refer to SE-20, "PASSENGER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 8.
NO >> Replace heated seat switch. Refer to SE-133, "Removal and Installation".

7.CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Check continuity between heated seat control unit harness connector and ground.

Heated seat control unit			Ground	Continuity
Connector		Terminal		
Driver side	B466	48		Existed
Passenger side	B440	2		

Is the inspection result normal?

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

8.CHECK INTERMITTENT INCIDENT

Check intermittent incident.
Refer to GI-41, "Intermittent Incident".

>> INSPECTION END

HEATED SEAT SWITCH

HEATED SEAT SWITCH : Diagnosis Procedure

INFOID:0000000004535425

1.CHECK FUSE

Check that the following fuses is not fusing.

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

Is the inspection result normal?

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

2.CHECK POWER SUPPLY

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

(+)			(–)	Voltage (V) (Approx.)
Heated seat switch				
Connector		Terminal		
Driver side	A/T models: M141 M/T models: M175	5	Ground	Battery voltage
Passenger side	A/T models: M142 M/T models: M176			

Is the inspection result normal?

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

3.CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect fuse block (J/B) connector.
3. Check continuity between heated seat switch harness connector and fuse block (J/B) harness connector.

Heated seat switch			Fuse block (J/B)		Continuity
Connector		Terminal	Connector	Terminal	
Driver side	A/T models: M141 M/T models: M175	5	M1	2A	Existed
Passenger side	A/T models: M142 M/T models: M176				

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

Heated seat switch				Continuity
Connector		Terminal	Ground	
Driver side	A/T models: M141 M/T models: M175	5		Not existed
Passenger side	A/T models: M142 M/T models: M176			

Is the inspection result normal?

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

4.CHECK FUSE BLOCK (J/B)

1. Turn ignition switch ON.
2. Check voltage between fuse block (J/B) connector (fuse block side) and ground.

(+)		(–)	Voltage (V) (Approx.)
Fuse block (J/B)			
Connector	Terminal		
M1	2A	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace fuse block (J/B).

5.CHECK INTERMITTENT INCIDENT

Check intermittent incident.
Refer to GI-41, "Intermittent Incident"

>> INSPECTION END

HEATED SEAT SWITCH
DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000004535426

Adjusts heated seat temperature and deactivates heated seat.

DRIVER SIDE : Component Function Check

INFOID:0000000004535427

1.CHECK FUNCTION

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

Is the inspection result normal?

YES >> Heated seat switch function is OK.
NO >> Refer to SE-17, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000004535428

1.CHECK HEATED SEAT CONTROL UNIT INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect heated seat control unit connector.
3. Turn ignition switch ON.
4. Check voltage between heated seat control unit harness connector and ground.

(+)		(–)	Condition		Voltage (V) (Approx.)
Heated seat control unit					
Connector	Terminal				
B466	68	Ground	Heated seat switch position	OFF	0
				1 (Min. temperature)	12.24
				2	12.33
				3	12.49
				4	12.63
				5	12.76
				6 (Max. temperature)	12.90

Is the inspection result normal?

YES >> Heated seat switch circuit is OK.
NO >> GO TO 2.

2.CHECK HEATED SEAT SWITCH CIRCUIT

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

Heated seat switch		Heated seat control unit		Continuity
Connector	Terminal	Connector	Terminal	
A/T models: M141 M/T models: M175	2	B466	68	Existed

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

Heated seat switch		Ground	Continuity
Connector	Terminal		
A/T models: M141 M/T models: M175	2		Not existed

Is the inspection result normal?

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

3.CHECK HEATED SEAT SWITCH

Check heated seat switch.
Refer to SE-18, "DRIVER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace heated seat switch. Refer to SE-133, "Removal and Installation".

4.CHECK INTERMITTENT INCIDENT

Check intermittent incident.
Refer to GI-41, "Intermittent Incident".

>> INSPECTION END

DRIVER SIDE : Component Inspection

INFOID:0000000004535429

1.CHECK HEATED SEAT SWITCH

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

Heated seat switch			Condition		Resistance (KΩ) (Approx.)
Connector	Terminal				
A/T models: M141 M/T models: M175	5	1	Heated seat switch position	ON	0
				OFF	∞
		2		1 (Min. temperature)	2.400
				2	1.800
				3	1.200
				4	0.910
				5	0.620
				6 (Max. temperature)	0.348

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace heated seat switch. Refer to SE-133, "Removal and Installation".

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000004535430

Adjusts heated seat temperature and deactivates heated seat.

PASSENGER SIDE : Component Function Check

INFOID:0000000004535431

1.CHECK FUNCTION

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

Is the inspection result normal?

YES >> Heated seat switch function is OK.
NO >> Refer to SE-19, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000004535432

1. CHECK HEATED SEAT CONTROL UNIT INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect heated seat control unit connector.
3. Turn ignition switch ON.
4. Check voltage between heated seat control unit harness connector and ground.

(+)		(–)	Condition		Voltage (V) (Approx.)
Heated seat control unit					
Connector	Terminal				
B440	15	Ground	Heated seat switch position	OFF	0
				1 (Min. temperature)	12.24
				2	12.33
				3	12.49
				4	12.63
				5	12.76
				6 (Max. temperature)	12.90

Is the inspection result normal?

YES >> Heated seat switch circuit is OK.
NO >> GO TO 2.

2. CHECK HEATED SEAT SWITCH CIRCUIT

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

Heated seat switch		Heated seat control unit		Continuity
Connector	Terminal	Connector	Terminal	
A/T models: M142 M/T models: M176	2	B440	15	Existed

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

Heated seat switch		Ground	Continuity
Connector	Terminal		
A/T models: M142 M/T models: M176	2		Not existed

Is the inspection result normal?

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

3. CHECK HEATED SEAT SWITCH

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

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace heated seat switch. Refer to SE-133, "Removal and Installation".

4. CHECK INTERMITTENT INCIDENT

Check intermittent incident.
Refer to GI-41, "Intermittent Incident".

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:0000000004535433

1. CHECK HEATED SEAT SWITCH

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

Heated seat switch			Condition		Resistance (KΩ) (Approx.)
Connector	Terminal				
A/T models: M142 M/T models: M176	5	1	Heated seat switch position	ON	0
				OFF	∞
		2		1 (Min. temperature)	2.400
				2	1.800
				3	1.200
				4	0.910
				5	0.620
				6 (Max. temperature)	0.348

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace heated seat switch. Refer to SE-133, "Removal and Installation".

HEATED SEAT RELAY

Description

INFOID:0000000004535434

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

Component Function Check

INFOID:0000000004535435

1.CHECK FUNCTION

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

Is the inspection result normal?

YES >> Heated seat relay function is OK.
NO >> Refer to SE-21, "Diagnosis Procedure"

Diagnosis Procedure

INFOID:0000000004535436

1.CHECK HEATED SEAT RELAY POWER SUPPLY

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

(+)		(–)	Voltage (V) (Approx.)
Heated seat relay			
Connector	Terminal		
M70	2	Ground	Battery voltage

Is the inspection result normal?

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

2.CHECK HEATED SEAT RELAY POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect fuse block (J/B) connector.
3. Check continuity between heated seat relay terminal connector and fuse block (J/B) harness connector.

Heated seat relay		Fuse block (J/B)		Continuity
Connector	Terminal	Connector	Terminal	
M70	2	M1	2A	Existed

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

Heated seat relay		Ground	Continuity
Connector	Terminal		
M70	2		Not existed

Is the inspection result normal?

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

3.CHECK HEATED SEAT RELAY GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Check continuity between heated seat relay terminal connector and ground.

Heated seat relay		Ground	Continuity
Connector	Terminal		
M70	1		Existed

Is the inspection result normal?

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

4.CHECK HEATED SEAT RELAY

Check heated seat relay.
Refer to SE-22, "Component Inspection".

Is the inspection result normal?

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

5.CHECK INTERMITTENT INCIDENT

Check intermittent incident.
Refer to GI-41, "Intermittent Incident"

>> INSPECTION END

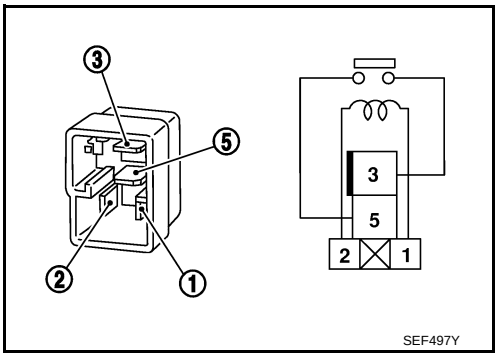
Component Inspection

INFOID:0000000004535437

1.CHECK HEATED SEAT RELAY

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

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



Is the inspection result normal?

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

HEAT SENSOR

DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000004535438

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

DRIVER SIDE : Component Function Check

INFOID:0000000004535439

1.CHECK FUNCTION

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

Is the inspection result normal?

YES >> Heat sensor function is OK.
NO >> Refer to SE-23, "DRIVER SIDE : Diagnosis Procedure"

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000004535440

1.CHECK HEAT SENSOR INPUT SIGNAL

1. Turn ignition switch ON.
2. Check voltage between heated seat control unit harness connector and ground.

(+)		(–)	Condition		Voltage (V) (Approx.)
Heated seat control unit					
Connector	Terminal				
B466	71	Ground	Heated seat switch position	OFF	0
				1 (Min. temperature)	10.87 – 11.02
				2	10.93 – 11.07
				3	11.04 – 11.17
				4	11.13 – 11.26
				5	11.22 – 11.34
				6 (Max. temperature)	11.31 – 11.43

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

Is the inspection result normal?

YES >> heat sensor is OK.
NO >> GO TO 2.

2.CHECK HEAT SENSOR CIRCUIT

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

Heated seat control unit		Seat cushion heater		Continuity
Connector	Terminal	Connector	Terminal	
B466	71	B467	71	Existed

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

Heated seat control unit		Ground	Continuity
Connector	Terminal		
B466	71		Not existed

Is the inspection result normal?

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

3.CHECK HEAT SENSOR POWER SUPPLY

1. Turn ignition switch ON.
2. Heated seat switch ON.
3. Check voltage between seat cushion heater harness connector and ground.

(+)		(–)	Voltage (V) (Approx.)
Seat cushion heater			
Connector	Terminal		
B467	69	Ground	Battery voltage

Is the inspection result normal?

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

4.CHECK HEAT SENSOR POWER SUPPLY CIRCUIT

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

Heated seat control unit		Seat cushion heater		Continuity
Connector	Terminal	Connector	Terminal	
B466	69	B467	69	Existed

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

Heated seat control unit		Ground	Continuity
Connector	Terminal		
B466	69		Not existed

Is the inspection result normal?

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

5.CHECK HEAT SENSOR

Check heat sensor. Refer to SE-24, "DRIVER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 6.
NO >> Replace seat cushion heater. Refer to SE-112, "Exploded View".

6.CHECK INTERMITTENT INCIDENT

Check intermittent incident.
Refer to GI-41, "Intermittent Incident"

>> INSPECTION END

DRIVER SIDE : Component Inspection

INFOID:0000000004535441

1.CHECK HEAT SENSOR

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

Seat cushion heater			Condition	Resistance (KΩ) (Approx.)
Connector	Terminal			
B467	69	71	When heat sensor temperature is 25°C (77°F)	9.9 – 10.1

NOTE:
Resistance value changes according to temperature.

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace seat cushion heater. Refer to SE-112, "Exploded View".

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000004535442

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

PASSENGER SIDE : Component Function Check

INFOID:0000000004535443

1.CHECK FUNCTION

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

Is the inspection result normal?

YES >> Heat sensor function is OK.
NO >> Refer to SE-25, "PASSENGER SIDE : Diagnosis Procedure"

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000004535444

1.CHECK HEAT SENSOR INPUT SIGNAL

1. Turn ignition switch ON.
2. Check voltage between heated seat control unit harness connector and ground.

(+)		(–)	Condition		Voltage (V) (Approx.)
Heated seat control unit					
Connector	Terminal				
B440	18	Ground	Heated seat switch position	OFF	0
				1 (Min. temperature)	10.87 – 11.02
				2	10.93 – 11.07
				3	11.04 – 11.17
				4	11.13 – 11.26
				5	11.22 – 11.34
				6 (Max. temperature)	11.31 – 11.43

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

Is the inspection result normal?

YES >> heat sensor function is OK.
NO >> GO TO 2.

2.CHECK HEAT SENSOR CIRCUIT

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

Heated seat control unit		Seat cushion heater		Continuity
Connector	Terminal	Connector	Terminal	
B440	18	B441	18	Existed

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

Heated seat control unit		Ground	Continuity
Connector	Terminal		
B440	18		Not existed

Is the inspection result normal?

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

3.CHECK HEAT SENSOR POWER SUPPLY

1. Turn ignition switch ON.
2. Heated seat switch ON.
3. Check voltage between seat cushion heater harness connector and ground.

(+)		(–)	Voltage (V) (Approx.)
Seat cushion heater			
Connector	Terminal		
B441	16	Ground	Battery voltage

Is the inspection result normal?

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

4.CHECK HEAT SENSOR POWER SUPPLY CIRCUIT

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

Heated seat control unit		Seat cushion heater		Continuity
Connector	Terminal	Connector	Terminal	
B440	16	B441	16	Existed

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

Heated seat control unit		Ground	Continuity
Connector	Terminal		
B440	16		Not existed

Is the inspection result normal?

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

5.CHECK HEAT SENSOR

Check heat sensor. Refer to SE-27, "PASSENGER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 6.
NO >> Replace seat cushion heater. Refer to SE-112, "Exploded View".

6.CHECK INTERMITTENT INCIDENT

Check intermittent incident.
Refer to GI-41, "Intermittent Incident"

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:0000000004535445

1.CHECK HEAT SENSOR

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

Seat cushion heater			Condition	Resistance (KΩ) (Approx.)
Connector	Terminal			
B441	16	18	When heat sensor temperature is 25°C (77°F)	9.9 – 10.1

NOTE:
Resistance value changes according to temperature.

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace seat cushion heater. Refer to SE-112, "Exploded View".

SEAT CUSHION HEATER
DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000004535446

Warms the seat cushion.

DRIVER SIDE : Component Function Check

INFOID:0000000004535447

1.CHECK FUNCTION

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

Is the inspection result normal?

YES >> Seat cushion heater function is OK.
NO >> Refer to SE-28, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000004535448

1.CHECK SEAT CUSHION HEATER INPUT SIGNAL

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

(+)		(–)	Condition		Voltage (V) (Approx.)
Seat cushion heater					
Connector	Terminal				
B467	70	Ground	Heated seat	Operated	0 – Battery voltage
				Other than above	0

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

Is the inspection result normal?

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

2.CHECK SEAT CUSHION HEATER CIRCUIT

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

Seat cushion heater		Heated seat control unit		Continuity
Connector	Terminal	Connector	Terminal	
B467	70	B466	70	Existed

4. Check continuity between seat cushion heater harness connector and ground.

Seat cushion heater		Ground	Continuity
Connector	Terminal		
B467	70		Not existed

Is the inspection result normal?

YES >> Replace heated seat control unit. Refer to SE-128, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK SEAT CUSHION HEATER

Check seat cushion heater.
Refer to SE-29, "DRIVER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace seat cushion heater. Refer to SE-112, "Exploded View".

4.CHECK SEAT CUSHION HEATER GROUND CIRCUIT

Check continuity between seat cushion heater harness connector and ground.

Seat cushion heater		Ground	Continuity
Connector	Terminal		
B467	48		Existed

Is the inspection result normal?

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

5.CHECK INTERMITTENT INCIDENT

Check intermittent incident.
Refer to GI-41, "Intermittent Incident"

>> INSPECTION END

DRIVER SIDE : Component Inspection

INFOID:0000000004535449

1.CHECK SEAT CUSHION HEATER

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

Seat cushion heater			Condition	Resistance (Ω) (Approx.)
Connector	Terminal			
B467	48	70	When heat sensor temperature is 20°C (68°F)	2.6 – 3.0

NOTE:
Resistance value changes according to temperature.

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace seat cushion heater. Refer to SE-112, "Exploded View"

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000004535450

Warms the seat cushion.

PASSENGER SIDE : Component Function Check

INFOID:0000000004535451

1.CHECK FUNCTION

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

Is the inspection result normal?

YES >> Seat cushion heater function is OK.
NO >> Refer to SE-29, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000004535452

1.CHECK FRONT SEAT CUSHION HEATER INPUT SIGNAL

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

(+)		(–)	Condition		Voltage (V) (Approx.)
Seat cushion heater					
Connector	Terminal				
B441	17	Ground	Heated seat	Operated	0 – Battery voltage
				Other than above	0

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

Is the inspection result normal?

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

2.CHECK SEAT CUSHION HEATER CIRCUIT

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

Seat cushion heater		Heated seat control unit		Continuity
Connector	Terminal	Connector	Terminal	
B441	17	B440	17	Existed

4. Check continuity between seat cushion heater harness connector and ground.

Seat cushion heater		Ground	Continuity
Connector	Terminal		
B441	17		Not existed

Is the inspection result normal?

YES >> Replace heated seat control unit. Refer to SE-128, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK SEAT CUSHION HEATER

Check seat cushion heater.
Refer to SE-31, "PASSENGER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace seat cushion heater. Refer to SE-112, "Exploded View".

4.CHECK SEAT CUSHION HEATER GROUND CIRCUIT

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

Seat cushion heater		Ground	Continuity
Connector	Terminal		
B441	2		Existed

Is the inspection result normal?

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

5.CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-41, "Intermittent Incident"

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:0000000004535453

1.CHECK SEAT CUSHION HEATER

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

Seat cushion heater			Condition	Resistance (Ω) (Approx.)
Connector	Terminal			
B441	2	17	When heat sensor temperature is 20°C (68°F)	2.6 – 3.0

NOTE:
Resistance value changes according to temperature.

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace seat cushion heater. Refer to SE-112, "Exploded View".

SEATBACK HEATER

DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000004535454

Warms the seat cushion.

DRIVER SIDE : Component Function Check

INFOID:0000000004535455

1.CHECK FUNCTION

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

Is the inspection result normal?

YES >> Seatback heater function is OK.
NO >> Refer to SE-32, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000004535456

1.CHECK SEATBACK HEATER

1. Turn ignition switch OFF.
2. Disconnect seatback heater connector.
3. Check resistance between seatback heater terminals.

Seatback heater			Condition	Resistance (Ω) (Approx.)
Connector	Terminal			
B425	1	2	When heat sensor temperature is 20°C (68°F)	4.0 – 4.7

NOTE:
Resistance value changes according to temperature.

Is the inspection result normal?

YES >> Replace seat cushion heater. Refer to SE-112, "Exploded View".
NO >> Replace seatback heater. Refer to SE-112, "Exploded View".

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000004535457

Warms the seat cushion.

PASSENGER SIDE : Component Function Check

INFOID:0000000004535458

1.CHECK FUNCTION

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

Is the inspection result normal?

YES >> Seatback heater function is OK.
NO >> Refer to SE-32, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000004535459

1.CHECK SEATBACK HEATER

1. Turn ignition switch OFF.
2. Disconnect seatback heater connector.
3. Check resistance between seatback heater terminals.

Seatback heater			Condition	Resistance (Ω) (Approx.)
Connector	Terminal			
B445	1	2	When heat sensor temperature is 20°C (68°F)	4.0 – 4.7

NOTE:
Resistance value changes according to temperature.

Is the inspection result normal?

YES >> Replace seat cushion heater. Refer to SE-112, "Exploded View".
NO >> Replace seatback heater. Refer to SE-112, "Exploded View".

HEATED SEAT SWITCH INDICATOR

DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000004535460

Illuminates the indicator that indicates the operating status of heated seat.

DRIVER SIDE : Component Function Check

INFOID:0000000004535461

1.CHECK FUNCTION

Check that the related indicator lamp illuminates when heated seat switch is set to ON.

Is the inspection result normal?

YES >> Heated seat switch indicator function is OK.
NO >> Refer to SE-34, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000004535462

1.CHECK HEATED SEAT SWITCH INDICATOR GROUND CIRCUIT

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

Heated seat switch		Ground	Continuity
Connector	Terminal		
A/T models: M141 M/T models: M175	6		Existed

Is the inspection result normal?

YES >> Replace heated seat switch. Refer to SE-133, "Removal and Installation".
NO >> Repair or replace harness.

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000004535463

Illuminates the indicator that indicates the operating status of heated seat.

PASSENGER SIDE : Component Function Check

INFOID:0000000004535464

1.CHECK FUNCTION

Check that the related indicator lamp illuminates when heated seat switch is set to ON.

Is the inspection result normal?

YES >> Heated seat switch indicator function is OK.
NO >> Refer to SE-34, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000004535465

1.CHECK HEATED SEAT SWITCH INDICATOR GROUND CIRCUIT

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

Heated seat switch		Ground	Continuity
Connector	Terminal		
A/T models: M142 M/T models: M176	6		Existed

Is the inspection result normal?

YES >> Replace heated seat switch. Refer to SE-133, "Removal and Installation".
NO >> Repair or replace harness.

TILT&TELESCOPIC SWITCH

Description

INFOID:0000000004240973

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

Component Function Check

INFOID:0000000004240974

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-36, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000004240975

1.CHECK TILT AND TELESCOPIC SWITCH FUNCTION

Check voltage between tilt and telescopic switch and ground.

Tilt and telescopic switch		(–)	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	Automatic drive positioner 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-37, "Component Inspection".

Is the inspection result normal?

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

5.CHECK AUTOMATIC DRIVE POSITIONER 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		(–)	Voltage (V) Approx.
Connector	Terminal		
M51	1	Ground	5
	11		
	17		
	27		

Is the inspection result normal?

YES >> GO TO 6.
NO >> Replace automatic drive positioner control unit. Refer to SE-127, "Removal and Installation".

6.CHECK INTERMITTENT INCIDENT

Check intermittent incident.
Refer to GI-41, "Intermittent Incident"

>> INSPECTION END

Component Inspection

INFOID:0000000004240976

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-132, "Removal and Installation".

TILT&TELESCOPIC MOTOR

Description

INFOID:0000000004240977

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

Component Function Check

INFOID:0000000004240978

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-39, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000004240979

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-40, "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		(–)	Tilt and telescopic switch condition	Voltage (V) Approx.
Connector	Terminal			
M51	35	Ground	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 >> GO TO 6.
NO >> Replace automatic drive positioner control unit. Refer to SE-127, "Removal and Installation".

6.CHECK INTERMITTENT INCIDENT

Check intermittent incident.
Refer to GI-41, "Intermittent Incident"

>> INSPECTION END

Component Inspection

INFOID:0000000004240980

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.

TILT&TELESCOPIC SENSOR

Description

INFOID:0000000004240981

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

Component Function Check

INFOID:0000000004240982

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-41, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000004240983

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	Automatic drive positioner control unit	Terminal	Continuity
M48	1	M51	33	Existed
	2		23	
	3		7	
	4	M52	41	

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

Tilt and telescopic sensor connector	Terminal	Ground	Continuity
M48	1	Ground	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 >> Replace automatic drive positioner. Refer to SE-127, "Removal and Installation".

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		
M48	4		Existed

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace automatic drive positioner. Refer to SE-127, "Removal and Installation".

4.CHECK INTERMITTENT INCIDENT

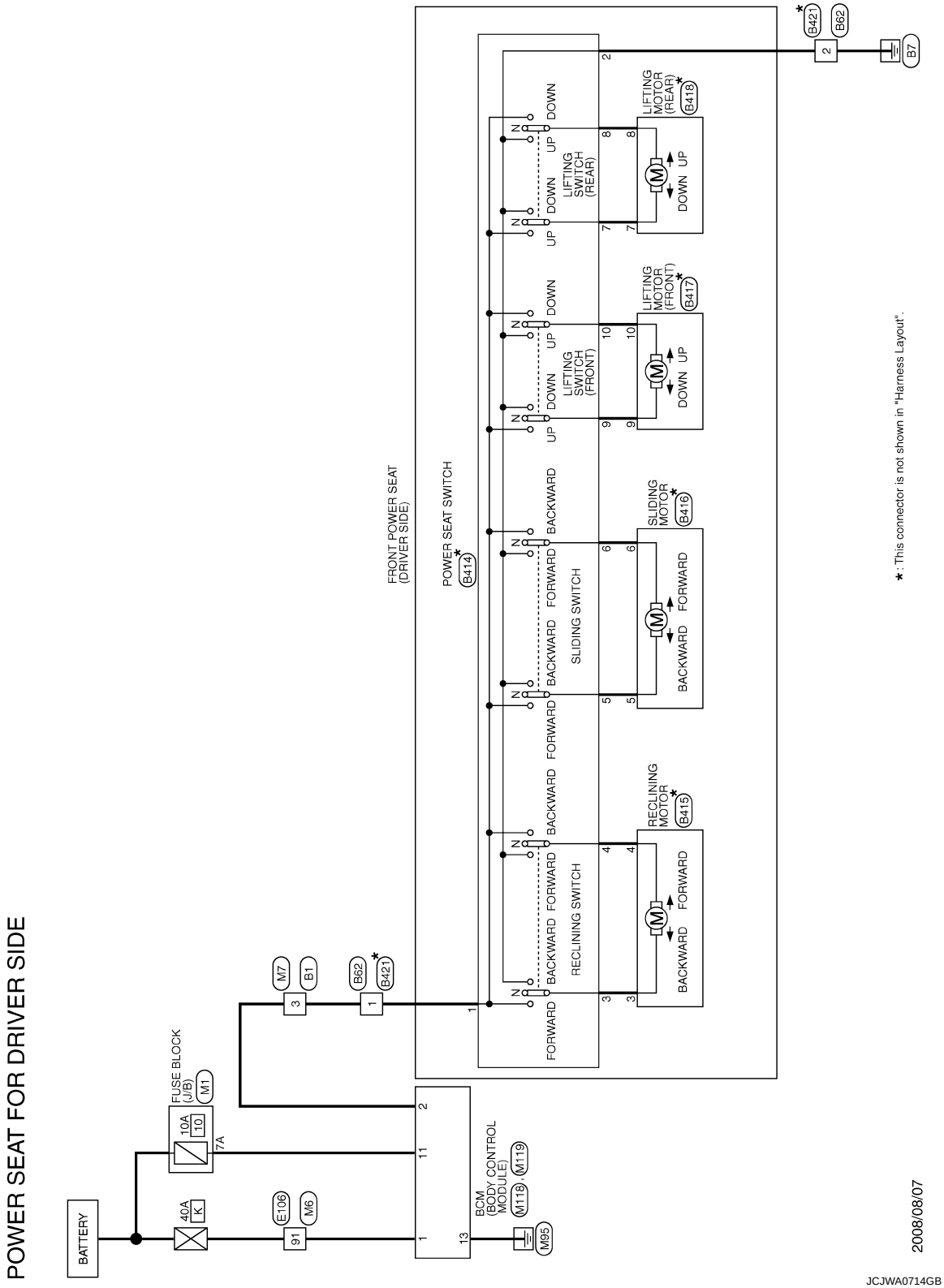
Check intermittent incident.
Refer to GI-41, "Intermittent Incident".

>> INSPECTION END

POWER SEAT

Wiring Diagram - POWER SEAT SYSTEM (DRIVER SIDE) -

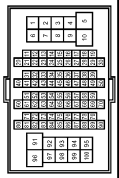
INFOID:0000000004240984



POWER SEAT FOR DRIVER SIDE

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

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
3	V	– [Without automatic drive positioner]
5	W	–
6	V	–

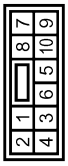
Connector No.	B62
Connector Name	WIRE TO WIRE
Connector Type	M06FW-LC

H.S.

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

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

H.S.



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

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

H.S.

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

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

H.S.

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

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

H.S.

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

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

H.S.

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

Connector No.	B421
Connector Name	WIRE TO WIRE
Connector Type	M06MW-LC

H.S.

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

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POWER SEAT FOR DRIVER SIDE

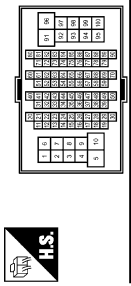
Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

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

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

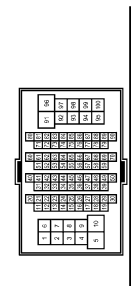
Terminal No.	Color of Wire	Signal Name [Specification]
7A	R	–

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



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

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



Terminal No.	Color of Wire	Signal Name [Specification]
3	P	– [Without automatic drive positioner]

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

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

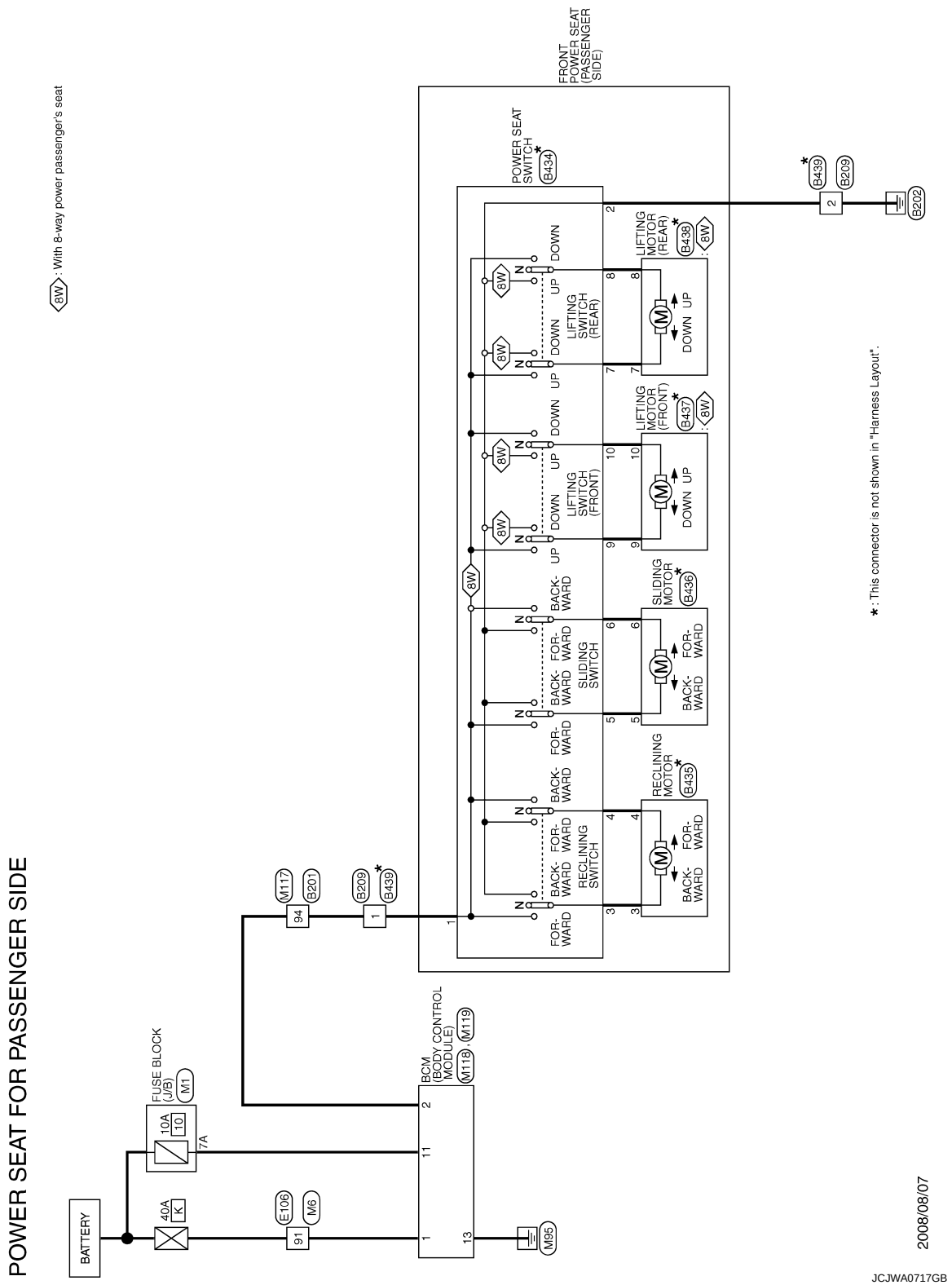
Connector No.	M119
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS16FW-CS

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

JCJWA0716GB

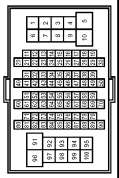
Wiring Diagram - POWER SEAT SYSTEM (PASSENGER SIDE) -

INFOID:0000000004240985



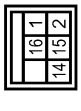
POWER SEAT FOR PASSENGER SIDE

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



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

Connector No.	B209
Connector Name	WIRE TO WIRE
Connector Type	M06FW-LC



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

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

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

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

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

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

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

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

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

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

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

Connector No.	B439
Connector Name	WIRE TO WIRE
Connector Type	M06MW-LC

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

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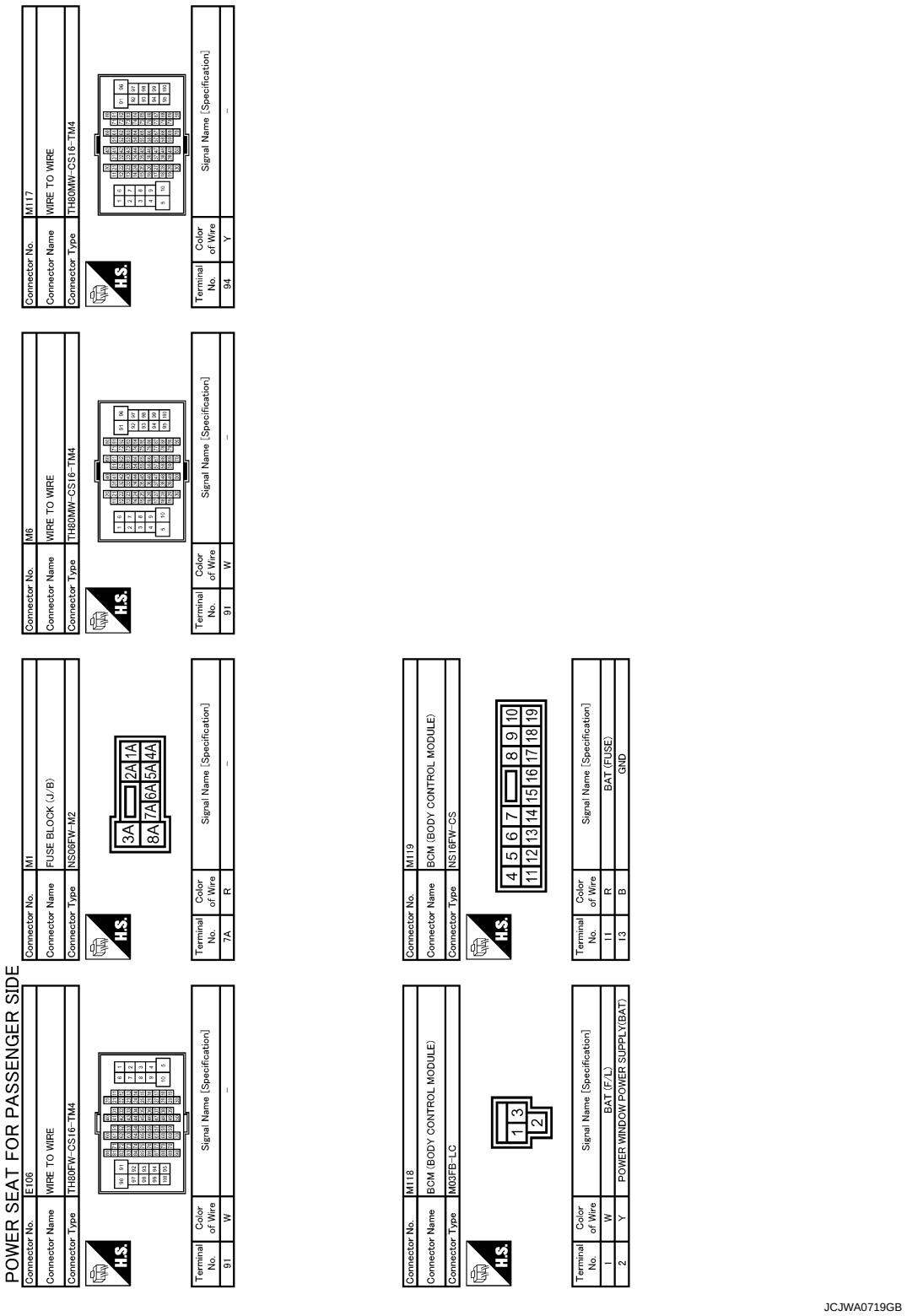

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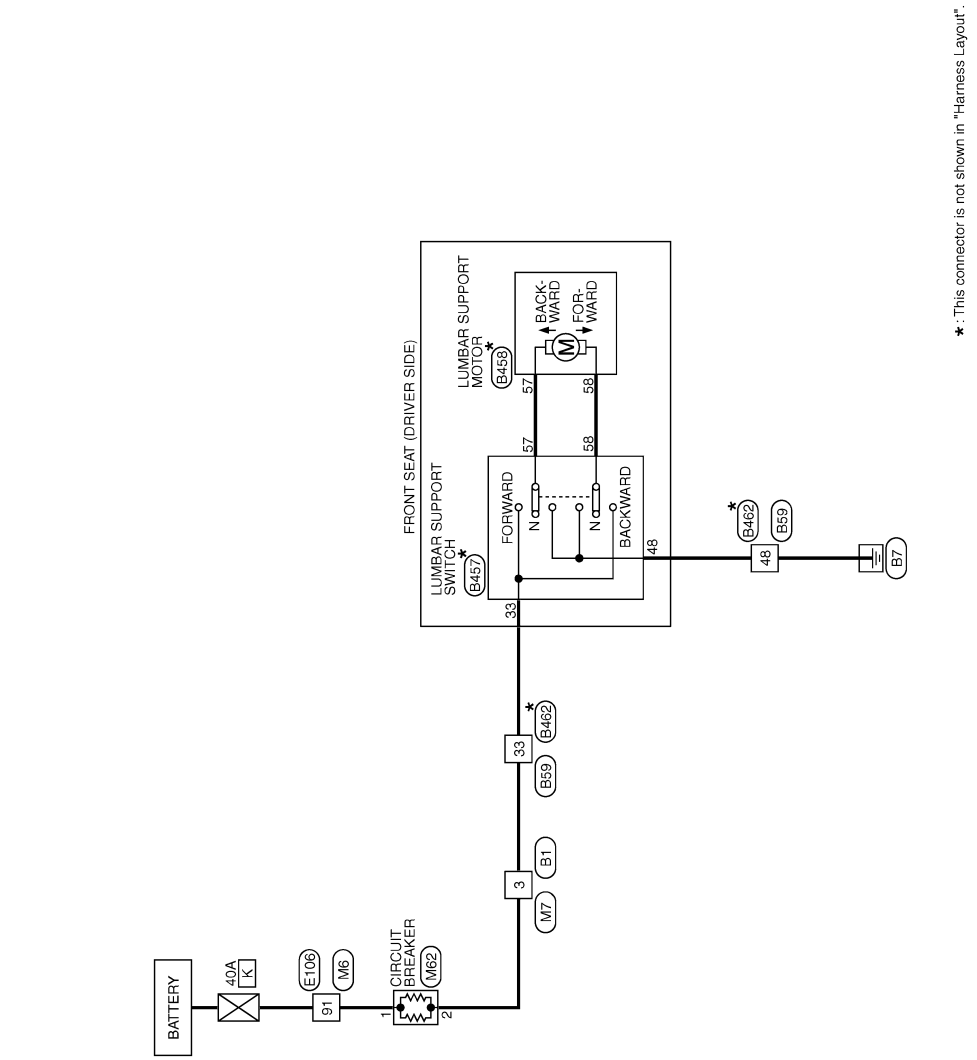
LUMBAR SUPPORT

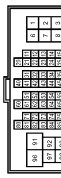
Wiring Diagram - LUMBAR SUPPORT SYSTEM -

INFOID:0000000004240987



LUMBAR SUPPORT

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



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

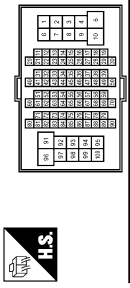
Connector No.	B462
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS

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

Connector No.	B59
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS

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

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

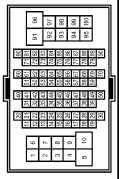


Terminal No.	Color of Wire	Signal Name [Specification]
91	W	–

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

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

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

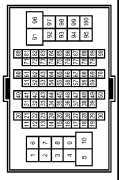


Terminal No.	Color of Wire	Signal Name [Specification]
91	W	–

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

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

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



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

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LUMBAR SUPPORT

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

H.S.

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

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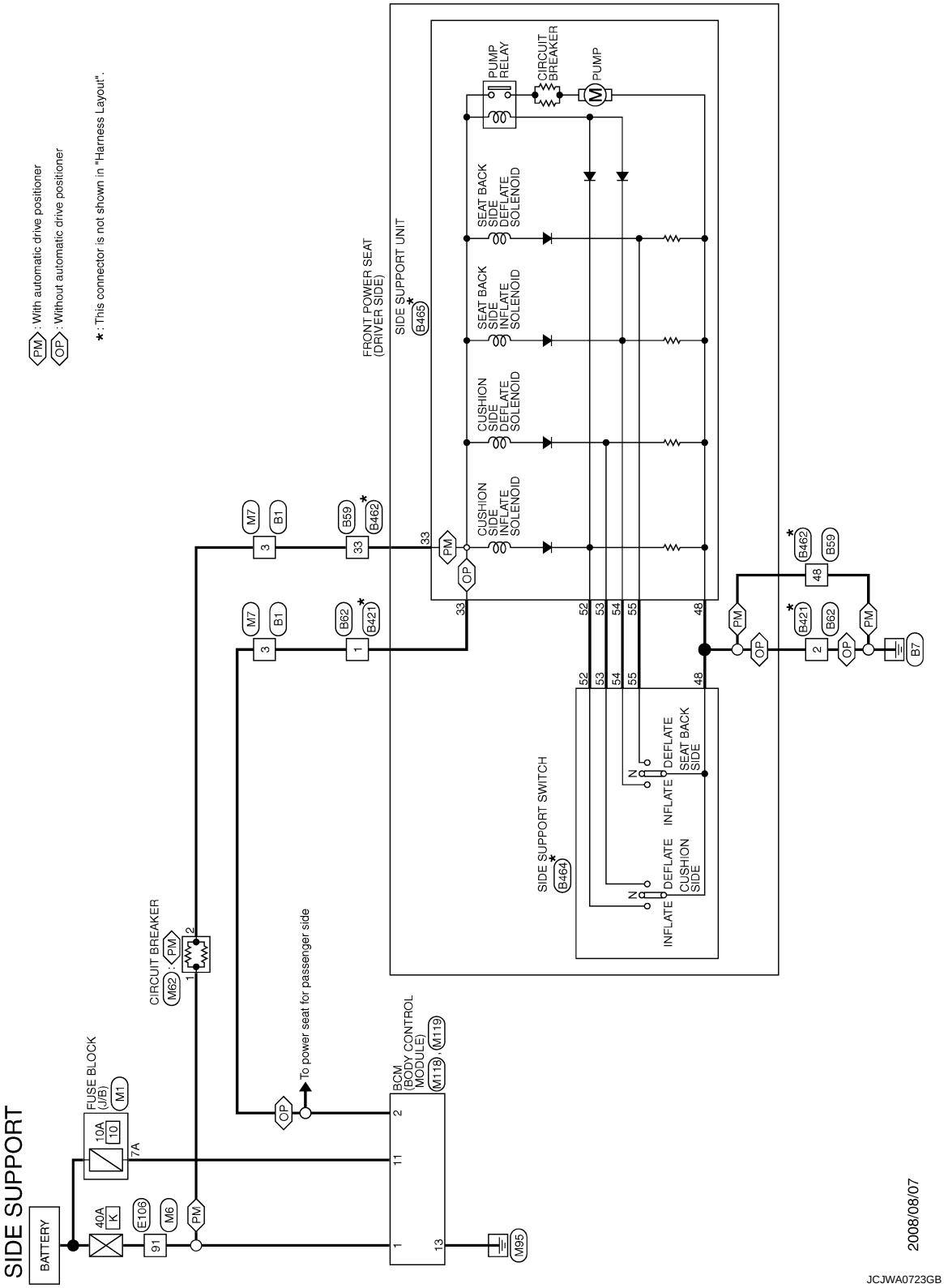
SIDE SUPPORT

Wiring Diagram - SIDE SUPPORT SYSTEM -

INFOID:0000000004240988



SIDE SUPPORT

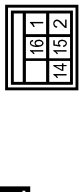
Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

Terminal No.	Color of Wire	Signal Name [Specification]
3	SB	– [With automatic drive positioner]
3	V	– [Without automatic drive positioner]

Connector No.	B59
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS

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

Connector No.	B62
Connector Name	WIRE TO WIRE
Connector Type	M06FW-LC



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

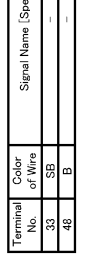
Connector No.	B421
Connector Name	WIRE TO WIRE
Connector Type	M06MW-LC

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

Connector No.	B462
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS

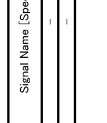
Terminal No.	Color of Wire	Signal Name [Specification]
33	R	–
48	B	–

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



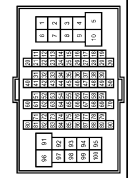
Terminal No.	Color of Wire	Signal Name [Specification]
48	B	–
52	G	– [With automatic drive positioner]
52	GR	– [Without automatic drive positioner]
53	B/R	– [With automatic drive positioner]
53	W/R	– [Without automatic drive positioner]
54	V/W	– [With automatic drive positioner]
54	BR	– [Without automatic drive positioner]
55	R/L	– [With automatic drive positioner]
55	LG	– [Without automatic drive positioner]

Connector No.	B465
Connector Name	SIDE SUPPORT UNIT
Connector Type	NS06FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
33	R	–
48	B	–
52	G	– [With automatic drive positioner]
52	GR	– [Without automatic drive positioner]
53	B/R	– [With automatic drive positioner]
53	W/R	– [Without automatic drive positioner]
54	V/W	– [With automatic drive positioner]
54	BR	– [Without automatic drive positioner]
55	R/L	– [With automatic drive positioner]
55	LG	– [Without automatic drive positioner]

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



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

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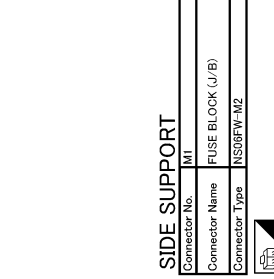
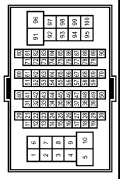
SIDE SUPPORT

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



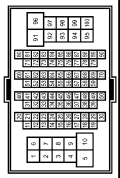
Terminal No.	Color of Wire	Signal Name [Specification]
7A	R	–

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



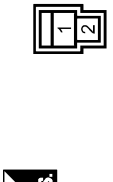
Terminal No.	Color of Wire	Signal Name [Specification]
91	W	–

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



Terminal No.	Color of Wire	Signal Name [Specification]
3	SB	– [With automatic drive positioner]
3	P	– [Without automatic drive positioner]

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



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

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

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

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

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

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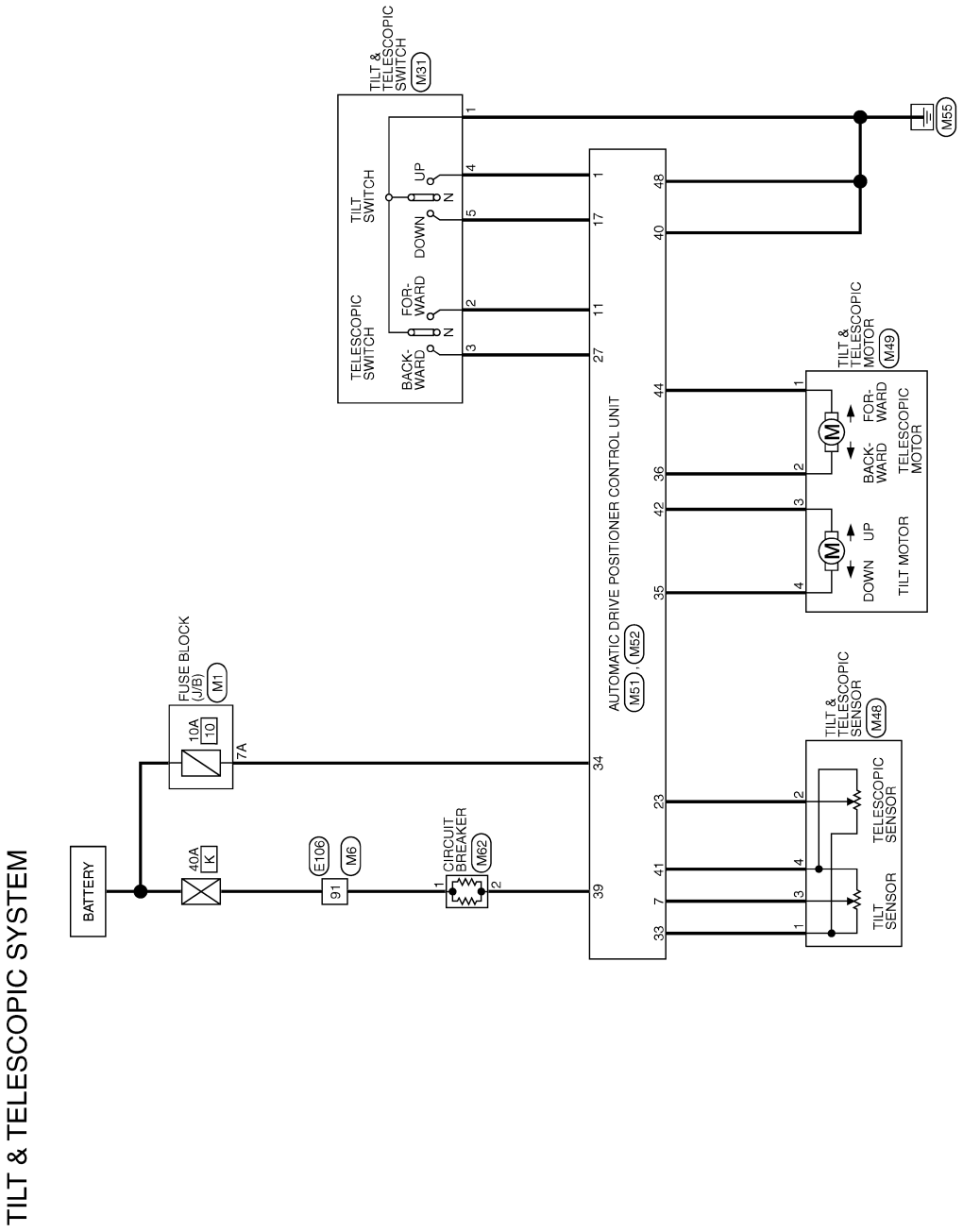
TILT & TELESCOPIC SYSTEM

Wiring Diagram - TILT&TELESCOPIC SYSTEM -

INFOID:0000000004684671

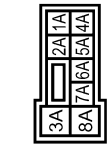


TILT & TELESCOPIC SYSTEM

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

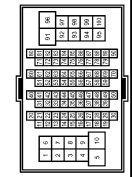
Terminal No.	Color of Wire	Signal Name [Specification]
91	W	–

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



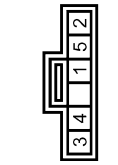
Terminal No.	Color of Wire	Signal Name [Specification]
7A	R	–

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



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

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



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	–
2	GR	–
3	G	–
4	Y	–
5	BR	–

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

Terminal No.	Color of Wire	Signal Name [Specification]
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 [Specification]
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 [Specification]
1	Y	TILT SW (UPWARD)
7	O	TILT SENSOR
11	GR	TELESCOPIC SW (FRONTWARD)
17	BR	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 [Specification]
33	W	POWER SUPPLY (SENSOR)
34	V	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)
42	O	TILT MOTOR (DOWNWARD)
44	G	TELESCOPIC MOTOR (BACKWARD)
48	B	GND(POWER)

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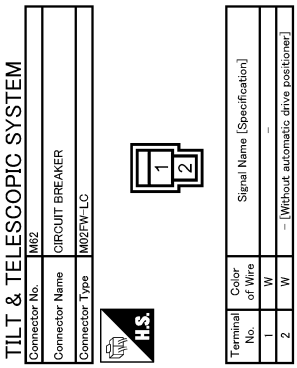

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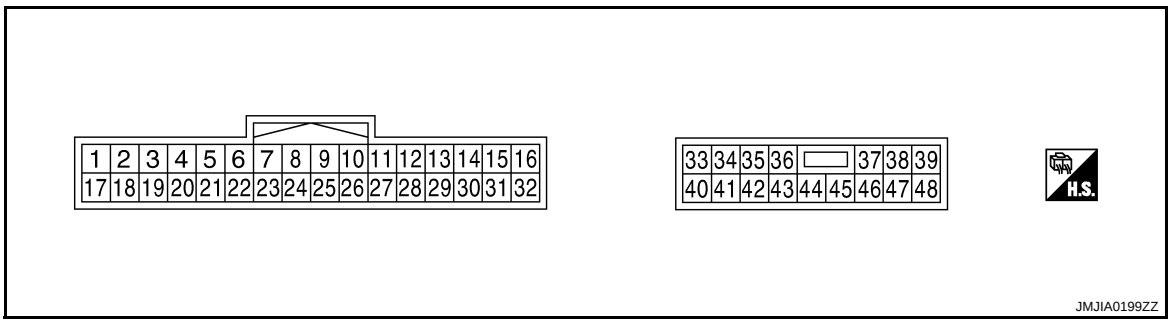
ECU DIAGNOSIS INFORMATION

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

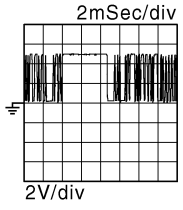
Reference Value

INFOID:0000000004730974

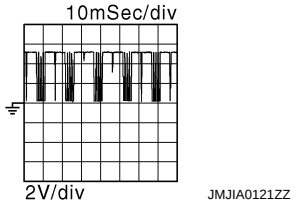
TERMINAL LAYOUT



PHYSICAL VALUES

Terminal No. (Wire color)		Description		Condition		Voltage (V) (Approx.)
+	–	Signal name	Input/ Output			
1 (Y)	Ground	Tilt switch upward signal	Input	Tilt switch	Operate (upward)	0
					Other than above	5
2 (LG)	Ground	Changeover switch RH signal	Input	Changeover switch position	RH	0
					Neutral or LH	5
3 (G)	Ground	Mirror switch upward signal	Input	Mirror switch	Operated (upward)	0
					Other than above	5
4 (V)	Ground	Mirror switch leftward signal	Input	Mirror switch	Operated (leftward)	0
					Other than above	5
5 (R)	Ground	Door mirror sensor (RH) upward/downward signal	Input	Mirror face (door mirror RH)		Change between 3.4 (close to peak) 0.6 (close to valley)
6 (GR)	Ground	Door mirror sensor (LH) upward/downward signal	Input	Mirror face (door mirror LH)		Change between 3.4 (close to peak) 0.6 (close to valley)
7 (O)	Ground	Tilt sensor signal	Input	Tilt position		Change between 1.2 (close to top) 3.8 (close to bottom)
9 (BR)	Ground	Memory switch 1 signal	Input	Memory switch 1	Press	0
					Other than above	5
10 (V)	Ground	UART communication (TX)	Output	Ignition switch ON		

Terminal No. (Wire color)		Description		Condition		Voltage (V) (Approx.)
+	–	Signal name	Input/ Output			
11 (GR)	Ground	Telescopic switch forward signal	Input	Telescopic switch	Operate (forward)	0
					Other than above	5
12 (O)	Ground	Memory indictor 1 signal	Output	Memory indictor 1	Illuminate	1
					Other than above	Battery voltage
13 (P)	Ground	Memory indictor 2 signal	Output	Memory indictor 2	Illuminate	1
					Other than above	Battery voltage
14 (W)	Ground	Door mirror motor (RH) upward output	Output	Door mirror RH	Operate (upward)	Battery voltage
					Other than above	0
15 (O)	Ground	Door mirror motor (RH) leftward output	Output	Door mirror RH	Operate (leftward)	Battery voltage
					Other than above	0
16 (Y)	Ground	Door mirror motor (LH) downward output	Output	Door mirror (LH)	Operate (down-ward)	Battery voltage
					Other than above	0
		Door mirror motor (LH) rightward output			Operate (rightward)	Battery voltage
					Other than above	0
17 (BR)	Ground	Tilt switch downward signal	Input	Tilt switch	Operate (down-ward)	0
					Other than above	5
18 (P)	Ground	Changeover switch LH signal	Input	Changeover switch position	LH	0
					Neutral or RH	5
19 (SB)	Ground	Mirror switch downward signal	Input	Mirror switch	Operate (down-ward)	0
					Other than above	5
20 (BR)	Ground	Mirror switch rightward signal	Input	Mirror switch	Operate (rightward)	0
					Other than above	5
21 (L)	Ground	Door mirror sensor (RH) leftward/rightward signal	Input	Door mirror RH position		Change between 3.4 (close to left edge) 0.6 (close to right edge)
22 (G)	Ground	Door mirror sensor (LH) leftward/rightward signal	Input	Door mirror LH position		Change between 0.6 (close to left edge) 3.4 (close to right edge)
23 (P)	Ground	Telescopic sensor signal	Input	Telescopic position		Change between 0.8 (close to top) 4.4 (close to bottom)

Terminal No. (Wire color)		Description		Condition		Voltage (V) (Approx.)
+	–	Signal name	Input/ Output			
24 (R)	Ground	Set switch signal	Input	Set switch	Press	0
					Other than above	5
25 (V)	Ground	Memory switch 2 signal	Input	Memory switch 2	Press	0
					Other than above	5
26 (P)	Ground	UART communication (RX)	Input	Ignition switch ON		
27 (G)	Ground	Telescopic switch backward signal	Input	Telescopic switch	Operate (backward)	0
					Other than above	5
30 (SB)	Ground	Door mirror motor (RH) downward output	Output	Door mirror (RH)	Operate (downward)	Battery voltage
					Other than above	0
		Door mirror motor (RH) rightward output			Operate (rightward)	Battery voltage
					Other than above	0
31 (G)	Ground	Door mirror motor (LH) upward output	Output	Door mirror (LH)	Operate (upward)	Battery voltage
					Other than above	0
32 (L)	Ground	Door mirror motor (LH) leftward output	Output	Door mirror (LH)	Operate (leftward)	Battery voltage
					Other than above	0
33 (W)	Ground	Sensor power supply	Input	—		5
34 (V)	Ground	Power source (Fuse)	Input	—		Battery voltage
35 (L)	Ground	Tilt motor upward output	Output	Steering tilt	Operate (upward)	Battery voltage
					Other than above	0
36 (GR)	Ground	Telescopic motor forward output signal	Output	Steering telescopic	Operate (forward)	Battery voltage
					Other than above	0
39 (W)	Ground	Power source (C/B)	Input	—		Battery voltage
40 (B)	Ground	Ground	—	—		0

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

Wiring Diagram - AUTOMATIC DRIVE POSITIONER CONTROL SYSTEM -

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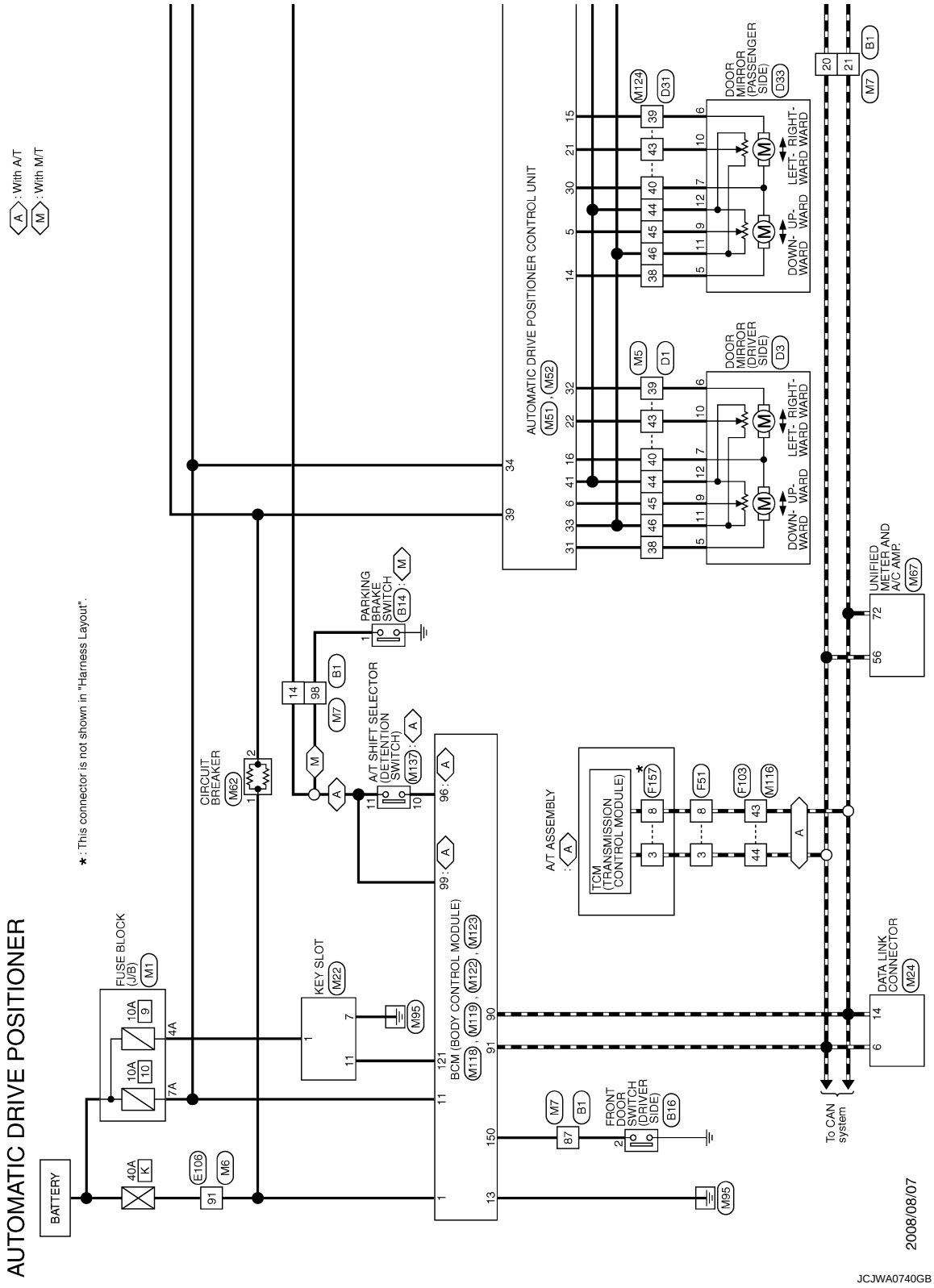
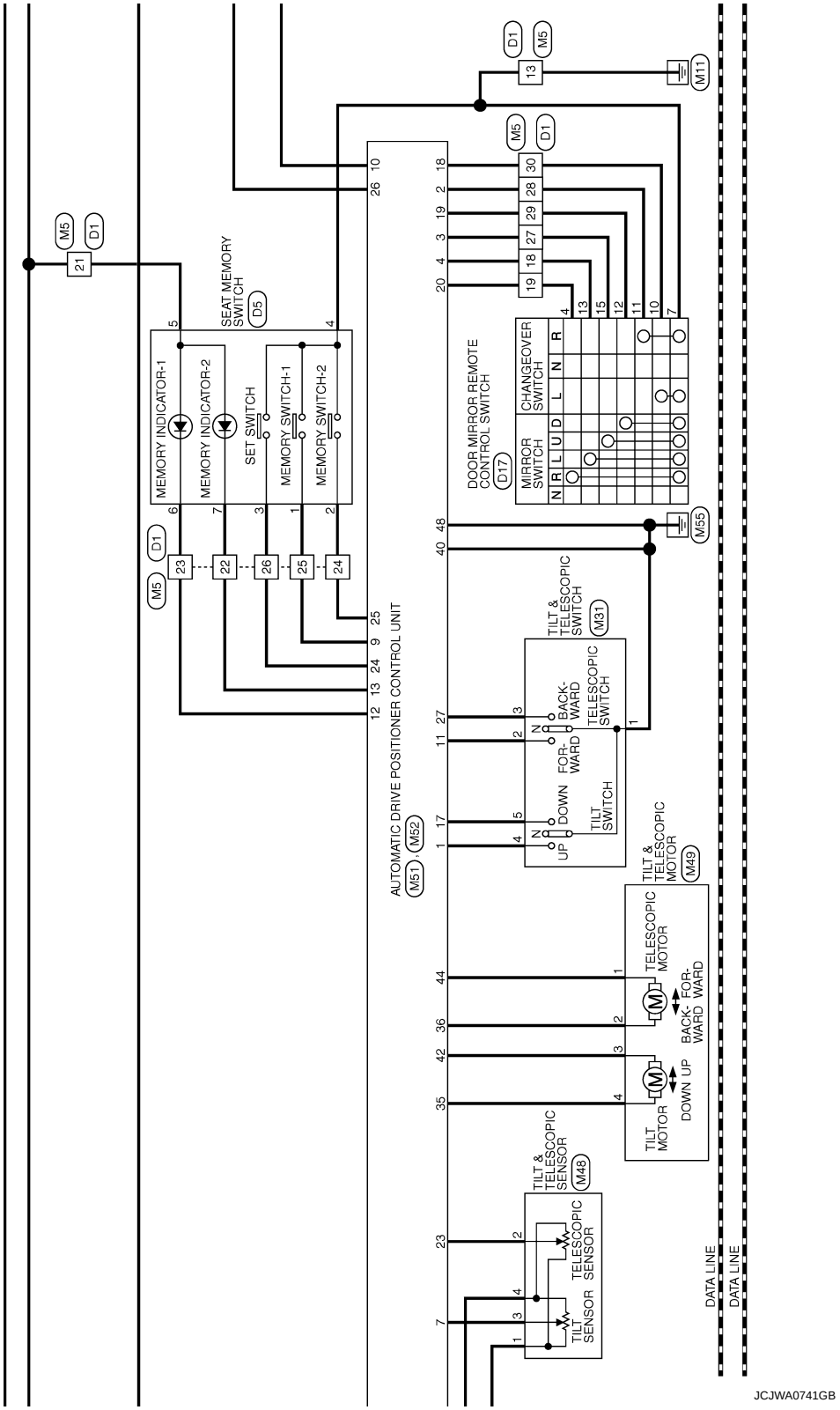
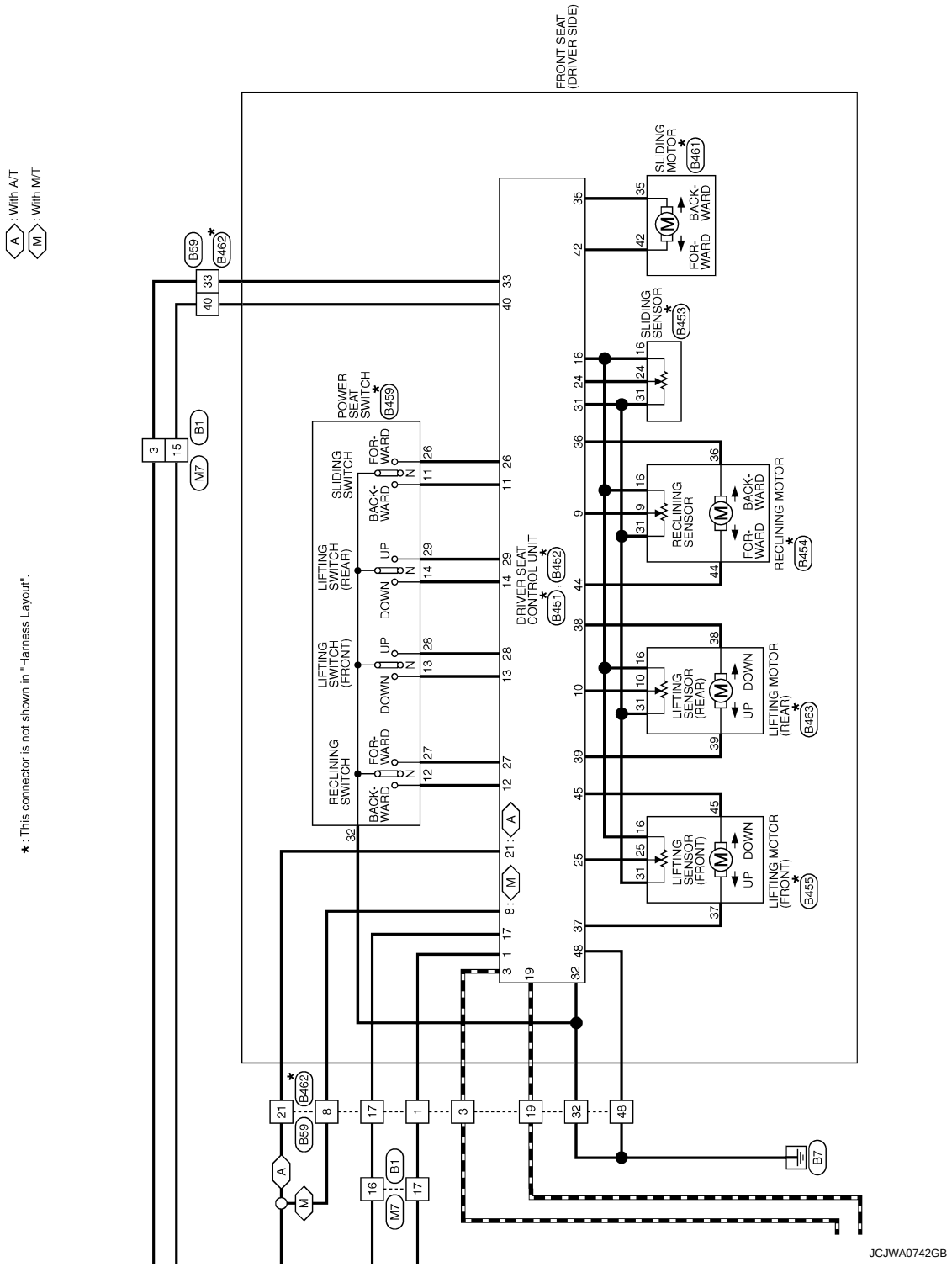



AUTOMATIC DRIVE POSITIONER CONTROL UNIT
SEAT MEMORY SWITCH
MEMORY INDICATOR-1
MEMORY INDICATOR-2
SET SWITCH
MEMORY SWITCH-1
MEMORY SWITCH-2
DOOR MIRROR REMOTE CONTROL SWITCH
MIRROR SWITCH
CHANGEOVER SWITCH
TILT & TELESCOPIC SWITCH
TILT SWITCH
TELESCOPIC SWITCH
TILT & TELESCOPIC MOTOR
TELESCOPIC MOTOR
TILT MOTOR
TILT & TELESCOPIC SENSOR
TILT SENSOR
TELESCOPIC SENSOR
DATA LINE
DATA LINE
JCJWA0741GB


A : With A/T
M : With M/T
*: This connector is not shown in "Harness Layout".
FRONT SEAT (DRIVER SIDE)
SLIDING MOTOR B461
SLIDING SENSOR B453
POWER SEAT SWITCH B459
SLIDING SWITCH
FOR-WARD
BACK-WARD
LIFTING SWITCH (REAR)
UP
DOWN
LIFTING SWITCH (FRONT)
RECLINING SWITCH
DRIVER SEAT CONTROL UNIT B451, B452
RECLINING SENSOR
RECLINING MOTOR B454
LIFTING SENSOR (REAR)
LIFTING MOTOR (REAR) B463
LIFTING SENSOR (FRONT)
LIFTING MOTOR (FRONT) B455
B59 B462
B1 M7
B7
JCJWA0742GB

AUTOMATIC DRIVE POSITIONER

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

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
3	SB	– [With automatic drive positioner]
14	Y	–
15	BR	–
16	LG	–
17	G	–
20	L	–
21	P	–
87	B	–
98	V	–

Connector No.	B14
Connector Name	PARKING BRAKE SWITCH (WITH M/T)
Connector Type	P01FB-A

H.S.

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

Connector No.	B16
Connector Name	FRONT DOOR SWITCH (DRIVER SIDE)
Connector Type	A03FW

H.S.

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

Connector No.	B59
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	G	–
3	L	–
8	Y	–
17	LG	–
19	P	–
21	Y	–
32	B	–
33	SB	–
40	BR	–
48	B	–

Connector No.	B451
Connector Name	DRIVER SEAT CONTROL UNIT
Connector Type	TH32FW

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	L/W	RX
2	R/Y	CAN-H
8	LG	PARKING BRAKE SW
9	W/G	PULSE (RECLINING)
10	P/B	PULSE (RR LIFTING)
11	BR	SLIDING SW (BACKWARD)
12	SB	RECLINING SW (BACKWARD)
13	LG/R	FRONT LIFTING SW (DOWNWARD)
14	G/B	REAR LIFTING SW (DOWNWARD)
16	O	VGC
17	Y/R	TX
19	V	CAN-L
21	L/Y	P RANGE SW
24	R	PULSE (SLIDING)
25	Y/B	PULSE (FR LIFTING)
26	Y	SLIDING SW (FORWARD)
27	R/G	RECLINING SW (FORWARD)
28	W/B	FRONT LIFTING SW (UPWARD)
29	P/L	REAR LIFTING SW (UPWARD)
31	GR	SENSOR GND
32	B/W	GND (SIGNAL)

Connector No.	B452
Connector Name	DRIVER SEAT CONTROL UNIT
Connector Type	NS16FW-CS

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
33	R	BAT (C/B)
35	W/R	SLIDING MOTOR(FORWARD)
36	G/Y	RECLINING MOTOR(FORWARD)
37	G/W	FRONT LIFTING MOTOR(DOWNWARD)
38	L/Y	REAR LIFTING MOTOR(UPWARD)
39	R/B	REAR LIFTING MOTOR(BACKWARD)
40	R/W	BAT(FUSE)
42	W/B	SLIDING MOTOR(BACKWARD)
44	P	RECLINING MOTOR(BACKWARD)
45	L/R	FRONT LIFTING MOTOR(UPWARD)
48	B	GND(POWER)

Connector No.	B453
Connector Name	SLIDING SENSOR
Connector Type	6098 0241

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
16	O	–
24	R	–
31	GR	–

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AUTOMATIC DRIVE POSITIONER

Connector No.	B454
Connector Name	RECLINING MOTOR (WITH AUTOMATIC DRIVE POSITIONER)
Connector Type	NS06FW-CS

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
9	W/G	–
16	O	–
31	GR	–
36	G/Y	–
44	P	–

Connector No.	B455
Connector Name	LIFTING MOTOR (FRONT) (DRIVER SIDE) (WITH AUTOMATIC DRIVE POSITIONER)
Connector Type	NS06FW-CS

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
16	O	–
25	Y/B	–
31	GR	–
37	G/W	–
45	L/R	–

Connector No.	B459
Connector Name	POWER SEAT SWITCH (DRIVER SIDE) (WITH AUTOMATIC DRIVE POSITIONER)
Connector Type	NS10FW-CS

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
11	BR	–
12	SB	–
13	LG/R	–
14	G/B	–
26	Y	–
27	R/G	–
28	W/B	–
29	P/L	–
32	B/W	–

Connector No.	B461
Connector Name	SLIDING MOTOR (DRIVER SIDE) (WITH AUTOMATIC DRIVE POSITIONER)
Connector Type	6098-0239

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
35	W/R	–
42	W/B	–

Connector No.	B462
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	L/W	–
3	R/Y	–
8	LG	–
17	Y/R	–
19	V	–
21	L/Y	–
32	B/W	–
33	R	–
40	R/W	–
48	B	–

Connector No.	B463
Connector Name	LIFTING MOTOR (REAR) (DRIVER SIDE) (WITH AUTOMATIC DRIVE POSITIONER)
Connector Type	NS06FBR-CS

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
10	P/B	–
16	O	–
31	GR	–
38	L/Y	–
39	R/B	–

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS15

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
13	B	–
18	W	–
19	BR	–
21	R	–
22	P	–
23	O	–
24	BR	–
25	L	–
26	GR	–
27	Y	–
28	LG	–
29	G	–
30	GR	–
38	O	–
39	GR	–
40	G	–
43	BR	–
44	V	–
45	P	–
46	W	–

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AUTOMATIC DRIVE POSITIONER

Connector No.	D3
Connector Name	DOOR MIRROR (DRIVER SIDE)
Connector Type	TH12MW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
5	O	– [With automatic drive positioner]
6	GR	– [With automatic drive positioner]
7	G	– [With automatic drive positioner]
9	P	–
10	BR	–
11	W	–
12	V	–

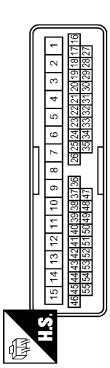
Connector No.	D5
Connector Name	SEAT MEMORY SWITCH
Connector Type	A08FW

Terminal No.	Color of Wire	Signal Name [Specification]
1	L	–
2	BR	–
3	GR	–
4	B	–
5	R	–
6	O	–
7	P	–

Connector No.	D17
Connector Name	DOOR MIRROR REMOTE CONTROL SWITCH (WITH AUTOMATIC DRIVE POSITIONER)
Connector Type	TK16FBR

Terminal No.	Color of Wire	Signal Name [Specification]
4	BR	–
7	B	–
10	GR	–
11	LG	–
12	G	–
13	W	–
15	Y	–

Connector No.	D31
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
38	W	– [With A/T]
38	O	– [With M/T]
39	G	– [With A/T]
39	GR	– [With M/T]
40	Y	– [With A/T]
40	G	– [With M/T]
43	BR	–
44	V	–
45	P	–
46	W	–

Connector No.	D33
Connector Name	DOOR MIRROR (PASSENGER SIDE)
Connector Type	TH12MW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
5	O	– [Except for with A/T and automatic drive positioner]
5	W	– [With A/T and automatic drive positioner]
6	GR	– [Except for with A/T and automatic drive positioner]
6	G	– [With A/T and automatic drive positioner]
7	G	– [Except for with A/T and automatic drive positioner]
7	Y	– [With A/T and automatic drive positioner]
9	P	–
10	BR	–
11	W	–
12	V	–

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

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

Connector No.	F51
Connector Name	A/T ASSEMBLY
Connector Type	RK10FG-DGY

Terminal No.	Color of Wire	Signal Name [Specification]
3	L	–
8	P	–

Connector No.	F103
Connector Name	WIRE TO WIRE
Connector Type	TK36FW-NS10

Terminal No.	Color of Wire	Signal Name [Specification]
43	P	–
44	L	–

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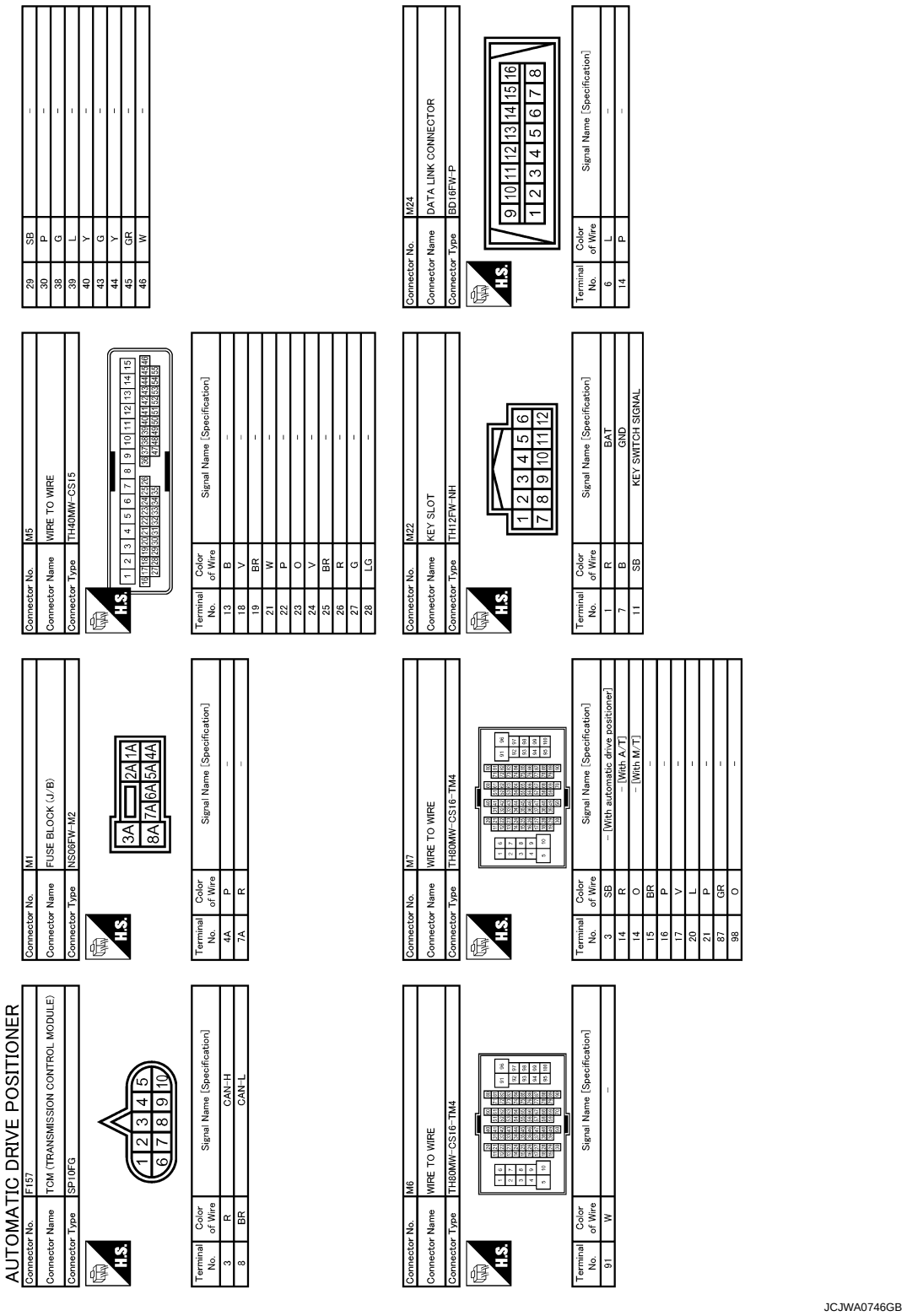
AUTOMATIC DRIVE POSITIONER
Connector No. F157
Connector Name TCM (TRANSMISSION CONTROL MODULE)
Connector Type SP10FG
H.S.
1 2 3 4 5
6 7 8 9 10
Terminal No. | Color of Wire | Signal Name [Specification]
3 | R | CAN-H
8 | BR | CAN-L
Connector No. M1
Connector Name FUSE BLOCK (J/B)
Connector Type NS06FW-M2
H.S.
3A 2A 1A
8A 7A 6A 5A 4A
Terminal No. | Color of Wire | Signal Name [Specification]
4A | P | –
7A | R | –
Connector No. M5
Connector Name WIRE TO WIRE
Connector Type TH40MW-CS15
H.S.
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
16 17 18 19 20 21 22 23 24 25 26
27 28 29 30 31 32 33 34 35
36 37 38 39 40 41 42 43 44 45 46 47 48
49 50 51 52 53 54 55
Terminal No. | Color of Wire | Signal Name [Specification]
13 | B | –
18 | V | –
19 | BR | –
21 | W | –
22 | P | –
23 | O | –
24 | V | –
25 | BR | –
26 | R | –
27 | G | –
28 | LG | –
29 | SB | –
30 | P | –
38 | G | –
39 | L | –
40 | Y | –
43 | G | –
44 | Y | –
45 | GR | –
46 | W | –
Connector No. M24
Connector Name DATA LINK CONNECTOR
Connector Type BD16FW-P
H.S.
9 10 11 12 13 14 15 16
1 2 3 4 5 6 7 8
Terminal No. | Color of Wire | Signal Name [Specification]
6 | L | –
14 | P | –
Connector No. M22
Connector Name KEY SLOT
Connector Type TH12FW-NH
H.S.
1 2 3 4 5 6
7 8 9 10 11 12
Terminal No. | Color of Wire | Signal Name [Specification]
1 | R | BAT
7 | B | GND
11 | SB | KEY SWITCH SIGNAL
Connector No. M7
Connector Name WIRE TO WIRE
Connector Type TH80MW-CS16-TM4
H.S.
Terminal No. | Color of Wire | Signal Name [Specification]
3 | SB | – [With automatic drive positioner]
14 | R | – [With A/T]
14 | O | – [With M/T]
15 | BR | –
16 | P | –
17 | V | –
20 | L | –
21 | P | –
87 | GR | –
98 | O | –
Connector No. M6
Connector Name WIRE TO WIRE
Connector Type TH80MW-CS16-TM4
H.S.
Terminal No. | Color of Wire | Signal Name [Specification]
91 | W | –
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AUTOMATIC DRIVE POSITIONER

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

Terminal No.	Color of Wire	Signal Name [Specification]
1	B	–
2	GR	–
3	G	–
4	Y	–
5	BR	–

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

Terminal No.	Color of Wire	Signal Name [Specification]
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 [Specification]
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 [Specification]
1	Y	TILT SW (UPWARD)
2	LG	MIRROR SELECT SW (RH)
3	G	MIRROR SW (UPWARD)
4	V	MIRROR SW (LEFTWARD)
5	R	MIRROR SENSOR (RH VERTICAL)
6	GR	MIRROR SENSOR (LH VERTICAL)
7	O	TILT SENSOR
9	BR	ADDRESS1
10	V	TX (UART)
11	GR	TELESCOPIC SW (FRONTWARD)
12	O	IND1
13	P	IND2
14	W	MIRROR MOTOR (RH VERTICAL)
15	O	MIRROR MOTOR (RH HORIZONTAL)
16	Y	MIRROR MOTOR (LH COMMON)
17	BR	TILT SW (DOWNWARD)
18	P	MIRROR SELECT SW (LH)
19	SB	MIRROR SW (DOWNWARD)
20	BR	MIRROR SW (RIGHTWARD)
21	L	MIRROR SENSOR (RH HORIZONTAL)
22	G	MIRROR SENSOR (LH HORIZONTAL)
23	P	TELESCOPIC SENSOR
24	R	SET SW
25	V	ADDRESS2
26	P	RX (UART)
27	G	TELESCOPIC SW (BACKWARD)
30	SB	MIRROR MOTOR (RH COMMON)
31	G	MIRROR MOTOR (LH VERTICAL)
32	L	MIRROR MOTOR (LH HORIZONTAL)

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

Terminal No.	Color of Wire	Signal Name [Specification]
33	W	POWER SUPPLY (SENSOR)
34	V	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)
42	O	TILT MOTOR (DOWNWARD)
44	G	TELESCOPIC MOTOR (BACKWARD)
48	B	GND(POWER)

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

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

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AUTOMATIC DRIVE POSITIONER

Connector No.	M67
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH32FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
56	L	CAN-H
72	P	CAN-L

Connector No.	M116
Connector Name	WIRE TO WIRE
Connector Type	TK36MW-NS10

Terminal No.	Color of Wire	Signal Name [Specification]
43	P	–
44	L	–

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

Terminal No.	Color of Wire	Signal Name [Specification]
1	W	BAT (F/L)

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

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

Connector No.	M122
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH

Terminal No.	Color of Wire	Signal Name [Specification]
90	P	CAN-L
91	L	CAN-H
96	GR	A/T SHIFT SELECTOR POWER SUPPLY
99	R	SHIFT P [With A/T]

Connector No.	M123
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FG-NH

Terminal No.	Color of Wire	Signal Name [Specification]
121	SB	KEY SLOT SW
150	GR	DRIVER DOOR SW

Connector No.	M124
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS15

Terminal No.	Color of Wire	Signal Name [Specification]
38	W	–
39	O	–
40	SB	–
43	L	–
44	Y	–
45	R	–
46	W	–

Connector No.	M137
Connector Name	A/T SHIFT SELECTOR
Connector Type	TH12FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
10	GR	–
11	R	–

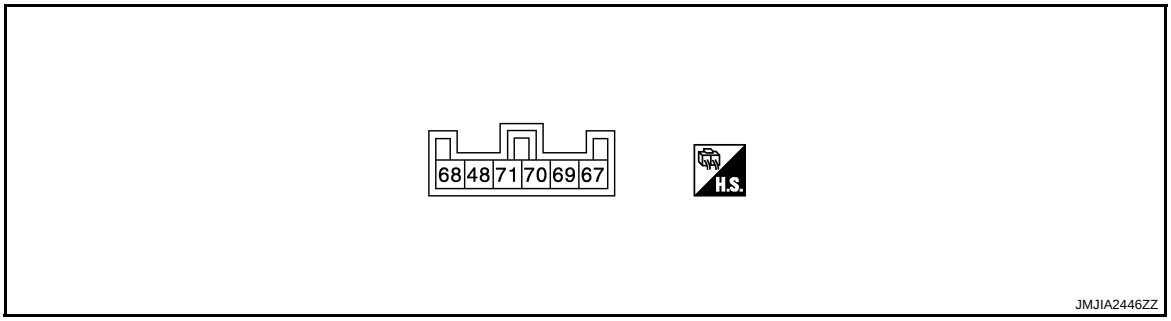
JCJWA0748GB

HEATED SEAT CONTROL UNIT
DRIVER SIDE

DRIVER SIDE : Reference Value

INFOID:0000000004535489

TERMINAL LAYOUT



PHYSICAL VALUES

Terminal No. (Wire color)		Description		Condition		Voltage (V) (Approx.)
(+)	(–)	Signal name	Input/ Output			
48 (B)	Ground	Ground	–	Ignition switch ON		0
67 (R)	Ground	IGN power supply	Input	Ignition switch	OFF or ACC	0
					ON	Battery voltage
68 (L)*1 (L/W)*2	Ground	Heated seat switch signal	Input	Heated seat switch	OFF	0
					1 (Min. temperature)	12.24
					2	12.33
					3	12.49
					4	12.63
					5	12.76
					6 (Max. temperature)	12.90
69 (BR/W)*1 (R/W)*2	Ground	Heated seat operation signal	Input	Heated seat	Operate	Battery voltage
					Other than above	0
70 (L/W)*1 (R/L)*2	Ground	Heater unit power supply	Output	Heated seat	Operate	0 – Battery voltage*
					Other than above	0
71 (R/B)	Ground	Heat sensor signal	Input	Heated seat switch	OFF	0
					1 (Min. temperature)	10.87 – 11.02*
					2	10.93 – 11.07*
					3	11.04 – 11.17*
					4	11.13 – 11.26*
					5	11.22 – 11.34*
					6 (Max. temperature)	11.31 – 11.43*

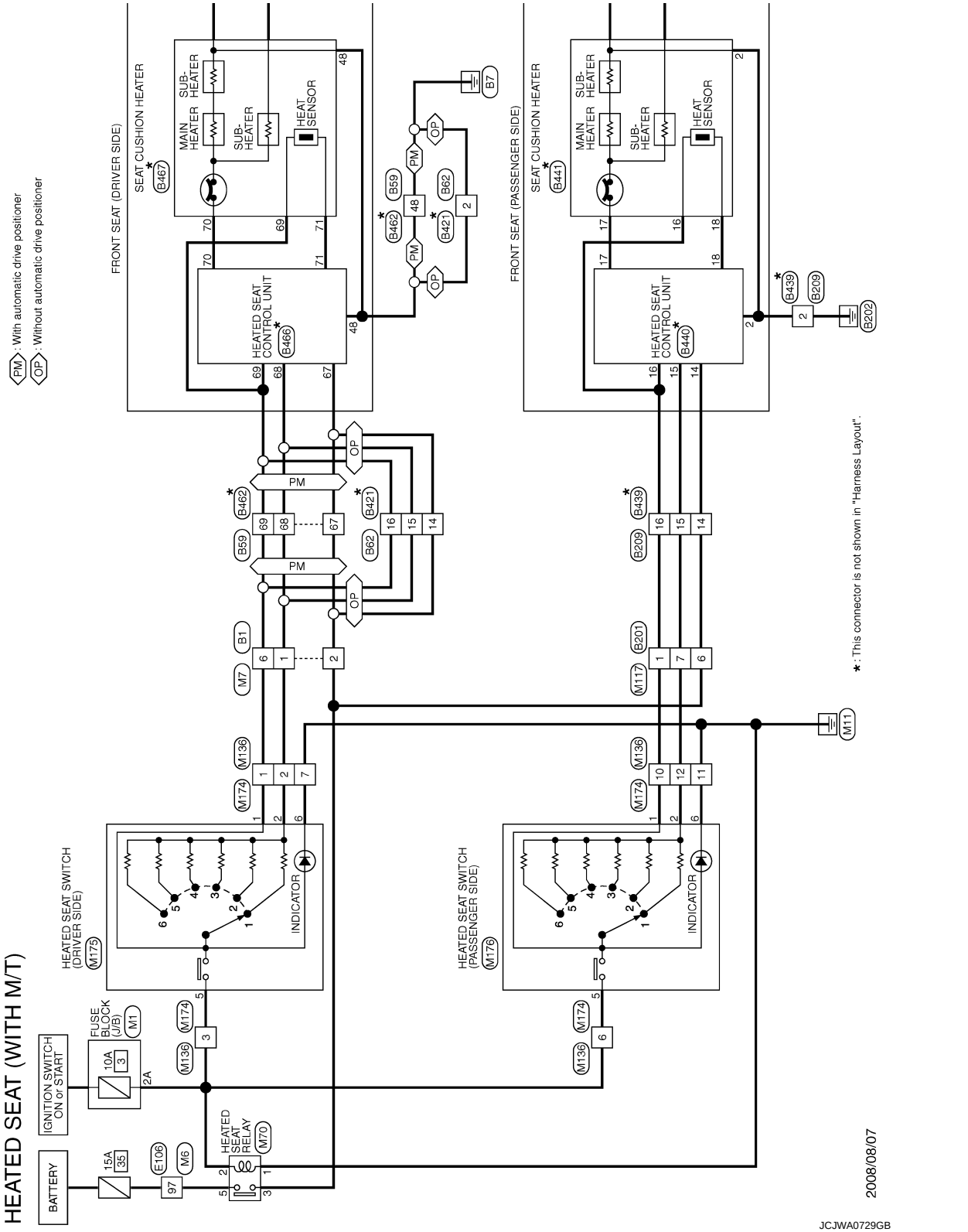
*: Voltage is repeated within the value shown as per the following list depending on heater unit temperature.

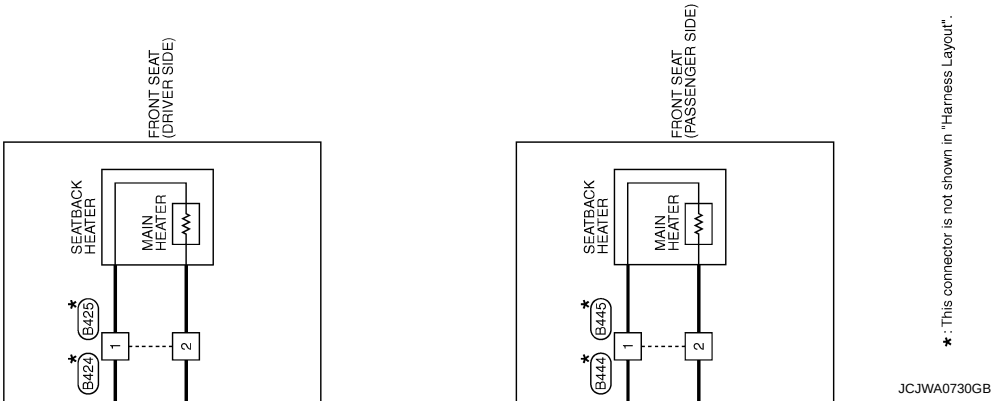
*1: With automatic drive positioner

*2: Without automatic drive positioner

DRIVER SIDE : Wiring Diagram - HEATED SEAT SYSTEM (WITH M/T) -

INFOID:0000000004535490




FRONT SEAT (DRIVER SIDE)
SEATBACK HEATER
MAIN HEATER
B425
B424
1
2
FRONT SEAT (PASSENGER SIDE)
SEATBACK HEATER
MAIN HEATER
B445
B444
1
2
*: This connector is not shown in "Harness Layout".
JCJWA0730GB

HEATED SEAT (WITH M/T)

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

Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	–
2	O	–
6	R	–

Connector No.	B59
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
48	B	–
67	O	–
68	GR	–
69	R	–

Connector No.	B62
Connector Name	WIRE TO WIRE
Connector Type	M06FW-LC

Terminal No.	Color of Wire	Signal Name [Specification]
2	B	–
14	O	–
15	GR	–
16	R	–

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

Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	–
6	L	–
7	V	–

Connector No.	B209
Connector Name	WIRE TO WIRE
Connector Type	M06FW-LC

Terminal No.	Color of Wire	Signal Name [Specification]
2	B	–
14	L	–
15	V	–
16	BR	–

Connector No.	B421
Connector Name	WIRE TO WIRE
Connector Type	M06MW-LC

Terminal No.	Color of Wire	Signal Name [Specification]
2	B	–
14	R	–
15	L/W	–
16	R/W	–

Connector No.	B424
Connector Name	WIRE TO WIRE
Connector Type	M02FW-LC

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

Connector No.	B425
Connector Name	WIRE TO WIRE
Connector Type	M02MW-LC

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

JCJWA0731GB

HEATED SEAT (WITH M/T)

Connector No.	B439
Connector Name	WIRE TO WIRE
Connector Type	M06MW-LC

Terminal No.	Color of Wire	Signal Name [Specification]
2	B	–
14	R	–
15	L/W	–
16	R/W	–

Connector No.	B440
Connector Name	HEATED SEAT CONTROL UNIT (PASSENGER SIDE)
Connector Type	AMP 174923-1

Terminal No.	Color of Wire	Signal Name [Specification]
2	B	GND
14	R	HEATER (+)
15	L/W	HEATER SW
16	R/W	THERMISTOR INPUT
17	R/L	HEATER (+)
18	R/B	THERMISTOR OUTPUT

Connector No.	B441
Connector Name	SEAT CUSHION HEATER (PASSENGER SIDE)
Connector Type	S04FW

Terminal No.	Color of Wire	Signal Name [Specification]
2	B	–
16	R/W	–
17	R/L	–
18	R/B	–

Connector No.	B444
Connector Name	WIRE TO WIRE
Connector Type	M02FW-LC

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

Connector No.	B445
Connector Name	WIRE TO WIRE
Connector Type	M02MW-LC

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

Connector No.	B462
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
48	B	–
67	R	–
68	L	–
69	BR/W	–

Connector No.	B466
Connector Name	HEATED SEAT CONTROL UNIT (DRIVER SIDE)
Connector Type	AMP 174923-1

Terminal No.	Color of Wire	Signal Name [Specification]
48	B	GND
67	R	HEATER (+)
68	L	HEATER SW [With automatic drive positioner]
68	L/W	HEATER SW [Without automatic drive positioner]
69	BR/W	THERMISTOR INPUT [With automatic drive positioner]
69	R/W	THERMISTOR INPUT [Without automatic drive positioner]
70	L/W	HEATER (+) [With automatic drive positioner]
70	R/L	HEATER (+) [Without automatic drive positioner]
71	R/B	THERMISTOR OUTPUT

Connector No.	B467
Connector Name	SEAT CUSHION HEATER (DRIVER SIDE)
Connector Type	S04FW

Terminal No.	Color of Wire	Signal Name [Specification]
48	B	–
69	BR/W	– [With automatic drive positioner]
69	R/W	– [Without automatic drive positioner]
70	L/W	– [With automatic drive positioner]
70	R/L	– [Without automatic drive positioner]
71	R/B	–

JCJWA0732GB

HEATED SEAT (WITH M/T)

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

Terminal No.	Color of Wire	Signal Name [Specification]
97	Y	–

Connector No.	M70
Connector Name	HEATED SEAT RELAY
Connector Type	MS02FL-MZ-LC

Terminal No.	Color of Wire	Signal Name [Specification]
		– [With M/T]
1	B	–
2	G	–
3	G	–
5	L	–

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

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

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

Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	–
6	G	–
7	SB	–

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

Terminal No.	Color of Wire	Signal Name [Specification]
97	L	–

Connector No.	M136
Connector Name	WIRE TO WIRE
Connector Type	TH12FW-NH

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

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

Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	–
2	G	–
6	L	–

Connector No.	M174
Connector Name	WIRE TO WIRE
Connector Type	TH12MW-NH

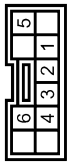
Terminal No.	Color of Wire	Signal Name [Specification]
1	L	–
2	GR	–
3	W	–
6	W	–
7	B	–
10	GR	–
11	GR	–
12	SB	–

JCJWA0733GB

HEATED SEAT (WITH M/T)

Connector No.	M175
Connector Name	HEATED SEAT SWITCH (DRIVER SIDE) (WITH M/T)
Connector Type	TK10FW

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	–
2	GR	–
5	W	–
6	B	–

Connector No.	M176
Connector Name	HEATED SEAT SWITCH (PASSENGER SIDE) (WITH M/T)
Connector Type	TK08FBR

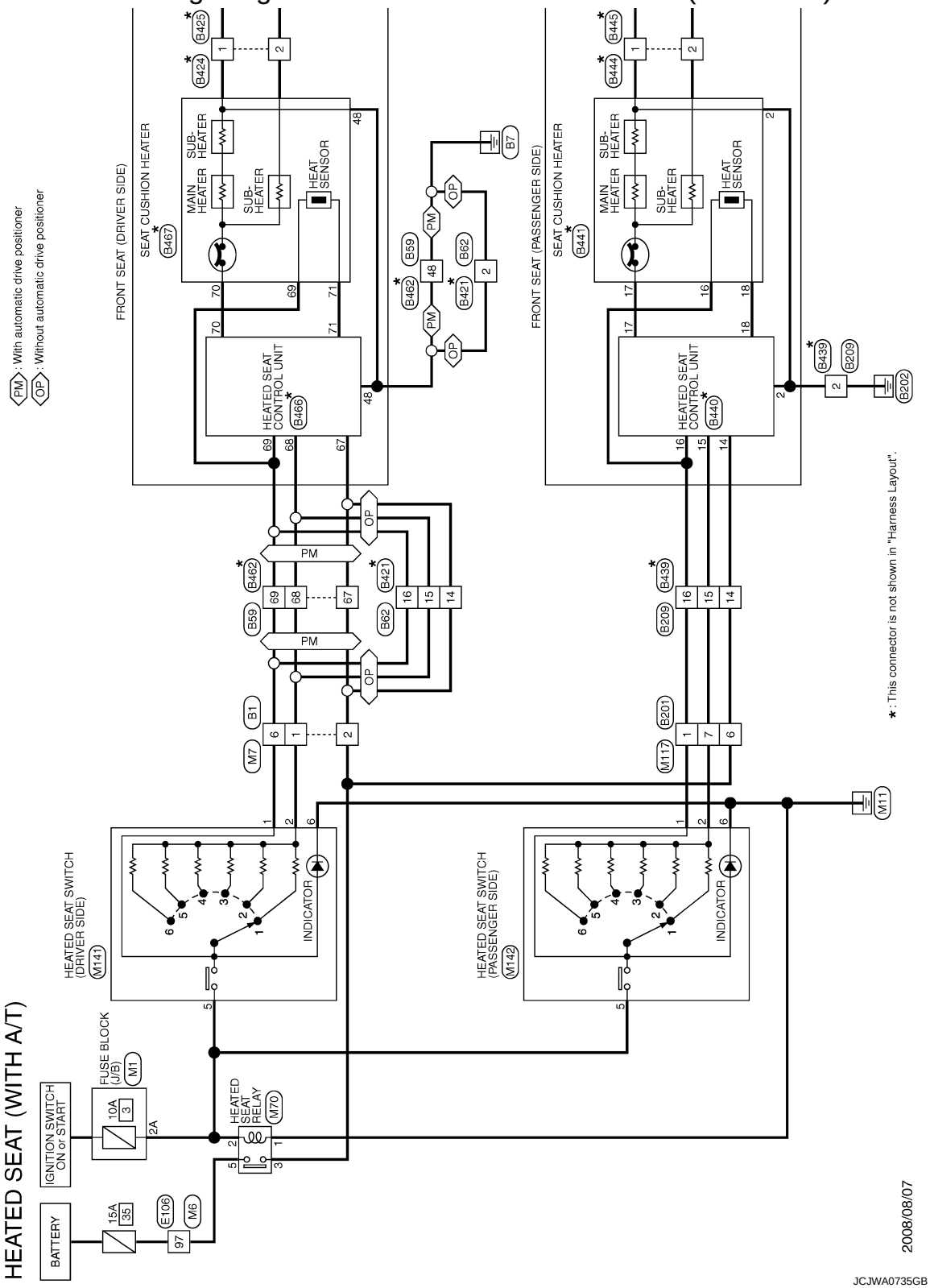
H.S.

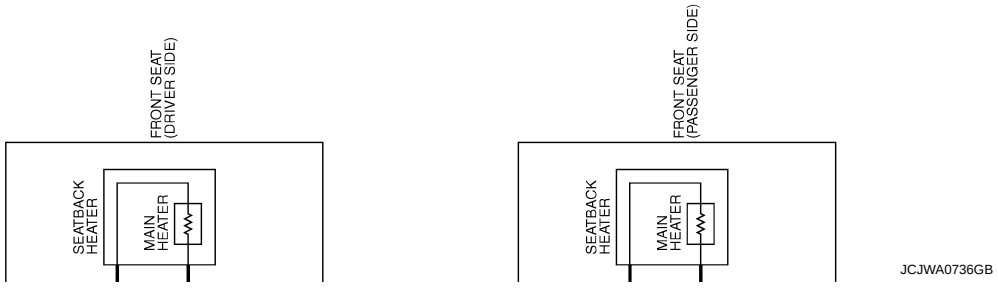
Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	–
2	SB	–
5	W	–
6	GR	–

JCJWA0734GB

DRIVER SIDE : Wiring Diagram - HEATED SEAT SYSTEM (WITH A/T) -

INFOID:0000000004535491




FRONT SEAT (DRIVER SIDE)
SEATBACK HEATER
MAIN HEATER
FRONT SEAT (PASSENGER SIDE)
SEATBACK HEATER
MAIN HEATER
JCJWA0736GB

HEATED SEAT (WITH A/T)

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

Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	–
2	O	–
6	R	–

Connector No.	B59
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
48	B	–
67	O	–
68	GR	–
69	R	–

Connector No.	B62
Connector Name	WIRE TO WIRE
Connector Type	M06FW-LC

Terminal No.	Color of Wire	Signal Name [Specification]
2	B	–
14	O	–
15	GR	–
16	R	–

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

Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	–
6	L	–
7	V	–

Connector No.	B209
Connector Name	WIRE TO WIRE
Connector Type	M06FW-LC

Terminal No.	Color of Wire	Signal Name [Specification]
2	B	–
14	L	–
15	V	–
16	BR	–

Connector No.	B421
Connector Name	WIRE TO WIRE
Connector Type	M06MW-LC

Terminal No.	Color of Wire	Signal Name [Specification]
2	B	–
14	R	–
15	L/W	–
16	R/W	–

Connector No.	B424
Connector Name	WIRE TO WIRE
Connector Type	M02FW-LC

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

Connector No.	B425
Connector Name	WIRE TO WIRE
Connector Type	M02MW-LC

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

JCJWA0737GB

HEATED SEAT (WITH A/T)

Connector No.	B439
Connector Name	WIRE TO WIRE
Connector Type	M06MW-LC

Terminal No.	Color of Wire	Signal Name [Specification]
2	B	–
14	R	–
15	L/W	–
16	R/W	–

Connector No.	B440
Connector Name	HEATED SEAT CONTROL UNIT (PASSENGER SIDE)
Connector Type	AMP 174923-1

Terminal No.	Color of Wire	Signal Name [Specification]
2	B	GND
14	R	HEATER (+)
15	L/W	HEATER SW
16	R/W	THERMISTOR INPUT
17	R/L	HEATER (+)
18	R/B	THERMISTOR OUTPUT

Connector No.	B441
Connector Name	SEAT CUSHION HEATER (PASSENGER SIDE)
Connector Type	S04FW

Terminal No.	Color of Wire	Signal Name [Specification]
2	B	–
16	R/W	–
17	R/L	–
18	R/B	–

Connector No.	B444
Connector Name	WIRE TO WIRE
Connector Type	M02FW-LC

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

Connector No.	B445
Connector Name	WIRE TO WIRE
Connector Type	M02MW-LC

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

Connector No.	B462
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
48	B	–
67	R	–
68	L	–
69	BR/W	–

Connector No.	B466
Connector Name	HEATED SEAT CONTROL UNIT (DRIVER SIDE)
Connector Type	AMP 174923-1

Terminal No.	Color of Wire	Signal Name [Specification]
48	B	GND
67	R	HEATER (+)
68	L	HEATER SW [With automatic drive positioner]
68	L/W	HEATER SW [Without automatic drive positioner]
69	BR/W	THERMISTOR INPUT [With automatic drive positioner]
69	R/W	THERMISTOR INPUT [Without automatic drive positioner]
70	L/W	HEATER (+) [With automatic drive positioner]
70	R/L	HEATER (+) [Without automatic drive positioner]
71	R/B	THERMISTOR OUTPUT

Connector No.	B467
Connector Name	SEAT CUSHION HEATER (DRIVER SIDE)
Connector Type	S04FW

Terminal No.	Color of Wire	Signal Name [Specification]
48	B	–
69	BR/W	– [With automatic drive positioner]
69	R/W	– [Without automatic drive positioner]
70	L/W	– [With automatic drive positioner]
70	R/L	– [Without automatic drive positioner]
71	R/B	–

JCJWA0738GB

HEATED SEAT (WITH A/T)

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

Terminal No.	Color of Wire	Signal Name [Specification]
97	Y	–

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

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

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

Terminal No.	Color of Wire	Signal Name [Specification]
97	L	–

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

Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	–
2	G	–
6	L	–

Connector No.	M70
Connector Name	HEATED SEAT RELAY
Connector Type	MS02FL-MZ-LC

Terminal No.	Color of Wire	Signal Name [Specification]
		[With A/T]
1	G	–
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 [Specification]
1	GR	–
6	G	–
7	SB	–

Connector No.	M141
Connector Name	HEATED SEAT SWITCH (DRIVER SIDE) (WITH A/T)
Connector Type	TK10FW

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

Connector No.	M142
Connector Name	HEATED SEAT SWITCH (PASSENGER SIDE) (WITH A/T)
Connector Type	TK08FBR

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

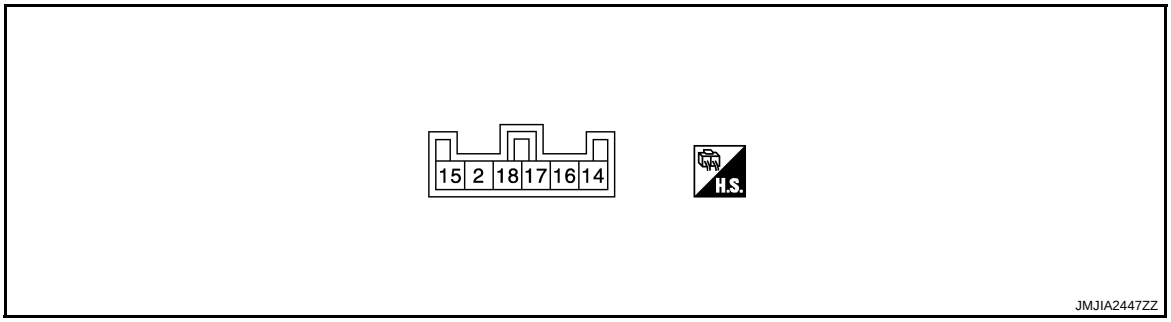
JCJWA0739GB

PASSENGER SIDE

PASSENGER SIDE : Reference Value

INFOID:0000000004535494

TERMINAL LAYOUT



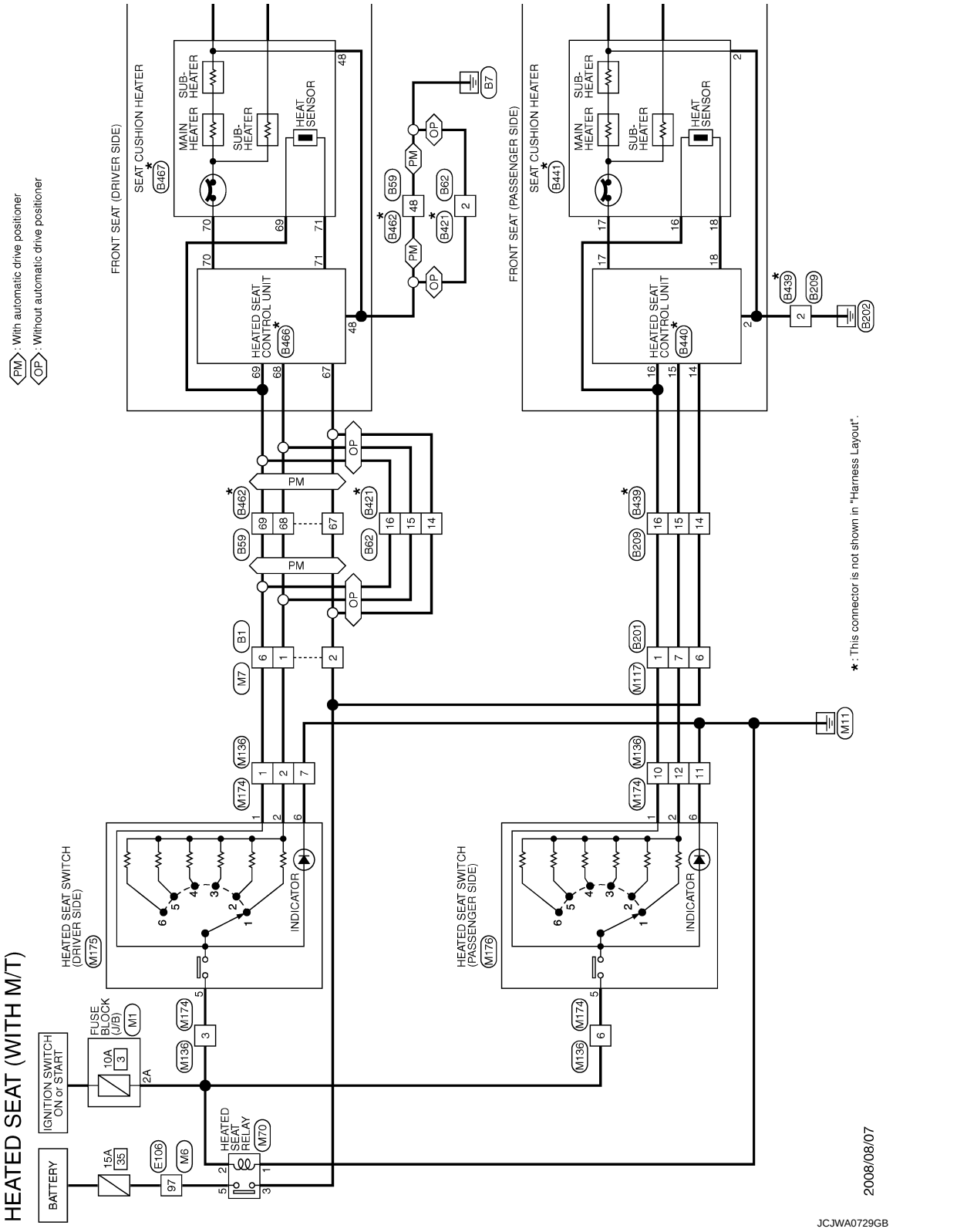
PHYSICAL VALUES

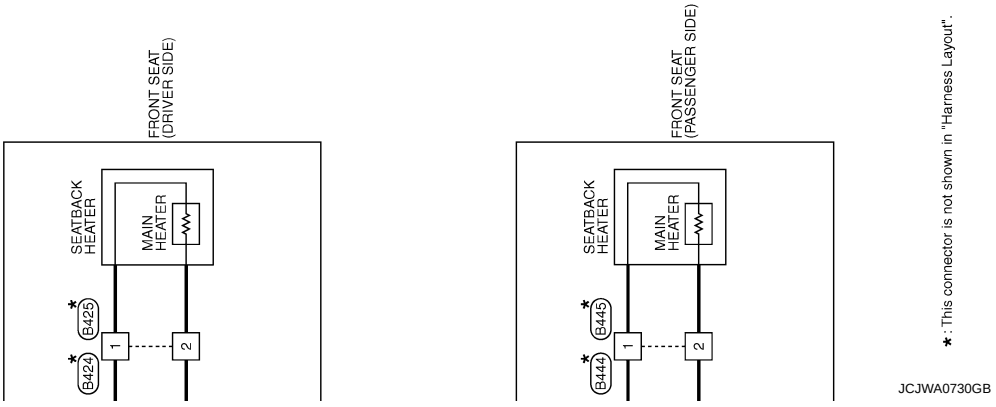
Terminal No. (Wire color)		Description		Condition		Voltage (V) (Approx.)
(+)	(–)	Signal name	Input/ Output			
2 (B)	Ground	Ground	–	Ignition switch ON		0
14 (R)	Ground	IGN power supply	Input	Ignition switch	OFF or ACC	0
					ON	Battery voltage
15 (L/W)	Ground	Heated seat switch signal	Input	Heated seat switch	OFF	0
					1 (Min. temperature)	12.24
					2	12.33
					3	12.49
					4	12.63
					5	12.76
					6 (Max. temperature)	12.90
16 (R/W)	Ground	Heated seat operation signal	Input	Heated seat	Operate	Battery voltage
					Other than above	0
17 (R/L)	Ground	Heater unit power supply	Output	Heated seat	Operate	0 – Battery voltage*
					Other than above	0
18 (R/B)	Ground	Heat sensor signal	Input	Heated seat switch	OFF	0
					1 (Min. temperature)	10.87 – 11.02*
					2	10.93 – 11.07*
					3	11.04 – 11.17*
					4	11.13 – 11.26*
					5	11.22 – 11.34*
					6 (Max. temperature)	11.31 – 11.43*

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

PASSENGER SIDE : Wiring Diagram - HEATED SEAT SYSTEM (WITH M/T) -

INFOID:0000000004684697




FRONT SEAT (DRIVER SIDE)
SEATBACK HEATER
MAIN HEATER
B425
B424
1
2
FRONT SEAT (PASSENGER SIDE)
SEATBACK HEATER
MAIN HEATER
B445
B444
1
2
*: This connector is not shown in "Harness Layout".
JCJWA0730GB

HEATED SEAT (WITH M/T)

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

Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	–
2	O	–
6	R	–

Connector No.	B59
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
48	B	–
67	O	–
68	GR	–
69	R	–

Connector No.	B62
Connector Name	WIRE TO WIRE
Connector Type	M06FW-LC

Terminal No.	Color of Wire	Signal Name [Specification]
2	B	–
14	O	–
15	GR	–
16	R	–

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

Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	–
6	L	–
7	V	–

Connector No.	B209
Connector Name	WIRE TO WIRE
Connector Type	M06FW-LC

Terminal No.	Color of Wire	Signal Name [Specification]
2	B	–
14	L	–
15	V	–
16	BR	–

Connector No.	B421
Connector Name	WIRE TO WIRE
Connector Type	M06MW-LC

Terminal No.	Color of Wire	Signal Name [Specification]
2	B	–
14	R	–
15	L/W	–
16	R/W	–

Connector No.	B424
Connector Name	WIRE TO WIRE
Connector Type	M02FW-LC

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

Connector No.	B425
Connector Name	WIRE TO WIRE
Connector Type	M02MW-LC

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

JCJWA0731GB

HEATED SEAT (WITH M/T)

Connector No.	B439
Connector Name	WIRE TO WIRE
Connector Type	M06MW-LC

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

Connector No.	B440
Connector Name	HEATED SEAT CONTROL UNIT (PASSENGER SIDE)
Connector Type	AMP 174923-1

Terminal No.	Color of Wire	Signal Name [Specification]
2	B	GND
14	R	HEATER (+)
15	L/W	HEATER SW
16	R/W	THERMISTOR INPUT
17	R/L	HEATER (+)
18	R/B	THERMISTOR OUTPUT

Connector No.	B441
Connector Name	SEAT CUSHION HEATER (PASSENGER SIDE)
Connector Type	S04FW

Terminal No.	Color of Wire	Signal Name [Specification]
2	B	–
16	R/W	–
17	R/L	–
18	R/B	–

Connector No.	B444
Connector Name	WIRE TO WIRE
Connector Type	M02FW-LC

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

Connector No.	B445
Connector Name	WIRE TO WIRE
Connector Type	M02MW-LC

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

Connector No.	B462
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
48	B	–
67	R	–
68	L	–
69	BR/W	–

Connector No.	B466
Connector Name	HEATED SEAT CONTROL UNIT (DRIVER SIDE)
Connector Type	AMP 174923-1

Terminal No.	Color of Wire	Signal Name [Specification]
48	B	GND
67	R	HEATER (+)
68	L	HEATER SW [With automatic drive positioner]
68	L/W	HEATER SW [Without automatic drive positioner]
69	BR/W	THERMISTOR INPUT [With automatic drive positioner]
69	R/W	THERMISTOR INPUT [Without automatic drive positioner]
70	L/W	HEATER (+) [With automatic drive positioner]
70	R/L	HEATER (+) [Without automatic drive positioner]
71	R/B	THERMISTOR OUTPUT

Connector No.	B467
Connector Name	SEAT CUSHION HEATER (DRIVER SIDE)
Connector Type	S04FW

Terminal No.	Color of Wire	Signal Name [Specification]
48	B	–
69	BR/W	– [With automatic drive positioner]
69	R/W	– [Without automatic drive positioner]
70	L/W	– [With automatic drive positioner]
70	R/L	– [Without automatic drive positioner]
71	R/B	–

JCJWA0732GB

HEATED SEAT (WITH M/T)

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

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
97	Y	–

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

H.S.

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

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

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
97	L	–

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

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	–
2	G	–
6	L	–

Connector No.	M70
Connector Name	HEATED SEAT RELAY
Connector Type	MS02FL-MZ-LC

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	B	– [With M/T]
2	G	–
3	G	–
5	L	–

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

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	–
6	G	–
7	SB	–

Connector No.	M136
Connector Name	WIRE TO WIRE
Connector Type	TH12FW-NH

H.S.

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

Connector No.	M174
Connector Name	WIRE TO WIRE
Connector Type	TH12MW-NH

H.S.

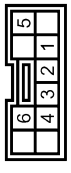
Terminal No.	Color of Wire	Signal Name [Specification]
1	L	–
2	GR	–
3	W	–
6	W	–
7	B	–
10	GR	–
11	GR	–
12	SB	–

JCJWA0733GB

HEATED SEAT (WITH M/T)

Connector No.	M175
Connector Name	HEATED SEAT SWITCH (DRIVER SIDE) (WITH M/T)
Connector Type	TK10FW

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	–
2	GR	–
5	W	–
6	B	–

Connector No.	M176
Connector Name	HEATED SEAT SWITCH (PASSENGER SIDE) (WITH M/T)
Connector Type	TK08FBR

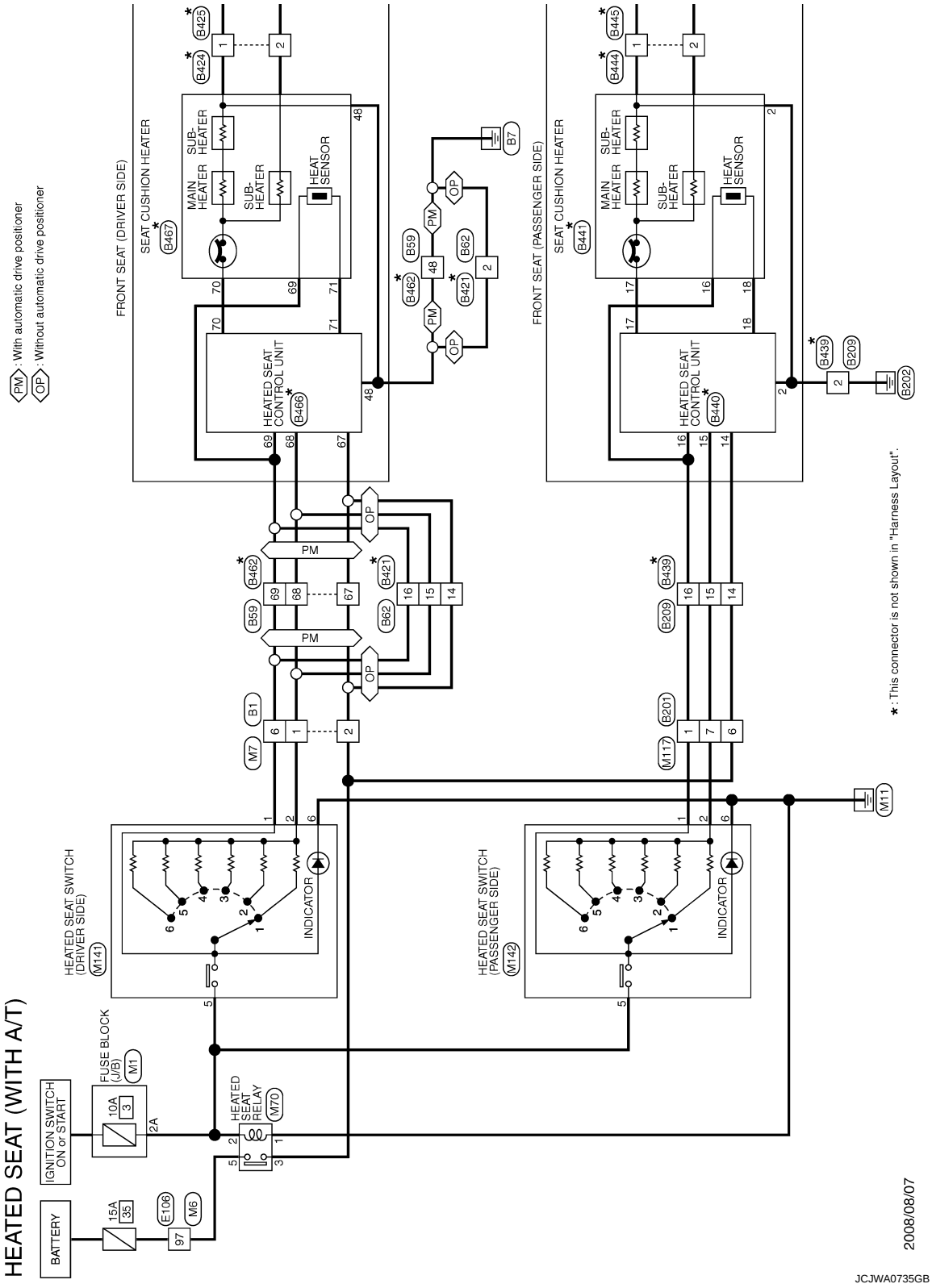
H.S.

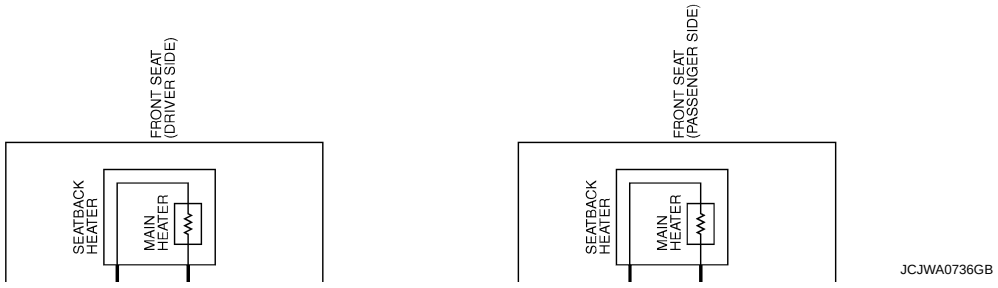
Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	–
2	SB	–
5	W	–
6	GR	–

JCJWA0734GB

PASSENGER SIDE : Wiring Diagram - HEATED SEAT SYSTEM (WITH A/T) -

INFOID:0000000004684698




FRONT SEAT (DRIVER SIDE)
SEATBACK HEATER
MAIN HEATER
FRONT SEAT (PASSENGER SIDE)
SEATBACK HEATER
MAIN HEATER
JCJWA0736GB

HEATED SEAT (WITH A/T)

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

Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	–
2	O	–
6	R	–

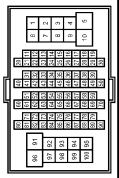
Connector No.	B59
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
48	B	–
67	O	–
68	GR	–
69	R	–

Connector No.	B62
Connector Name	WIRE TO WIRE
Connector Type	M06FW-LC

Terminal No.	Color of Wire	Signal Name [Specification]
2	B	–
14	O	–
15	GR	–
16	R	–

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



Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	–
6	L	–
7	V	–

Connector No.	B209
Connector Name	WIRE TO WIRE
Connector Type	M06FW-LC

Terminal No.	Color of Wire	Signal Name [Specification]
2	B	–
14	L	–
15	V	–
16	BR	–

Connector No.	B421
Connector Name	WIRE TO WIRE
Connector Type	M06MW-LC

Terminal No.	Color of Wire	Signal Name [Specification]
2	B	–
14	R	–
15	L/W	–
16	R/W	–

Connector No.	B424
Connector Name	WIRE TO WIRE
Connector Type	M02FW-LC

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

Connector No.	B425
Connector Name	WIRE TO WIRE
Connector Type	M02MW-LC

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

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HEATED SEAT (WITH A/T)

Connector No.	B439
Connector Name	WIRE TO WIRE
Connector Type	M06MW-LC

Terminal No.	Color of Wire	Signal Name [Specification]
2	B	–
14	R	–
15	L/W	–
16	R/W	–

Connector No.	B440
Connector Name	HEATED SEAT CONTROL UNIT (PASSENGER SIDE)
Connector Type	AMP 174923-1

Terminal No.	Color of Wire	Signal Name [Specification]
2	B	GND
14	R	HEATER (+)
15	L/W	HEATER SW
16	R/W	THERMISTOR INPUT
17	R/L	HEATER (+)
18	R/B	THERMISTOR OUTPUT

Connector No.	B441
Connector Name	SEAT CUSHION HEATER (PASSENGER SIDE)
Connector Type	S04FW

Terminal No.	Color of Wire	Signal Name [Specification]
2	B	–
16	R/W	–
17	R/L	–
18	R/B	–

Connector No.	B444
Connector Name	WIRE TO WIRE
Connector Type	M02FW-LC

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

Connector No.	B445
Connector Name	WIRE TO WIRE
Connector Type	M02MW-LC

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

Connector No.	B462
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
48	B	–
67	R	–
68	L	–
69	BR/W	–

Connector No.	B466
Connector Name	HEATED SEAT CONTROL UNIT (DRIVER SIDE)
Connector Type	AMP 174923-1

Terminal No.	Color of Wire	Signal Name [Specification]
48	B	GND
67	R	HEATER (+)
68	L	HEATER SW [With automatic drive positioner]
68	L/W	HEATER SW [Without automatic drive positioner]
69	BR/W	THERMISTOR INPUT [With automatic drive positioner]
69	R/W	THERMISTOR INPUT [Without automatic drive positioner]
70	L/W	HEATER (+) [With automatic drive positioner]
70	R/L	HEATER (+) [Without automatic drive positioner]
71	R/B	THERMISTOR OUTPUT

Connector No.	B467
Connector Name	SEAT CUSHION HEATER (DRIVER SIDE)
Connector Type	S04FW

Terminal No.	Color of Wire	Signal Name [Specification]
48	B	–
69	BR/W	– [With automatic drive positioner]
69	R/W	– [Without automatic drive positioner]
70	L/W	– [With automatic drive positioner]
70	R/L	– [Without automatic drive positioner]
71	R/B	–

JCJWA0738GB

HEATED SEAT (WITH A/T)

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

Terminal No.	Color of Wire	Signal Name [Specification]
97	Y	–

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

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

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

Terminal No.	Color of Wire	Signal Name [Specification]
97	L	–

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

Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	–
2	G	–
6	L	–

Connector No.	M70
Connector Name	HEATED SEAT RELAY
Connector Type	MS02FL-MZ-LC

Terminal No.	Color of Wire	Signal Name [Specification]
		[With A/T]
1	G	–
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 [Specification]
1	GR	–
6	G	–
7	SB	–

Connector No.	M141
Connector Name	HEATED SEAT SWITCH (DRIVER SIDE) (WITH A/T)
Connector Type	TK10FW

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

Connector No.	M142
Connector Name	HEATED SEAT SWITCH (PASSENGER SIDE) (WITH A/T)
Connector Type	TK08FBR

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

JCJWA0739GB

SYMPTOM DIAGNOSIS

HEATED SEAT DOES NOT OPERATE

BOTH SIDES

BOTH SIDES : Diagnosis Procedure

INFOID:0000000004535500

1. CHECK HEATED SEAT SWITCH POWER SUPPLY

Check heated seat switch power supply.
Refer to SE-14, "HEATED SEAT SWITCH : Diagnosis Procedure".

Is the inspection result normal?

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

2. CHECK HEATED SEAT RELAY

Check heated seat relay.
Refer to SE-21, "Component Function Check".

Is the inspection result normal?

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

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

Check heated seat switch power supply and ground circuit.
Refer to SE-12, "HEATED SEAT CONTROL UNIT : Diagnosis Procedure".

Is the inspection result normal?

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

4. CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".
NO >> GO TO 1.

DRIVER SIDE

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000004535501

1. CHECK HEATED SEAT SWITCH POWER SUPPLY

Check heated seat switch power supply.
Refer to SE-14, "HEATED SEAT SWITCH : Diagnosis Procedure".

Is the inspection result normal?

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

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

Check heated seat switch power supply and ground circuit.
Refer to SE-12, "HEATED SEAT CONTROL UNIT : Diagnosis Procedure".

Is the inspection result normal?

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

3. CHECK HEATED SEAT SWITCH

Check heated seat switch.
Refer to SE-17, "DRIVER SIDE : Component Function Check".

Is the inspection result normal?

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

4.CHECK SEAT CUSHION HEATER

Check seat cushion heater.
Refer to SE-28, "DRIVER SIDE : Component_Function_Check".

Is the inspection result normal?

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

5.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".
NO >> GO TO 1.

PASSENGER SIDE

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000004535502

1.CHECK HEATED SEAT SWITCH POWER SUPPLY

Check heated seat switch power supply.
Refer to SE-14, "HEATED SEAT SWITCH : Diagnosis Procedure".

Is the inspection result normal?

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

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

Check heated seat switch power supply and ground circuit.
Refer to SE-12, "HEATED SEAT CONTROL UNIT : Diagnosis Procedure".

Is the inspection result normal?

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

3.CHECK HEATED SEAT SWITCH

Check heated seat switch.
Refer to SE-18, "PASSENGER SIDE : Component_Function_Check".

Is the inspection result normal?

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

4.CHECK SEAT CUSHION HEATER

Check seat cushion heater.
Refer to SE-29, "PASSENGER SIDE : Component_Function_Check".

Is the inspection result normal?

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

5.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".
NO >> GO TO 1.

SEATBACK HEATER ONLY DOES NOT OPERATE

DRIVER SIDE

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000004535503

1. CHECK SEATBACK HEATER

Check seatback heater.
Refer to SE-32, "DRIVER SIDE : Component Function Check".

Is the inspection result normal?

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

2. CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".
NO >> GO TO 1.

PASSENGER SIDE

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000004535504

1. CHECK SEATBACK HEATER

Check seatback heater.
Refer to SE-32, "PASSENGER SIDE : Component Function Check".

Is the inspection result normal?

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

2. CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".
NO >> GO TO 1.

CANNOT ADJUST HEATED SEAT TEMPERATURE

DRIVER SIDE

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000004535505

1.CHECK HEATED SEAT SWITCH

Check heated seat switch.
Refer to SE-17, "DRIVER SIDE : Component Function Check".

Is the inspection result normal?

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

2.CHECK HEAT SENSOR

Check heat sensor.
Refer to SE-23, "DRIVER SIDE : Component Function Check".

Is the inspection result normal?

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

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".
NO >> Replace heated seat control unit. Refer to SE-128, "Removal and Installation".

PASSENGER SIDE

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000004535506

1.CHECK HEATED SEAT SWITCH

Check heated seat switch.
Refer to SE-18, "PASSENGER SIDE : Component Function Check".

Is the inspection result normal?

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

2.CHECK HEAT SENSOR

Check heat sensor.
Refer to SE-25, "PASSENGER SIDE : Component Function Check".

Is the inspection result normal?

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

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".
NO >> Replace heated seat control unit. Refer to SE-128, "Removal and Installation".

HEATED SEAT SWITCH INDICATOR DOES NOT TURN ON DRIVER SIDE

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000004535507

1.CHECK HEATED SEAT SWITCH INDICATOR

Check heated seat switch indicator.
Refer to SE-34, "DRIVER SIDE : Component Function Check".

Is the inspection result normal?

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

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".
NO >> GO TO 1.

PASSENGER SIDE

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000004535508

1.CHECK HEATED SEAT SWITCH INDICATOR

Check heated seat switch indicator.
Refer to SE-34, "PASSENGER SIDE : Component Function Check".

Is the inspection result normal?

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

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".
NO >> GO TO 1.

STEERING POSITION FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000004240991

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 ADP-66, "AUTOMATIC DRIVE POSITIONER CONTROL UNIT : Diagnosis Procedure".

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-36, "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-41, "Component Function Check".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".
NO >> Repair or replace the malfunctioning parts.

TILT FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000004240992

1.CHECK TILT AND TELESCOPIC SWITCH

Check tilt switch.
Refer to SE-36, "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-39, "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-41, "Component Function Check".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".
NO >> Repair or replace the malfunctioning parts.

TELESCOPIC FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000004240993

1.CHECK TILT AND TELESCOPIC SWITCH

Check telescopic switch.
Refer to SE-36, "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-39, "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-41, "Component Function Check".

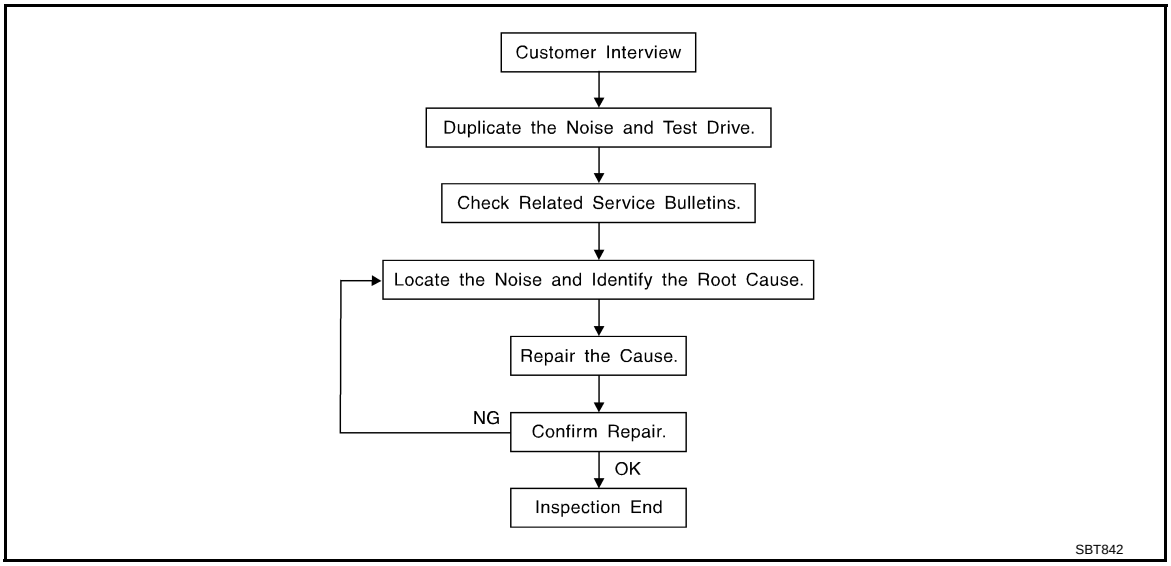
Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".
NO >> Repair or replace the malfunctioning parts.

SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow

INFOID:0000000004684735



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-107, "Diagnostic Worksheet". This information is necessary to duplicate the conditions that exist when the noise occurs.

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

DUPLICATE THE NOISE AND TEST DRIVE

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

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

1) Close a door.
2) Tap or push/pull around the area where the noise appears to be coming from.
3) Rev the engine.
4) Use a floor jack to recreate vehicle “twist”.
5) At idle, apply engine load (electrical load, half-clutch on M/T models, drive position on A/T models).
6) Raise the vehicle on a hoist and hit a tire with a rubber hammer.

- Drive the vehicle and attempt to duplicate the conditions the customer states exist when the noise occurs.
- If it is difficult to duplicate the noise, drive the vehicle slowly on an undulating or rough road to stress the vehicle body.

CHECK RELATED SERVICE BULLETINS

After verifying the customer concern or symptom, check ASIST for Technical Service Bulletins (TSBs) related to that concern or symptom.
If a TSB relates to the symptom, follow the procedure to repair the noise.

LOCATE THE NOISE AND IDENTIFY THE ROOT CAUSE

1. Narrow down the noise to a general area. To help pinpoint the source of the noise, use a listening tool (Chassis ear: J-39570, Engine ear and mechanics stethoscope).
2. Narrow down the noise to a more specific area and identify the cause of the noise by:

- Removing the components in the area that is are suspected to be the cause of the noise.
  Do not use too much force when removing clips and fasteners, otherwise clips and fastener can be broken or lost during the repair, resulting in the creation of new noise.
- Tapping or pushing/pulling the component that is are suspected to be the cause of the noise.
  Do not tap or push/pull the component with excessive force, otherwise the noise will be eliminated only temporarily.
- Feeling for a vibration by hand by touching the component(s) that is are suspected to be the cause of the noise.
- Placing a piece of paper between components that are suspected to be the cause of the noise.
- Looking for loose components and contact marks.
  Refer to SE-105, "Inspection Procedure".

REPAIR THE CAUSE

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

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

CAUTION:
Never use excessive force as many components are constructed of plastic and may be damaged.
NOTE:
Always check with the Parts Department for the latest parts information.
The following materials are contained in the Nissan Squeak and Rattle Kit (J-43980). Each item can be ordered separately as needed.
URETHANE PADS [1.5 mm (0.059 in) thick]
Insulates connectors, harness, etc.
76268-9E005: 100 × 135 mm (3.94 × 5.31 in)/76884-71L01: 60 × 85 mm (2.36 × 3.35 in)/76884-71L02:15 × 25 mm (0.59 × 0.98 in)
INSULATOR (Foam blocks)
Insulates components from contact. Can be used to fill space behind a panel.
73982-9E000: 45 mm (1.77 in) thick, 50 × 50 mm (1.97 × 1.97 in)/73982-50Y00: 10 mm (0.39 in) thick, 50 × 50 mm (1.97 × 1.97 in)
INSULATOR (Light foam block)
80845-71L00: 30 mm (1.18 in) thick, 30 × 50 mm (1.18 × 1.97in)
FELT CLOTHTAPE
Used to insulate where movement does not occur. Ideal for instrument panel applications.
68370-4B000: 15 × 25 mm (0.59 × 0.98 in) pad/68239-13E00: 5 mm (0.20 in) wide tape roll
The following materials, not found in the kit, can also be used to repair squeaks and rattles.
UHMW (TEFLON) TAPE

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

CONFIRM THE REPAIR

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

Inspection Procedure

INFOID:0000000004684736

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

INSTRUMENT PANEL

Most incidents are caused by contact and movement between:

1. The cluster lid A and instrument panel
2. Acrylic lens and combination meter housing
3. Instrument panel to front pillar garnish
4. Instrument panel to windshield
5. Instrument panel mounting pins
6. Wiring harnesses behind the combination meter
7. A/C defroster duct and duct joint
   These incidents can usually be located by tapping or moving the components to duplicate the noise or by pressing on the components while driving to stop the noise. Most of these incidents can be repaired by applying felt cloth tape or silicon spray (in hard to reach areas). Urethane pads can be used to insulate wiring harness.
   CAUTION:
   Never use silicone spray to isolate a squeak or rattle. If the area is saturated with silicone, the recheck of repair becomes impossible.

CENTER CONSOLE

Components to pay attention to include:

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

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

DOORS

Pay attention to the following:

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

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

TRUNK

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

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

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

SUNROOF/HEADLINING

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

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

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

SEATS

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

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

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

UNDERHOOD

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

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

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

Diagnostic Worksheet

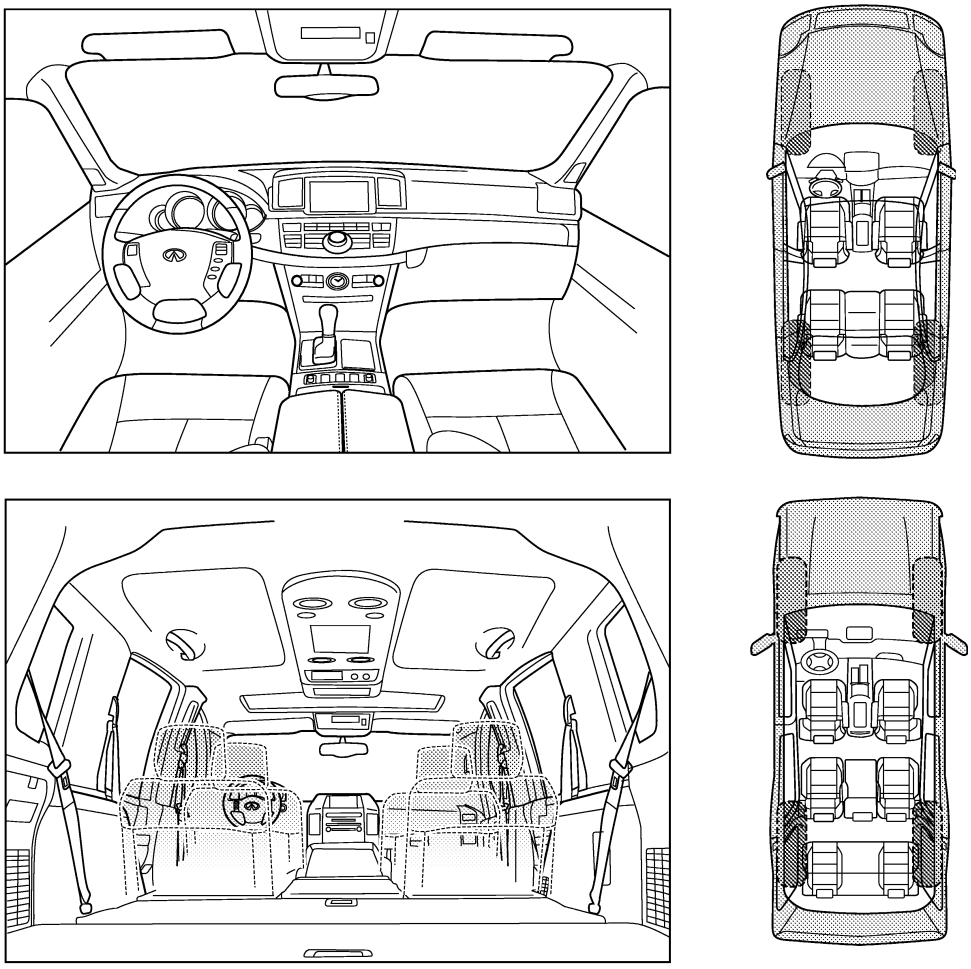
INFOID:0000000004240996

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:0000000004240997

The Supplemental Restraint System such as “AIR BAG” and “SEAT BELT PRE-TENSIONER”, used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the “SRS AIR BAG” and “SEAT BELT” of this Service Manual.

WARNING:

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

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

WARNING:

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

Service Notice

INFOID:0000000004240998

- 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:0000000004240999

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

- Water soluble foul: Dip a soft cloth into lukewarm water, and wring the water out of the cloth to wipe the fouled area.
  Then rub with a soft and dry cloth.

- Oily foul: Dip a soft cloth into lukewarm water with mild detergent (concentration: within 2 to 3%), and wipe the fouled area.
  Then dip a cloth into fresh water, and wring the water out of the cloth to wipe the detergent off. Then rub with a soft and dry cloth.
- Never use organic solvent such as thinner, benzene, alcohol, and gasoline.
- For genuine leather seats, use a genuine leather seat cleaner.

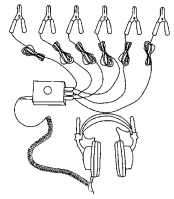
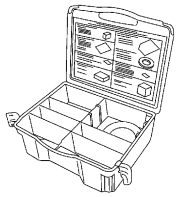
PREPARATION

PREPARATION

Special Service Tool

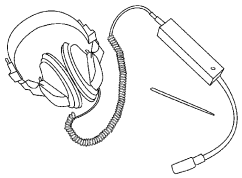
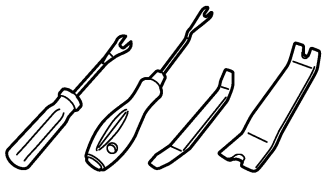
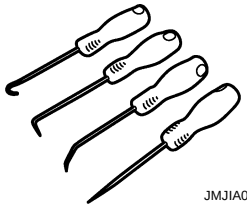
INFOID:0000000004684741

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

Tool number (Kent-Moore No.) Tool name	Description
(J39570) Chassis ear  SIIA0993E	Locates the noise
(J43980) NISSAN Squeak and Rattle Kit  SIIA0994E	Repairs the cause of noise

Commercial Service Tool

INFOID:0000000004684742

Tool name	Description
Engine ear  SIIA0995E	Locates the noise
Remover tool  JMKIA3050ZZ	Removes the clips, pawls and metal clips
Hook and pick tool  JMJIA0490ZZ	Removes the snap pins

REMOVAL AND INSTALLATION

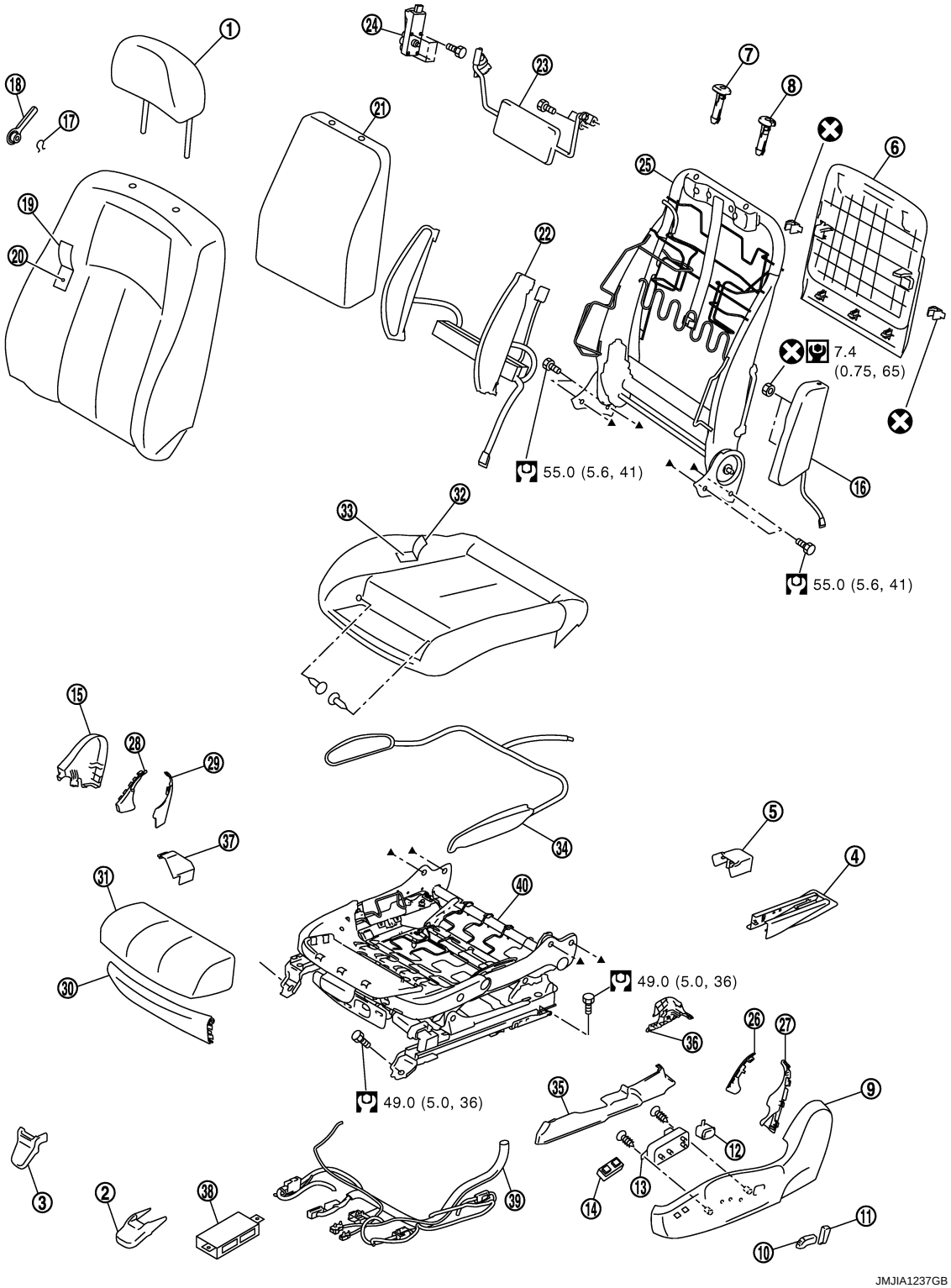
FRONT SEAT

Exploded View

INFOID:0000000004241002

DRIVER'S SEAT

SEC. 870

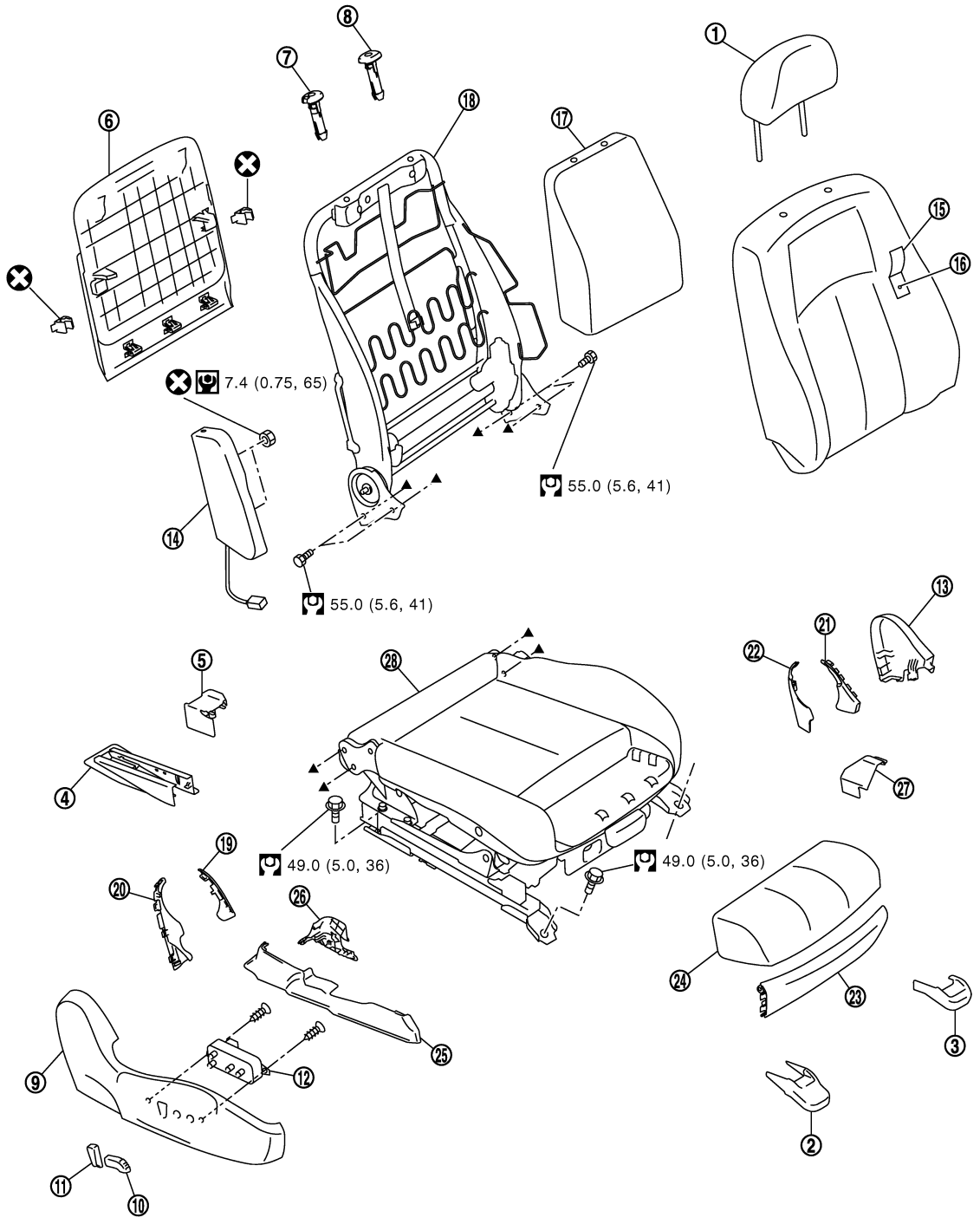


1. Headrest
2. Front outer slide cover
3. Front inner slide cover
4. Rear outer slide cover
5. Rear inner slide cover
6. Seatback board
7. Headrest holder (free)
8. Headrest holder (locked)
9. Seat cushion outer finisher
10. Seat slide and lifter switch knob
11. Seat reclining switch knob
12. Lumbar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

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

PASSENGER'S SEAT

SEC. 870



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 pad
17. Seatback silencer
18. Seatback frame

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

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

Removal and Installation

INFOID:0000000004241003

REMOVAL

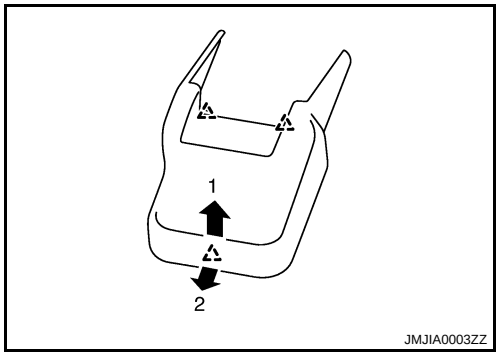
CAUTION:

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

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

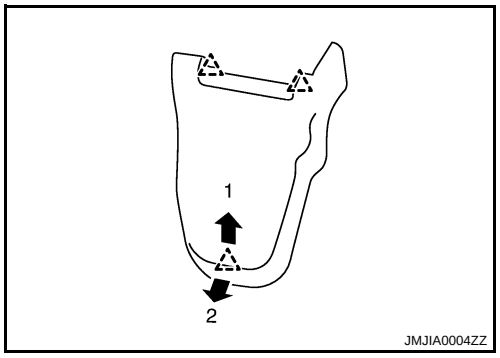
a. Front outer slide cover
- Slide the seat to the rearmost position.
- Pull up the front edge of the front slide cover to release the pawls.
- Slide the front slide cover forward to release the pawls.

: 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.

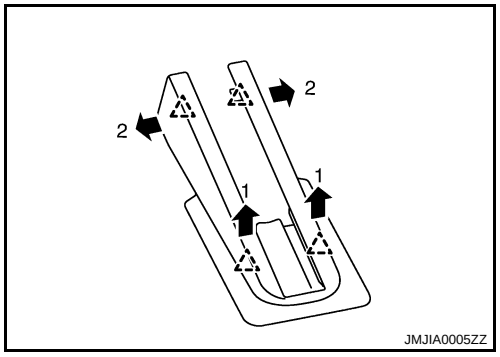
: Pawl



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

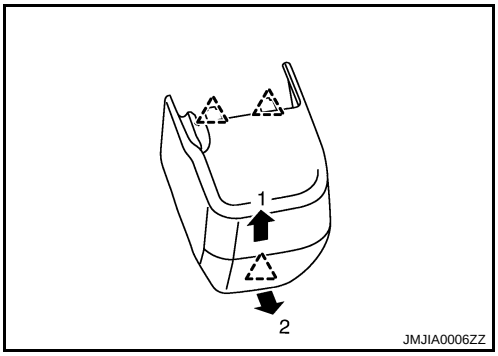
a. Rear outer slide cover
- Slide the seat to the foremost position.
- Pull up the rear edge of the rear outer slide cover to release the pawls.
- Open the front end of the rear outer slide cover to release the pawls.

: 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 battery negative terminal and then wait for at least 3 minutes.
8. Remove seat from the vehicle.
   CAUTION:
   When removing and installing, use shop cloths to protect parts from damage.

INSTALLATION

Install in the reverse order of removal.

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

NOTE:
After installing the driver seat, perform additional service when removing battery negative terminal.(Automatic drive positioner model only) Refer to ADP-9, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement".

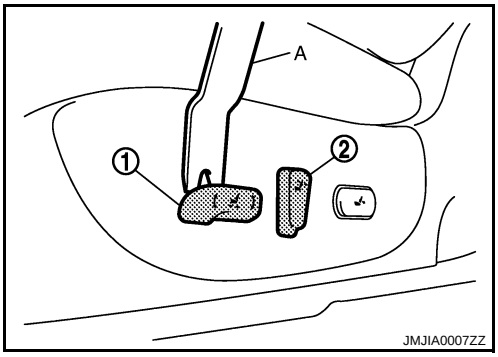
Disassembly and Assembly

INFOID:0000000004241004

SEATBACK

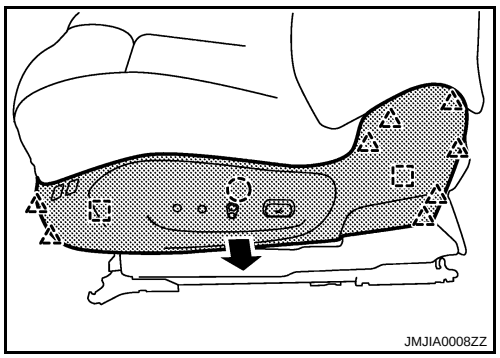
Disassembly

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).

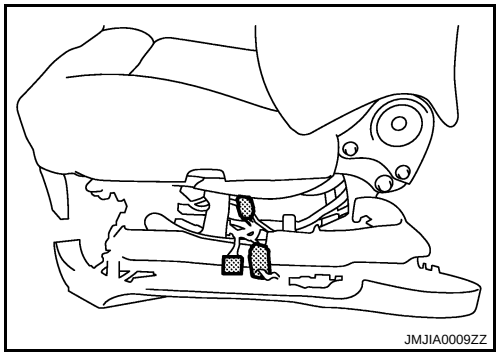


- Remove the metal clips, clips and pawls, and then pull out seat cushion outer finisher.

: Clip
: Metal clip
: Pawl


JMJIA0008ZZ

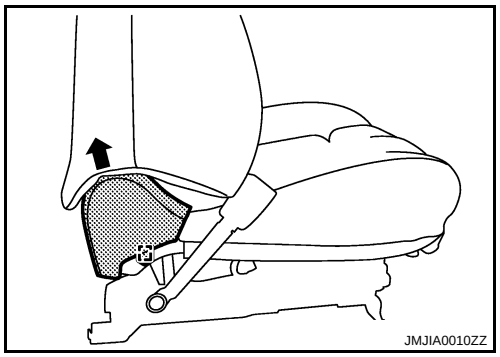
- Disconnect the seat control switch, lumbar support switch and side support switch harness connectors.


JMJIA0009ZZ

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

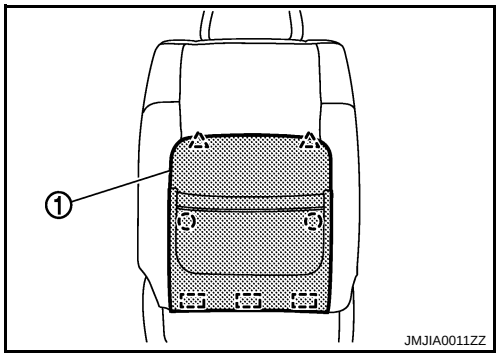
2. Remove the seat cushion inner finisher.
   - Remove the reclining device inner covers (front, rear) by releasing the metal clip and pull it up together with the cover.
   - Remove the relining device inner covers (front, rear) from the seat cushion inner finisher by releasing the pawls.

: 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.

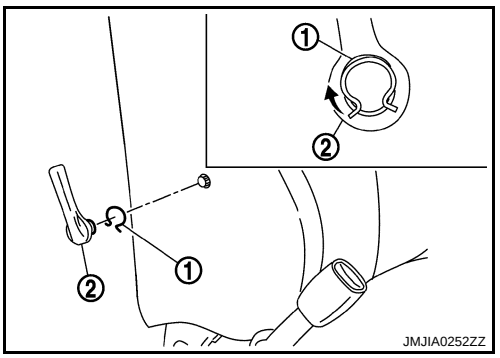
: Clip
: Metal clip
: Pawl



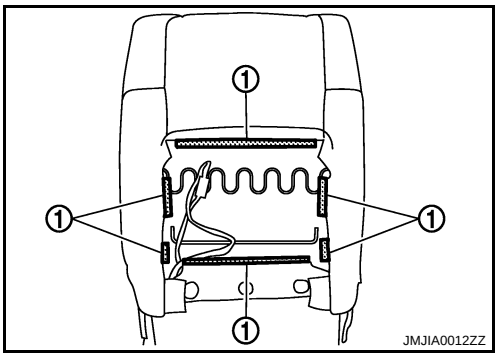
JMJIA0011ZZ

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

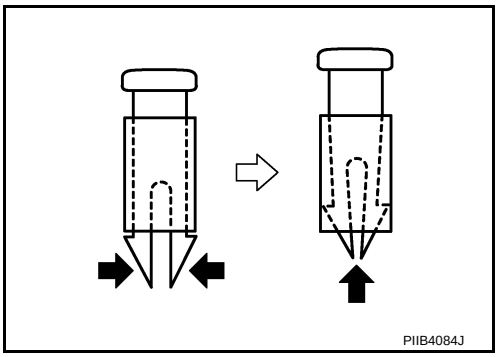
Pull snap ring (1) upward, and remove lumbar support lever knob (2) from seatback frame with hook and pick tool.



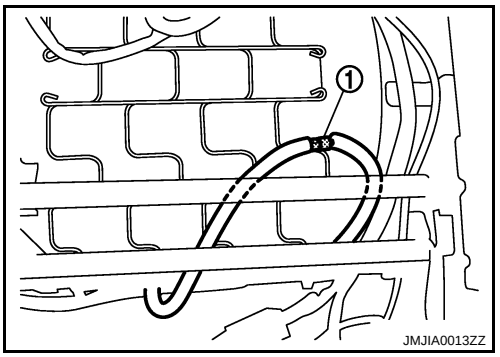
5. Remove the seatback pad and trim.
   - Remove the seatback retainer (1) on the back side of the seatback.



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

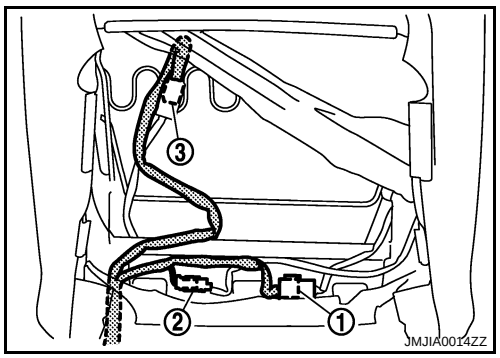


   - Remove the side air bag module.
   - Remove the side support hose joint (1) located under the seat cushion. (Side support model only.)



   - Disconnect the seatback heater unit harness connector.

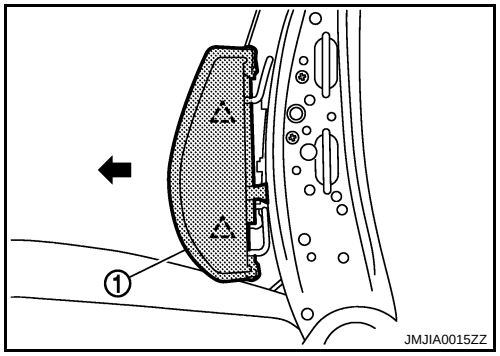
- Disconnect the reclining motor harness connector (1) and remove the harness clamp.
- Disconnect the lumbar support motor harness connector (2) and remove the harness clamp. (Power lumbar support model only.)
- Disconnect the side support unit harness connector (3) and remove the harness clamp. (Side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



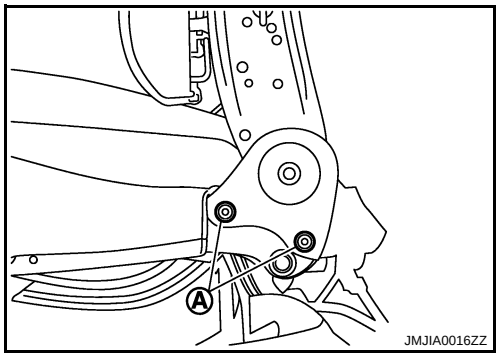
- Remove the seatback pad and seatback trim from the seatback frame.
- Remove the hog rings, and separate the trim and pad.

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 bolts (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

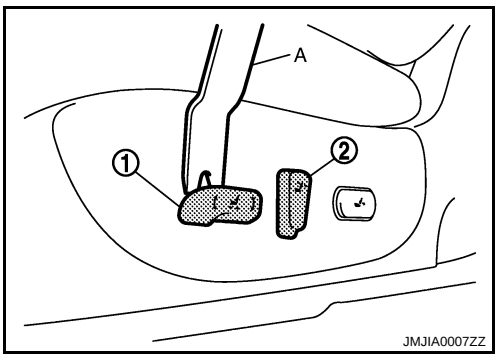
Disassembly

CAUTION:

- **Never disassemble front passenger seat cushion assembly.**
- **Always replace as an assembly.**
- **For front passenger seat service parts, refer to the service part catalogue.**

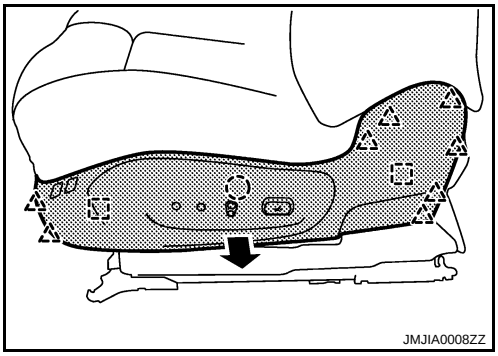
1. Remove the seat cushion outer finisher.

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

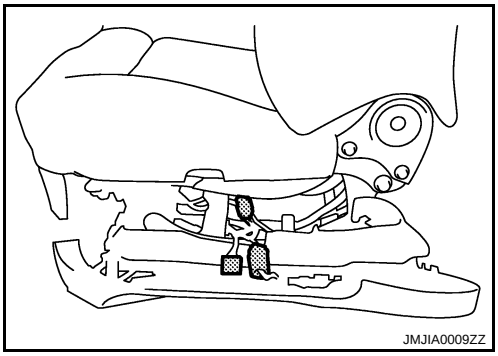


- Remove the metal clips, clips and pawls, and then pull out seat cushion outer finisher.

: Clip
: Metal clip
: Pawl



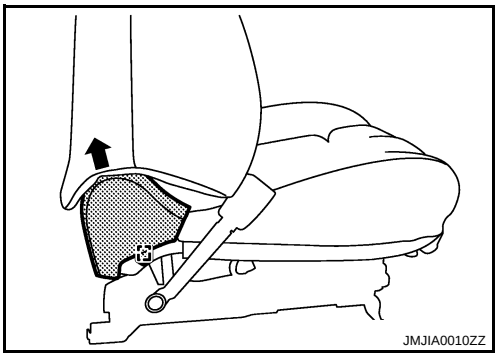
- Disconnect the seat control switch, lumbar support switch and side support switch harness connectors.



- 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.

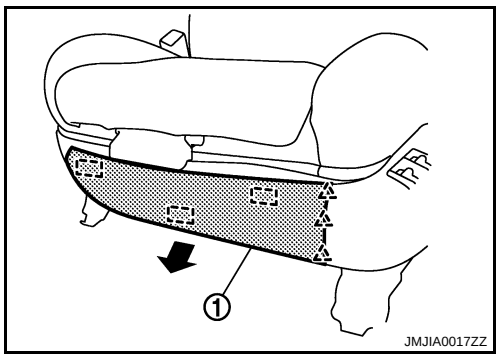
: Metal clip



3. Remove the seat cushion front finisher.

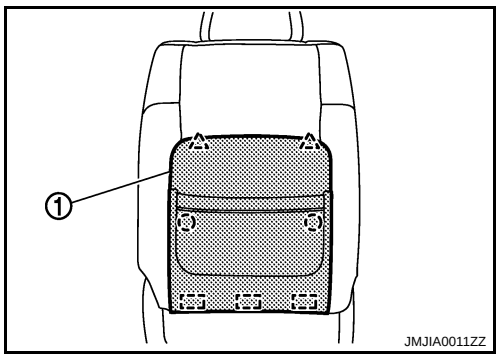
Remove the metal clips, and then pull out seat cushion front finisher (1).

: Metal clip
: Pawl

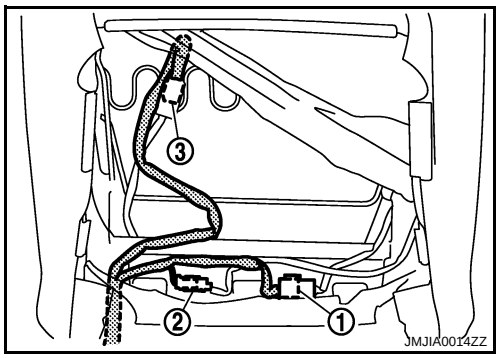


4. Remove the seatback board.
   - Remove the metal clips and clips, and then pull out seatback board (1).
   - Pull down the seatback board to release the upper pawls.

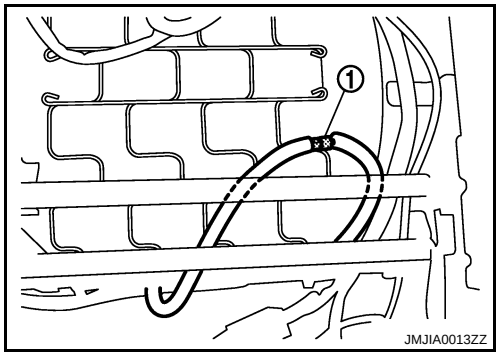
: Clip
: Metal clip
: Pawl



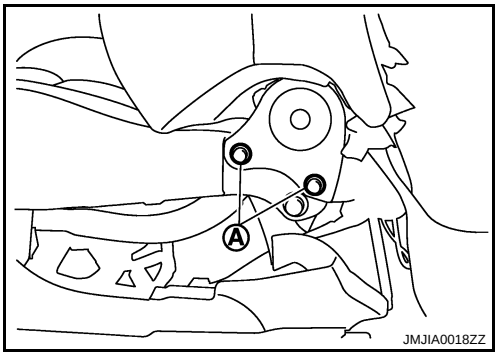
5. Remove the seatback assembly.
   - Disconnect the reclining motor harness connector (1) and remove the harness clamp.
   - Disconnect the lumbar support motor harness connector (2) and remove the harness clamp. (Power lumbar support model only.)
   - Disconnect the side support unit harness connector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



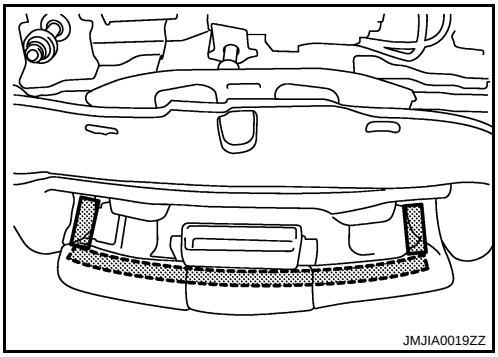
   - Remove the seat cushion retainer, and then side air bag harness clamp and seatback heater unit harness connector.
   - Remove the side support hose joint (1) located under the seat cushion. (Side support model only.)



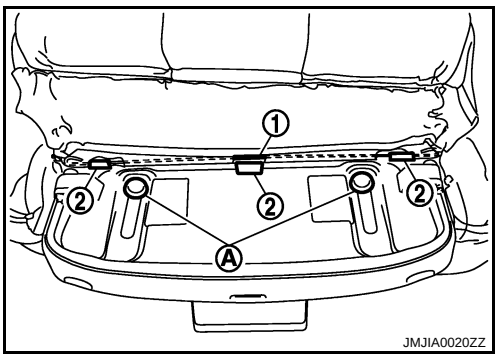
- Remove the seatback mounting bolts (A), and then remove the seatback assembly.



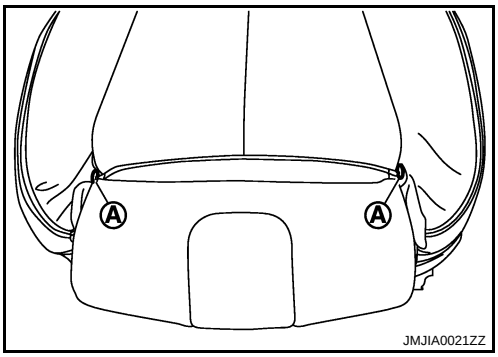
6. Remove the thigh extension. (Thigh extension model only.)
   - Remove the retainer.



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



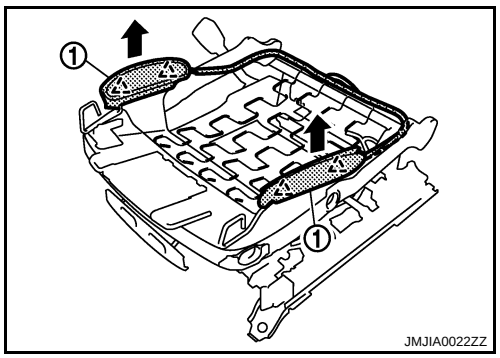
7. Remove the seat cushion pad and trim.
   - Remove the clips (A). (Thigh extension model only.)



   - 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.

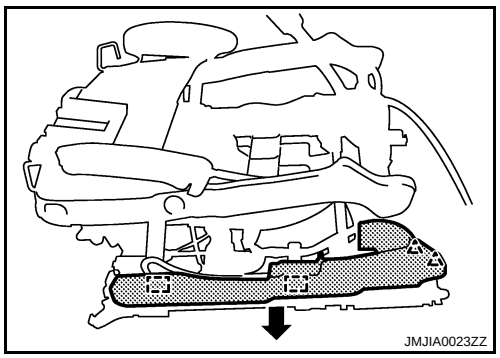
- Remove the pawls, and then remove side support bag (1).

: Pawl



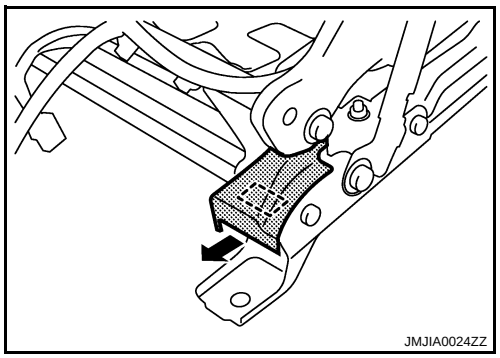
9. Remove the seat slide outer finisher.
   - Remove the metal clips and pawls, and then pull out seat slide outer finisher (outside).
   - Remove the metal clip, and then pull out seat slide outer finisher (inside).

: 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:

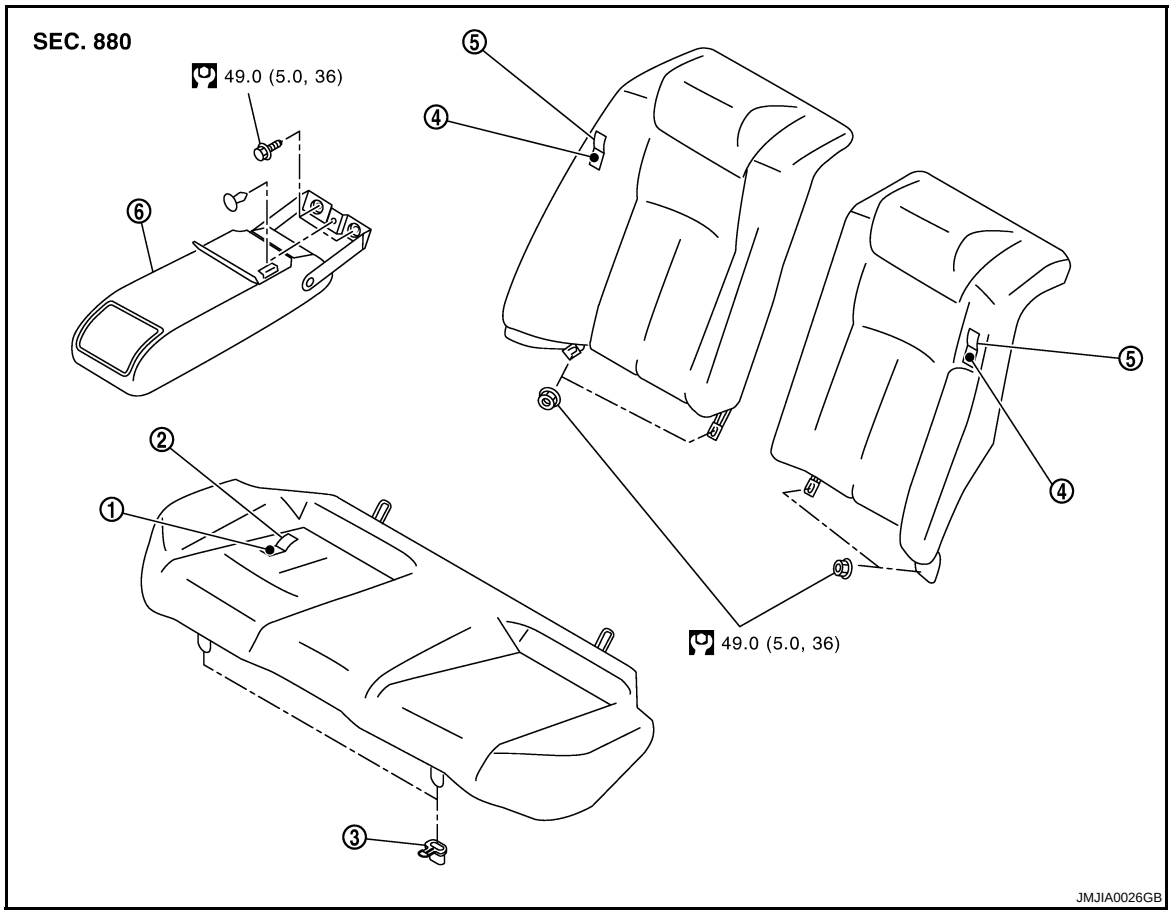
Install the hog rings of seat cushion trim in position, and then securely connect the trim or trim cord with the pad side wire.

REAR SEAT

Exploded View

INFOID:0000000004241005

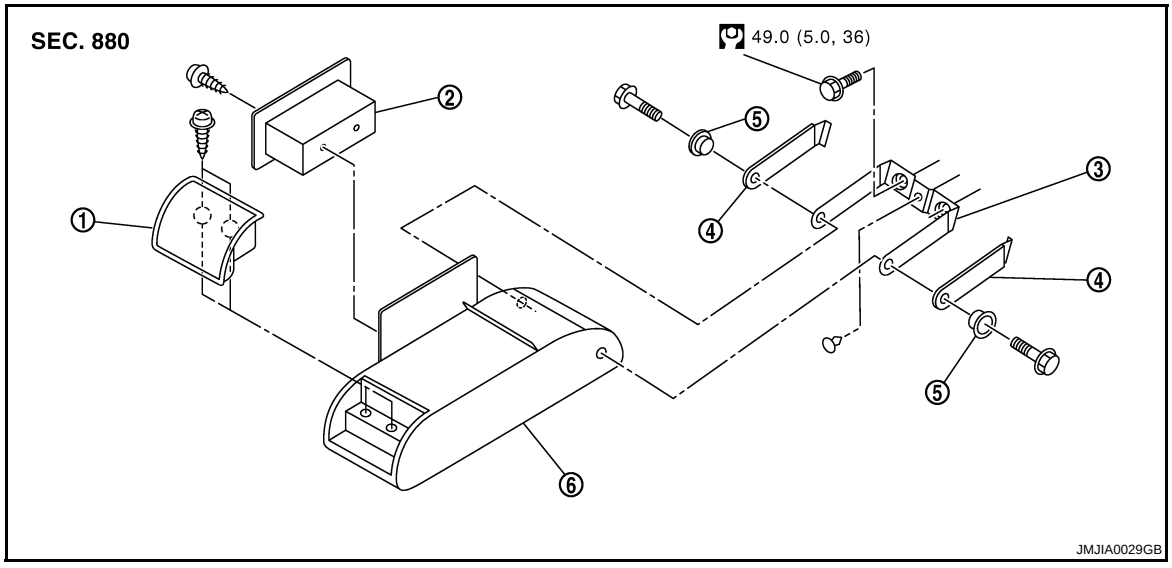
REAR SEAT



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

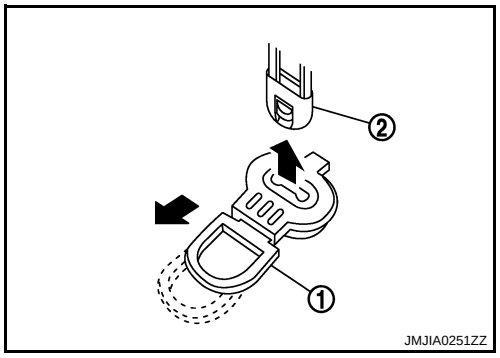
INFOID:0000000004241006

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.



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:0000000004241007

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.

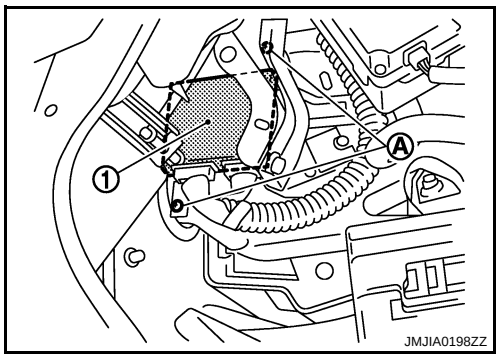
AUTOMATIC DRIVE POSITIONER CONTROL UNIT

Removal and Installation

INFOID:0000000004241008

REMOVAL

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



INSTALLATION

Install in the reverse order of removal.

CAUTION:

- **Be sure to clamp the harness to the right place.**

HEATED SEAT CONTROL UNIT

Exploded View

INFOID:0000000004535509

Refer to SE-112, "Exploded View".

Removal and Installation

INFOID:0000000004535510

REMOVAL

CAUTION:

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

1. Remove the front seat.
2. Disconnect heated seat control unit connector.
3. Remove the heated seat control unit from the heated seat control unit stay. Refer to SE-112, "Exploded View".

INSTALLATION

Install in the reverse order of removal.

CAUTION:

Always clamp the harness to the right place.

POWER SEAT SWITCH

Removal and Installation

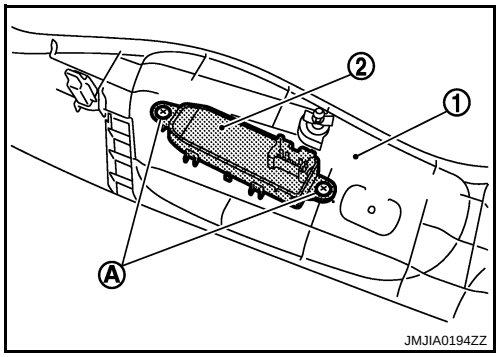
INFOID:0000000004241010

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-115, "Removal and Installation".
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:

- **Be sure to clamp the harness to the right place.**

SIDE SUPPORT SWITCH

Removal and Installation

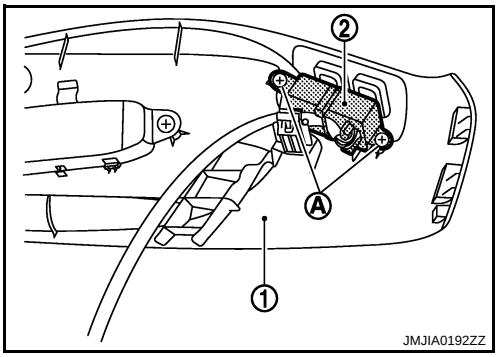
INFOID:0000000004241011

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-115, "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:

- **Be sure to clamp the harness to the right place.**

LUMBAR SUPPORT SWITCH

Removal and Installation

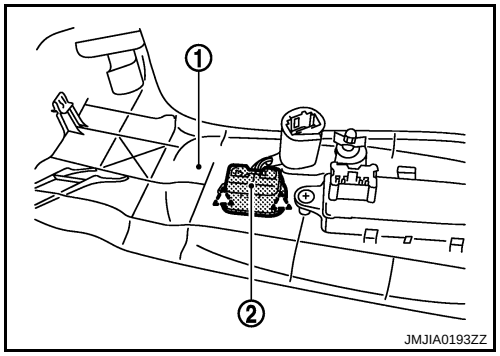
INFOID:0000000004241012

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-115, "Removal and Installation"
2. Remove lumbar support switch (2).



INSTALLATION

Install in the reverse order of removal.

CAUTION:

- **Be sure to clamp the harness to the right place.**

TILT&TELESCOPIC SWITCH

Removal and Installation

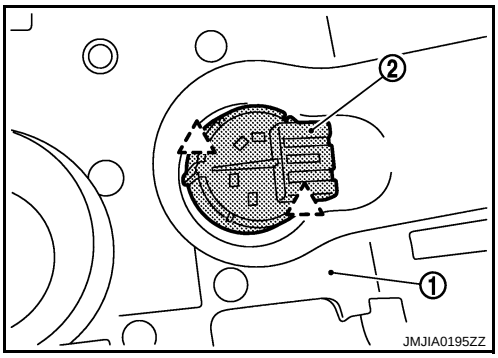
INFOID:0000000004241013

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:

- **Be sure to clamp the harness to the right place.**

HEATED SEAT SWITCH

Exploded View

INFOID:0000000004679111

Refer to IP-23, "Exploded View".

Removal and Installation

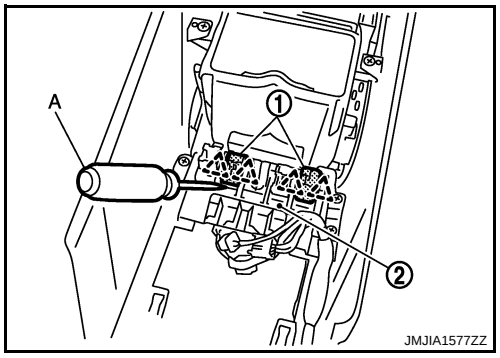
INFOID:0000000004679112

REMOVAL

CAUTION:

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

1. Remove the console body assembly. Refer to IP-24, "Removal and Installation"
2. Remove heated seat switch (1) from switch bracket (2) with flat-bladed screwdriver (A).



: Pawl

NOTE:

The same procedure is performed for passenger side.

INSTALLATION

Install in the reverse order of removal.