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PRECAUTION

PRECAUTIONS

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

INFOID:0000000013549016

Risk of injury

There is a risk of injury caused by parts becoming projectiles if uncontrolled deployment of air bag or seat belt pre-tensioner occurs, or by storing air bag with the deployment side facing downwards. When scrapping air bag or seat belt pre-tensioner by means of controlled deployment, there is also a danger present if a sufficiently safe distance is not maintained, or if opening using cutting torches or other cutting tools, or due to smelting or if parts that are not yet triggered are exposed to a blaze or a smoldering fire at landfills.

Safety instructions/precautions

- Removed air bag must always be stored with deployment side facing up.
- Acquisition, transportation, storage, testing and assembly work should only be performed or supervised by properly trained personnel.
- Install air bag or seat belt pre-tensioner immediately following retrieval from storage.
- Air bag and seat belt pre-tensioner must be protected from flying sparks, open fires and temperature exceeding 100°C (212°F).
- Never transport air bag and seat belt pre-tensioner in the passenger compartment. Store them securely in the luggage room of the vehicle in their original replacement part packaging and secure them so that they cannot slip around.
- Never allow air bag and seat belt pre-tensioner to come into contact with grease, oil, or cleaning agents.
- Perform system tests using approved testing equipment only, and only when the units are properly installed and the vehicle is unoccupied.
- Before the initial hookup of the battery or an external power supply, the ignition must be switched on and the vehicle unoccupied.
- Air bag and seat belt pre-tensioner that fall from a height of more than 0.5 m must be replaced.
- When scrapping by means of controlled deployment of air bag and seat belt pre-tensioner, a safe distance of at least 10 m must be maintained.
- Before starting work on air bag and seat belt pre-tensioner and work on components that are connected to air bag and seat belt pre-tensioner or require and intervention in their electric circuit (e.g. when removing the steering wheel):
  - Disconnect any external power sources (e.g. charger).
  - Disconnect and insulate ground line of battery
- Before starting bodywork in combination with welding or retrofitting, during which work is performed on uninsulated, current-carrying lines or require an intervention in their electric circuit (e.g. when removing the steering wheel):
  - Disconnect any external power sources (e.g. charger).
  - Disconnect and insulate ground line of battery.
  - During welding, disconnect plug connection and from control unit of air bag.
- When the air bag deploys, the pyrofuse activates and the power source from the battery is disconnected. This prevents possible fires caused by electric leakage after an accident occurs.

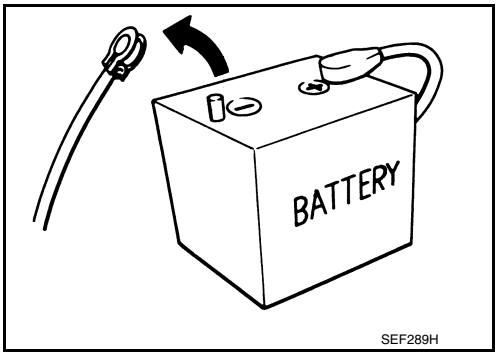
Precautions for Removing Battery Terminal

INFOID:0000000013549017

When disconnecting the battery terminal, pay attention to the following.

- Always use a 12V battery as power source.
- Never disconnect battery terminal while engine is running.

- When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.
- For vehicles with the engine listed below, remove the battery terminal after a lapse of the specified time:



BR08DE	: 4 minutes	YD25DDTi	: 2 minutes
D4D engine	: 20 minutes	YS23DDT	: 4 minutes
HRA2DDT	: 12 minutes	YS23DDTT	: 4 minutes
K9K engine	: 4 minutes	ZD30DDTi	: 60 seconds
M9R engine	: 4 minutes	ZD30DDTT	: 60 seconds
R9M engine	: 4 minutes		
V9X engine	: 4 minutes		

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

- After high-load driving, if the vehicle is equipped with the V9X engine, turn the ignition switch OFF and wait for at least 15 minutes to remove the battery terminal.

NOTE:
- Turbocharger cooling pump may operate in a few minutes after the ignition switch is turned OFF.
- Example of high-load driving
  - Driving for 30 minutes or more at 140 km/h (86 MPH) or more.
  - Driving for 30 minutes or more on a steep slope.

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

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

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

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

Service Notice

INFOID:0000000013549018

- 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:0000000013549019

- 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.

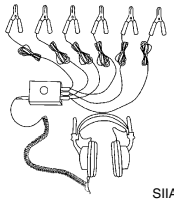
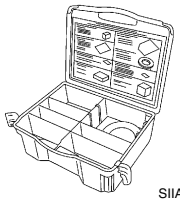
PREPARATION

PREPARATION

Special Service Tool

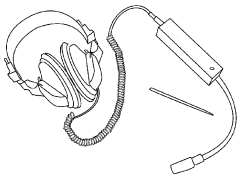
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The actual shapes of Kent-Moore tools may differ from those of special service tools illustrated here.

Tool number (Kent-Moore No.) Tool name	Description
(J-39570) Chassis ear  SIIA0993E	Locates the noise
(J-50397) NISSAN Squeak and Rattle Kit  SIIA0994E	Repairs the cause of noise

Commercial Service Tool

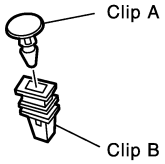
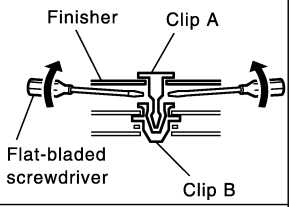
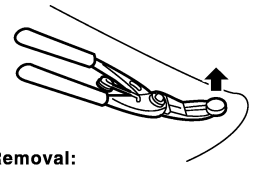
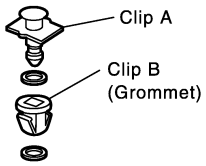
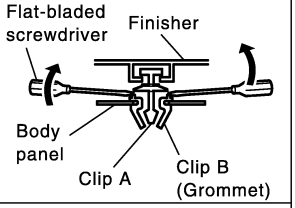
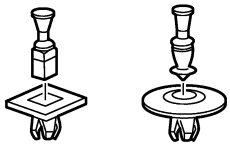
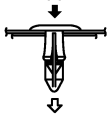
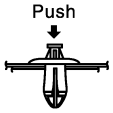
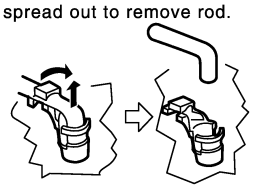
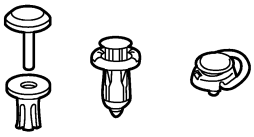
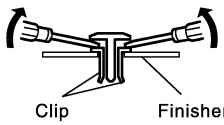
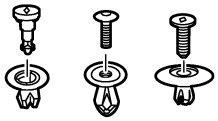
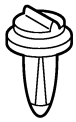
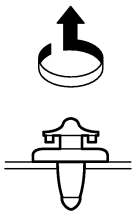
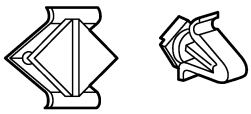
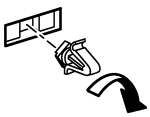
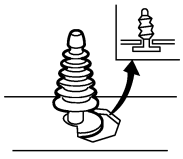
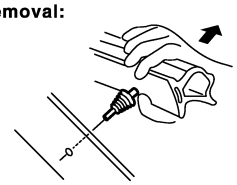
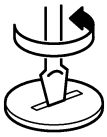
INFOID:0000000013549020

Tool name	Description
Engine ear  SIIA0995E	Locates the noise

CLIP LIST

Clip List

INFOID:0000000013549021

Shapes	Removal & Installation	Shapes	Removal & Installation
	**Removal:** Remove by bending up with flat-bladed screwdrivers or clip remover. 		**Removal:** 
	 **Removal:** Remove with a clip remover.		**Removal:** 
	**Removal:** Push center pin to catching position. (Do not remove center pin by hitting it.)  **Installation:** 		**Removal:** Holder portion of clip must be spread out to remove rod. 
	**Removal:** Remove by bending up with flat-bladed screwdrivers or clip remover. 		**Removal:** 1. Screw out with a Phillips screwdriver. 2. Remove female portion with flat-bladed screwdriver. 
	**Removal:** 		**Removal:**  **Removal:**  **Installation:** 
	**Removal:** 		**Removal:** 

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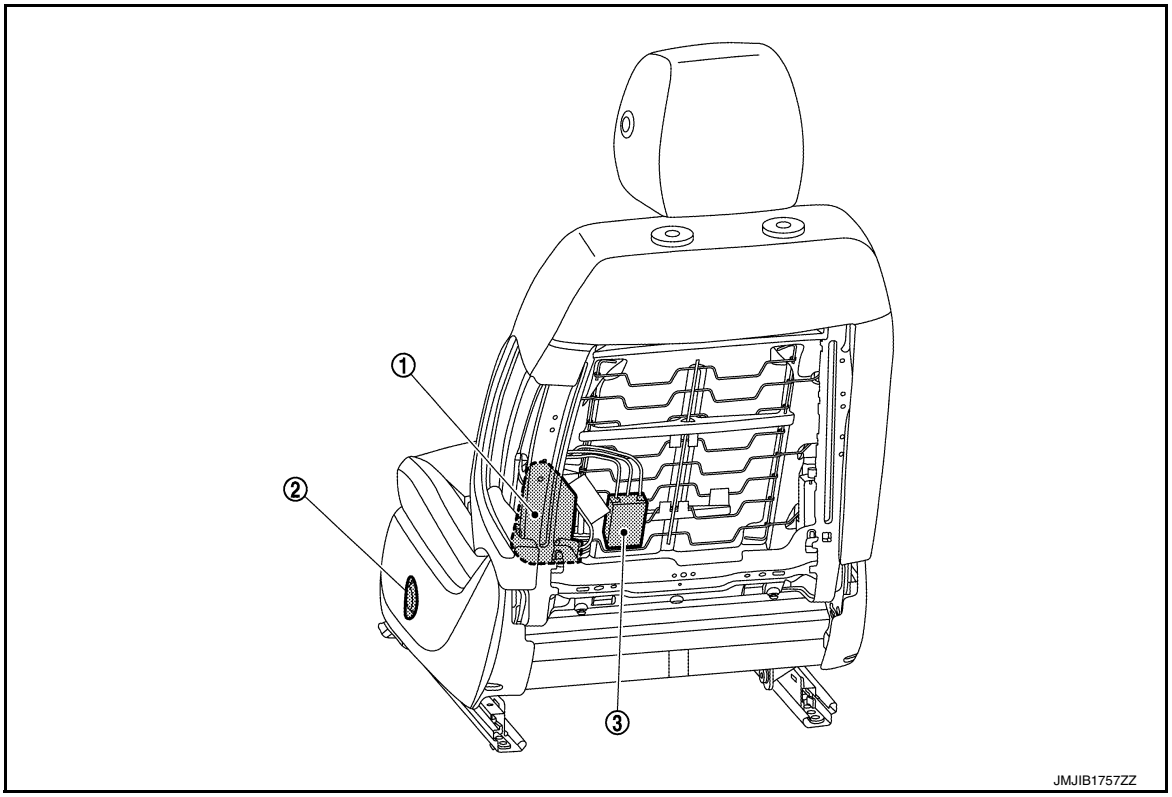
SYSTEM DESCRIPTION

COMPONENT PARTS

LUMBAR SUPPORT SYSTEM

LUMBAR SUPPORT SYSTEM : Component Parts Location

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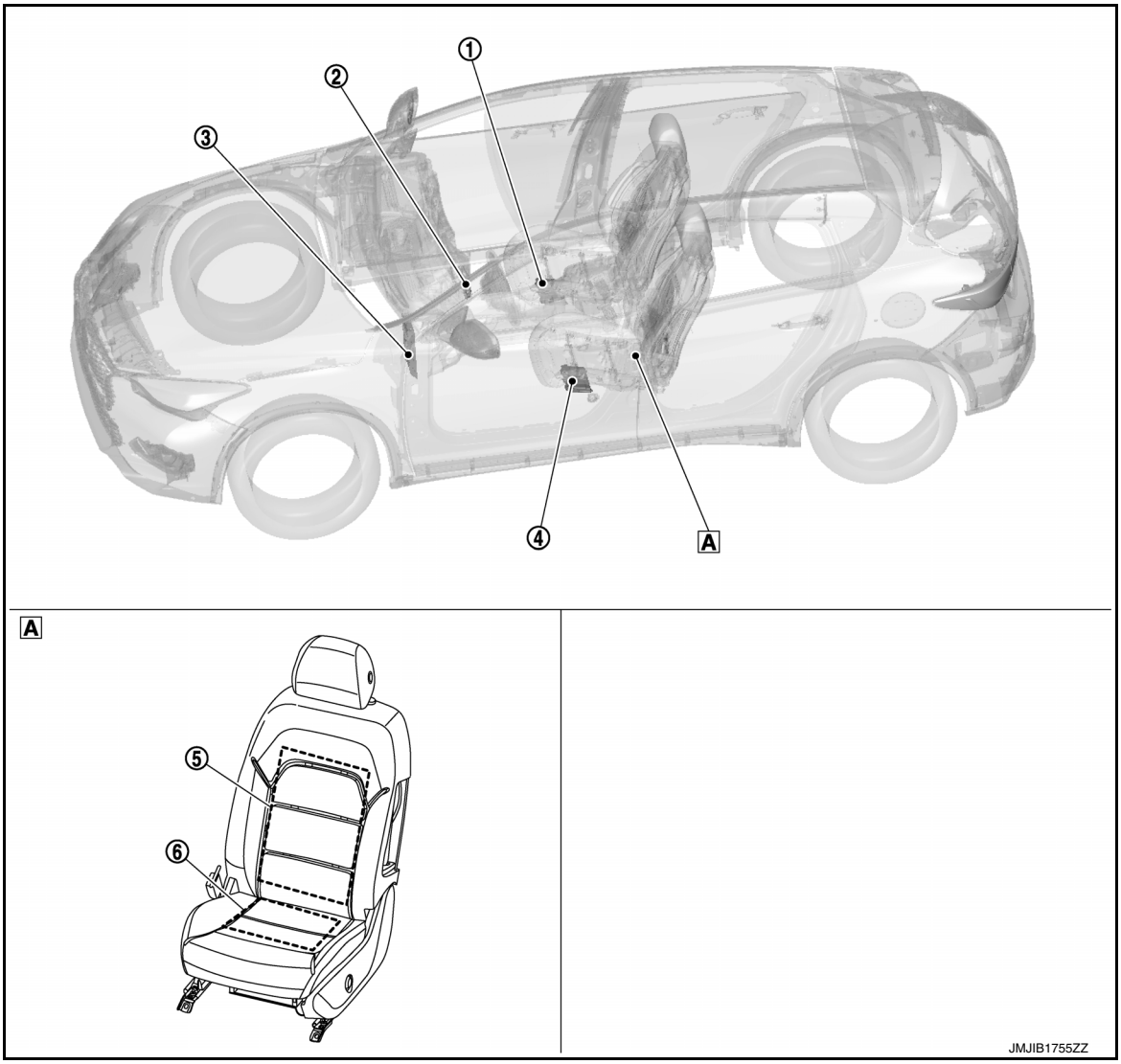


No.	Component	Function
①	Lumbar support pump	Lumbar support pump receives lumbar support pump control signal from lumbar support control unit and generates air supply.
②	Lumbar support switch	Refer to SE-10, "Lumbar Support Switch".
③	Lumbar support control unit	Lumber support control unit receives lumber support switch signal from lumbar support switch and controls lumbar support pump.

HEATED SEAT SYSTEM

HEATED SEAT SYSTEM : Component Parts Location

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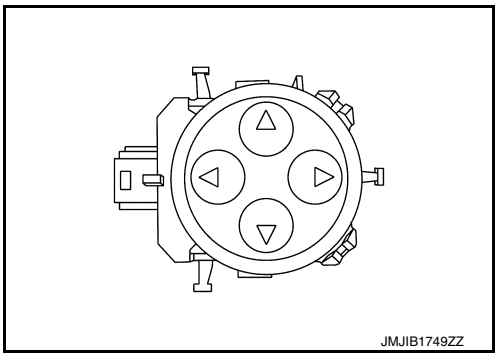
A Front seat

No.	Component	Function
①	Passenger seat control unit	• Passenger seat control unit receives heated seat switch signal from BCM. • Passenger seat control unit supplies power to seatback heater and cushion heater. • Refer to ADP-5, "Component Parts Location" for detailed installation location.
②	Upper control panel control unit (Heated seat switch)	Refer to SE-10, "Heated Seat Switch".
③	BCM	• BCM receives heated seat switch signal from upper control panel control unit (Heated seat switch) and transmits to seat control unit • Refer to BCS-8, "BODY CONTROL SYSTEM : Component Parts Location" for detailed installation location.
④	Driver seat control unit	• Driver seat control unit receives heated seat switch signal from BCM. • Driver seat control unit supplies power to seatback heater and cushion heater. • Refer to ADP-5, "Component Parts Location" for detailed installation location.
⑤	Seatback heater	Seatback heater warms the seatback with the power supply from seat control unit.
⑥	Cushion heater	Cushion heater warms the cushion with the power supply from seat control unit.

Lumbar Support Switch

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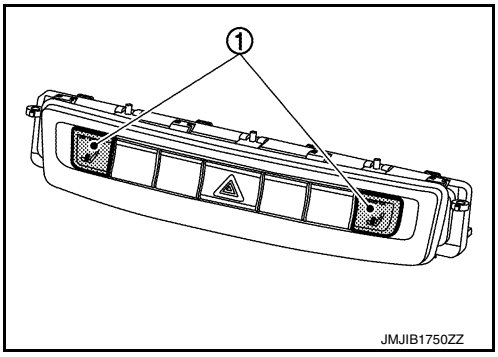
- Lumbar support switch transmits lumbar support switch signal to lumbar support control unit.
- Lumbar support switch is installed on seat cushion outside finisher.



Heated Seat Switch

INFOID:0000000013549025

- Heated seat switch ① is integrated with upper control panel control unit.
- Heated seat switch transmits heated seat switch signal to BCM.



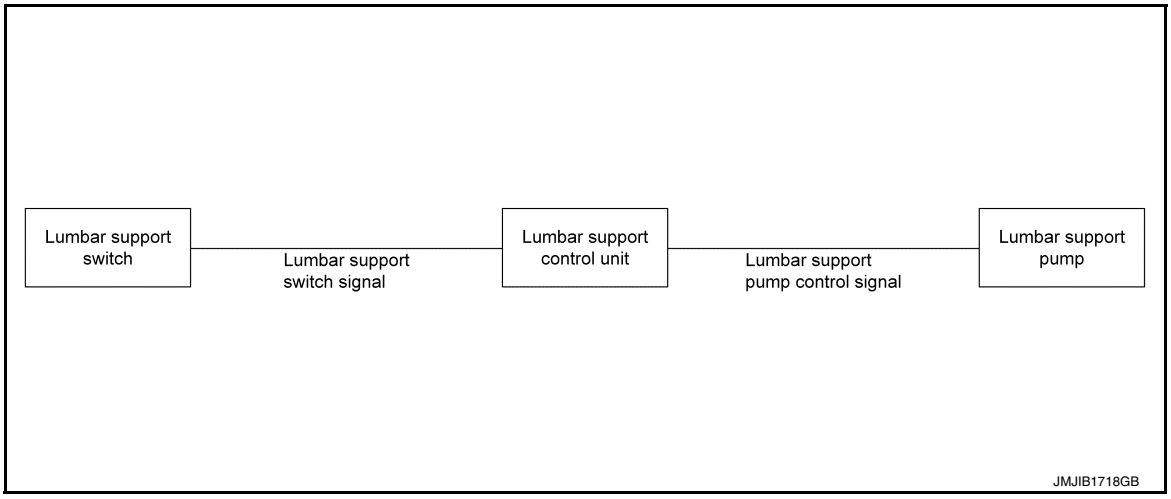
SYSTEM

LUMBAR SUPPORT SYSTEM

LUMBAR SUPPORT SYSTEM : System Description

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SYSTEM DIAGRAM



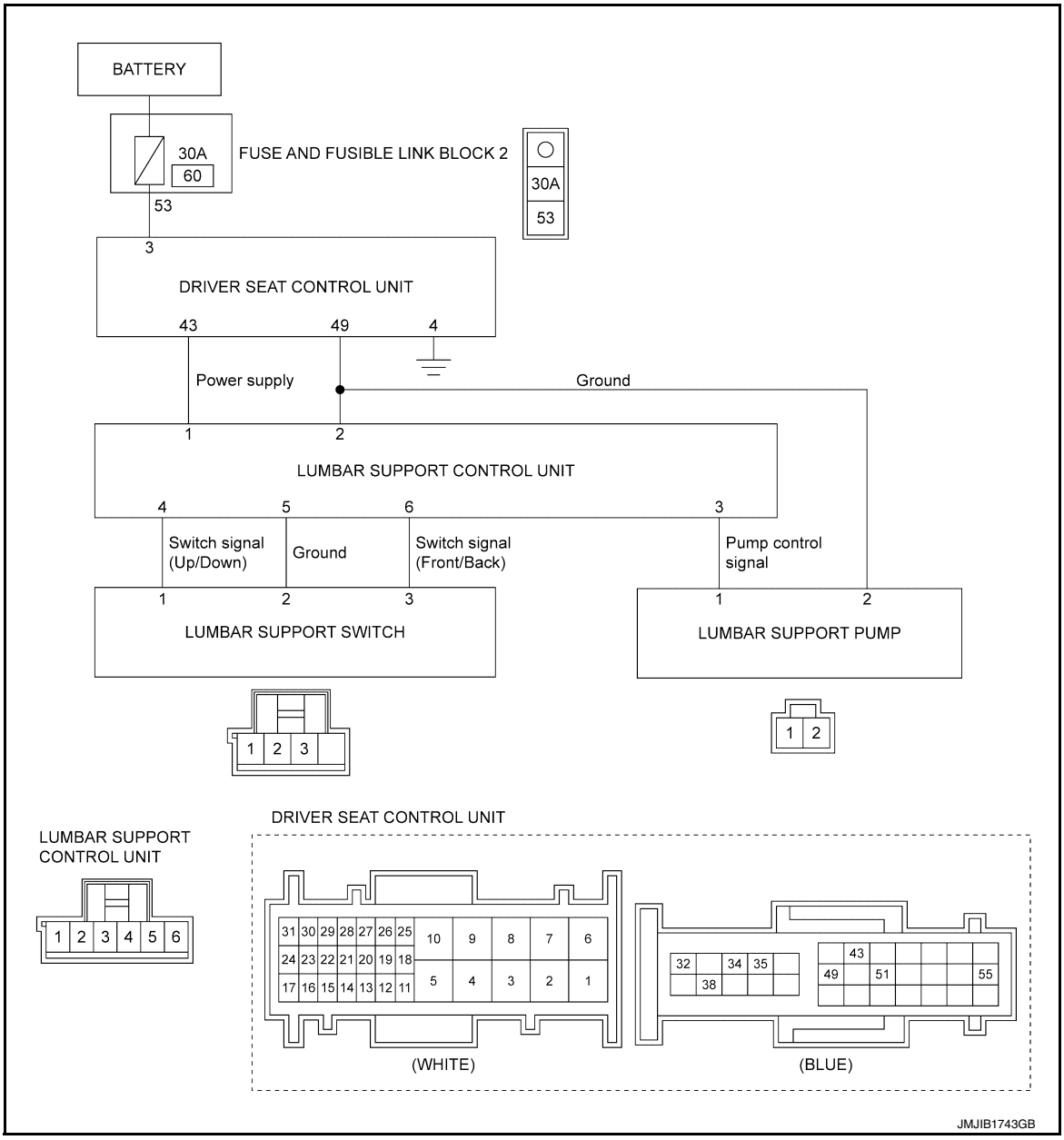
DESCRIPTION

- While operating the lumbar support switch, lumbar support switch transmits lumbar support switch signal to lumbar support control unit.
- Lumbar support control unit controls lumbar support pump to generate air supply and operates forward and backward movement of seatback by inflation or deflation lumbar support air cushion.

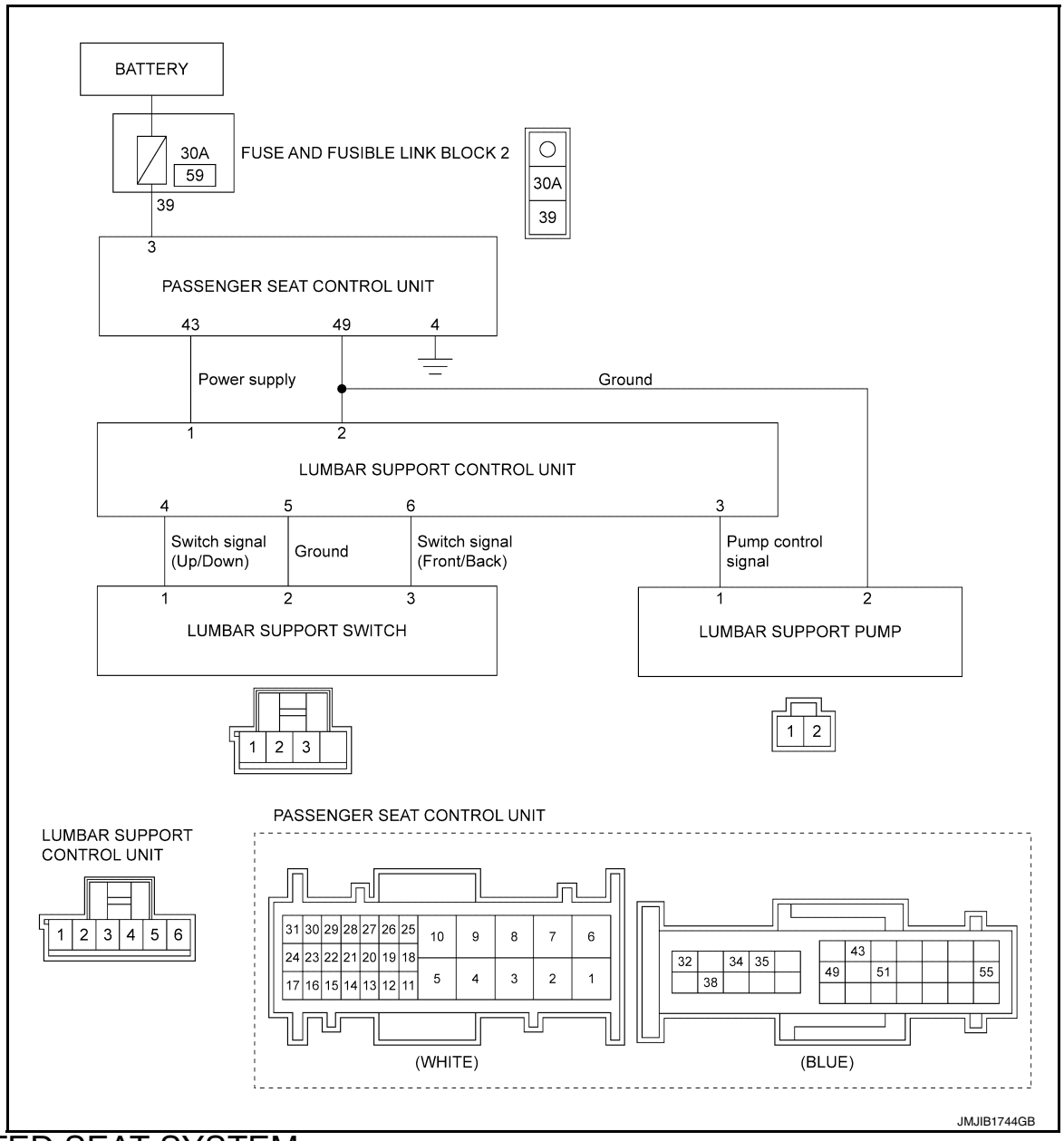
LUMBAR SUPPORT SYSTEM : Circuit Diagram

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DRIVER SIDE



PASSENGER SIDE

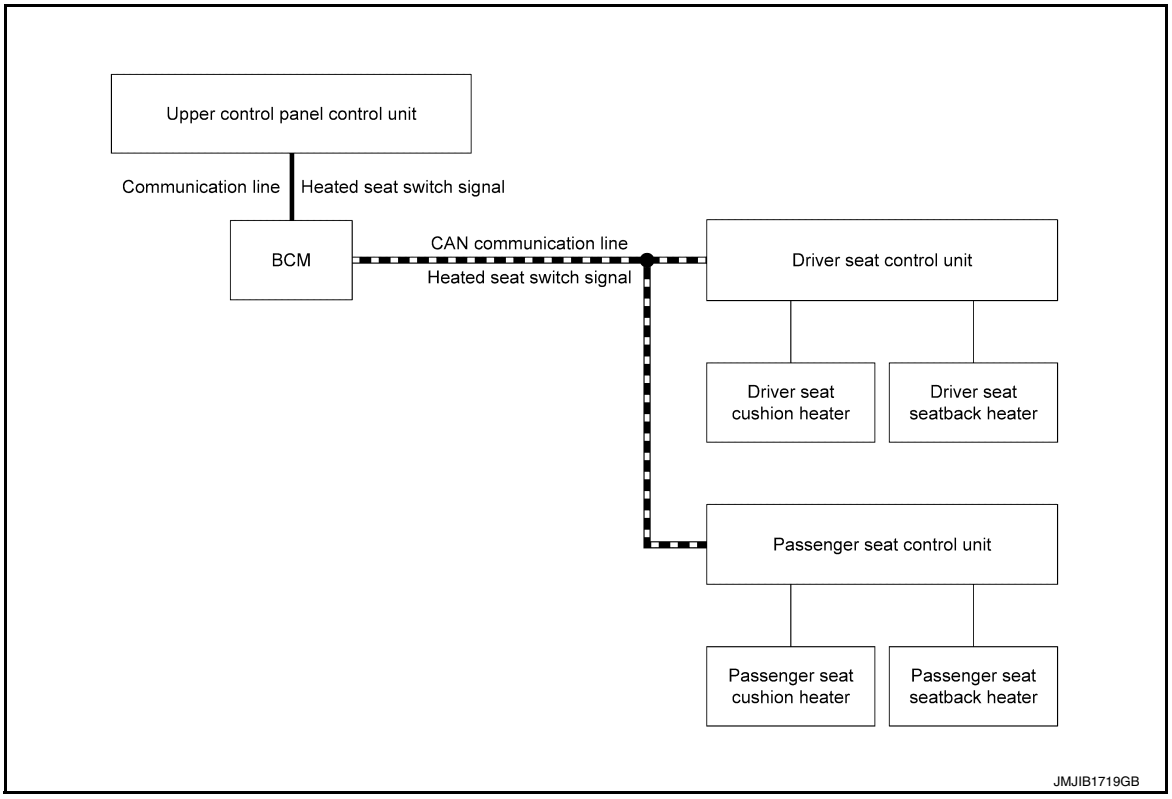


HEATED SEAT SYSTEM

HEATED SEAT SYSTEM : System Description

INFOID:0000000013549028

SYSTEM DIAGRAM



OUTLINE

Seat cushions and the seatback of the front seats can be heated in three heating levels.

Heated seat system includes the following sub functions:
- Function sequence for manually switching ON/OFF
- Function sequence for automatic switch OFF

FUNCTION SEQUENCE FOR MANUALLY SWITCHING ON/OFF

Operation occurs via heated seat switch in the upper control panel control unit. The status of the heated seat switch is received by the upper control panel control unit and sent to the BCM via LIN communication.
BCM transmits heated seat switch signal to driver seat control unit and passenger seat control unit via CAN communication.

Driver seat control unit actuates the following heaters:
- Driver seat cushion heater
- Driver seat seatback heater

Passenger seat control unit actuates the following heaters:
- Passenger seat cushion heater
- Passenger seat seatback heater

The heat output depends on the heating level that is selected using the heated seat switch. BCM actuates the indicator in the heated seat switch in the upper control panel control
- Press once: Heating stage 3 (100% heat output, 3 LEDs illuminated)
- Press 2 times: Heating stage 2 (70% heat output, 2 LEDs illuminated)
- Press 3 times: Heating stage 1 (40% heat output, 1 LEDs illuminated)
- Press 4 times: Heated seat switched OFF (no LEDs illuminated)

FUNCTION SEQUENCE FOR AUTOMATIC SWITCH OFF

The heated seat timer control is controlled by the driver seat control unit or the front passenger seat control unit.
- Heating stage 3 is active for 8 minutes. The system then automatically switches to heating stage 2.
- Heating stage 2 is active for 10 minutes. The system then automatically switches to heating stage 1.
- Heating stage 1 is active for 20 minutes. The system then automatically switches OFF.

Other Shutoff Criteria:

Ignition switch ACC → OFF:
- When ignition switch is turned from ACC to OFF, the timer control continues to run for 5 minutes. When ignition switch is switched to ACC, heated seat system also switches ON again.

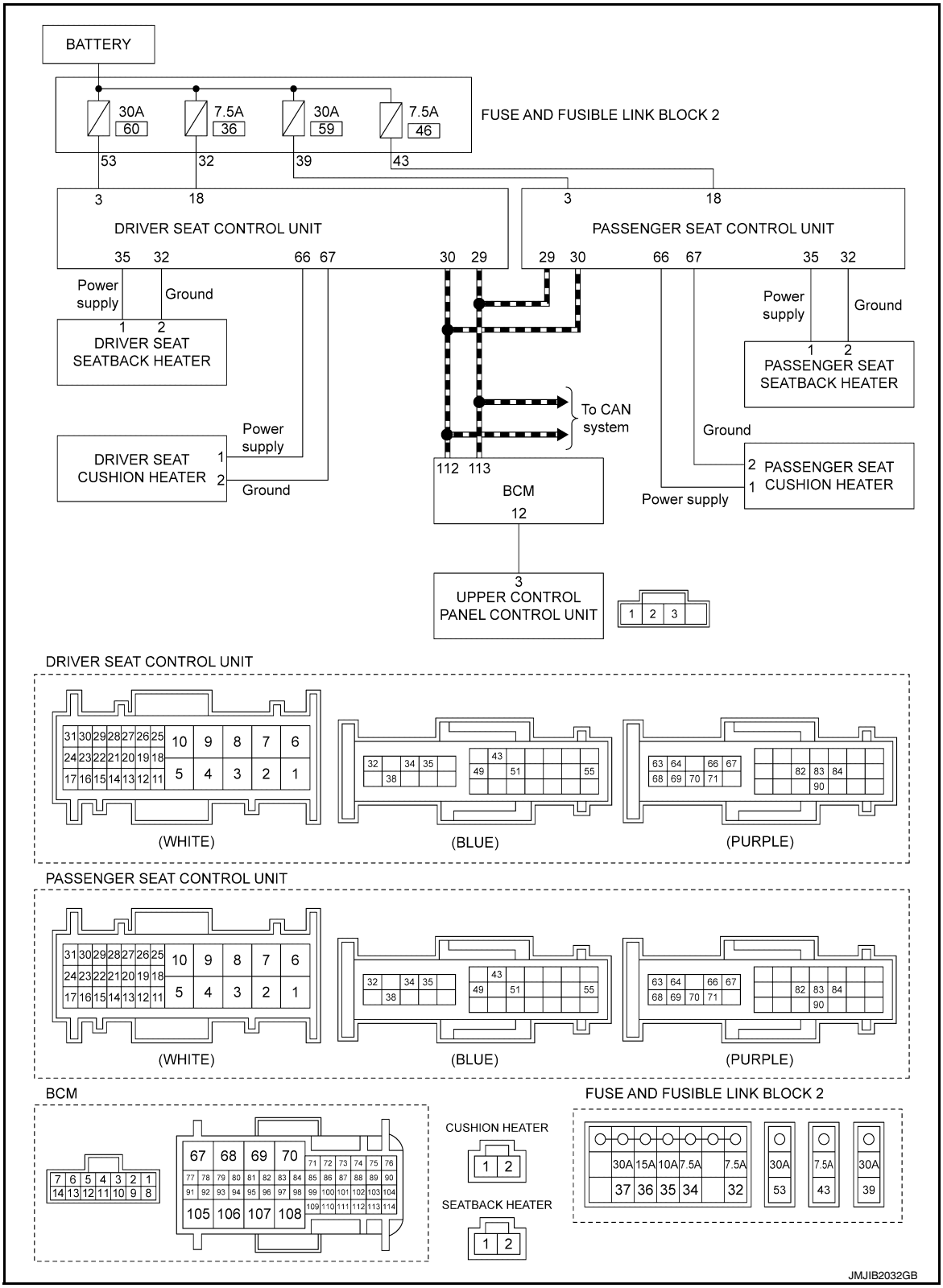
During engine starting procedure:
- Heated seat system is switched OFF, But the timer control continues to run, and the indicator remains switched ON.

Deactivation with under voltage or over voltage:
- If heated seat system is switched OFF due to on-board electrical system under voltage or over voltage, the indicator remains switched ON for 3 minutes. During these 3 minutes if on-board electrical system reaches its normal voltage, heated seat system is automatically reactivated. After these 3 minutes indicator switches OFF. If shutoff condition continues and heated seat switch is pressed again the indicator illuminates for 1.5 seconds and then turns OFF.

Shutoff for over temperature of PCBs in driver seat control unit or in front passenger seat control unit:
- Heating stage 3 can no longer be activated if the PCB temperature is over 90 °C (194 °F).
- Heating stage 3 and stage 2 can no longer be activated if the PCB temperature is over 100 °C (212 °F).
- The heated seat system can no longer be activated if the PCB temperature is over 110 °C (230 °F).

HEATED SEAT SYSTEM : Circuit Diagram

INFOID:0000000013549029



DIAGNOSIS SYSTEM (FRONT SEAT CONTROL UNIT)
DRIVER SIDE

DRIVER SIDE : CONSULT Function

INFOID:0000000013826848

The auto drive positioner system can be checked and diagnosed for component operation with CONSULT.

APPLICATION ITEMS

Diagnostic mode [AUTO DRIVE POS.]	Description
WORK SUPPORT	Changes the setting of each function.
SELF-DIAG RESULTS	Performs self-diagnosis for the auto drive positioner system and displays the results.
DATA MONITOR	Displays input signals transmitted from various switches and sensors to driver seat control unit in real time.
CAN DIAG SUPPORT MNTR	The result of transmit/receive diagnosis of CAN communication can be read.
ACTIVE TEST	Drive each output device.
ECU IDENTIFICATION	Displays part numbers of driver seat control unit parts.

SELF-DIAGNOSIS RESULTS

Refer to ADP-24, "DTC Index".

DATA MONITOR

NOTE:
The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

Monitor Item	Description
CRT SEAT FORE/AFT ADJUST	Value when battery connections are standard. If it moves backward, the value increases. If it moves forward, the value decreases.
CRT SEAT HEIGHT ADJUST	Value when battery connections are standard. If it moves DOWN, the value increases. If it moves UP, the value decreases.
CRT BACKREST ADJUST	Value when battery connections are standard. If it moves backward, the value increases. If it moves forward, the value decreases.
CRT SEAT INCLINATION ADJ	Value when battery connections are standard. If it moves DOWN, the value increases. If it moves UP, the value decreases.
CRT HEAD RESTRAINT ADJ	—
CRT SE CUSHION LENG ADJ	—
CRT STR CLM IN/OUT ADJ	—
CRT STR CLM UP/DOWN ADJ	—
EASY-ENTRY SYS FORWARD	—
EASY-ENTRY SYS BACK	—
NML SEAT FORE/AFT ADJUST	—
NML SEAT HEIGHT ADJUST	—
NML BACKREST ADJUST	—
NML SEAT INCLINATION ADJ	—
NML HEAD RESTRAINT ADJ	—
NML SE CUSHION LENG ADJ	—
NML STR CLM IN/OUT ADJ	—
NML STR CLM UP/DOWN ADJ	—
LONGITUDINAL ADJUSTMENT	—
HEIGHT ADJUSTMENT	—

Monitor Item	Description
MECHANIC CONSTANT	—
TILT ADJUST (HEIGHT FR)	—
NECKREST ADJUSTMENT	—
SEAT CUSHION LOWNESS	—
FORWARD/BACKWARD	—
HIGH/LOW	—
MAXI VALUE ADAPTIONBUFF	—
SOFTSTOP POS LA FRONT	—
SOFTSTOP POS LA BACK	—
SOFTSTOP POS HA ABOVE	—
USED VARIANT	—
IDENTIFIED VARIANT CAN	—

ACTIVE TEST

CAUTION:

When driving vehicle, do not perform active test.

Monitor Item	Description
Driver seat sliding motor	Activates/deactivates the sliding motor.
Driver seat lifting motor (rear)	Activates/deactivates the lifting motor (rear).
Driver seat lifting motor (front)	Activates/deactivates the lifting motor (front).
Driver seat headrest motor	**NOTE:** This item is displayed, but cannot be monitored
Driver seat reclining motor	Activates/deactivates the reclining motor.

WORK SUPPORT

Monitor Item	Description
NORMALIZATION	It initializes the value of each sensor.

PASSENGER SIDE

PASSENGER SIDE : CONSULT Function

INFOID:0000000013826849

The auto drive positioner system can be checked and diagnosed for component operation with CONSULT.

APPLICATION ITEMS

Diagnostic mode [Passenger seat control unit]	Description
WORK SUPPORT	Changes the setting of each function.
SELF-DIAG RESULTS	Performs self-diagnosis for the auto drive positioner system and displays the results.
DATA MONITOR	Displays input signals transmitted from various switches and sensors to passenger seat control unit in real time.
CAN DIAG SUPPORT MNTR	The result of transmit/receive diagnosis of CAN communication can be read.
ACTIVE TEST	Drive each output device.
ECU IDENTIFICATION	Displays part numbers of passenger seat control unit parts.

SELF-DIAGNOSIS RESULTS

Refer to ADP-30, "DTC Index".

DATA MONITOR

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

Monitor Item	Description
CRT SEAT FORE/AFT ADJUST	Value when battery connections are standard. If it moves backward, the value increases. If it moves forward, the value decreases.
CRT SEAT HEIGHT ADJUST	Value when battery connections are standard. If it moves DOWN, the value increases. If it moves UP, the value decreases.
CRT BACKREST ADJUST	Value when battery connections are standard. If it moves backward, the value increases. If it moves forward, the value decreases.
CRT SEAT INCLINATION ADJ	Value when battery connections are standard. If it moves DOWN, the value increases. If it moves UP, the value decreases.
CRT HEAD RESTRAINT ADJ	—
EASY-ENTRY SYS FORWARD	—
EASY-ENTRY SYS BACK	—
NML SEAT FORE/AFT ADJUST	—
NML SEAT HEIGHT ADJUST	—
NML BACKREST ADJUST	—
NML SEAT INCLINATION ADJ	—
NML HEAD RESTRAINT ADJ	—
LONGITUDINAL ADJUSTMENT	—
HEIGHT ADJUSTMENT	—
MECHANIC CONSTANT	—
TILT ADJUST (HEIGHT FR)	—
NECKREST ADJUSTMENT	—
FORWARD/BACKWARD	—
HIGH/LOW	—
MAXI VALUE ADAPTIONBUFF	—
SOFTSTOP POS LA FRONT	—
SOFTSTOP POS LA BACK	—
SOFTSTOP POS HA ABOVE	—
USED VARIANT	—
IDENTIFIED VARIANT CAN	—

ACTIVE TEST

CAUTION:

When driving vehicle, do not perform active test.

Monitor Item	Description
Front passenger seat sliding motor	Activates/deactivates the sliding motor.
Front passenger seat lifting motor (rear)	Activates/deactivates the lifting motor (rear).
Front passenger seat lifting motor (front)	Activates/deactivates the lifting motor (front).
Front passenger seat headrest motor	**NOTE:** This item is displayed, but cannot be monitored
Front passenger seat reclining motor	Activates/deactivates the reclining motor.

WORK SUPPORT

Monitor Item	Description
NORMALIZATION	It initializes the value of each sensor.

ECU DIAGNOSIS INFORMATION

BCM (BODY CONTROL MODULE)

List of ECU Reference

INFOID:0000000013549031

ECU	Reference
BCM	BCS-32, "Reference Value"
	BCS-50, "Fail-safe"
	BCS-51, "DTC Index"

DRIVER SEAT CONTROL UNIT

List of ECU Reference

INFOID:0000000013549032

ECU	Reference
Driver seat control unit	ADP-20, "Reference Value"
	ADP-24, "Fail-Safe"
	ADP-24, "DTC Index"

PASSENGER SEAT CONTROL UNIT

List of ECU Reference

INFOID:0000000013549033

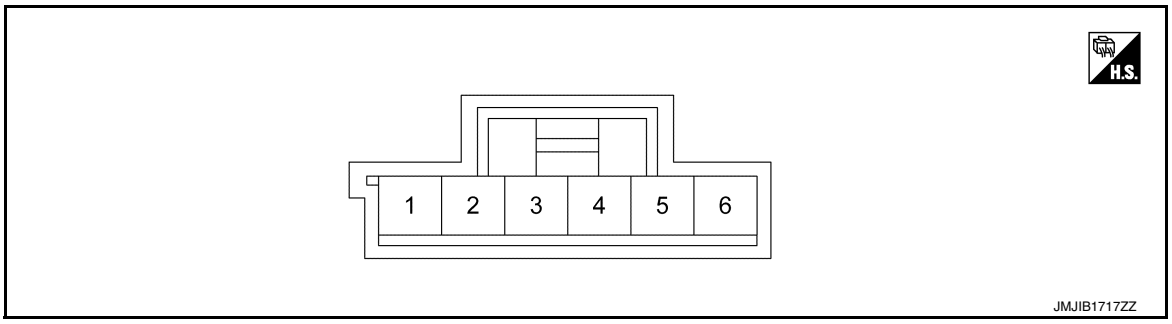
ECU	Reference
Passenger seat control unit	ADP-26, "Reference Value"
	ADP-30, "Fail-Safe"
	ADP-30, "DTC Index"

LUMBAR SUPPORT CONTROL UNIT

Reference Value

INFOID:0000000013549034

TERMINAL LAYOUT



PHYSICAL VALUES

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
1 (R)	Ground	Power supply	Input	Ignition switch OFF, ACC or ON		9 – 16 V
2 (B)	Ground	Ground	—	—		0 V
3 (Y)	Ground	Lumbar support pump control	Output	Lumbar support pump	Activate	12 V
					Other than above	0 V
4 (BR)	Ground	Lumbar support switch (UP/DOWN)	Input	Lumbar support switch	When pressing UP	7 V
					When pressing DOWN	5 V
					Other than above	12 V
5 (W)	Ground	Lumbar support switch ground	—	—		0 V
6 (L)	Ground	Lumbar support switch (FRONT/ BACK)	Input	Lumbar support switch	When pressing FRONT	7 V
					When pressing BACK	5 V
					Other than above	12 V

UPPER CONTROL PANEL CONTROL UNIT

List of ECU Reference

INFOID:0000000013549035

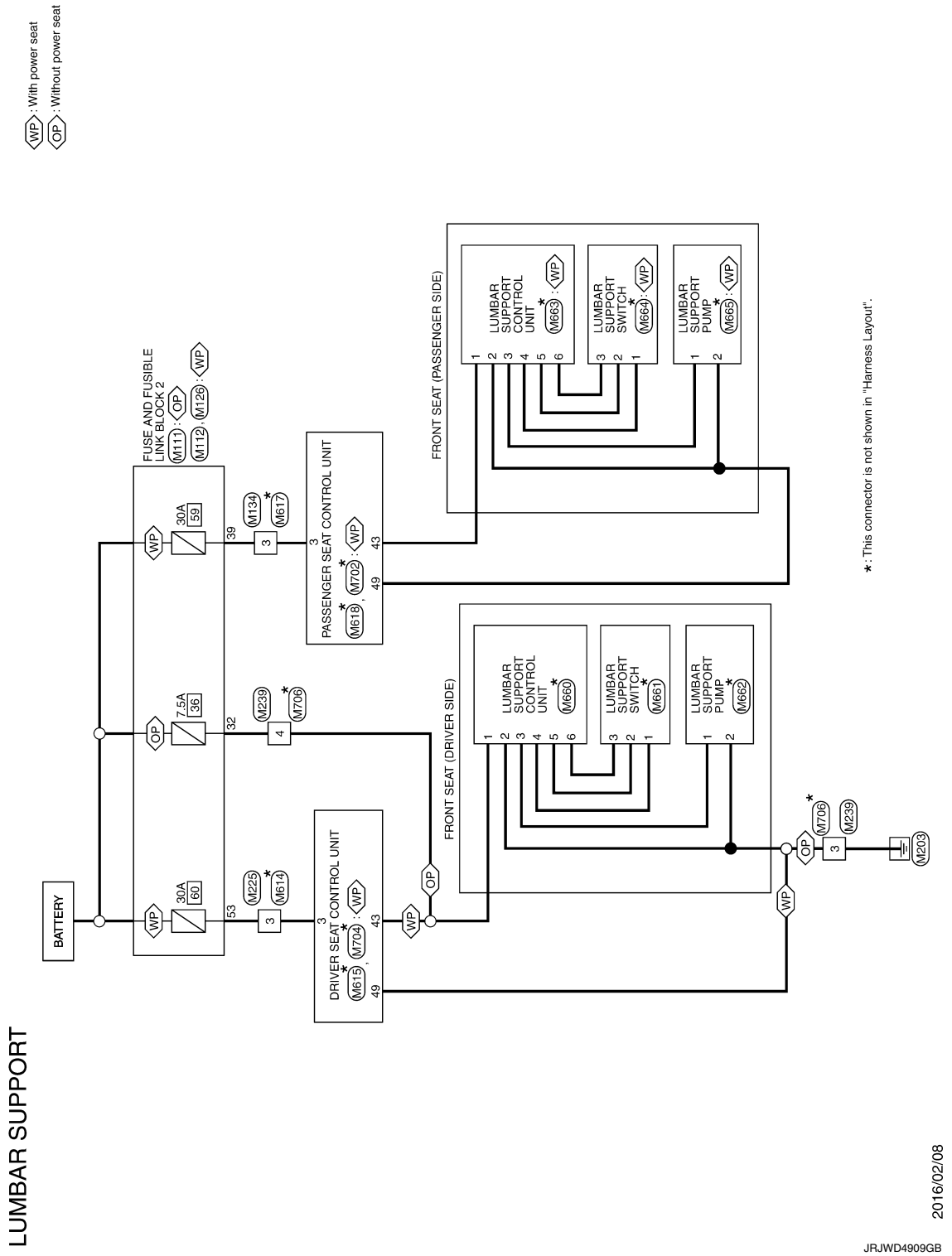
ECU	Reference
Upper control panel control unit	BCS-62, "Reference Value"

WIRING DIAGRAM

LUMBAR SUPPORT SYSTEM

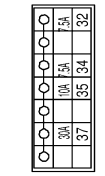
Wiring Diagram

INFOID:0000000013549036



LUMBAR SUPPORT

Connector No.	M111
Connector Name	FUSE AND FUSIBLE LINK BLOCK 2
Connector Type	MB_A0065450101



Terminal No.	Color Of Wire	Signal Name [Specification]
32	R	-
34	G	-
35	O	-
37	R	-

Connector No.	M112
Connector Name	FUSE AND FUSIBLE LINK BLOCK 2
Connector Type	MB_A0065450501

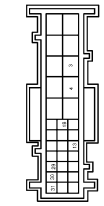
Terminal No.	Color Of Wire	Signal Name [Specification]
39	R	-

Connector No.	M126
Connector Name	FUSE AND FUSIBLE LINK BLOCK 2
Connector Type	MB_A0065454101



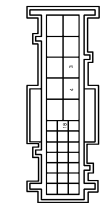
Terminal No.	Color Of Wire	Signal Name [Specification]
53	R	-

Connector No.	M134
Connector Name	WIRE TO WIRE
Connector Type	MB_A0085402081



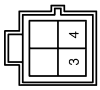
Terminal No.	Color Of Wire	Signal Name [Specification]
3	R	-
4	BR	-
13	BR	-
18	R	-
29	R	-
30	BR	-
31	O	-

Connector No.	M225
Connector Name	WIRE TO WIRE
Connector Type	MB_A0085402081



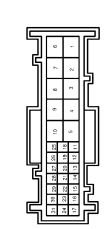
Terminal No.	Color Of Wire	Signal Name [Specification]
3	R	-
4	BR	-
18	R	-

Connector No.	M239
Connector Name	WIRE TO WIRE
Connector Type	MB_A2205454028



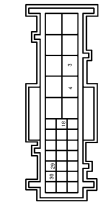
Terminal No.	Color Of Wire	Signal Name [Specification]
3	R	-
4	BR	-

Connector No.	M614
Connector Name	WIRE TO WIRE
Connector Type	MB_A0085402081



Terminal No.	Color Of Wire	Signal Name [Specification]
3	-	-
4	-	-
18	-	-
29	-	-
30	-	-

Connector No.	M615
Connector Name	DRIVER SEAT CONTROL UNIT
Connector Type	A2465400509



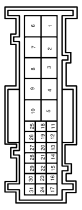
Terminal No.	Color Of Wire	Signal Name [Specification]
3	R	BATTERY POWER SUPPLY
4	BR	GROUND
18	R	BATTERY POWER SUPPLY
29	R	CAN-H
30	BR	CAN-L

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LUMBAR SUPPORT

Connector No.	M617
Connector Name	WIRE TO WIRE
Connector Type	MB_A0085402081

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
3	-	-
4	-	-
13	-	-
18	-	-
29	-	-
30	-	-
31	-	-

Connector No.	M618
Connector Name	PASSENGER SEAT CONTROL UNIT
Connector Type	A0085402281

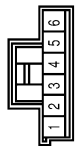
H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
3	R	BATTERY POWER SUPPLY
4	BR	GROUND
13	BR	GROUND
18	R	BATTERY POWER SUPPLY
29	R	CAN-H
30	BR	CAN-L
31	-	-

Connector No.	M660
Connector Name	LUMBAR SUPPORT CONTROL UNIT
Connector Type	A038554457128

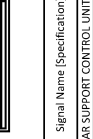
H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	LUMBAR SUPPORT CONTROL UNIT POWER
2	B	GND
3	Y	LUMBAR SUPPORT PUMP CONT
4	BR	LUMBAR SUPPORT SW SIG (UP/DOWN)
5	W	LUMBAR SUPPORT SW GND
6	L	LUMBAR SUPPORT SW SIG (FRONT/BACK)

Connector No.	M661
Connector Name	LUMBAR SUPPORT SWITCH
Connector Type	A0255451926

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-

Connector No.	M662
Connector Name	LUMBAR SUPPORT PUMP
Connector Type	A0375455928

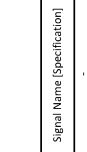
H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	-	-
2	-	-

Connector No.	M663
Connector Name	LUMBAR SUPPORT CONTROL UNIT
Connector Type	A038554457128

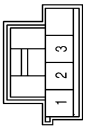
H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	LUMBAR SUPPORT CONTROL UNIT POWER
2	B	GND
3	Y	LUMBAR SUPPORT PUMP CONT
4	BR	LUMBAR SUPPORT SW SIG (UP/DOWN)
5	W	LUMBAR SUPPORT SW GND
6	L	LUMBAR SUPPORT SW SIG (FRONT/BACK)

Connector No.	M664
Connector Name	LUMBAR SUPPORT SWITCH
Connector Type	A0255451926

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-

Connector No.	M665
Connector Name	LUMBAR SUPPORT PUMP
Connector Type	A0375455928

H.S.



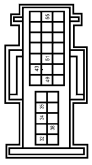
Terminal No.	Color Of Wire	Signal Name [Specification]
1	-	-
2	-	-

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LUMBAR SUPPORT

Connector No.	M702
Connector Name	PASSENGER SEAT CONTROL UNIT
Connector Type	A0085402181

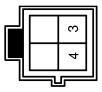
H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
32	BR	SEAT HEATER GROUND
34	GR	RECLINING MOTOR POWER SUPPLY (BACKWARD)
35	B	SEAT HEATER POWER SUPPLY
38	L	RECLINING MOTOR POWER SUPPLY (FORWARD)
43	R	LAMBER SUPORT POWER SUPPLY
49	B	LAMBER SUPORT GROUND
51	BR	RECLINING SENSOR GROUND
55	B	RECLINING SENSOR POWER SUPPLY

Connector No.	M706
Connector Name	WIRE TO WIRE
Connector Type	A0285459728

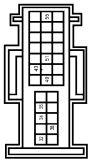
H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
3	-	-
4	-	-

Connector No.	M704
Connector Name	DRIVER SEAT CONTROL UNIT
Connector Type	A0085402181

H.S.



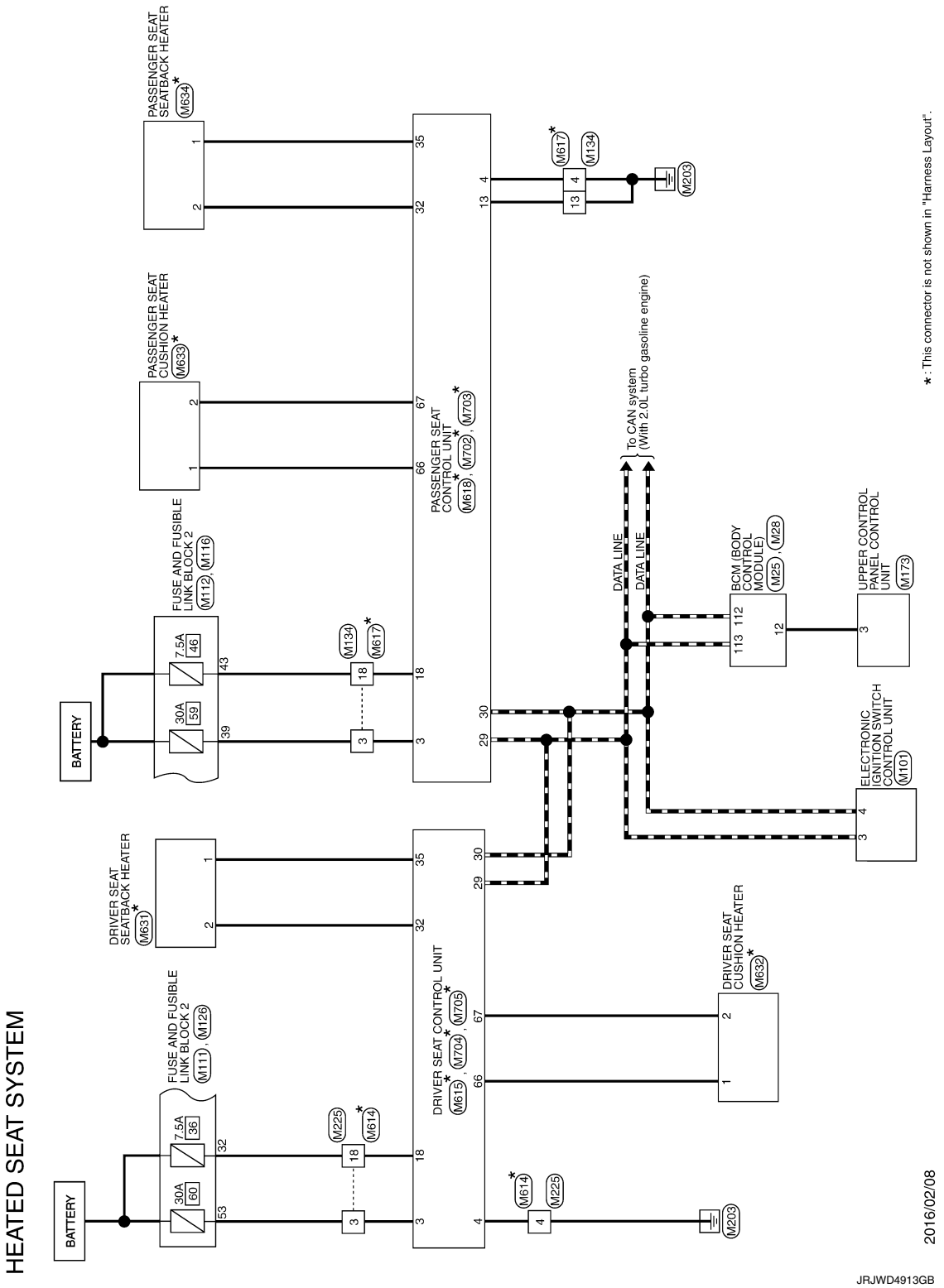
Terminal No.	Color Of Wire	Signal Name [Specification]
32	BR	SEAT HEATER GROUND
34	GR	RECLINING MOTOR POWER SUPPLY (BACKWARD)
35	B	SEAT HEATER POWER SUPPLY
38	L	RECLINING MOTOR POWER SUPPLY (FORWARD)
43	R	LAMBER SUPORT POWER SUPPLY
49	B	LAMBER SUPORT GROUND
51	BR	RECLINING SENSOR GROUND
55	B	RECLINING SENSOR POWER SUPPLY

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HEATED SEAT SYSTEM

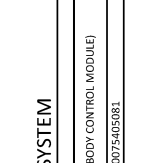
Wiring Diagram

INFOID:0000000013549037



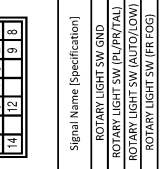
HEATED SEAT SYSTEM

Connector No.	M25
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	MB_A0075405081



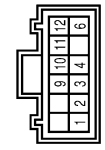
Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	ROTARY LIGHT SW GND
2	O	ROTARY LIGHT SW (PU_PR/TAL)
3	R	ROTARY LIGHT SW (AUTO/LOW)
4	G	ROTARY LIGHT SW (FR FOG)
5	Y	-
7	GR	SWITCH INDICATOR
8	R	CAN-H (BODY 2)
9	BR	CAN-L (BODY 2)
12	O	LIN (IBS)
14	G	FOOT LAMP

Connector No.	M28
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	MB_A1665400481



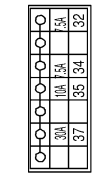
Terminal No.	Color Of Wire	Signal Name [Specification]
67	V	BACK DOOR UNLOCK
69	GR	STOP LAMP (BODY RH)
70	B	REAR TURN SIGNAL LH
71	GR	BACK-UP LAMP RH
72	Y	LICENSE PLATE LAMP RH
73	L	RR POWER WINDOW SW RH UP
74	B	RR POWER WINDOW SW RH DOWN
75	L	RR POWER WINDOW SW RH GND
76	GR	HALL SENSOR RH POWER SUPPLY
77	R	SUB BAT-
78	B	TERMINAL RELAY 15R1 CONT
80	B	REAR WIPER RELAY CONT
82	GR	TAIL LAMP (BODY LH)
83	P	TERMINAL RELAY 15R2 CONT
85	B	TAIL LAMP (BK LH)
87	R	BAT (VIA LATCHING TERMINAL RELAY 30G)
89	O	HALL SENSOR RH GND
90	V	HALL SENSOR RH SIGNAL
91	P	FUEL LEVEL SENSOR GND
92	L	FUEL LEVEL SENSOR
93	GR	FUEL LEVEL SENSOR
94	Y	FUEL FILLER LID STATUS
97	G	LATCHING TERMINAL RELAY 30G CONT 1
98	B	LATCHING TERMINAL RELAY 30G GND 1
99	W	LATCHING TERMINAL RELAY 30G GND 2
100	V	LATCHING TERMINAL RELAY 30G CONT 2
101	Y	REAR DOOR INSIDE HANDLE LAMP CONT
102	GR	AMBIENT LAMP CONT
103	V	SUB BAT RELAY CONT
105	G	RR DOOR LH UNLOCK
106	W	FUEL FILLER LID UNLOCK
107	L	RR DOOR LH LOCK
108	R	SUB BAT+
109	O	LIN (ROOF)
112	BR	CAN-L (BODY 1)
113	R	CAN-H (BODY 1)
114	B	INJECTION RELAY CONT

Connector No.	M101
Connector Name	ELECTRONIC IGNITION SWITCH CONTROL UNIT
Connector Type	MB_A0265458426



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	CHASSIS CAN-L
2	W	CHASSIS CAN-H
3	R	BODY CAN 1-H
4	BR	BODY CAN 1-L
6	W	STEERING LOCK OPERATION
9	GR	REMOTE KEYLESS
10	W	POWER SUPPLY
11	BR	DIAGNOSTIC CAN-L
12	L	DIAGNOSTIC CAN-H

Connector No.	M111
Connector Name	FUSE AND FUSIBLE LINK BLOCK 2
Connector Type	MB_A0065450101



Terminal No.	Color Of Wire	Signal Name [Specification]
32	R	-
34	G	-
35	O	-
37	R	-

Connector No.	M112
Connector Name	FUSE AND FUSIBLE LINK BLOCK 2
Connector Type	MB_A0065450501



Terminal No.	Color Of Wire	Signal Name [Specification]
39	R	-

Connector No.	M116
Connector Name	FUSE AND FUSIBLE LINK BLOCK 2
Connector Type	MB_A0065451001



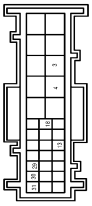
Terminal No.	Color Of Wire	Signal Name [Specification]
43	R	-

Connector No.	M126
Connector Name	FUSE AND FUSIBLE LINK BLOCK 2
Connector Type	MB_A0065454101



Terminal No.	Color Of Wire	Signal Name [Specification]
53	R	-

Connector No.	M134
Connector Name	WIRE TO WIRE
Connector Type	MB_A0085402081



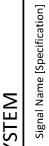
JRJWD4914GB

HEATED SEAT SYSTEM

Terminal No.	Color Of Wire	Signal Name [Specification]
3	R	-
4	BR	-
13	BR	-
18	R	-
29	R	-
30	BR	-
31	O	-

Connector No.	M173
Connector Name	UPPER CONTROL PANEL CONTROL UNIT
Connector Type	MB_A0385451228

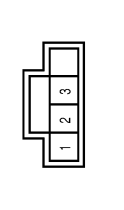
H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	PWR SPLY
2	BR	GND
3	O	LIN

Connector No.	M225
Connector Name	WIRE TO WIRE
Connector Type	MB_A0085402081

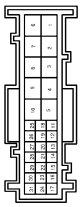
H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
3	R	-
4	BR	-
18	R	-

Connector No.	M614
Connector Name	WIRE TO WIRE
Connector Type	MB_A0085402081

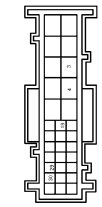
H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
3	-	-
4	-	-
18	-	-
29	-	-
30	-	-

Connector No.	M615
Connector Name	DRIVER SEAT CONTROL UNIT
Connector Type	A2465400509

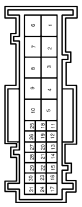
H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
3	R	BATTERY POWER SUPPLY
4	BR	GROUND
18	R	BATTERY POWER SUPPLY
29	R	CAN-H
30	BR	CAN-L

Connector No.	M617
Connector Name	WIRE TO WIRE
Connector Type	MB_A0085402081

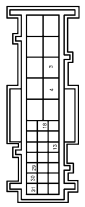
H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
3	-	-
4	-	-
13	-	-
18	-	-
29	-	-
30	-	-
31	-	-

Connector No.	M618
Connector Name	PASSENGER SEAT CONTROL UNIT
Connector Type	A0085402281

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
3	R	BATTERY POWER SUPPLY
4	BR	GROUND
13	BR	GROUND
18	R	BATTERY POWER SUPPLY
29	R	CAN-H
30	BR	CAN-L
31	-	-

Connector No.	M631
Connector Name	DRIVER SEAT SEATBACK HEATER
Connector Type	A2205455528

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	-	-
2	-	-

Connector No.	M632
Connector Name	DRIVER SEAT CUSHION HEATER
Connector Type	A2205455528

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	-	-
2	-	-

JRJWD4915GB

HEATED SEAT SYSTEM

Connector No.	M633
Connector Name	PASSENGER SEAT CUSHION HEATER
Connector Type	A2205455528

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	-	-
2	-	-

Connector No.	M634
Connector Name	PASSENGER SEAT SEATBACK HEATER
Connector Type	A2205455528

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	-	-
2	-	-

Connector No.	M702
Connector Name	PASSENGER SEAT CONTROL UNIT
Connector Type	A0085402181

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
32	BR	SEAT HEATER GROUND
34	GR	RECLINING MOTOR POWER SUPPLY (BACKWARD)
35	B	SEAT HEATER POWER SUPPLY
38	L	RECLINING MOTOR POWER SUPPLY (FORWARD)
43	R	LAMBER SUPORT POWER SUPPLY
49	B	LAMBER SUPORT GROUND
51	BR	RECLINING SENSOR GROUND
55	B	RECLINING SENSOR POWER SUPPLY

Connector No.	M703
Connector Name	PASSENGER SEAT CONTROL UNIT
Connector Type	A0085402181

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
63	L	SLIDING MOTOR POWER SUPPLY (FORWARD)
64	GR	LIFTING MOTOR (REAR) POWER SUPPLY (DOWNWARD)
66	B	SEAT HEATER POWER SUPPLY
67	BR	SEAT HEATER GROUND
68	GR	LIFTING MOTOR (FRONT) POWER SUPPLY (DOWNWARD)
69	R	SLIDING MOTOR POWER SUPPLY (BACKWARD)
70	W	LIFTING MOTOR (FRONT) POWER SUPPLY (UPWARD)
71	V	LIFTING MOTOR (REAR) POWER SUPPLY (UPWARD)
82	Y	LIFTING SENSOR (FRONT) POWER SUPPLY
83	P	LIFTING SENSOR (REAR) POWER SUPPLY
84	O	SLIDING SENSOR POWER SUPPLY
90	BR	SENSOR GROUND

Connector No.	M704
Connector Name	DRIVER SEAT CONTROL UNIT
Connector Type	A0085402181

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
32	BR	SEAT HEATER GROUND
34	GR	RECLINING MOTOR POWER SUPPLY (BACKWARD)
35	B	SEAT HEATER POWER SUPPLY
38	L	RECLINING MOTOR POWER SUPPLY (FORWARD)
43	R	LAMBER SUPORT POWER SUPPLY
49	B	LAMBER SUPORT GROUND
51	BR	RECLINING SENSOR GROUND
55	B	RECLINING SENSOR POWER SUPPLY

Connector No.	M705
Connector Name	DRIVER SEAT CONTROL UNIT
Connector Type	A0085402181

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
63	L	SLIDING MOTOR POWER SUPPLY (FORWARD)
64	GR	LIFTING MOTOR (REAR) POWER SUPPLY (DOWNWARD)
66	B	SEAT HEATER POWER SUPPLY
67	BR	SEAT HEATER GROUND
68	GR	LIFTING MOTOR (FRONT) POWER SUPPLY (DOWNWARD)
69	R	SLIDING MOTOR POWER SUPPLY (BACKWARD)
70	W	LIFTING MOTOR (FRONT) POWER SUPPLY (UPWARD)
71	V	LIFTING MOTOR (REAR) POWER SUPPLY (UPWARD)
82	Y	LIFTING SENSOR (FRONT) POWER SUPPLY
83	P	LIFTING SENSOR (REAR) POWER SUPPLY
84	O	SLIDING SENSOR POWER SUPPLY
90	BR	SENSOR GROUND

JRJWD4916GB

DTC/CIRCUIT DIAGNOSIS

B108A SEAT HEATER

DTC Description

INFOID:0000000013549040

DTC DETECTION LOGIC

DTC		CONSULT screen items		DTC detecting condition	
		(Trouble diagnosis content)	[Malfunction type]		
B108A	16	Seat heater (Seat heater)	[CIRC VOLT BELOW THRESHOLD]	Diagnosis condition	Ignition switch ACC and heated seat system is activated
				Signal (terminal)	–
				Threshold	Sub battery voltage is below 9.3 V
				Diagnosis delay time	15 sec
	17		[CIRC VOLT ABOVE THRESHOLD]	Diagnosis condition	Ignition switch ACC and heated seat system is activated
				Signal (terminal)	–
				Threshold	Sub battery voltage is over 16 V
				Diagnosis delay time	15 sec
	97		[CMPNENT OR SYSTEM OPERATION OBSTRUCTED OR BLOCKED]	Diagnosis condition	Ignition switch ACC and heated seat system is activated
				Signal (terminal)	Sub battery relay status signal
				Threshold	Sub battery relay remains open.
				Diagnosis delay time	–
	9A		[OPERATING CONDITIONS]	Diagnosis condition	All times
				Signal (terminal)	–
				Threshold	BCM did not receive the signal from electronic ignition switch control unit in the specific time when heated seat system is activated.
				Diagnosis delay time	–

POSSIBLE CAUSE

- BCM
- Electronic ignition switch control unit
- Sub battery
- Sub battery relay
- CAN communication

FAIL-SAFE

–

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ACC.
2. Activate heated seat system.

Is DTC detected?

YES >> Refer to SE-35, "Diagnosis Procedure".

NO-1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000013549041

DTC “B108A-16”

1.CHECK SELF DIAGNOSTIC RESULT

1. Turn ignition switch ON.
2. Check DTC using CONSULT.

What is the display history of DTC “B108A-16”?

“PAST” >> GO TO 2.
“CRNT”>> GO TO 3.

2.ERASE DTC

1. Select “Self Diagnostic Result” mode of “BCM” using CONSULT.
2. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to SE-34, "DTC Description".

Is DTC “B108A-16” detected?

YES >> GO TO 3.
NO >> Check intermittent incident. Refer to GI-56, "Intermittent Incident".

3.CHECK SUB BATTERY VOLTAGE

1. Turn ignition switch OFF.
2. Measure sub battery voltage.

Is the inspection result normal?

YES >> GO TO 4.
NO >> Perform sub battery inspection. Refer to PG-104, "SUB BATTERY : Work Procedure".

4.CHECK FUSE

Check that the following fuse is not blown (open).

Signal name	Fuse No.
Sub battery power supply	26 (10 A)

Is the fuse blown (open)?

YES >> Replace the blown (open) fuse after repairing the affected circuit if a fuse is blown (open).
NO >> GO TO 5.

5.CHECK BCM POWER SUPPLY CIRCUIT

1. Disconnect BCM connector.
2. Check voltage between BCM harness connector and ground.

(+)		(–)	Voltage (Approx.)
BCM			
Connector	Terminal		
M28	77	Ground	9 -16 V
	108		

Is the inspection result normal?

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

6.CHECK BCM GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

BCM		—	Continuity
Connector	Terminal		
M26	18	Ground	Existed
E14	118		

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-56, "Intermittent Incident".
NO >> Repair or replace harness.

DTC “B108A-17”

1.CHECK SELF DIAGNOSTIC RESULT

1. Turn ignition switch ON.
2. Check DTC using CONSULT.

What is the display history of DTC “B108A-17”?

“PAST” >> GO TO 2.
“CRNT”>> GO TO 3.

2.ERASE DTC

1. Select “Self Diagnostic Result” mode of “BCM” using CONSULT.
2. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to SE-34, "DTC Description".

Is DTC “B108A-17” detected?

YES >> GO TO 3.
NO >> Check intermittent incident. Refer to GI-56, "Intermittent Incident".

3.CHECK BATTERY VOLTAGE

1. Turn ignition switch OFF.
2. Measure sub battery voltage.

Is the inspection result normal?

YES >> GO TO 4.
NO >> Perform sub battery inspection. Refer to PG-104, "SUB BATTERY : Work Procedure".

4.CHECK BCM POWER SUPPLY CIRCUIT

1. Disconnect BCM connector.
2. Check voltage between BCM harness connector and ground.

(+)		(–)	Voltage (Approx.)
BCM			
Connector	Terminal		
M28	77	Ground	9 -16 V
	108		

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-248, "Removal and Installation".
NO >> Repair or replace harness.

DTC “B108A-97”

1.CHECK SUB BATTERY RELAY

1. Turn ignition switch OFF.
2. Remove sub battery relay.
3. Check sub battery relay.

Is the inspection result normal?

YES >> GO TO 2.
NO >> Replace sub battery relay.

2.CHECK SUB BATTERY RELAY CIRCUIT 1

Check voltage between sub battery relay harness connector and ground.

(+)		(−)	Voltage (Approx.)
Sub battery relay			
Connector	Terminal		
M303	4	Ground	9 -16 V

Is the inspection result normal?

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

3.CHECK SUB BATTERY RELAY CIRCUIT 2

1. Disconnect BCM connector.
2. Check continuity between BCM harness connector and sub battery relay harness connector.

BCM		Sub battery relay		Continuity
Connector	Terminal	Connector	Terminal	
M28	103	M304	2	Existed

3. Check continuity between BCM harness connector and ground.

BCM		—	Continuity
Connector	Terminal		
M28	103	Ground	Not existed

Is the inspection result normal?

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

4.CHECK SUB BATTERY RELAY CIRCUIT 3

Check continuity between sub battery relay harness connector and ground.

Sub battery relay		—	Continuity
Connector	Terminal		
M304	1	Ground	Existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-248, "Removal and Installation".
NO >> Repair or replace harnesses.

DTC “B108A-9A”

1.CHECK DTC WITH ELECTRONIC IGNITION SWITCH CONTROL UNIT

Check that DTC is not detected with electronic ignition switch control unit.

Is the inspection result normal?

YES >> GO TO 2.
NO >> Refer to PCS-12, "DTC Index".

2.CHECK CAN COMMUNICATION SYSTEM DIAGNOSIS

Perform the trouble diagnosis for CAN communication system. Refer to LAN-58, "Trouble Diagnosis Flow Chart".

Is the inspection result normal?

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

3.REPLACE ELECTRONIC IGNITION SWITCH CONTROL UNIT AND ERASE DTC

1. Turn ignition switch OFF.
2. Replace electronic ignition switch control unit. Refer to PCS-47, "Removal and Installation".

3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of BCM” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to SE-34, "DTC Description".

Is DTC “B108A-9A” detected?

YES >> Replace BCM. Refer to BCS-248, "Removal and Installation".
NO >> INSPECTION END

B1091 SEAT HEATER LH

DTC Description

INFOID:0000000013549042

DTC DETECTION LOGIC

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	DTC detecting condition	
B1091	18	Heat mat (fl seat) [Heat mat (front left seat)]	[CIRC CURRENT BELOW THRESHOLD]	Diagnosis condition	Ignition switch ACC and heated seat system is activated
				Signal (terminal)	–
				Threshold	Current is below 1 A
				Diagnosis delay time	360 ms
	19		[CIRC CURRENT ABOVE THRESHOLD]	Diagnosis condition	Ignition switch ACC and heated seat system is activated
				Signal (terminal)	–
				Threshold	Current is over 16 A
				Diagnosis delay time	360 ms
	63		[CIRC/COMPNT PROTECTION TIMEOUT]	Diagnosis condition	Ignition switch ACC and heated seat system is activated
				Signal (terminal)	–
				Threshold	Overload current at the heater is detected, but no short circuit.
				Diagnosis delay time	360 ms

POSSIBLE CAUSE

- Driver seat seatback heater
- Driver seat cushion heater
- Driver seat control unit
- Harness between heater and seat control unit

FAIL-SAFE

–

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ACC.
2. Activate heated seat system.

Is DTC detected?

YES >> Refer to SE-39, "Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000013549043

DTC “B1091-18”

1.CHECK SEATBACK HEATER CIRCUIT AND CUSHION HEATER CIRCUIT 1

1. Disconnect driver seat control unit connector, driver seat seatback heater connector and driver seat cushion heater connector.
2. Check continuity between driver seat control unit harness connector and driver seat seatback heater harness connector.

Driver seat control unit		Driver seat seatback heater		Continuity
Connector	Terminal	Connector	Terminal	
M704	32	B624	2	Existed

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

Driver seat control unit		Driver seat cushion heater		Continuity
Connector	Terminal	Connector	Terminal	
M705	67	B619	2	Existed

Is the inspection result normal?

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

2.CHECK SEATBACK HEATER CIRCUIT AND CUSHION HEATER CIRCUIT 2

1. Check voltage between driver seat seatback heater harness connector and ground.

(+)		(–)	Voltage (Approx.)
Driver seat seatback heater			
Connector	Terminal		
B624	2	Ground	0 V

2. Check voltage between driver seat cushion heater harness connector and ground.

(+)		(–)	Voltage (Approx.)
Driver seat cushion heater			
Connector	Terminal		
B619	2	Ground	0 V

Is the inspection result normal?

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

3.REPLACE DRIVER SEAT SEATBACK HEATER AND ERASE DTC

1. Turn ignition switch OFF.
2. Replace seatback. Refer to SE-67, "SEATBACK : Disassembly and Assembly".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “BCM” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to SE-39, "DTC Description".

Is DTC “B1091-18” detected?

YES >> Replace seat cushion. Refer to SE-74, "SEAT CUSHION : Disassembly and Assembly".
NO >> INSPECTION END

DTC “B1091-19”

1.CHECK SEATBACK HEATER CIRCUIT AND CUSHION HEATER CIRCUIT

1. Disconnect driver seat control unit connector, driver seat seatback heater connector and driver seat cushion heater connector.
2. Check continuity between driver seat control unit harness connector and ground.

Driver seat control unit		—	Continuity
Connector	Terminal		
M704	35	Ground	Not existed
M705	66		

Is the inspection result normal?

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

2.REPLACE DRIVER SEAT SEATBACK HEATER AND ERASE DTC

1. Turn ignition switch OFF.
2. Replace seatback. Refer to SE-67, "SEATBACK : Disassembly and Assembly".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “BCM” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to SE-39, "DTC Description".

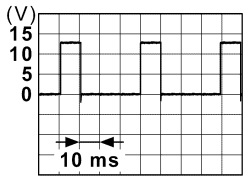
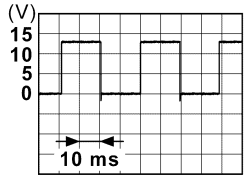
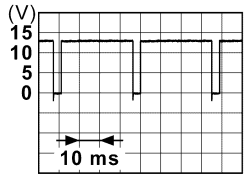
Is DTC “B1091-19” detected?

YES >> Replace seat cushion. Refer to SE-74, "SEAT CUSHION : Disassembly and Assembly".
NO >> INSPECTION END

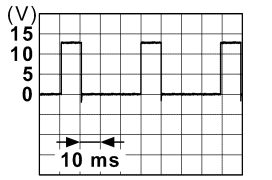
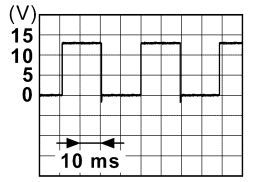
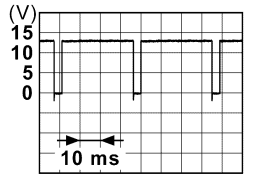
DTC “B1091-63”

1.CHECK SEAT CONTROL UNIT OUTPUT

1. Disconnect driver seat seatback heater connector and driver seat cushion heater connector.
2. Check voltage between driver seat seatback heater harness connector and ground.

(+)		(–)	Test item		Voltage (Approx.)
Driver seat seatback heater					
Connector	Terminal				
B624	1	Ground	Heated seat switch	1	 JMJIB1576GB
				2	 JMJIB1577GB
				3	 JMJIB1578GB

3. Check voltage between driver seat cushion heater harness connector and ground.

(+)		(–)	Test item		Voltage (Approx.)
Driver seat cushion heater					
Connector	Terminal				
B619	1	Ground	Heated seat switch	1	 JMJIB1576GB
				2	 JMJIB1577GB
				3	 JMJIB1578GB

Is the inspection result normal?

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

2.CHECK DRIVER SEAT CONTROL UNIT CIRCUIT

1. Disconnect driver seat control unit connector.
2. Check continuity between driver seat control unit harness connector and ground.

Driver seat control unit		—	Continuity
Connector	Terminal		
M704	32	Ground	Not existed
M705	67		

Is the inspection result normal?

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

3.REPLACE DRIVER SEAT SEATBACK HEATER AND ERASE DTC

1. Turn ignition switch OFF.
2. Replace seatback. Refer to SE-67, "SEATBACK : Disassembly and Assembly".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “BCM” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to SE-39, "DTC Description".

Is DTC “B1091-63” detected?

YES >> Replace seat cushion. Refer to SE-74, "SEAT CUSHION : Disassembly and Assembly".
NO >> INSPECTION END

B1095 SEAT HEATER RH

DTC Description

INFOID:0000000013549046

DTC DETECTION LOGIC

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	DTC detecting condition	
B1095	18	Heat mat (fr seat) [Heat mat (front right seat)]	[CIRC CURRENT BELOW THRESHOLD]	Diagnosis condition	Ignition switch ACC and heated seat system is activated
				Signal (terminal)	–
				Threshold	Current is below 1 A
				Diagnosis delay time	360 ms
	19		[CIRC CURRENT ABOVE THRESHOLD]	Diagnosis condition	Ignition switch ACC and heated seat system is activated
				Signal (terminal)	–
				Threshold	Current is over 16 A
				Diagnosis delay time	360 ms
	63		[CIRC/COMPNT PROTECTION TIMEOUT]	Diagnosis condition	Ignition switch ACC and heated seat system is activated
				Signal (terminal)	–
				Threshold	Overload current at the heater is detected, but no short circuit.
				Diagnosis delay time	360 ms

POSSIBLE CAUSE

- Passenger seat seatback heater
- Passenger seat cushion heater
- Passenger seat control unit
- Harness between heater and seat control unit

FAIL-SAFE

–

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ACC.
2. Activate heated seat system.

Is DTC detected?

YES >> Refer to SE-43, "Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000013549047

DTC “B1095-18”

1.CHECK SEATBACK HEATER CIRCUIT AND CUSHION HEATER CIRCUIT 1

1. Disconnect passenger seat control unit connector, passenger seat seatback heater connector and passenger seat cushion heater connector.
2. Check continuity between passenger seat control unit harness connector and passenger seat seatback heater harness connector.

Passenger seat control unit		Passenger seat seatback heater		Continuity
Connector	Terminal	Connector	Terminal	
M702	32	B612	2	Existed

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

Passenger seat control unit		Passenger seat cushion heater		Continuity
Connector	Terminal	Connector	Terminal	
M703	67	B623	2	Existed

Is the inspection result normal?

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

2.CHECK SEATBACK HEATER CIRCUIT AND CUSHION HEATER CIRCUIT 2

1. Check voltage between passenger seat seatback heater harness connector and ground.

(+)		(–)	Voltage (Approx.)
Passenger seat seatback heater			
Connector	Terminal		
B612	2	Ground	0 V

2. Check voltage between passenger seat cushion heater harness connector and ground.

(+)		(–)	Voltage (Approx.)
Passenger seat cushion heater			
Connector	Terminal		
B623	2	Ground	0 V

Is the inspection result normal?

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

3.REPLACE PASSENGER SEAT SEATBACK HEATER AND ERASE DTC

1. Turn ignition switch OFF.
2. Replace seatback. Refer to SE-67, "SEATBACK : Disassembly and Assembly".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “BCM” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to SE-43, "DTC Description".

Is DTC “B1095-18” detected?

YES >> Replace seat cushion. Refer to SE-74, "SEAT CUSHION : Disassembly and Assembly".
NO >> INSPECTION END

DTC “B1095-19”

1.CHECK PASSENGER SEAT CONTROL UNIT CIRCUIT

1. Disconnect passenger seat control unit connector, passenger seat seatback heater connector and passenger seat cushion heater connector.
2. Check continuity between passenger seat control unit harness connector and ground.

Passenger seat control unit		—	Continuity
Connector	Terminal		
M702	35	Ground	Not existed
M703	66		

Is the inspection result normal?

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

2.REPLACE PASSENGER SEAT SEATBACK HEATER AND ERASE DTC

1. Turn ignition switch OFF.
2. Replace seatback. Refer to SE-67, "SEATBACK : Disassembly and Assembly".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “BCM” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to SE-43, "DTC Description".

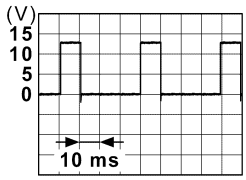
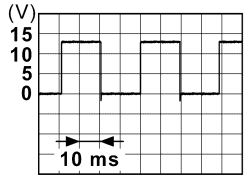
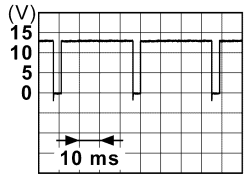
Is DTC “B1095-19” detected?

YES >> Replace seat cushion. Refer to SE-74, "SEAT CUSHION : Disassembly and Assembly".
NO >> INSPECTION END

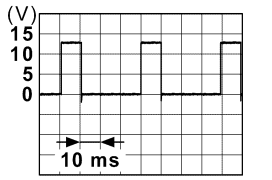
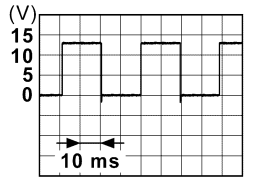
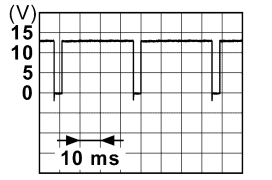
DTC “B1095-63”

1.CHECK SEAT CONTROL UNIT OUTPUT

1. Disconnect passenger seat seatback heater connector and passenger seat cushion heater connector.
2. Check voltage between passenger seat seatback heater harness connector and ground.

(+)		(–)	Test item		Voltage (Approx.)
Passenger seat seatback heater					
Connector	Terminal				
B612	1	Ground	Heated seat switch	1	 JMJIB1576GB
				2	 JMJIB1577GB
				3	 JMJIB1578GB

3. Check voltage between passenger seat cushion heater harness connector and ground.

(+)		(–)	Test item		Voltage (Approx.)
Passenger seat cushion heater					
Connector	Terminal				
B623	1	Ground	Heated seat switch	1	 JMJIB1576GB
				2	 JMJIB1577GB
				3	 JMJIB1578GB

Is the inspection result normal?

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

2.CHECK PASSENGER SEAT CONTROL UNIT CIRCUIT

1. Disconnect passenger seat control unit connector.
2. Check continuity between passenger seat control unit harness connector and ground.

Passenger seat control unit		—	Continuity
Connector	Terminal		
M702	32	Ground	Not existed
M703	67		

Is the inspection result normal?

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

3.REPLACE PASSENGER SEAT SEATBACK HEATER AND ERASE DTC

1. Turn ignition switch OFF.
2. Replace seatback. Refer to SE-67, "SEATBACK : Disassembly and Assembly".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “BCM” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to SE-43, "DTC Description".

Is DTC “B1095-63” detected?

YES >> Replace seat cushion. Refer to SE-74, "SEAT CUSHION : Disassembly and Assembly".
NO >> INSPECTION END

B229F HEATED SEAT SYSTEM LH

DTC Description

INFOID:0000000013549050

DTC DETECTION LOGIC

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	DTC detecting condition	
B229F	12	Seat heater control unit fl (Seat heater control unit front left)	[CIRC SHORT TO BATTERY]	Diagnosis condition	All times
				Signal (terminal)	–
				Threshold	There is a short circuit to positive.
				Diagnosis delay time	–
	4B		[OVER TEMPERATURE]	Diagnosis condition	Ignition switch ACC and heated seat system is activated
				Signal (terminal)	–
				Threshold	Seat control unit is overheat
				Diagnosis delay time	–

POSSIBLE CAUSE

- Driver seat control unit
- Harness between seat control unit and the heater.

FAIL-SAFE

–

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ACC.
2. Active heated seat system

Is DTC detected?

YES >> Refer to SE-47, "Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000013549051

DTC “B229F-12”

1.CHECK DRIVER SEAT CONTROL UNIT CIRCUIT

1. Disconnect driver seat control unit connector, driver seat seatback heater connector and driver seat cushion heater connector.
2. Check voltage between driver seat control unit harness connector and ground.

(+) Driver seat control unit		(–)	Voltage (Approx.)
Connector	Terminal		
M704	35	Ground	0 V
	32		
M705	66		
	67		

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-113, "Removal and Installation".
NO >> Repair or replace harnesses.

DTC “B229F-4B”

1.COOL DOWN HEATED SEAT SYSTEM

Turn ignition switch OFF and wait until driver seat control unit cool down.

>> GO TO 2.

2.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Select “Self Diagnostic Result” mode of “BCM” using CONSULT.
3. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to SE-47, "DTC Description".

Is DTC “B229F-4B” detected?

YES >> Replace driver seat control unit. Refer to ADP-113, "Removal and Installation".
NO >> INSPECTION END

B22A0 HEATED SEAT SYSTEM RH

DTC Description

INFOID:0000000013549054

DTC DETECTION LOGIC

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	DTC detecting condition	
B22A0	12	Seat heater control unit fr (Seat heater control unit front right)	[CIRC SHORT TO BATTERY]	Diagnosis condition	All times
				Signal (terminal)	–
				Threshold	There is a short circuit to positive.
				Diagnosis delay time	–
	4B		[OVER TEMPERATURE]	Diagnosis condition	Ignition switch ACC and heated seat system is activated
				Signal (terminal)	–
				Threshold	Seat control unit is overheat
				Diagnosis delay time	–

POSSIBLE CAUSE

- Passenger seat control unit
- Harness between seat control unit and the heater.

FAIL-SAFE

–

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ACC.
2. Active heated seat system

Is DTC detected?

YES >> Refer to SE-49, "Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000013549055

DTC “B22A0-12”

1.CHECK PASSENGER SEAT CONTROL UNIT CIRCUIT

1. Disconnect passenger seat control unit connector, passenger seat seatback heater connector and passenger seat cushion heater connector.
2. Check voltage between passenger seat control unit harness connector and ground.

(+)		(–)	Voltage (Approx.)
Passenger seat control unit			
Connector	Terminal		
M702	35	Ground	0 V
	32		
M703	66		
	67		

Is the inspection result normal?

YES >> Replace passenger seat control unit. Refer to ADP-113, "Removal and Installation".
NO >> Repair or replace harnesses.

DTC “B22A0-4B”

1.COOL DOWN HEATED SEAT SYSTEM

Turn ignition switch OFF and wait until passenger seat control unit cool down.

>> GO TO 2.

2.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Select “Self Diagnostic Result” mode of “BCM” using CONSULT.
3. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to SE-49, "DTC Description".

Is DTC “B22A0-4B” detected?

YES >> Replace passenger seat control unit. Refer to ADP-113, "Removal and Installation".
NO >> INSPECTION END

B22A8 SEAT CONTROL UNIT

DTC Description

INFOID:0000000013549058

DTC DETECTION LOGIC

DTC		CONSULT screen terms (Trouble diagnosis content)	CONSULT screen terms [Malfunction type]	DTC detecting condition	
B22A8	16	Driver seat control unit (Driver seat control unit)	[CIRC VOLT BELOW THRESHOLD]	Diagnosis	Turn ignition switch ON
				Signal (terminal)	Battery power supply
				Threshold	Driver seat control unit detect battery voltage too low
				Diagnosis delay time	—
	17		[CIRC VOLT ABOVE THRESHOLD]	Diagnosis	Turn ignition switch ON
				Signal (terminal)	Battery power supply
				Threshold	Driver seat control unit detect battery voltage too high
				Diagnosis delay time	—

POSSIBLE CAUSE

- Driver seat control unit
- Harness or connectors
  (Battery power supply circuit is open or shorted)

FAIL-SAFE

—

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Check DTC in “Self Diagnostic Result” mode of “BCM” using CONSULT.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to SE-51, "Diagnosis Procedure".
NO–1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO–2 >> Confirmation after repair: INSPECTION END.

Diagnosis Procedure

INFOID:0000000013549059

1.CHECK FUSE

1. Turn ignition switch OFF.
2. Check that the following fuse and fusible link are not blown (open).

Signal name	Fuse or fusible link No.
Battery power supply	60 (30 A)
	36 (7.5 A)

Is the fuse or fusible link blown (open)?

YES >> Replace the blown (open) fusible link after repairing the affected circuit if a fusible link is blown (open).
NO >> GO TO 2.

2.CHECK POWER SUPPLY

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

(+)		(-)	Voltage
Driver seat control unit			
Connector	Terminal		
M615	3	Ground	11 - 15.5 V
	18		

Is the inspection result normal?

YES >> GO TO 5.
NO >> GO TO 3.

3.CHECK POWER SUPPLY CIRCUIT

1. Disconnect driver seat control unit and fuse and fusible link block 2 connector.
2. Check continuity between driver seat control unit harness connector and fuse and fusible link block 2.

Fuse and fusible link block 2		Driver seat control unit		Continuity
Connector	Terminal	Connector	Terminal	
M111	53	M615	3	Existed
M126	32		18	

3. Check continuity between driver seat control unit harness connector and ground.

Driver seat control unit		Ground	Continuity
Connector	Terminal		
M615	3		Not existed
	18		

Is the inspection result normal?

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

4.CHECK GROUND CIRCUIT

Check continuity between driver seat control unit harness connector and ground.

Driver seat control unit		Ground	Continuity
Connector	Terminal		
M615	4		Existed

Is the inspection result normal?

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

5.CHECK INTERMITTENT INCIDENT

Refer to GI-56, "Intermittent Incident".

>> INSPECTION END

B23AF HEATED SEAT SYSTEM LH

DTC Description

INFOID:0000000013549060

DTC DETECTION LOGIC

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	DTC detecting condition	
B23AF	13	Heater pad fl (Heater pad front left)	[CIRC OPEN]	Diagnosis condition	Ignition switch ACC and heated seat system is activated
				Signal (terminal)	Seat control unit power supply
				Threshold	Voltage is less than 5 V
				Diagnosis delay time	360 ms

POSSIBLE CAUSE

- Harness or connector (power supply circuit)
- Driver seat control unit

FAIL-SAFE

–

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ACC.
2. Activate heated seat system.

Is DTC detected?

YES >> Refer to SE-53, "Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000013549061

1.CHECK FUSE

Check that the following fuse is not blown (open).

Signal name	Fuse No.
Battery power supply	60 (30 A)

Is the fuse blown (open)?

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

2.CHECK DRIVER SEAT CONTROL UNIT POWER SUPPLY CIRCUIT

1. Disconnect driver seat control unit connector.
2. Check voltage between driver seat control unit harness connector and ground.

(+)		(–)	Voltage
Driver seat control unit			
Connector	Terminal		
M615	3	Ground	11 - 15.5 V

Is the inspection result normal?

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

3.CHECK DRIVER SEAT CONTROL UNIT GROUND CIRCUIT

Check continuity between driver seat control unit harness connector and ground.

Driver seat control unit		—	Continuity
Connector	Terminal		
M615	4	Ground	Existed

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-56, "Intermittent Incident".
NO >> Repair or replace harness.

B23B0 HEATED SEAT SYSTEM RH

DTC Description

INFOID:0000000013549064

DTC DETECTION LOGIC

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	DTC detecting condition	
B23B0	13	Heater pad fr (Heater pad front right)	[CIRC OPEN]	Diagnosis condition	Ignition switch ACC and heated seat system is activated
				Signal (terminal)	Seat control unit power supply
				Threshold	Voltage is less than 5 V
				Diagnosis delay time	360 ms

POSSIBLE CAUSE

- Harness or connector (power supply circuit)
- Passenger seat control unit

FAIL-SAFE

–

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ACC.
2. Activate heated seat system.

Is DTC detected?

YES >> Refer to SE-55, "Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000013549065

1.CHECK FUSE

Check that the following fuse is not blown (open).

Signal name	Fuse No.
Battery power supply	59 (30 A)

Is the fuse blown (open)?

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

2.CHECK PASSENGER SEAT CONTROL UNIT POWER SUPPLY CIRCUIT

1. Disconnect passenger seat control unit connector.
2. Check voltage between passenger seat control unit harness connector and ground.

(+)		(–)	Voltage
Passenger seat control unit			
Connector	Terminal		
M618	3	Ground	11 - 15.5 V

Is the inspection result normal?

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

3.CHECK PASSENGER SEAT CONTROL UNIT GROUND CIRCUIT

Check continuity between passenger seat control unit harness connector and ground.

Passenger seat control unit		—	Continuity
Connector	Terminal		
M618	4	Ground	Existed
	13		

Is the inspection result normal?

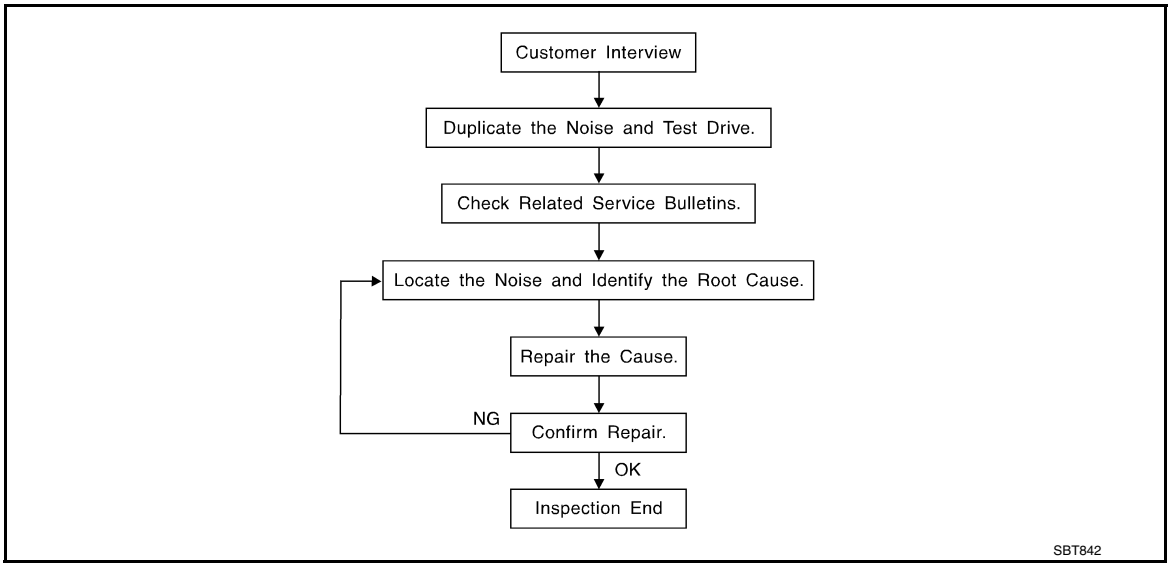
YES >> Check intermittent incident. Refer to GI-56, "Intermittent Incident".
NO >> Repair or replace harness.

SYMPTOM DIAGNOSIS

SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow

INFOID:0000000013549068



CUSTOMER INTERVIEW

Interview the customer if possible, to determine the conditions that exist when the noise occurs. Use the Diagnostic Worksheet during the interview to document the facts and conditions when the noise occurs and any of the customer's comments; refer to SE-61, "Diagnostic Worksheet". This information is necessary to duplicate the conditions that exist when the noise occurs.

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

DUPLICATE THE NOISE AND TEST DRIVE

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

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 (Engine Ear or mechanics stethoscope).
2. Narrow down the noise to a more specific area and identify the cause of the noise by:

- Removing the components in the area that you suspect 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 you suspect 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 you suspect to be the cause of the noise.
- Looking for loose components and contact marks.
  Refer to SE-59, "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. These insulators are available through the authorized Nissan Parts Department.

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

- URETHANE PADS
  Insulates connectors, harness, etc.
- INSULATOR (Foam blocks)
  Insulates components from contact. Can be used to fill space behind a panel.
- INSULATOR (Light foam block)
- FELT CLOTHTAPE
  Used to insulate where movement does not occur. Ideal for instrument panel applications.
  The following materials, not available through NISSAN Parts Department, 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.
  Note: 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:0000000013549069

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

INSTRUMENT PANEL

Most incidents are caused by contact and movement between:

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

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

CAUTION:

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

CENTER CONSOLE

Components to pay attention to include:

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

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

DOORS

Pay attention to the following:

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

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

TRUNK

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

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

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

SUNROOF/HEADLINING

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

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

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

SEATS

When isolating seat noise it is important to note the position the seat is 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. 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

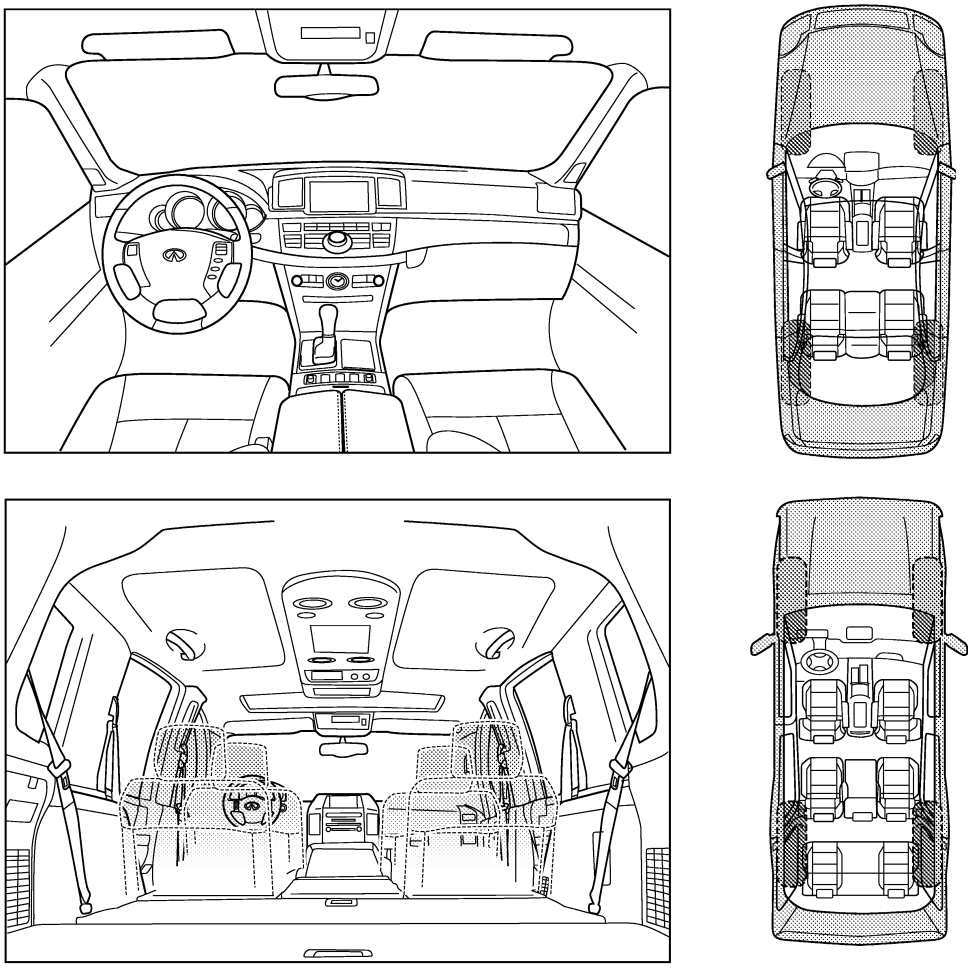
INFOID:0000000013549070

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

REMOVAL AND INSTALLATION

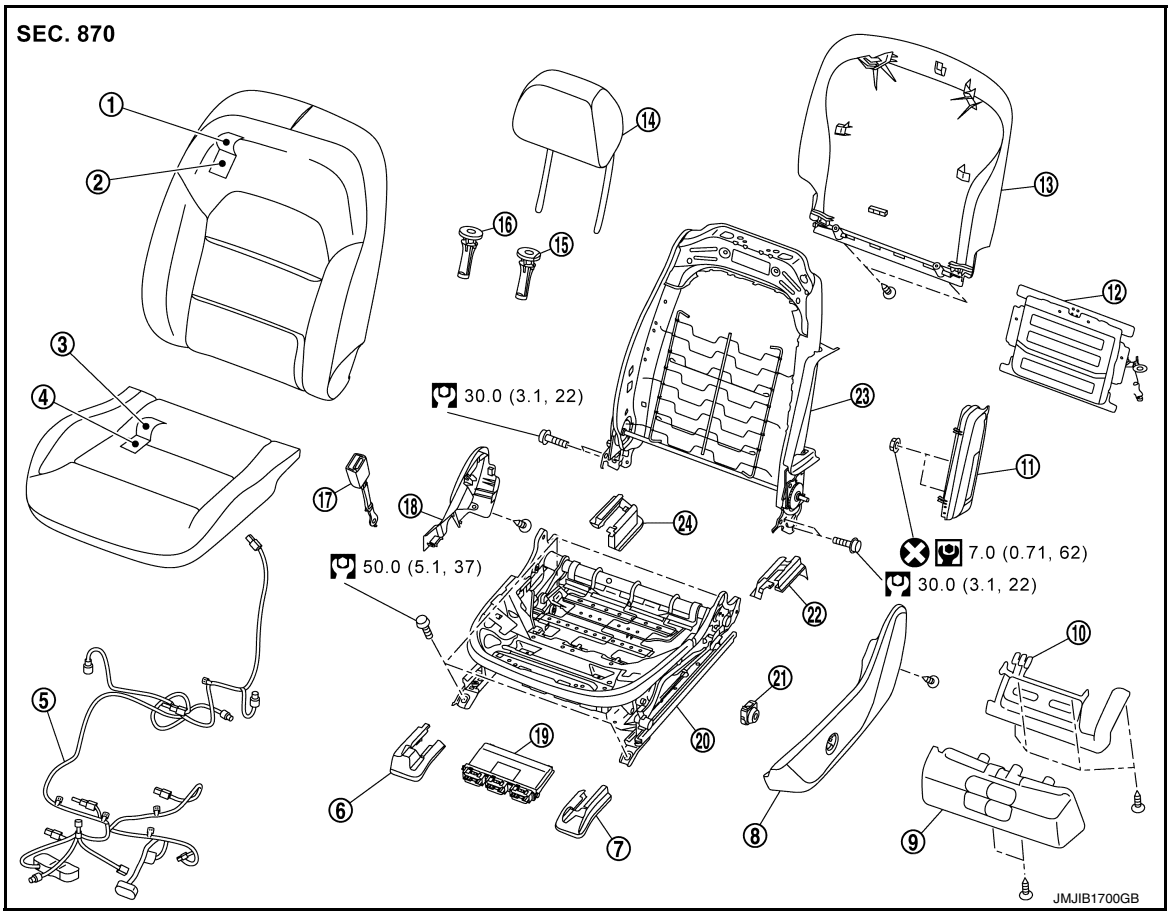
FRONT SEAT

Exploded View

INFOID:0000000013549071

STANDARD SEAT

POWER SEAT



① Seatback trim	② Seatback pad*1	③ Seat cushion trim
④ Seat cushion pad*1	⑤ Seat harness	⑥ Front reg cover inner side
⑦ Front reg cover outer side	⑧ Seat cushion outside finisher	⑨ Under tray*3
⑩ Drawer bracket*3	⑪ Side air bag module	⑫ Lumbar support cushion
⑬ Seatback board	⑭ Headrest	⑮ Headrest holder (lock)
⑯ Headrest holder (free)	⑰ Seat belt buckle*2	⑱ Seat cushion inside finisher
⑲ Seat control unit	⑳ Seat cushion frame	㉑ Lumbar support switch
㉒ Rear reg cover outer side	㉓ Saetback frame	㉔ Rear reg cover inner side

: Always replace after every disassembly.

: N·m (kg-m, in-lb)

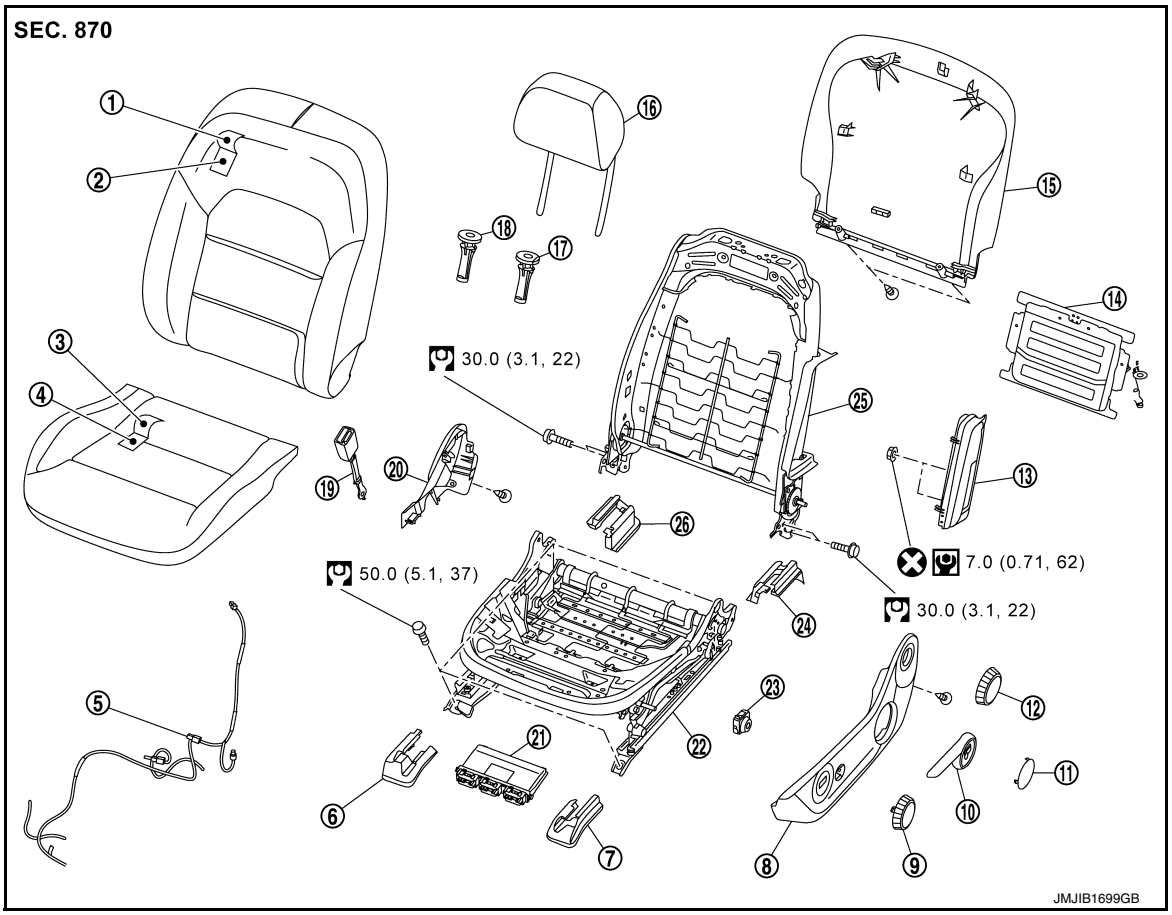
: N·m (kg-m, ft-lb)

*1: Never disassemble with heater seat.

*2: Tighten together with seat belt buckle. Refer to SB-7, "Exploded View".

*3: With under tray.

MANUAL SEAT



① Seatback trim	② Seatback pad*1	③ Seat cushion trim
④ Seat cushion pad*1	⑤ Seat harness	⑥ Front reg cover inner side
⑦ Front reg cover outer side	⑧ Seat cushion outside finisher	⑨ Tilt dial
⑩ Lifter lever	⑪ Lifter lever cap	⑫ Reclining dial
⑬ Side air bag module	⑭ Lumbar support cushion	⑮ Seatback board
⑯ Headrest	⑰ Headrest holder (lock)	⑱ Headrest holder (free)
⑲ Seat belt buckle*2	⑳ Seat cushion inside finisher	㉑ Seat control unit
㉒ Seat cushion frame	㉓ Lumber support switch	㉔ Rear reg cover outer side
㉕ Seatback frame	㉖ Rear reg cover inner side	

: Always replace after every disassembly.

: N·m (kg-m, in-lb)

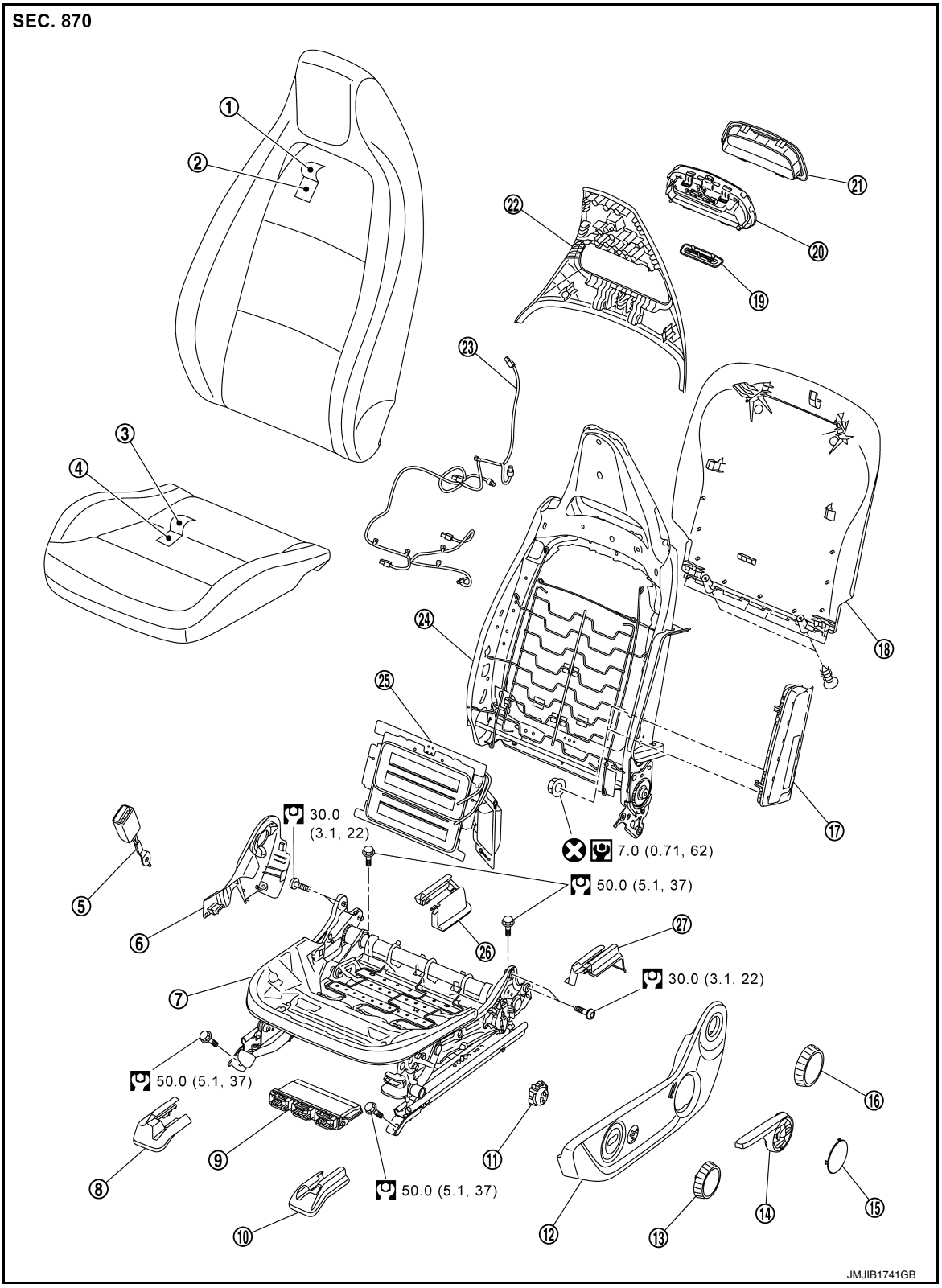
: N·m (kg-m, ft-lb)

*1: Never disassemble with heater seat.

*2: Tighten together with seat belt buckle. Refer to SB-7, "Exploded View".

SPORT SEAT

SEC. 870



① Seatback trim
② Seatback pad*1
③ Seat cushion trim
④ Seat cushion pad*1
⑤ Seat belt buckle*2
⑥ Seat cushion inside finisher
⑦ Seat cushion frame
⑧ Front reg cover inner side
⑨ Seat control unit
⑩ Front reg cover outer side
⑪ Lumber support switch
⑫ Seat cushion outside finisher
⑬ Tilt dial
⑭ Lifter lever
⑮ Lifter lever cap

⑯ Reclining dial	⑰ Side air bag module	⑱ Seatback board
⑲ Ambient lamp finisher	⑳ Ambient lamp bracket	㉑ Seatback cover
㉒ Seatback support	㉓ Seat harness	㉔ Seatback frame
㉕ Lumbar support cushion	㉖ Rear reg cover inner side	㉗ Rear reg cover outer side

: Always replace after every disassembly.

: N·m (kg-m, in-lb)

: N·m (kg-m, ft-lb)

*1: Never disassemble with heater seat.

*2: Tighten together with seat belt buckle. Refer to SB-7, "Exploded View".

Removal and Installation

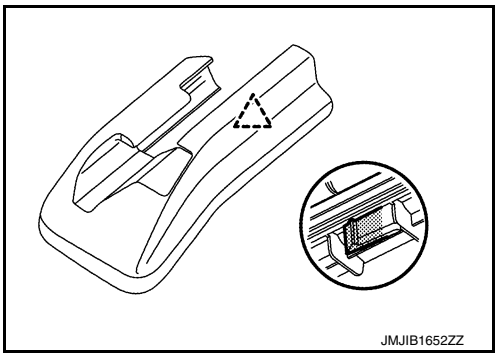
INFOID:0000000013549072

WARNING:
Never use air tools or electric tools for servicing (prevents the air bag diagnosis sensor unit from activating unexpectedly due to vibration).
CAUTION:
When removing and installing, use shop cloths to protect parts from damage.

REMOVAL

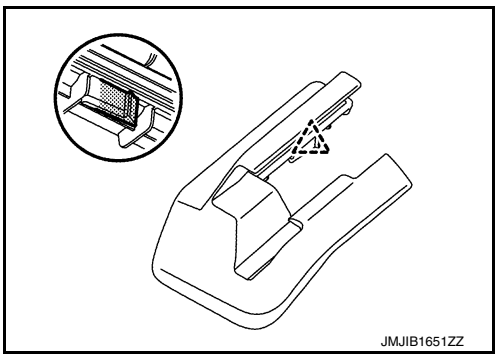
1. Disengage leg cover fixing pawls, and then remove leg cover.
   - Front leg cover outer side

     : Pawl



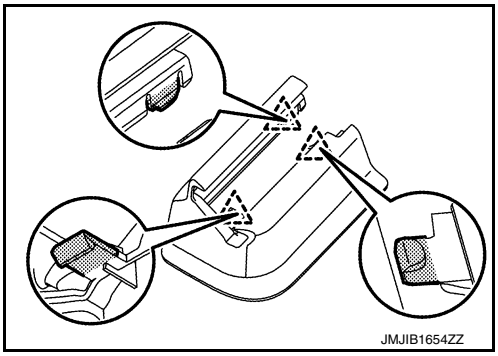
   - Front leg cover inner side

     : Pawl



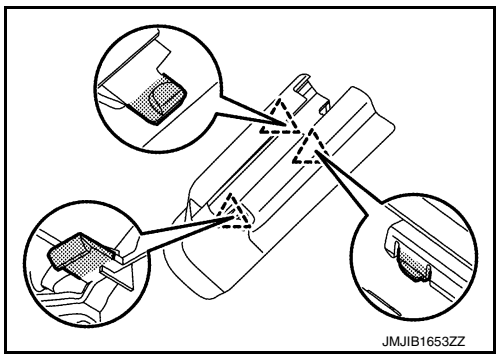
   - Rear leg cover outer side

     : Pawl



- Rear leg cover inner side

: Pawl



2. Remove seat mounting bolts.
3. Disconnect seat cushion underside harness connector and harness fixing clips, and then remove seat harness.

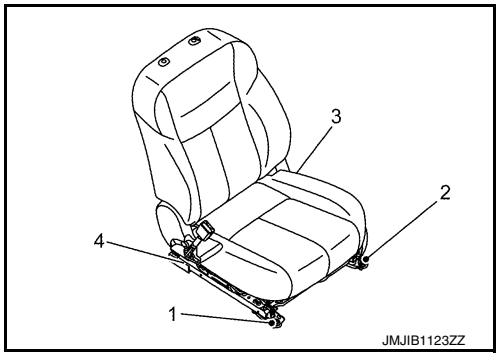
WARNING:
Before servicing, turn ignition switch OFF, disconnect battery negative terminal and then wait for at least 3 minutes (discharges electricity held in the additional power supply circuit of air bag diagnosis sensor unit).
CAUTION:
Before performing removal operation, check the installation position of harness connectors and harness fixing clips.
NOTE:
When disassembling slide cover, move seat lifter to the highest level.

4. Remove front seat from the vehicle.

INSTALLATION

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

CAUTION:
- **Before tightening seat fixing bolt, check that carpet is not caught in sliding leg bolt hole.**
- **When installing, tighten fixing bolts according to the numerical order 1→4 as shown in the figure, starting from front inner fixing bolt.**



- **When replacing or removing and installing passenger seat, always perform zero point reset so that Occupant Detection System is activated normally. Refer to SRC-57, "Description".**

SEATBACK

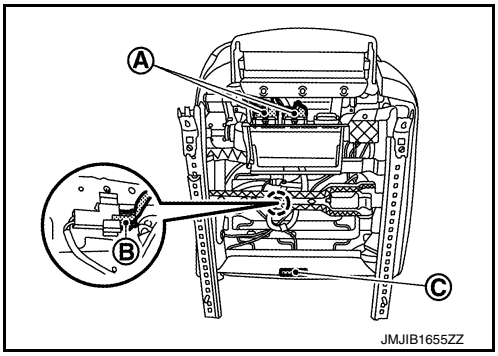
SEATBACK : Disassembly and Assembly

INFOID:0000000013549073

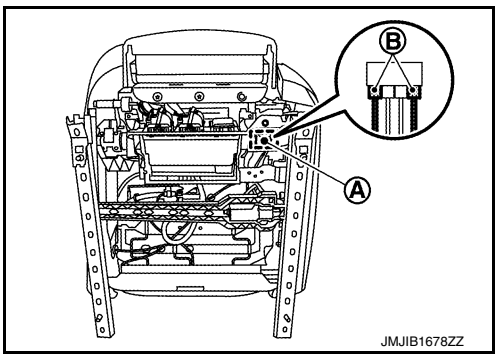
DISASSEMBLY

Standard Seat

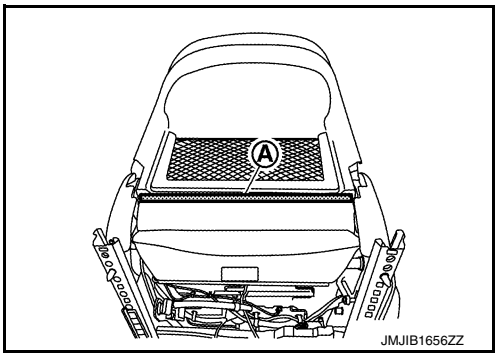
1. Disconnect harness connectors Ⓐ and Ⓑ (if equipped).
2. Remove foot lamp Ⓒ. Refer to INL-124, "Removal and Installation" (if equipped).



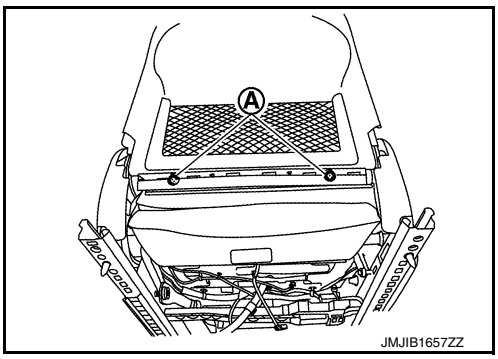
3. Disengage harness connectors Ⓐ, and then disconnect harness connectors Ⓑ (if equipped).



4. Disengage seatback board fixing retainer Ⓐ.

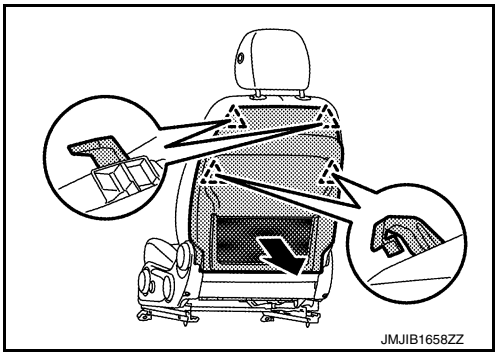


5. Remove seatback board fixing screw Ⓐ.

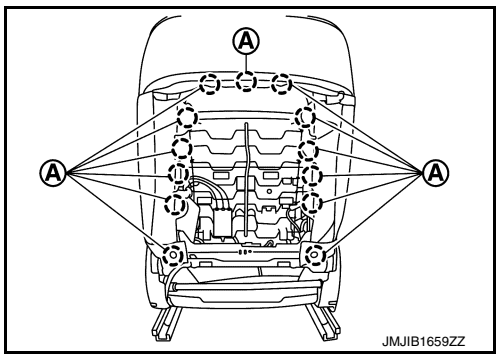


6. Disengage seatback board fixing pawls, and then remove seatback board.

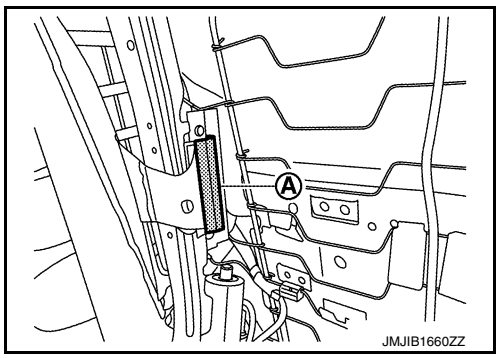
△ : Pawl



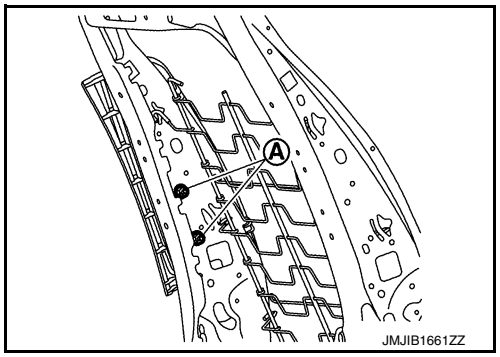
7. Disengage seatback trim fixing retainers Ⓐ.



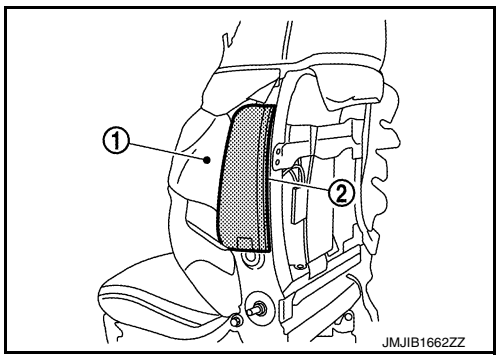
8. Disengage side air bag module catch strap fixing retainer Ⓐ.



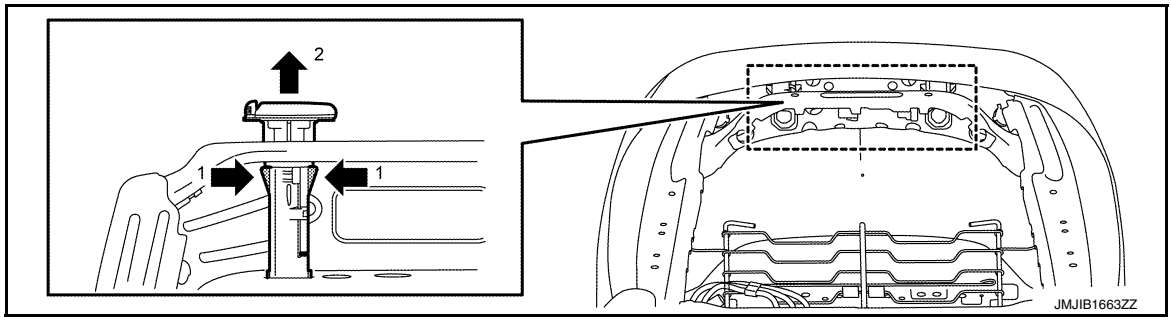
9. Remove side air bag module fixing nuts Ⓐ.



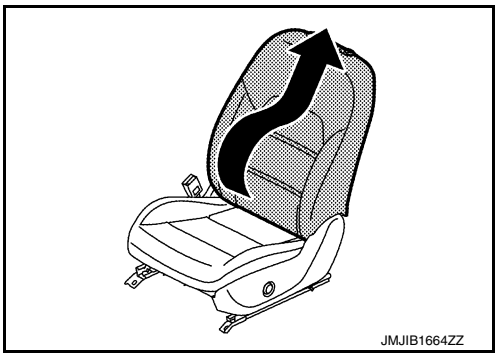
10. Pull out side air bag module ② from seatback, while rotated catch strap ①.



11. Remove headrest.
12. Remove headrest holder by raising it while pinching pawls from according to numerical order 1→2 as shown in the figure bottom of headrest holder.



13. Remove seatback trim and seatback pad as a set.

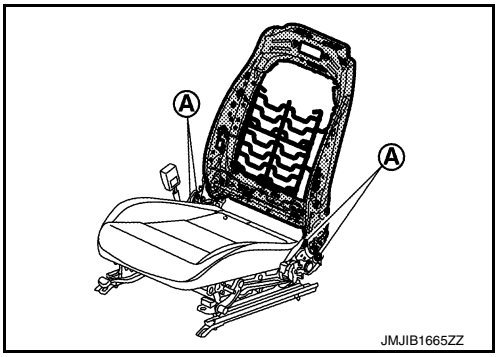


14. Remove hog rings, and then separate seatback trim and seatback pad.
CAUTION:
Before performing separating operation, check the installation position of hog rings.
15. Remove seatback frame.

a. Remove seat cushion inside finisher. Refer to SE-76, "SEAT CUSHION FINISHER : Disassembly and Assembly".

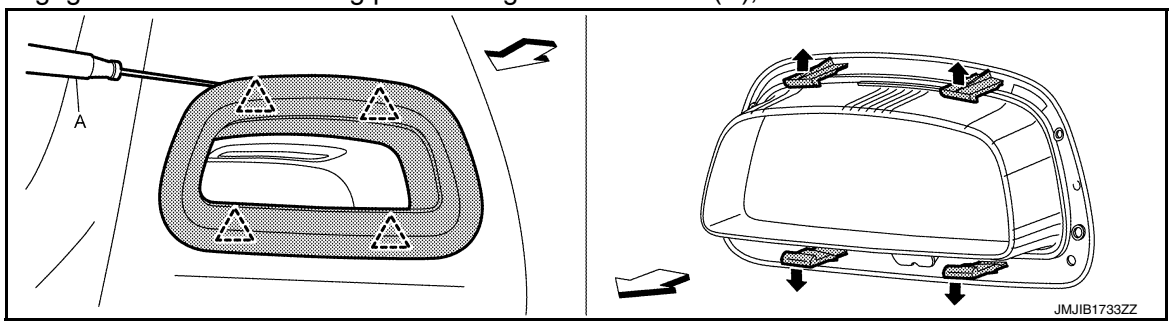
b. Disconnect harness connector and disengage harness fixing clips from seatback frame (if equipped).

c. Remove seatback frame fixing bolts Ⓐ, and then remove seatback frame.



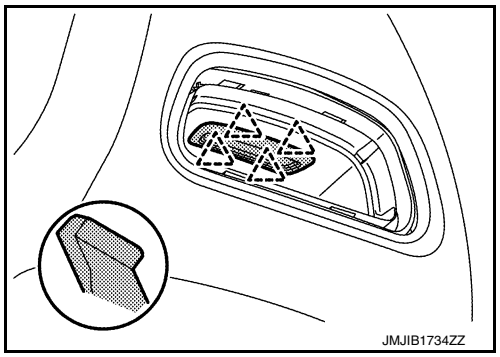
Sport Seat

1. Disengage seatback cover fixing pawls using a remover tool (A), and then remove seatback cover.



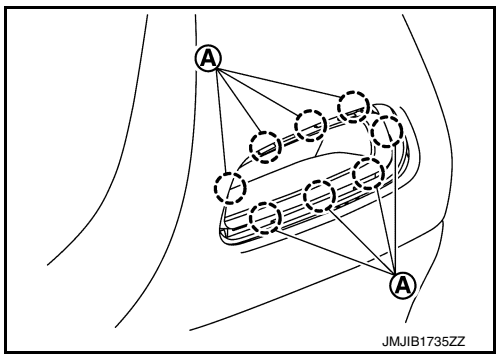
△ : Pawl
⇦ : Vehicle front

2. Disengage ambient lamp finisher fixing pawls, and then remove ambient lamp finisher.



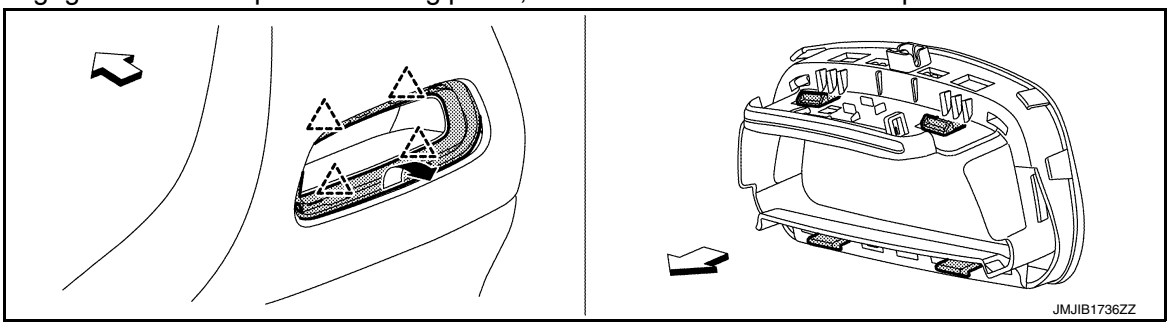
: Pawl

3. Disengage seatback trim fixing retainers Ⓐ.



4. Remove ambient lamp bracket.

a. Disengage ambient lamp bracket fixing pawls, and then remove ambient lamp bracket from seatback trim.



: Pawl

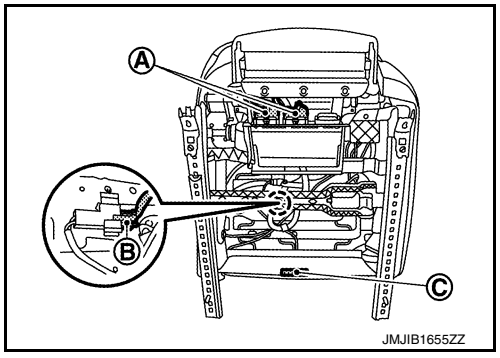
: Vehicle front

b. Disconnect harness connector, and then remove ambient lamp bracket.

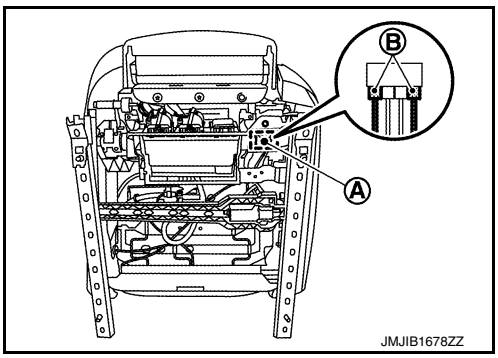
c. Remove ambient lamp. Refer to INL-140, "SEAT : Removal and Installation".

5. Disconnect harness connectors Ⓐ and Ⓑ (if equipped).

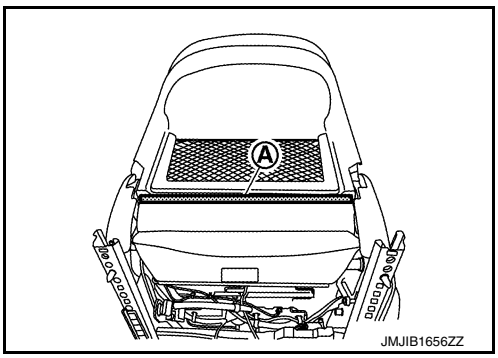
6. Remove foot lamp Ⓒ. Refer to INL-124, "Removal and Installation" (if equipped).



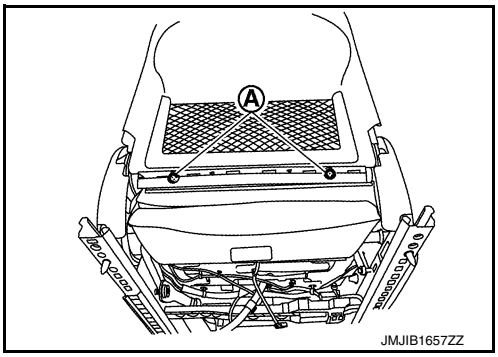
7. Disengage harness connectors Ⓐ, and then disconnect harness connectors Ⓑ (if equipped).



8. Disengage seatback board fixing retainer Ⓐ.

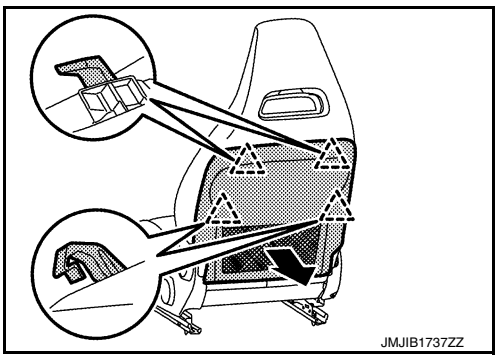


9. Remove seatback board fixing screw Ⓐ.

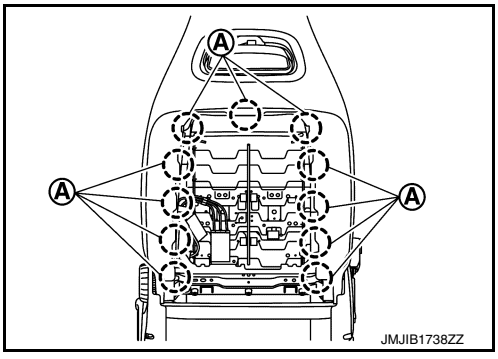


10. Disengage seatback board fixing pawls, and then remove seatback board.

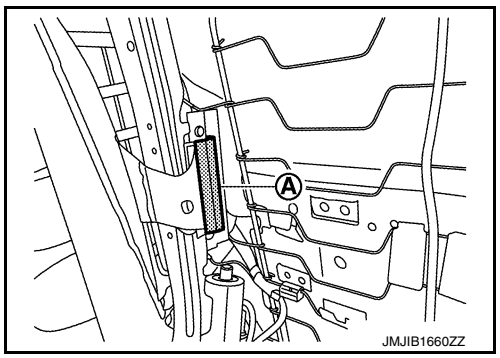
△ : Pawl



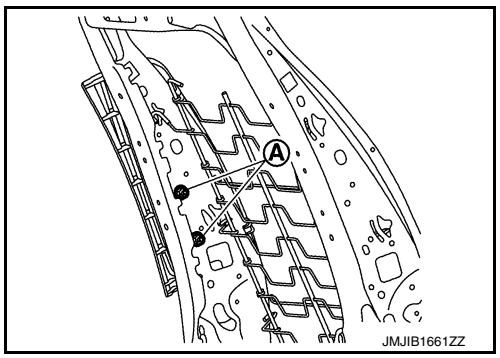
11. Disengage seatback trim fixing retainers Ⓐ.



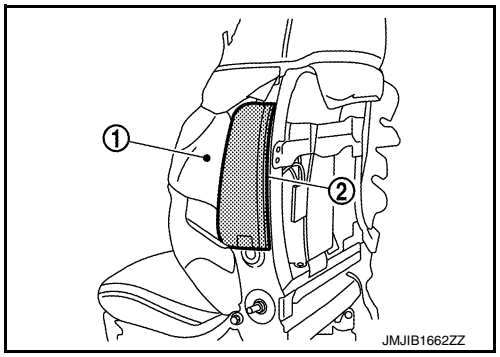
12. Disengage side air bag module catch strap fixing retainer Ⓐ.



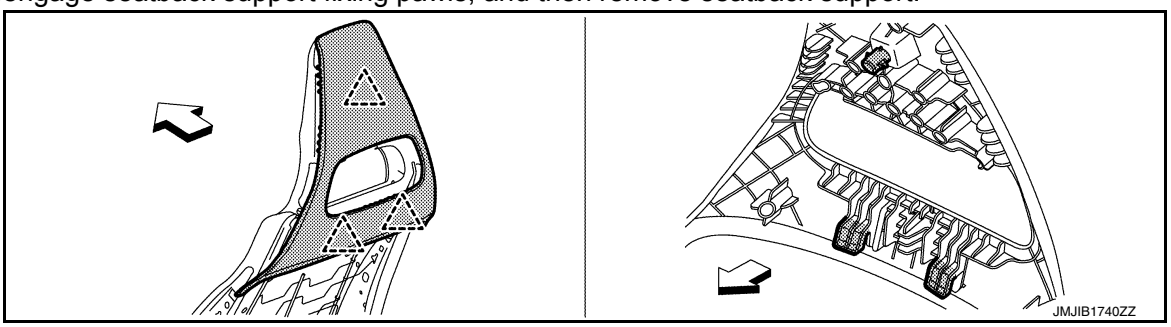
13. Remove side air bag module fixing nuts Ⓐ.



14. Pull out side air bag module ② from seatback, while rotated catch strap ①.



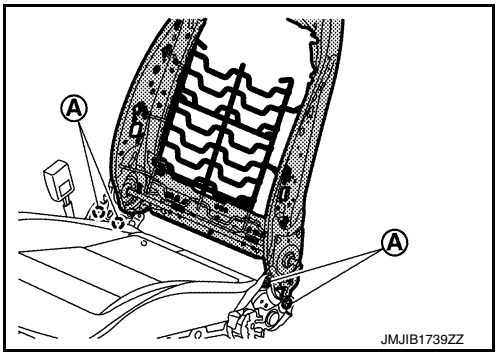
15. Remove seatback trim and seatback pad as a set upward.
CAUTION:
Make sure that ambient lamp harness is not subjected to any stress. Otherwise, ambient lamp harness may be damaged.
16. Remove hog rings, and then separate seatback trim and seatback pad.
CAUTION:
Before performing separating operation, check the installation position of hog rings.
17. Disengage seatback support fixing pawls, and then remove seatback support.



△ : Pawl
⇦ : Vehicle front

18. Remove seatback frame.

a. Remove seat cushion inside finisher. Refer to SE-76, "SEAT CUSHION FINISHER : Disassembly and Assembly".
b. Disconnect harness connector and disengage harness fixing clips from seatback frame (if equipped).
c. Remove seatback frame fixing bolts Ⓐ, and then remove seatback frame.



ASSEMBLY

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

CAUTION:

- **Always install hog rings in position.**
- **For hog ring that is removed or crimped unsuccessfully, fix it by using a new hog ring. (Never reuse hog ring.)**
- **Before installing headrest holder, check its orientation (front/rear and right/left).**
- **When installing side air bag, check that inner cloth (reinforcement cloth) is not caught in bolt hole.**
- **Note the following for side air bag module fixing nuts.**
  - **Always use new fixing nuts (prevents nut from loosening).**
  - **Never tighten nuts twice (prevents improper torque).**
- **When replacing or removing and installing passenger seat, always perform zero point reset so that Occupant Detection System is activated normally. Refer to SRC-57, "Description".**

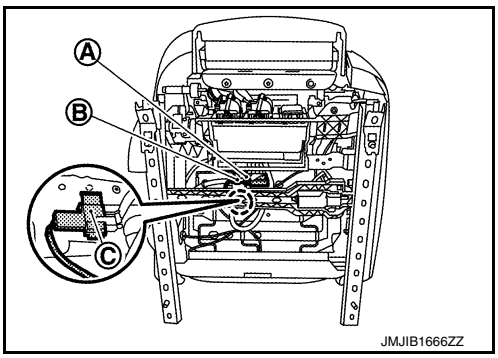
SEAT CUSHION

SEAT CUSHION : Disassembly and Assembly

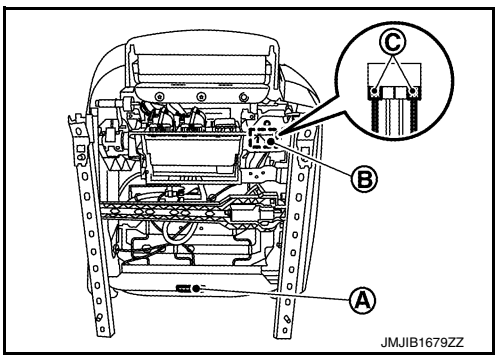
INFOID:0000000013549074

DISASSEMBLY

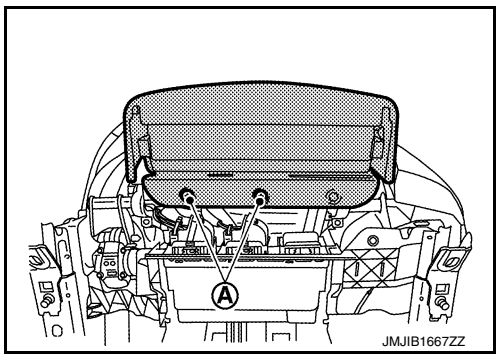
1. Remove occupant sensor fixing screw Ⓐ.
2. Disconnect harness connectors Ⓑ and Ⓒ (if equipped).



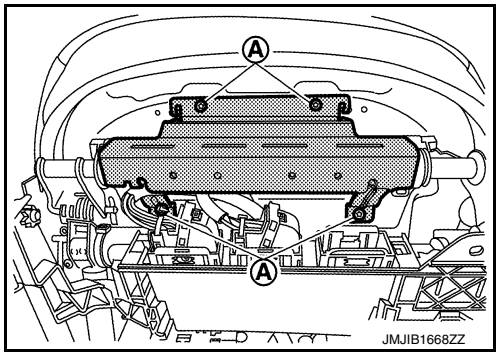
3. Remove foot lamp Ⓐ. Refer to INL-124, "Removal and Installation" (if equipped).
4. Disengage harness connector Ⓑ, and then disconnect harness connectors Ⓒ.



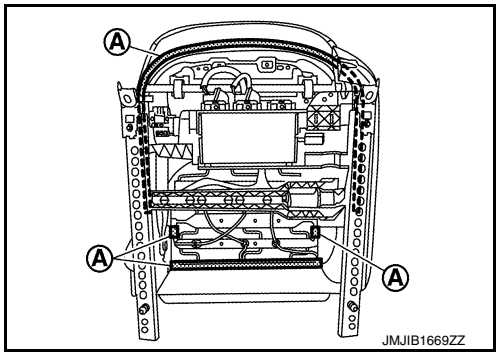
5. Remove under tray fixing screws Ⓐ, and then remove under tray (if equipped).



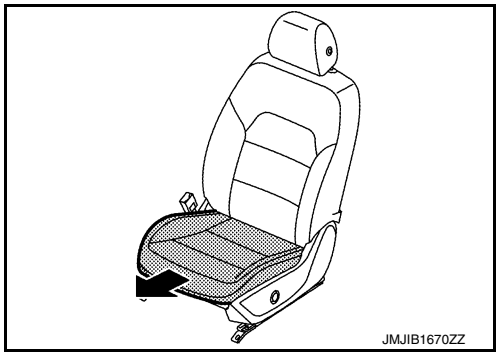
6. Remove drawer bracket fixing screws Ⓐ, and then remove drawer bracket (if equipped).



7. Disengage seat cushion trim fixing retainers Ⓐ.



8. Remove seat cushion trim and seat cushion pad as a set.



9. Remove front passenger seat position detection switch (passenger seat only).
10. Remove hog rings, and then separate seat cushion trim and seat cushion pad.
    CAUTION:
    Before performing separating operation, check the installation position of hog rings.

ASSEMBLY

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

CAUTION:

- **Always install hog rings in position.**
- **For hog ring that is removed or crimped unsuccessfully, fix it by using a new hog ring. (Never reuse hog ring.)**

- **When replacing or removing and installing passenger seat, always perform zero point reset so that Occupant Detection System is activated normally. Refer to SRC-57, "Description".**

SEAT CUSHION FINISHER

SEAT CUSHION FINISHER : Disassembly and Assembly

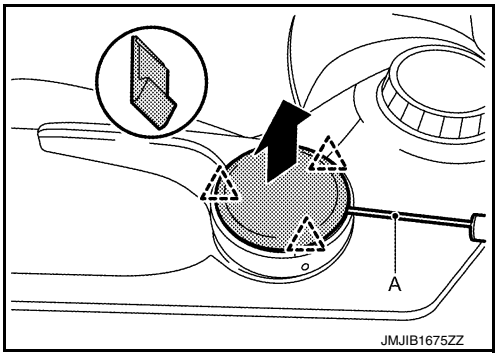
INFOID:0000000013549075

DISASSEMBLY

Seat Cushion Outside Finisher

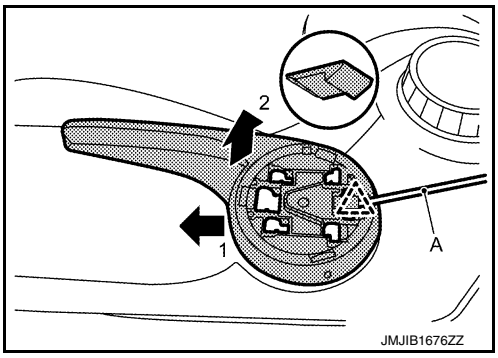
1. Disengage lifter lever cap fixing pawls using a remover tool (A), and then remove lifter lever cap (manual seat only).

: Pawl

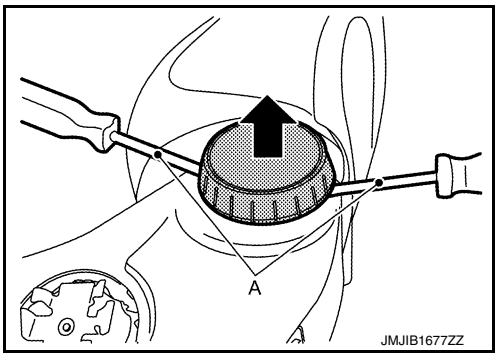


2. Disengage lifter lever fixing pawl using a remover tool (A), and then remove lifter lever according to the numerical order 1→2 as shown in the figure (manual seat only).

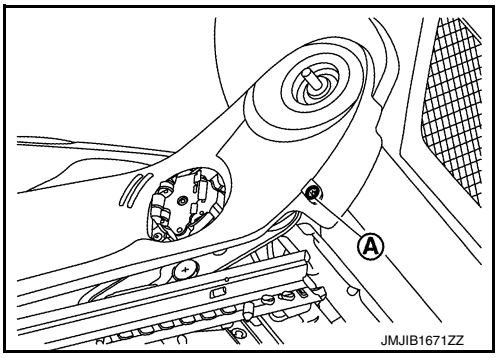
: Pawl



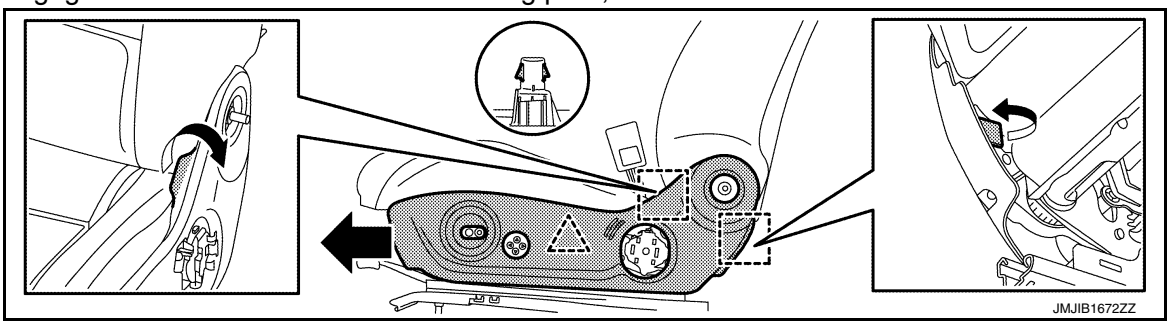
3. Remove reclining dial and tilt dial using a remover tool (A) (manual seat only).



4. Remove seat cushion outside finisher fixing screw Ⓐ.



5. Disengage seat cushion out side finisher fixing pawl, and then remove seat cushion out side finisher.

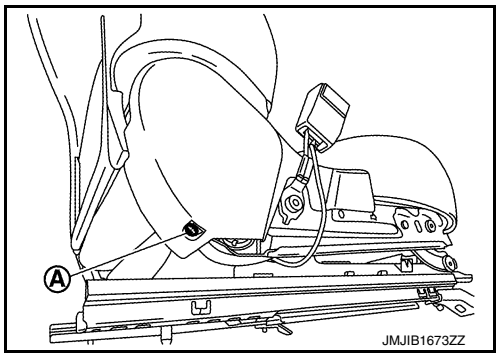


: Pawl

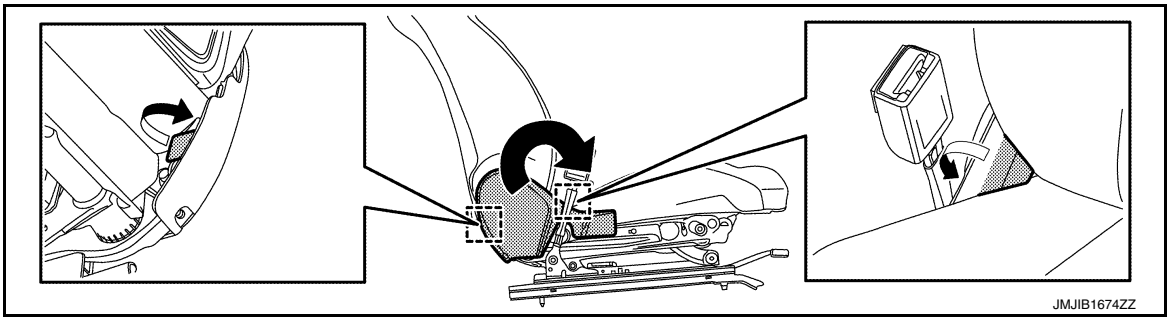
6. Disconnect harness connector.

Seat Cushion Inside Finisher

1. Remove seat cushion inside finisher fixing screw Ⓐ.



2. Remove seat cushion inside finisher.



ASSEMBLY

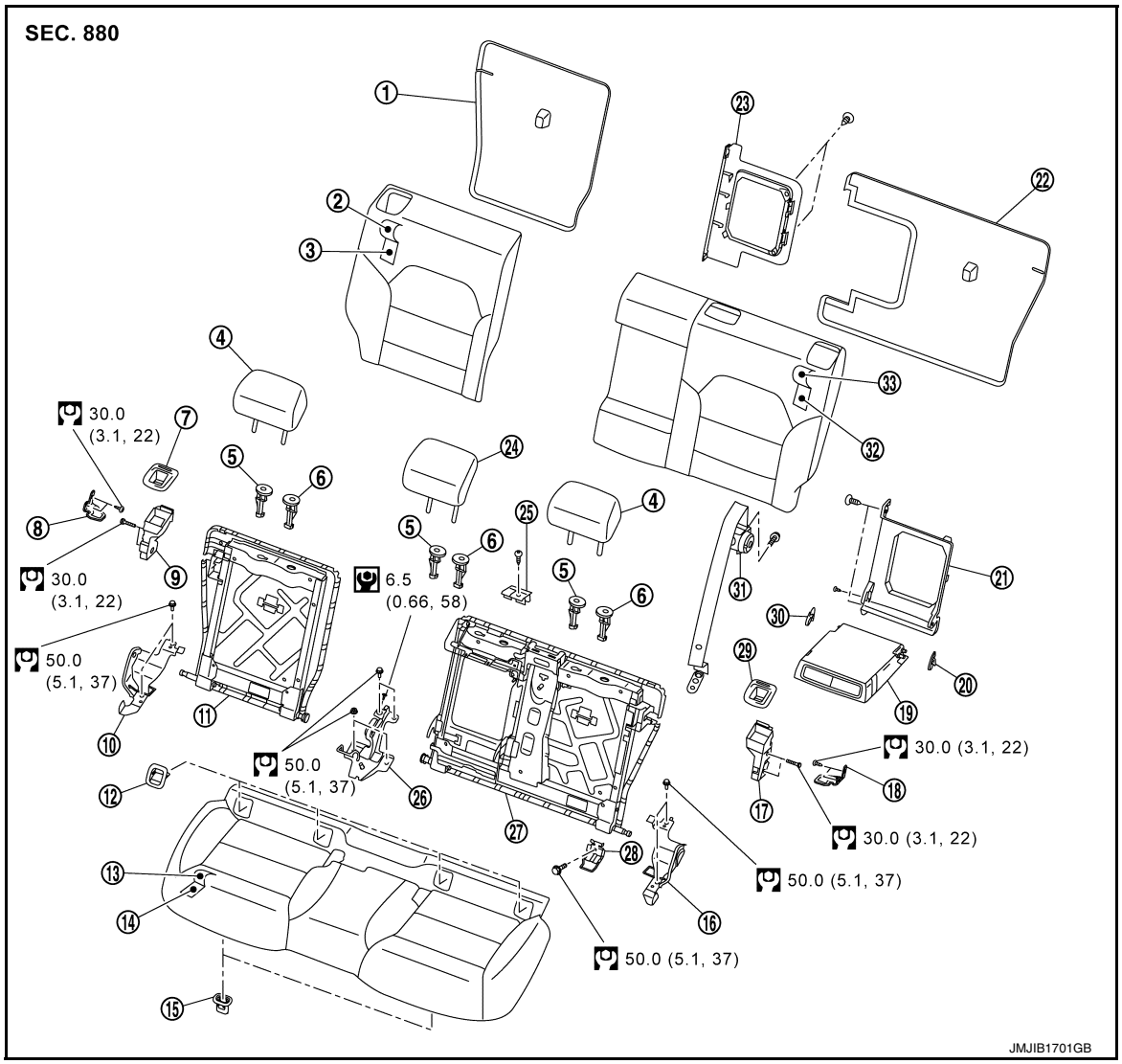
Assemble in the reverse order of disassembly.

REAR SEAT

Exploded View

INFOID:0000000013549076

STANDARD SEAT



① Seatback board RH
② Seatback trim RH
③ Seatback pad RH
④ Headrest
⑤ Headrest holder (lock)
⑥ Headrest holder (free)
⑦ Seatback lock finisher RH
⑧ Seatback striker RH
⑨ Seatback lock RH
⑩ Hinge bracket RH
⑪ Seatback frame RH
⑫ ISO-FIX escutcheon
⑬ Seat cushion trim
⑭ Seat cushion pad
⑮ Seat cushion hook
⑯ Hinge bracket LH
⑰ Seatback lock LH
⑱ Seatback striker LH
⑲ Armrest*1
⑳ Armrest bracket LH*1
㉑ Armrest front frame*1
㉒ Seatback board LH
㉓ Armrest rear frame*1
㉔ Center headrest
㉕ Seat belt finisher
㉖ Center hinge bracket
㉗ Seatback frame LH
㉘ ISO-FIX bracket
㉙ Seatback lock finisher LH
㉚ Armrest bracket RH*1
㉛ Center seat belt*2
㉜ Seatback pad LH
㉝ Seatback trim LH

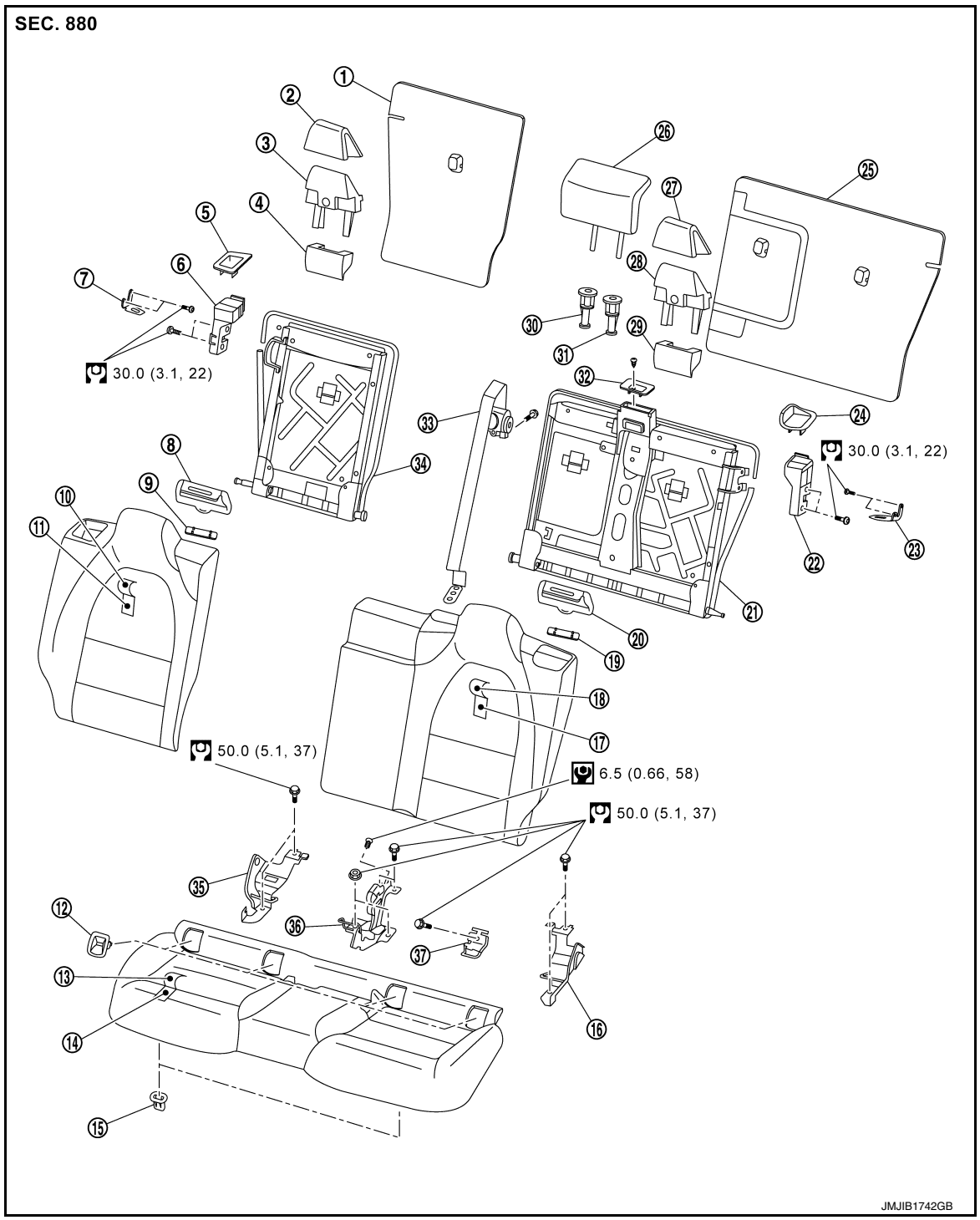
: N·m (kg-m, in-lb)

: N·m (kg-m, ft-lb)

*1: With armrest

*2: Tighten together with seat belt retractor. Refer to SB-14, "Exploded View".

SPORT SEAT



① Seatback board RH
② Headrest support 1 RH
③ Headrest support 2 RH
④ Headrest support 3 RH
⑤ Seatback lock finisher RH
⑥ Seatback lock RH
⑦ Seatback striker RH
⑧ Ambient lamp bracket RH
⑨ Ambient lamp finisher RH

⑩ Seatback trim RH
⑪ Seatback pad RH
⑫ ISO-FIX escutcheon
⑬ Seat cushion trim
⑭ Seat cushion pad
⑮ Seat cushion hook
⑯ Hinge bracket LH
⑰ Seatback pad LH
⑱ Seatback trim LH
⑲ Ambient lamp finisher LH
⑳ Ambient lamp bracket LH
㉑ Seatback frame LH
㉒ Seatback lock LH
㉓ Seatback striker LH
㉔ Seatback lock finisher LH
㉕ Seatback board LH
㉖ Center headrest
㉗ Headrest support 1 LH
㉘ Headrest support 2 LH
㉙ Headrest support 3 LH
㉚ Headrest holder (lock)
㉛ Headrest holder (free)
㉜ Seat belt finisher
㉝ Center seat belt*
㉞ Seatback frame RH
㉟ Hinge bracket RH
㊱ Center hinge bracket
㊲ ISO-FIX bracket

: N·m (kg-m, in-lb)

: N·m (kg-m, ft-lb)

*:Tighten together with seat belt retractor. Refer to SB-14, "Exploded View".

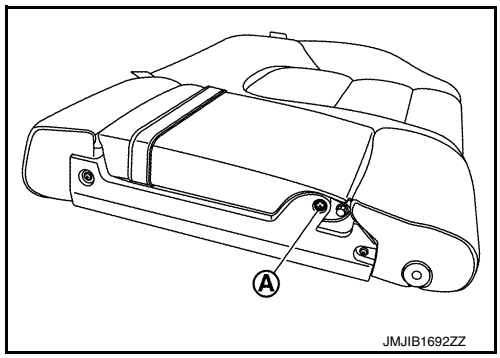
ARMREST

ARMREST : Disassembly and Assembly

INFOID:0000000013549077

DISASSEMBLY

1. Remove armrest fixing screw Ⓐ, and then remove armrest.



2. Remove armrest bracket cover (LH and RH).

ASSEMBLY

Assemble in the reverse order of disassembly.

SEAT CUSHION

SEAT CUSHION : Removal and Installation

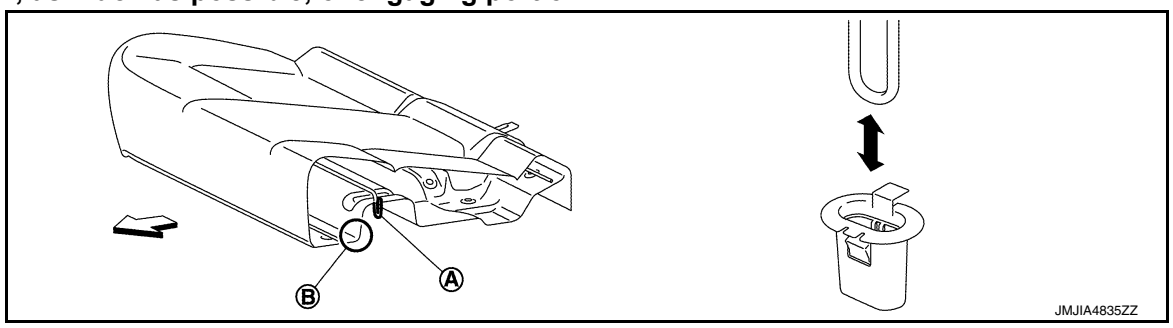
INFOID:0000000013549078

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

REMOVAL

1. Disengage ISO-FIX escutcheon.
2. Lift up seat cushion at a close position Ⓑ of engaging portion Ⓐ and disengage seat cushion hook.
   CAUTION:
   Seat cushion wire close to engaging portion deforms, if excessive force is applied to seat cushion front end when removing seat cushion.

To avoid the deformation, be careful to remove seat cushion while applying force to close position, as much as possible, of engaging portion.



⇦ : Vehicle front

3. Pull out seat belt buckle from seat cushion and then remove seat cushion.

INSTALLATION

Install in the reverse order of removal.

SEAT CUSHION : Disassembly and Assembly

INFOID:0000000013549079

DISASSEMBLY

Remove hog rings, and then separate seat cushion trim and seat cushion pad.

CAUTION:

Before performing separating operation, check the installation position of hog rings.

ASSEMBLY

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

CAUTION:

- **For hog ring that is removed or crimped unsuccessfully, fix it by using a new hog ring. (Never reuse hog ring.)**
- **Always install the hog rings in position.**

SEATBACK

SEATBACK : Removal and Installation

INFOID:0000000013549080

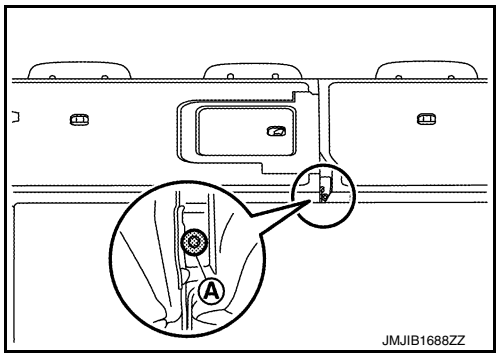
CAUTION:

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

REMOVAL

Standard Seat

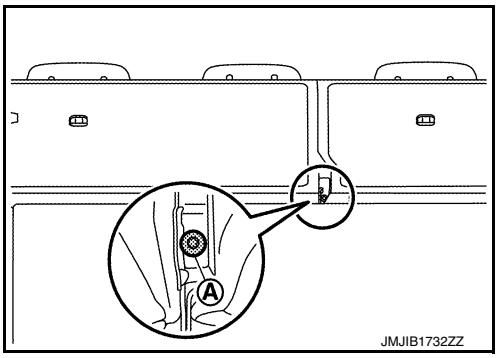
1. Remove seat cushion. Refer to SE-80, "SEAT CUSHION : Removal and Installation".
2. Remove center seat belt floor anchor. Refer to SB-15, "SEAT BELT RETRACTOR : Removal and Installation".
3. Fold seatback toward vehicle front.
4. Remove center hinge bracket fixing screw Ⓐ, and then open center hinge bracket upper side.



5. Remove seatback (LH and RH) from vehicle.

Sport Seat

1. Remove seat cushion. Refer to SE-80, "SEAT CUSHION : Removal and Installation".
2. Disconnect ambient lamp harness connector.
3. Remove center seat belt floor anchor. Refer to SB-15, "SEAT BELT RETRACTOR : Removal and Installation".
4. Fold seatback toward vehicle front.
5. Remove center hinge bracket fixing screw Ⓐ, and then open center hinge bracket upper side.



6. Remove seatback (LH and RH) from vehicle.

INSTALLATION

Install in the reverse order of removal.

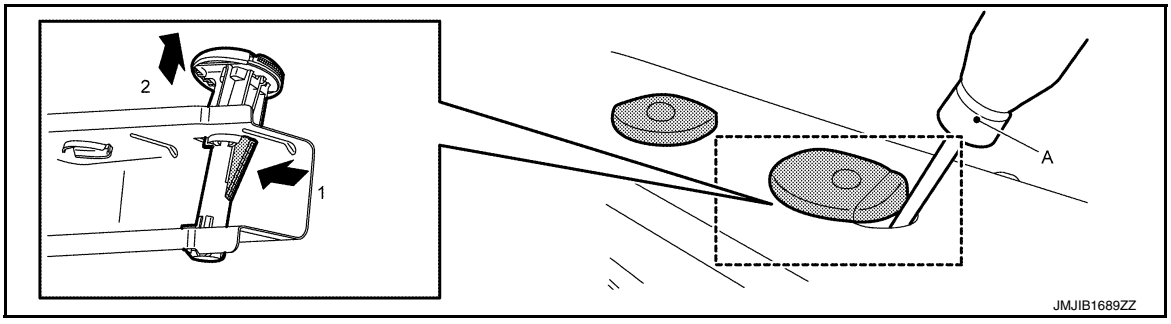
SEATBACK : Disassembly and Assembly

INFOID:0000000013549081

DISASSEMBLY

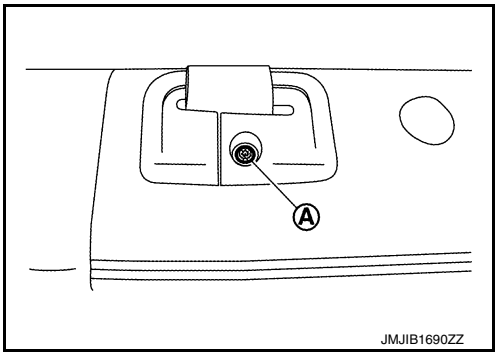
Standard Seat

1. Remove headrest.
2. Remove headrest holder using a remover tool (A) according to the numerical order 1→2 as shown in the figure.



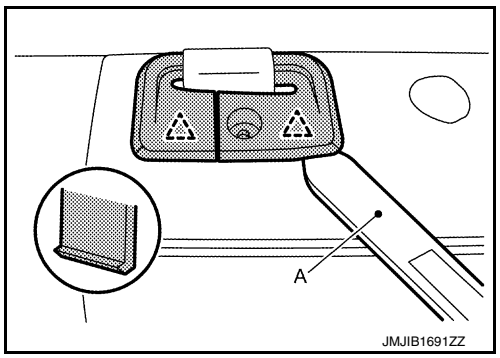
3. Remove seat belt finisher.

a. Remove seat belt finisher fixing screw Ⓐ.



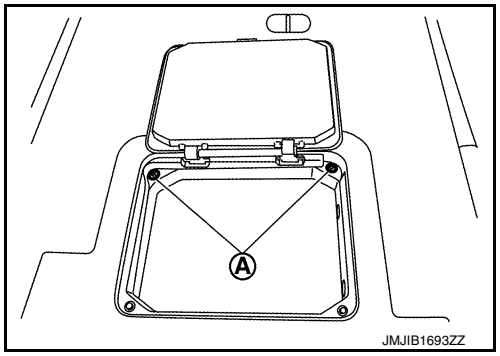
b. Disengage seat belt finisher fixing pawls using a remover tool (A), and then remove seat belt finisher.

: Pawl

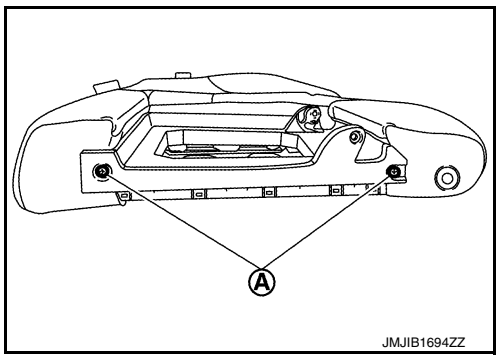


4. Remove armrest. Refer to SE-80, "ARMREST : Disassembly and Assembly".
5. Remove armrest frame.

a. Remove armrest rear frame fixing screw Ⓐ.
- Back side

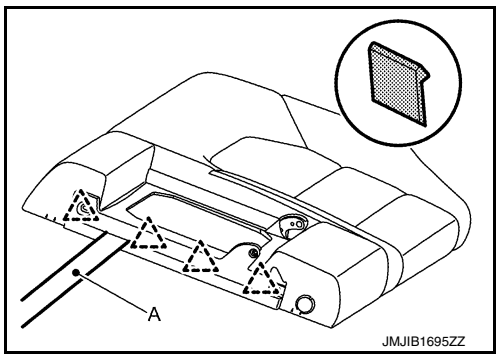


- RH side



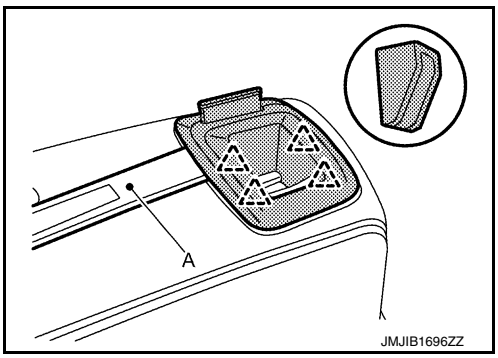
b. Disengage armrest frame fixing pawls using a remover tool (A), and then remove armrest frame.

: Pawl

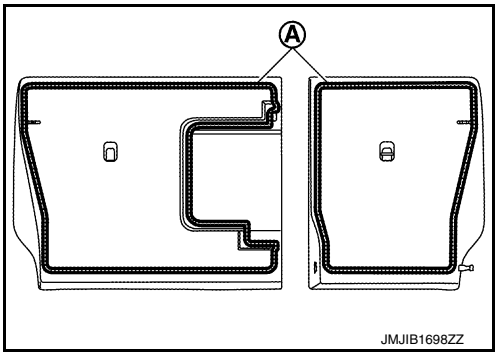


6. Disengage rear seatback lock finisher pawls using a remover tool (A), and then remove rear seatback lock finisher.

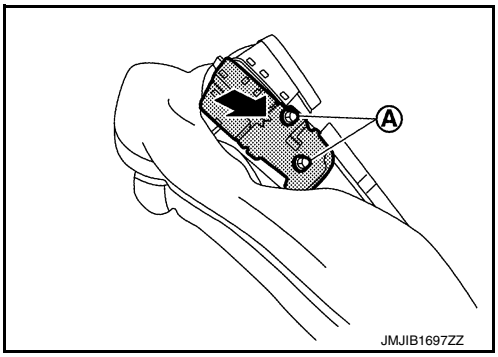
: Pawl



7. Disengage seatback board fixing retainers Ⓐ.



8. Remove rear seatback lock mounting bolts Ⓐ, and then remove rear seatback lock.

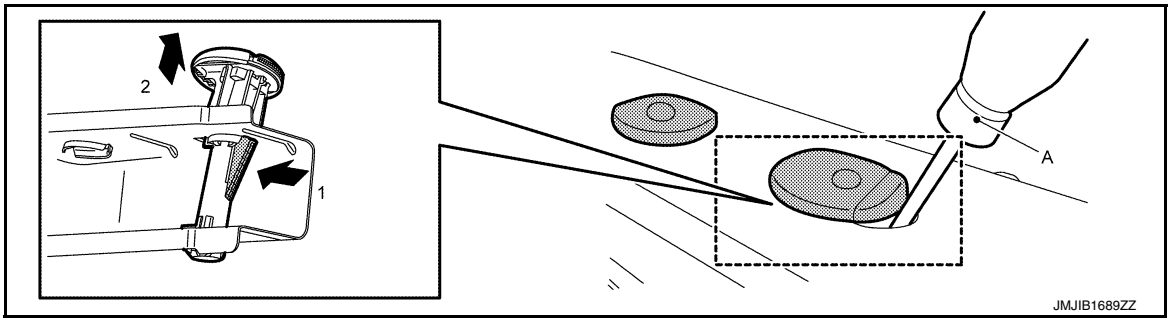


9. Remove seatback trim and seatback pad as a set.
10. Remove hog rings, and then separate seatback trim and seatback pad.

CAUTION:
Before performing separating operation, check the installation position of hog rings.

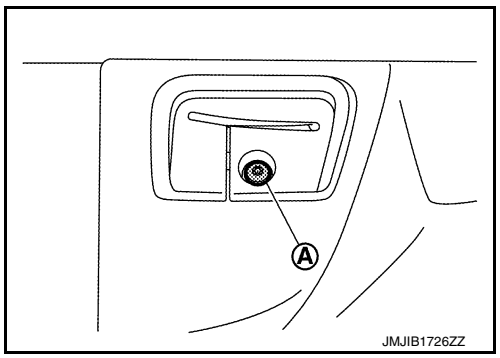
Sport Seat

1. Remove headrest.
2. Remove headrest holder using a remover tool (A) according to the numerical order 1→2 as shown in the figure.



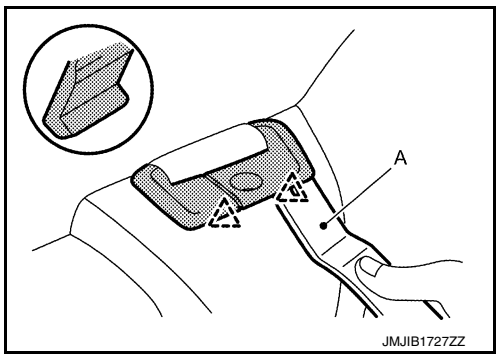
3. Remove seat belt finisher.

a. Remove seat belt finisher fixing screw Ⓐ.



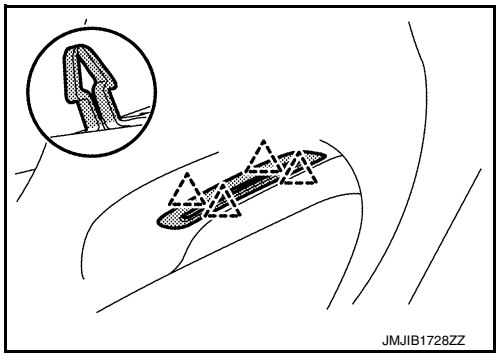
b. Disengage seat belt finisher fixing pawls using a remover tool (A), and then remove seat belt finisher.

: Pawl



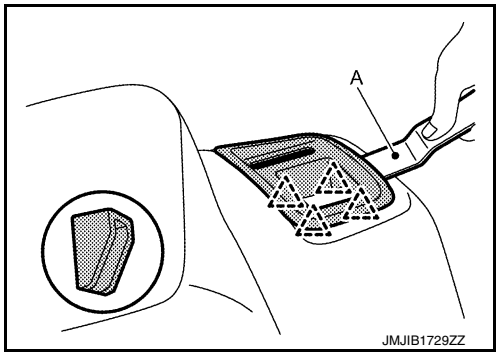
4. Disengage fixing pawls, and then remove ambient lamp finisher.

: Pawl

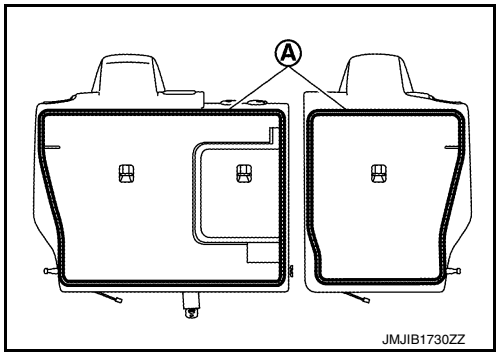


5. Disengage rear seatback lock finisher pawls using a remover tool (A), and then remove rear seatback lock finisher.

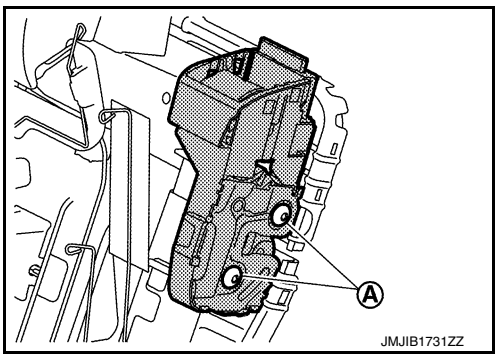
: Pawl



6. Disengage seatback board fixing retainers Ⓐ.



7. Remove ambient lamp harness from seatback trim.
8. Remove ambient lamp bracket.
9. Remove ambient lamp. Refer to INL-140, "SEAT : Removal and Installation".
10. Remove rear seatback lock mounting bolts Ⓐ, and then remove rear seatback lock.



11. Remove seatback trim and seatback pad as a set.
12. Remove hog rings, and then separate seatback trim and seatback pad.
    CAUTION:
    Before performing separating operation, check the installation position of hog rings.

ASSEMBLY

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

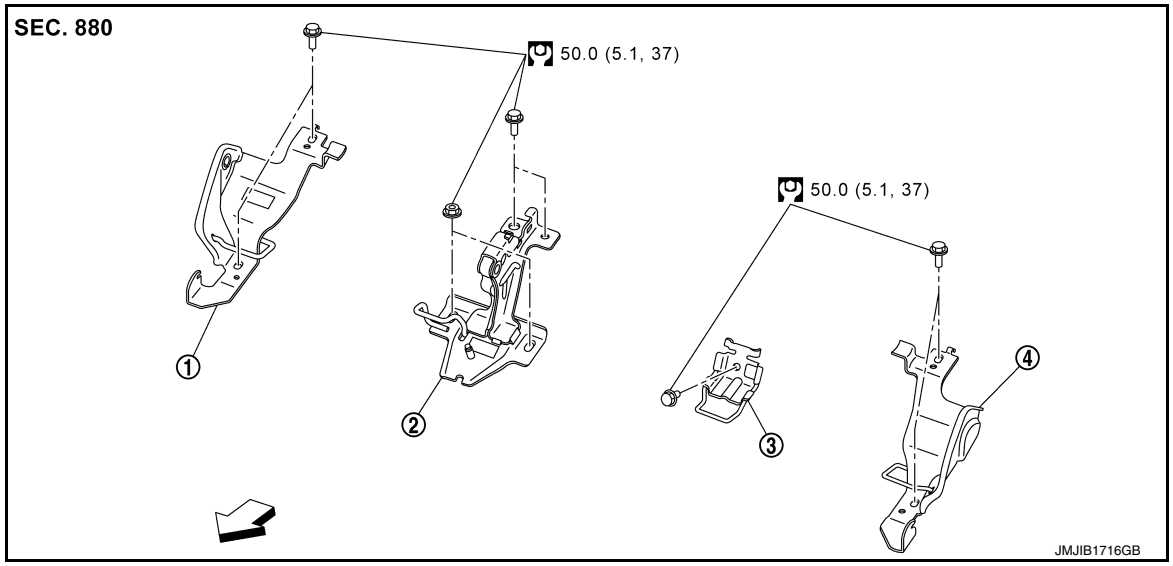
CAUTION:

- **Always install the hog rings in position.**
- **For hog ring that is removed or crimped unsuccessfully, fix it by using a new hog ring. (Never reuse hog ring.)**
- **Before installing headrest holder, check its orientation (front/rear and right/left).**

CHILD SEAT ANCHOR

Exploded View

INFOID:0000000013549082



① Hinge bracket RH
② Center hinge bracket
③ ISO-FIX bracket
④ Hinge bracket LH
⇦ : Vehicle front
: N·m (kg-m, ft-lb)

Removal and Installation

INFOID:0000000013549083

REMOVAL

1. Remove seat cushion. Refer to SE-80, "SEAT CUSHION : Removal and Installation".
2. Remove seat belt buckle as needed. Refer to SB-19, "SEAT BELT BUCKLE : Removal and Installation".
3. Remove seatback. Refer to SE-81, "SEATBACK : Removal and Installation".
4. Remove hinge bracket (LH and RH) mounting bolts, and then remove hinge bracket (LH and RH).
5. Remove center hinge bracket mounting bolts and nuts, and then remove center hinge bracket.
6. Remove ISO-FIX bracket mounting bolt, and then remove ISO-FIX bracket.

INSRALLATION

Note the following item, and then install in the reverse order of removal.

CAUTION:

When installing, temporary tighten all fixing bolts, and then tighten bolts to specified torque.

LUMBAR SUPPORT SWITCH

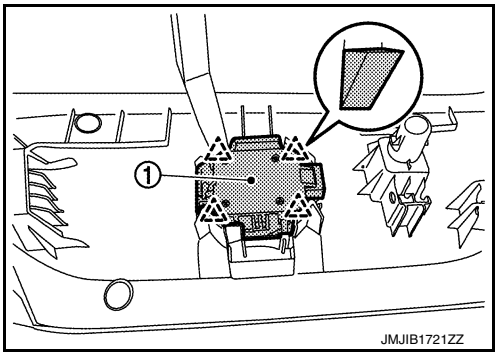
Removal and Installation

INFOID:0000000013549084

REMOVAL

1. Remove seat cushion outside finisher outer side. Refer to SE-76, "SEAT CUSHION FINISHER : Disassembly and Assembly".
2. Disconnect lumbar support switch connector.
3. Disengage fixing pawls, and then remove lumbar support switch ① from seat cushion outside finisher outer side.

△ : Pawl



INSTALLRATION

Install in the reverse order of removal.

LUMBAR SUPPORT CONTROL UNIT

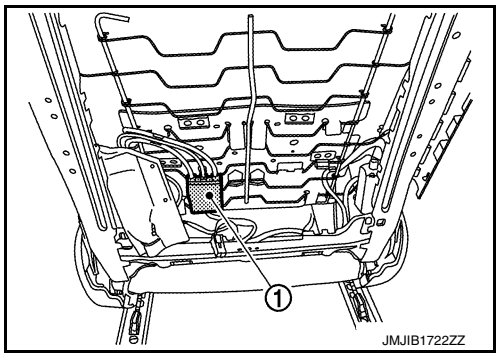
Removal and Installation

INFOID:0000000013549085

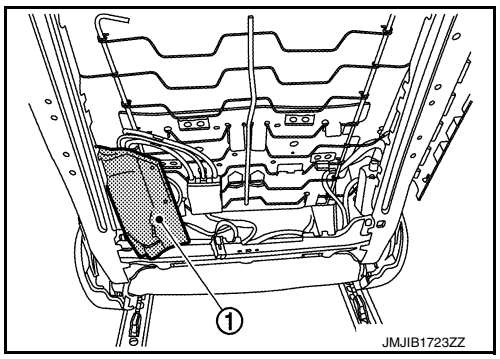
NOTE:
Always replace lumbar support control unit with lumbar support pump and lumbar support air cushion as a set.

REMOVAL

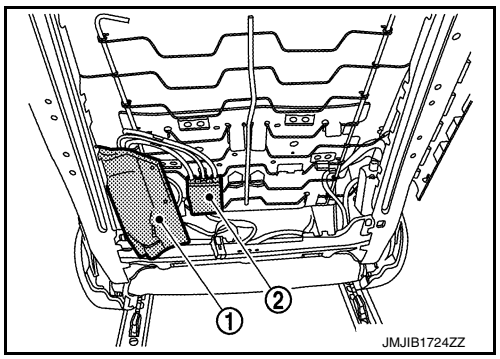
1. Remove seatback. Refer to SE-67, "SEATBACK : Disassembly and Assembly".
2. Disconnect the connector of lumbar support control unit ①.



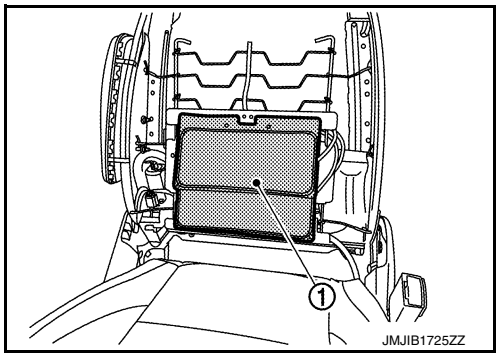
3. Disconnect the connector of lumbar support pump ①.



4. Disengage lumbar support pump ① and lumbar support control unit ② from seatback suspension.
   NOTE:
   Do not disconnect the tube between lumbar support control unit, lumbar support pump and lumbar support air cushion.



5. Remove lumbar support air cushion ① with lumbar support control unit and lumbar support pump from seatback suspension.



INSTALLRATION

Install in the reverse order of removal.

HEATED SEAT SWITCH

Removal and Installation

INFOID:0000000013549086

REMOVAL

Remove upper control panel control unit. Refer to BCS-252, "Removal and Installation".

INSTALLATION

Install in the reverse order of removal.