

SECTION

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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

WorkFlow

INFOID:000000003824895

DETAILED FLOW

1.OBTAIN INFORMATION ABOUT SYMPTOM

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

>> GO TO 2.

2.REPRODUCE THE MALFUNCTION INFORMATION

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

>> GO TO 3.

3.IDENTIFY THE MALFUNCTIONING SYSTEM WITH "SYMPTOM DIAGNOSIS"

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

>> GO TO 4.

4.IDENTIFY THE MALFUNCTIONING PARTS WITH "COMPONENT DIAGNOSIS"

Perform the diagnosis with "Component Diagnosis" of the applicable system.

>> GO TO 5.

5.REPAIR OR REPLACE THE MALFUNCTIONING PARTS

Repair or replace the specified malfunctioning parts.

>> GO TO 6.

6.FINAL CHECK

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

Are the malfunctions corrected?

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

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REAR SUNSHADE SYSTEM

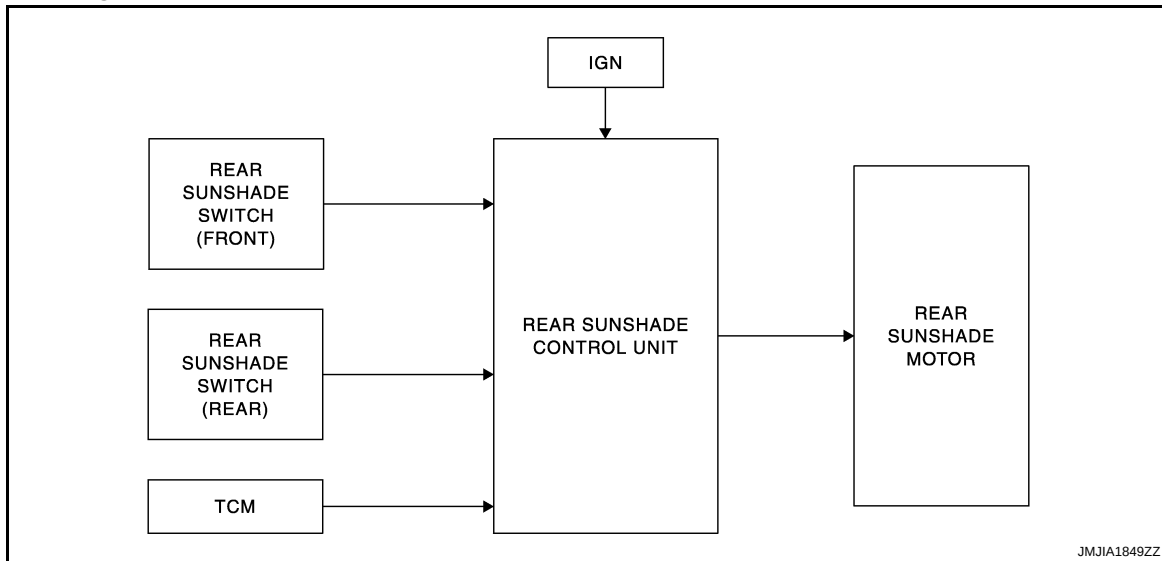
< FUNCTION DIAGNOSIS >

FUNCTION DIAGNOSIS

REAR SUNSHADE SYSTEM

System Diagram

INFOID:000000003819258



JMJIA1849ZZ

System Description

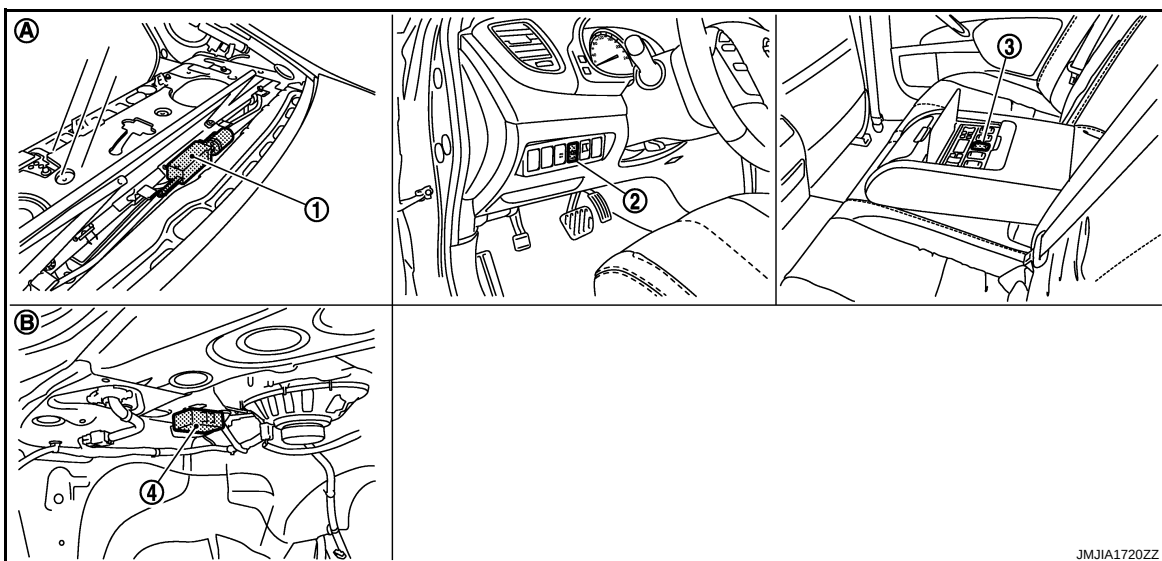
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REAR SUNSHADE OPERATION

- When pressing the UP button of the rear sunshade switch, the rear sunshade moves to the upward position.
- When pressing the DOWN button of the rear sunshade switch, the rear sunshade moves to the downward position.
- When shifting the selector lever to the "R" position while the rear sunshade is in the upward position, the rear sunshade moves automatically to the downward position.

Component Parts Location

INFOID:000000003819263



JMJIA1720ZZ

1. Rear sunshade motor B94
 2. Rear sunshade switch (front) M211
 3. Rear sunshade switch (rear) M449
 4. Rear sunshade control unit B93
- A. View with the rear parcel shelf finisher removed B. Trunk room upper left

REAR SUNSHADE SYSTEM

< FUNCTION DIAGNOSIS >

Component Description

INFOID:0000000003819264

Component	Function
Rear sunshade motor	Moves rear sunshade
Rear sunshade switch (front and rear)	Sends UP and DOWN input signal to rear sunshade control unit
Rear sunshade control unit	Moves the rear sunshade upward or downward according to the UP and DOWN signals from the rear sunshade switch

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INT

POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

COMPONENT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT

REAR SUNSHADE CONTROL UNIT

REAR SUNSHADE CONTROL UNIT : Diagnosis Procedure

INFOID:000000003819270

1.CHECK POWER SUPPLY

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

(+)		(-)	Voltage (V) (Approx.)
Rear sunshade control unit			
Connector	Terminal		
B93	8	Ground	Battery voltage

Is the inspection result normal?

- YES >> GO TO 2.
NO >> Repair or replace harness.

2.CHECK GROUND CIRCUIT

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

Rear sunshade control unit		Ground	Continuity
Connector	Terminal		
B93	1		Existed
	4		

Is the result normal?

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

3.CHECK INTERMITTENT INCIDENT

Refer to [GI-35. "Intermittent Incident"](#).

>> INSPECTION END

REAR SUNSHADE SWITCH

< COMPONENT DIAGNOSIS >

REAR SUNSHADE SWITCH FRONT

FRONT : Description

INFOID:000000003866163

When rear sunshade switch (front) is operated, rear sunshade motor is activated.

FRONT : Component Function Check

INFOID:000000003866168

1.CHECK REAR SUNSHADE FUNCTION

Check that rear sunshade moves upwards and downwards when rear sunshade switch (front) is operated.

Is the inspection result normal?

- YES >> Rear sunshade function is OK.
NO >> Refer to [INT-7. "FRONT : Diagnosis Procedure"](#).

FRONT : Diagnosis Procedure

INFOID:000000003820122

1.CHECK REAR SUNSHADE SWITCH (FRONT) POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect rear sunshade switch (front) connector.
3. Turn ignition switch ON.
4. Check voltage between rear sunshade switch (front) harness connector and ground.

(+)		(-)	Voltage (V) (Approx.)
Rear sunshade switch (front)			
Connector	Terminal		
M211	3	Ground	Battery voltage
	4		

Is the inspection result normal?

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

2.CHECK REAR SUNSHADE SWITCH (FRONT) GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Check continuity between rear sunshade switch (front) harness connector and ground.

Rear sunshade switch (front)		Ground	Continuity
Connector	Terminal		
M211	1		Existed

Is the inspection result normal?

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

3.CHECK REAR SUNSHADE SWITCH (FRONT) CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect rear sunshade switch (front and rear) connector and rear sunshade control unit connector.
3. Check continuity between rear sunshade switch (front) harness connector and rear sunshade control unit harness connector.

Rear sunshade switch (front)		Rear sunshade control unit		Continuity
Connector	Terminal	Connector	Terminal	
M211	3	B93	5	Existed
	4		6	

4. Check continuity between rear sunshade switch harness connector and ground.

REAR SUNSHADE SWITCH

< COMPONENT DIAGNOSIS >

Rear sunshade switch (front)		Ground	Continuity
Connector	Terminal		
M211	3		Not existed
	4		

Is the inspection result normal?

YES >> Replace rear sunshade control unit. Refer to [INT-61. "Removal and Installation"](#).

NO >> Repair or replace harness.

4.CHECK REAR SUNSHADE SWITCH (FRONT)

Check rear sunshade switch (front). Refer to [INT-8. "FRONT : Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace rear sunshade switch (front). Refer to [INT-62. "FRONT : Removal and Installation"](#).

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-35. "Intermittent Incident"](#).

>> INSPECTION END

FRONT : Component Inspection

INFOID:000000003819272

1..CHECK REAR SUNSHADE SWITCH (FRONT)

1. Turn ignition switch OFF.
2. Disconnect rear sunshade switch (front) connector.
3. Check continuity between rear sunshade switch (front) terminals.

Rear sunshade switch (front)		Condition	Continuity
Terminal			
3	1	UP	Existed
		NEUTRAL	Not existed
4		DOWN	Existed
		NEUTRAL	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace rear sunshade switch (front). Refer to [INT-62. "FRONT : Removal and Installation"](#).

REAR

REAR : Description

INFOID:000000003866169

When rear sunshade switch (rear) is operated, rear sunshade motor is activated.

REAR : Component Function Check

INFOID:000000003866170

1.CHECK REAR SUNSHADE FUNCTION

Check that rear sunshade moves upwards and downwards when rear sunshade switch (rear) is operated.

Is the inspection result normal?

YES >> Rear sunshade function is OK.

NO >> Refer to [INT-8. "REAR : Diagnosis Procedure"](#).

REAR : Diagnosis Procedure

INFOID:000000003820123

1.CHECK REAR SUNSHADE SWITCH (REAR) POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.

REAR SUNSHADE SWITCH

< COMPONENT DIAGNOSIS >

2. Disconnect rear sunshade switch (rear) connector.
3. Turn ignition switch ON.
4. Check voltage between rear sunshade switch (rear) harness connector and ground.

(+)		(-)	Voltage (V) (Approx.)
Rear sunshade switch (rear)			
Connector	Terminal		
B449	3	Ground	Battery voltage
	4		

Is the inspection result normal?

YES >> GO TO 2.

NO >> GO TO 3.

2.CHECK REAR SUNSHADE SWITCH (REAR) GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Check continuity between rear sunshade switch (rear) harness connector and ground.

Rear sunshade switch (rear)		Ground	Continuity
Connector	Terminal		
B449	1		
			Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

3.CHECK REAR SUNSHADE SWITCH (REAR) CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect rear sunshade switch (front and rear) connector and rear sunshade control unit connector.
3. Check continuity between rear sunshade switch (rear) harness connector and rear sunshade control unit harness connector.

Rear sunshade switch (rear)		Rear sunshade control unit		Continuity
Connector	Terminal	Connector	Terminal	
B449	3	B93	5	
	4		6	Existed

4. Check continuity between rear sunshade switch harness connector and ground.

Rear sunshade switch (rear)		Ground	Continuity
Connector	Terminal		
B449	3		
	4		Not existed

Is the inspection result normal?

YES >> Replace rear sunshade control unit. Refer to [INT-61, "Removal and Installation"](#).

NO >> Repair or replace harness.

4.CHECK REAR SUNSHADE SWITCH (REAR)

Check rear sunshade switch (rear). Refer to [INT-10, "REAR : Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace rear sunshade switch (rear). Refer to [INT-63, "REAR : Removal and Installation"](#).

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-35, "Intermittent Incident"](#).

REAR SUNSHADE SWITCH

< COMPONENT DIAGNOSIS >

>> INSPECTION END

REAR : Component Inspection

INFOID:000000003819274

1..CHECK REAR SUNSHADE SWITCH (REAR)

1. Turn ignition switch OFF.
2. Disconnect rear sunshade switch (rear) connector.
3. Check continuity between rear sunshade switch (rear) terminals.

Rear sunshade switch (rear)		Condition	Continuity
Terminal			
3	1	UP	Existed
		NEUTRAL	Not existed
4		DOWN	Existed
		NEUTRAL	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace rear sunshade switch (rear). Refer to [INT-63, "REAR : Removal and Installation"](#).

REAR SUNSHADE MOTOR

< COMPONENT DIAGNOSIS >

REAR SUNSHADE MOTOR

Description

INFOID:000000003866171

When rear sunshade switch (front and rear) signals are received, rear sunshade moves upwards or downwards.

Component Function Check

INFOID:000000003866172

1.CHECK REAR SUNSHADE MOTOR OPERATION

Check rear sunshade motor operation with rear sunshade switch (front and rear).

Is the inspection result normal?

- YES >> Rear sunshade motor is OK.
NO >> Refer to [INT-11. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000003820124

1.CHECK REAR SUNSHADE MOTOR INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect rear sunshade motor connector.
3. Turn ignition switch ON.
4. Check voltage between rear sunshade motor harness connector and ground.

(+)Rear sunshade motor		(-)	Condition		Voltage (V) (Approx.)
Connector	Terminal				
B94	1	Ground	Rear sunshade switch	UP	Battery voltage
				DOWN	0
	2			UP	0
				DOWN	Battery voltage

Is the inspection result normal?

- YES >> Replace rear sunshade motor. Refer to [INT-45. "Removal and Installation"](#).
NO >> GO TO 2.

2.CHECK REAR SUNSHADE MOTOR CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect rear sunshade motor connector and rear sunshade control unit connector.
3. Check continuity between rear sunshade motor harness connector and rear sunshade control unit harness connector.

Rear sunshade motor		Rear sunshade control unit		Continuity
Connector	Terminal	Connector	Terminal	
B94	1	B93	3	Existed
	2		2	

4. Check continuity between rear sunshade motor harness connector and ground.

Rear sunshade motor		Ground	Continuity
Connector	Terminal		
B94	1		Not existed
	2		

Is the inspection result normal?

- YES >> Replace rear sunshade control unit. Refer to [INT-61. "Removal and Installation"](#).
NO >> Repair or replace harness.

REVERSE SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

REVERSE SIGNAL CIRCUIT

Description

INFOID:000000003866177

Reverse input signal is sent to rear sunshade control unit.

Component Function Check

INFOID:000000003866178

1.CHECK REVERSE INPUT SIGNAL

Check when shifting the selector lever to the R position with the rear sunshade moved to the downward position.

Is the inspection result normal?

YES >> Reverse input signal is OK.

NO >> Refer to [INT-12, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000003820127

1.CHECK REAR SUNSHADE CONTROL UNIT REVERSE INPUT SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect rear sunshade control unit connector.
3. Turn ignition switch ON.
4. Shift selector lever to the R position.
5. Check voltage between rear sunshade control unit harness connector and ground.

(+)Rear sunshade control unit		(-)	Condition		Voltage (V) (Approx.)
Connector	Terminal				
B93	7	Ground	Selector lever	R position	Battery voltage
				Other than	0

Is the inspection result normal?

YES >> Replace rear sunshade control unit. Refer to [INT-61, "Removal and Installation"](#).

NO >> Check back up lamp circuit. Refer to [EXL-274, "Wiring Diagram - BACK-UP LAMP -"](#).

REAR SUNSHADE CONTROL UNIT

< ECU DIAGNOSIS >

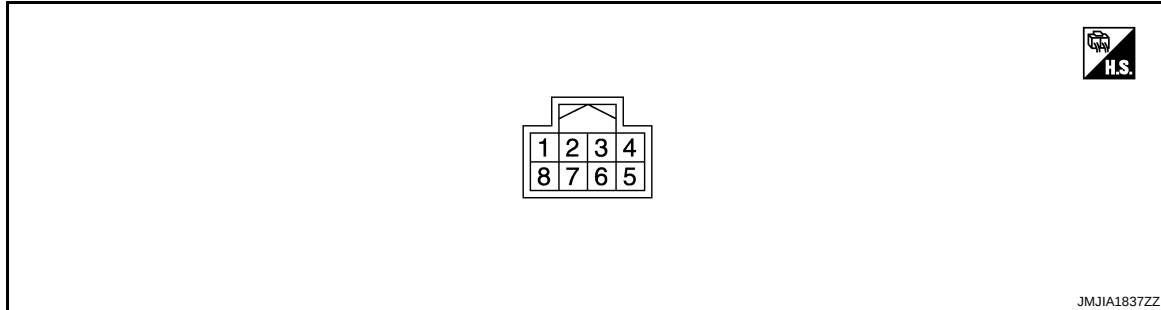
ECU DIAGNOSIS

REAR SUNSHADE CONTROL UNIT

Reference Value

INFOID:000000003819279

TERMINAL LAYOUT



PHYSICAL VALUES

Terminal No.		Description		Condition	Voltage (V) (Approx.)
(+)	(-)	Signal name	Input/ Output		
1 (B)	Ground	Switch ground	—	—	0
2 (GR)	Ground	Rear sunshade motor operates down signal	Output	When rear sunshade switch is operated DOWN	Battery voltage
3 (R)	Ground	Rear sunshade motor operates up signal	Output	When rear sunshade switch is operated UP	Battery voltage
4 (B)	Ground	Ground	—	—	0
5 (V)	Ground	Rear sunshade up signal	Output	Ignition switch ON	Battery voltage
				Sunshade switch UP (When the switch is pressed)	0
6 (BR)	Ground	Rear sunshade down signal	Output	Ignition switch ON	Battery voltage
				Sunshade switch DOWN (When the switch is pressed)	0
7 (R)	Ground	Reverse signal	Input	Self lever is in the R position	Battery voltage
				Other than above	0
8 (SB)	Ground	Ignition power supply	Input	Ignition switch ON	Battery voltage

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REAR SUNSHADE CONTROL UNIT

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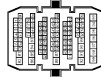
REAR SUNSHADE

Connector No.	B4	Connector No.	B93	Connector No.	B11	Connector No.	B94
Connector Name	WIRE TO WIRE	Connector Name	REAR SUNSHADE UNIT	Connector Name	WIRE TO WIRE	Connector Name	REAR SUNSHADE MOTOR
Connector Type	NS16MW-CS	Connector Type	TH68FW-NH	Connector Type	TH68MH-CS19	Connector Type	TK02MW



1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21

Terminal No.	Color of Wire	Signal Name [Specification]
15	R	-



Terminal No.	Color of Wire	Signal Name [Specification]
72	BR	-
73	V	-
74	G	-



1	2	3	4
5	6	7	8

Terminal No.	Color of Wire	Signal Name [Specification]
1	B	SW GND
2	GR	MOTOR(-)
3	R	MOTOR(+)
4	B	GND
5	V	UP SW
6	BR	DOWN SW
7	R	REVERSE SG
8	SB	IGN SW



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20

Connector No.	B86
Connector Name	WIRE TO WIRE
Connector Type	TK10MW-NS8



3	6	1
5	4	

Connector No.	B448
Connector Name	REAR SUNSHADE SWITCH (REAR)
Connector Type	TK08FW-IV



10	9	8	7	6	5	4	3	2	1
18	17	16	15	14	13	12	11	10	9

Connector No.	B486
Connector Name	WIRE TO WIRE
Connector Type	TK10FW-NS8



1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21

Connector No.	E6
Connector Name	WIRE TO WIRE
Connector Type	TK16MGY-IV



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	-
2	BR	-
3	V	-



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
3	W/L	-
4	W/V	-



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
2	W/V	-
3	W/L	-

Terminal No.	Color of Wire	Signal Name [Specification]
4	R	-

JCJWM0311GE

REAR SUNSHADE CONTROL UNIT

< ECU DIAGNOSIS >

REAR SUNSHADE

Connector No.	E7
Connector Name	WIRE TO WIRE
Connector Type	NS10MW-CS



1	2	3	4
5	6	7	8
9	10		

Terminal No.	Color of Wire	Signal Name [Specification]
3	LG	-
8	R	-

Connector No.	E18
Connector Name	BACK-UP LAMP RELAY
Connector Type	MS02FL-M2-LC



5	3	2	1
---	---	---	---

Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	-
2	R	-
3	LG	-
5	R	-

Connector No.	E104
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



7	6	5	4
3	2	1	
16	15	14	13
12	11	10	9
8			

Terminal No.	Color of Wire	Signal Name [Specification]
15	R	-

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TF70MM-CS10-M3



Terminal No.	Color of Wire	Signal Name [Specification]
10	LG	-

Connector No.	F23
Connector Name	TOM (TRANSMISSION CONTROL MODULE)
Connector Type	RH40FB-RZ8-L-RH



51	52	33	34	35	36	37	38	39	40	47	48
21	22	23	24	25	26	27	28	29	30	45	46
11	12	13	14	15	16	17	18	19	20	43	44
1	2	3	4	5	6	7	8	9	10	41	42

Terminal No.	Color of Wire	Signal Name [Specification]
19	G/B	REV LAMP RELAY

Connector No.	F57
Connector Name	PARK / NEUTRAL POSITION SWITCH
Connector Type	YDX06FB-HS4



8	4	3	7
2	6	5	1

Terminal No.	Color of Wire	Signal Name [Specification]
3	LG	-
5	P/B	-

Connector No.	F121
Connector Name	WIRE TO WIRE
Connector Type	NS10FW-CS



4	3	2	1
10	9	8	7
6	5		

Terminal No.	Color of Wire	Signal Name [Specification]
3	O	-
8	R	-

Connector No.	F123
Connector Name	WIRE TO WIRE
Connector Type	TK16FGY-1V



7	6	5	4
3	2	1	
16	15	14	13
12	11	10	9
8			

Terminal No.	Color of Wire	Signal Name [Specification]
4	G/B	-

JCJWM0312GE

REAR SUNSHADE CONTROL UNIT

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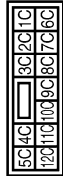
REAR SUNSHADE

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



Terminal No.	2A
Color of Wire	G/O
Signal Name [Specification]	-

Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FW-CS



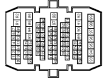
Terminal No.	12C
Color of Wire	O
Signal Name [Specification]	-

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH10FW-CS10-M3



Terminal No.	10
Color of Wire	O
Signal Name [Specification]	-

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS19



Terminal No.	72
Color of Wire	R
Signal Name [Specification]	-
Terminal No.	73
Color of Wire	V
Signal Name [Specification]	-
Terminal No.	74
Color of Wire	G
Signal Name [Specification]	-

Connector No.	M211
Connector Name	REAR SUNSHADE SWITCH (FRONT)
Connector Type	TK06FW-1V



Terminal No.	1
Color of Wire	B
Signal Name [Specification]	-
Terminal No.	3
Color of Wire	V
Signal Name [Specification]	-
Terminal No.	4
Color of Wire	R
Signal Name [Specification]	-

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INT

REAR SUNSHADE DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

REAR SUNSHADE DOES NOT OPERATE

WHEN TURNING ON REAR SUNSHADE SWITCH (FRONT AND REAR)

WHEN TURNING ON REAR SUNSHADE SWITCH (FRONT AND REAR) : Diagnosis Procedure

INFOID:000000003820128

1.CHECK REAR SUNSHADE CONTROL UNIT POWER SUPPLY AND GROUND CIRCUIT

Check rear sunshade control unit power supply and ground circuit.

Refer to [INT-6, "REAR SUNSHADE CONTROL UNIT : Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK REAR SUNSHADE MOTOR

Check rear sunshade motor.

Refer to [INT-11, "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-35, "Intermittent Incident"](#).

NO >> GO TO 1.

WHEN TURNING ON REAR SUNSHADE SWITCH (FRONT)

WHEN TURNING ON REAR SUNSHADE SWITCH (FRONT) : Diagnosis Procedure

INFOID:000000003820130

1.CHECK REAR SUNSHADE SWITCH (FRONT)

Check rear sunshade switch (front).

Refer to [INT-7, "FRONT : Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-35, "Intermittent Incident"](#).

NO >> GO TO 1.

WHEN TURNING ON REAR SUNSHADE SWITCH (REAR)

WHEN TURNING ON REAR SUNSHADE SWITCH (REAR) : Diagnosis Procedure

INFOID:000000003820130

1.CHECK REAR SUNSHADE SWITCH (REAR)

Check rear sunshade switch (rear).

Refer to [INT-8, "REAR : Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

REAR SUNSHADE DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-35, "Intermittent Incident"](#).
NO >> GO TO 1.

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REAR SUNSHADE DOES NOT LOWER WHEN SHIFT LEVER IS IN THE "R" POSITION

< SYMPTOM DIAGNOSIS >

REAR SUNSHADE DOES NOT LOWER WHEN SHIFT LEVER IS IN THE "R" POSITION

Diagnosis Procedure

INFOID:0000000003820131

1.CHECK REVERSE SIGNAL CIRCUIT

Check reverse signal circuit.

Refer to [INT-12, "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-35, "Intermittent Incident"](#).

NO >> GO TO 1.

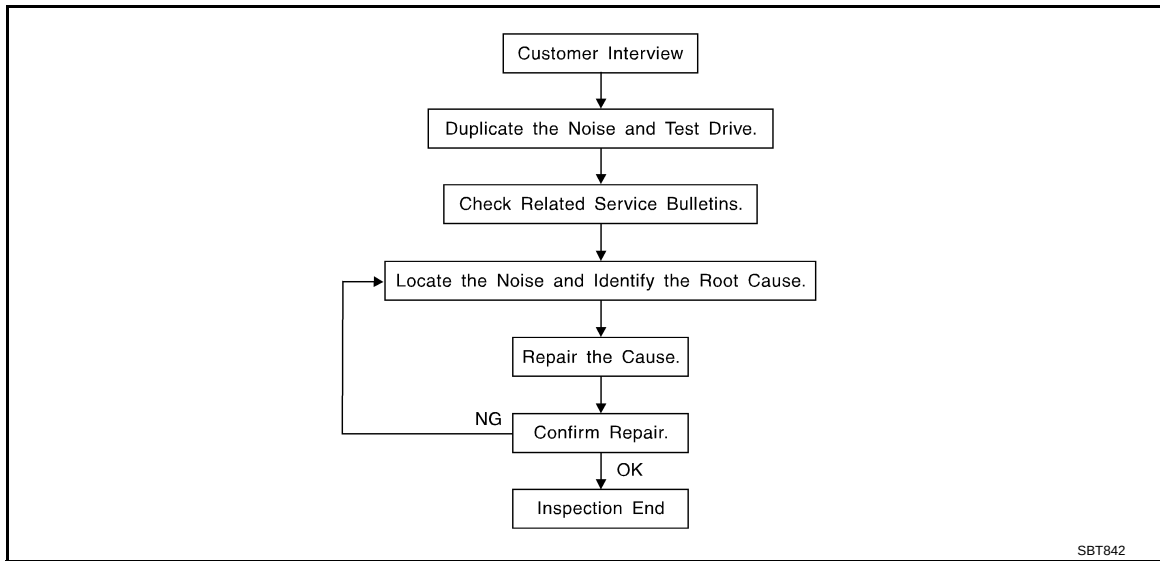
SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow

INFOID:000000003887243



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 [INT-25, "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.

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

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

- 1) Close a door.
 - 2) Tap or push/pull around the area where the noise appears to be coming from.
 - 3) Rev the engine.
 - 4) Use a floor jack to recreate vehicle "twist".
 - 5) At idle, apply engine load (electrical load, half-clutch on M/T 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 is are suspected to be the cause of the noise.
Do not use too much force when removing clips and fasteners, otherwise clips and fastener can be broken or lost during the repair, resulting in the creation of new noise.
 - Tapping or pushing/pulling the component that is are suspected to be the cause of the noise.
Do not tap or push/pull the component with excessive force, otherwise the noise will be eliminated only temporarily.
 - Feeling for a vibration by hand by touching the component(s) that is are suspected to be the cause of the noise.
 - Placing a piece of paper between components that is are suspected to be the cause of the noise.
 - Looking for loose components and contact marks.
Refer to [INT-23. "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.

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

Inspection Procedure

INFOID:000000003887244

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.

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

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.

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

Diagnostic Worksheet

INFOID:000000003887245



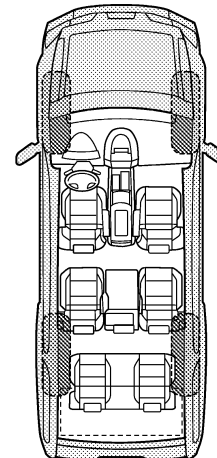
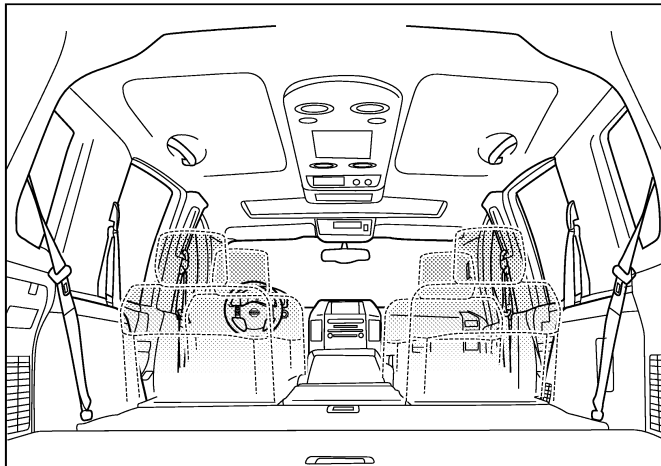
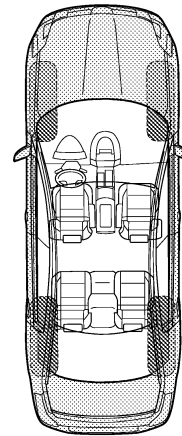
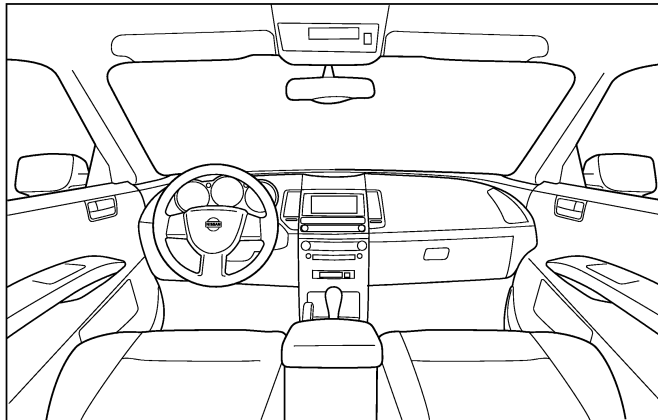
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

Dear Nissan Customer:

We are concerned about your satisfaction with your Nissan vehicle. Repairing a squeak or rattle sometimes can be very difficult. To help us fix your Nissan 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 advisor 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.

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SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

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

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

PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

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

INFOID:000000003819210

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

WARNING:

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

Precaution Necessary for Steering Wheel Rotation after Battery Disconnect

INFOID:000000003819211

NOTE:

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

This vehicle is equipped with a push-button ignition switch and a steering lock unit.

If the battery is disconnected or discharged, the steering wheel will lock and cannot be turned.

If turning the steering wheel is required with the battery disconnected or discharged, follow the procedure below before starting the repair operation.

OPERATION PROCEDURE

1. Connect both battery cables.

NOTE:

Supply power using jumper cables if battery is discharged.

2. Turn the push-button ignition switch to ACC position.
(At this time, the steering lock will be released.)
3. Disconnect both battery cables. The steering lock will remain released with both battery cables disconnected and the steering wheel can be turned.
4. Perform the necessary repair operation.
5. When the repair work is completed, re-connect both battery cables. With the brake pedal released, turn the push-button ignition switch from ACC position to ON position, then to LOCK position. (The steering wheel will lock when the push-button ignition switch is turned to LOCK position.)
6. Perform self-diagnosis check of all control units using CONSULT-III.

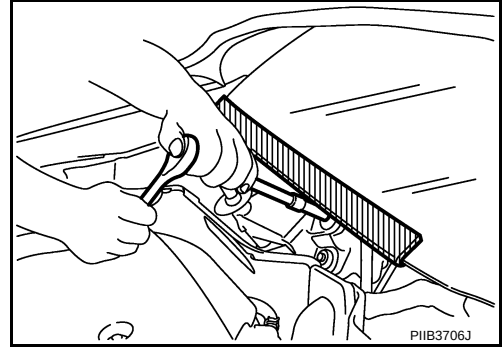
PRECAUTIONS

< PRECAUTION >

Precaution for Procedure without Cowl Top Cover

INFOID:000000003819212

When performing the procedure after removing cowl top cover, cover the lower end of windshield with urethane, etc.



Precaution for Work

INFOID:000000003819213

- After removing and installing the opening/closing parts, be sure to carry out fitting adjustments to check their operation.
- Check the lubrication level, damage, and wear of each part. If necessary, grease or replace it.

PREPARATION

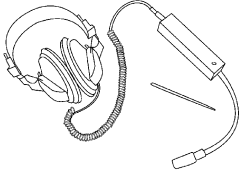
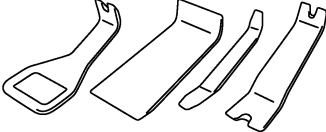
< PREPARATION >

PREPARATION

PREPARATION

Commercial Service Tools

INFOID:000000003819215

Tool name	Description
Engine ear	Location the noise
 SIIA0995E	
Remover tool	Removes clips, pawls, and metal clips
 PIIB7923J	
Power tool	
 PIIB1407E	

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FRONT DOOR FINISHER

< ON-VEHICLE REPAIR >

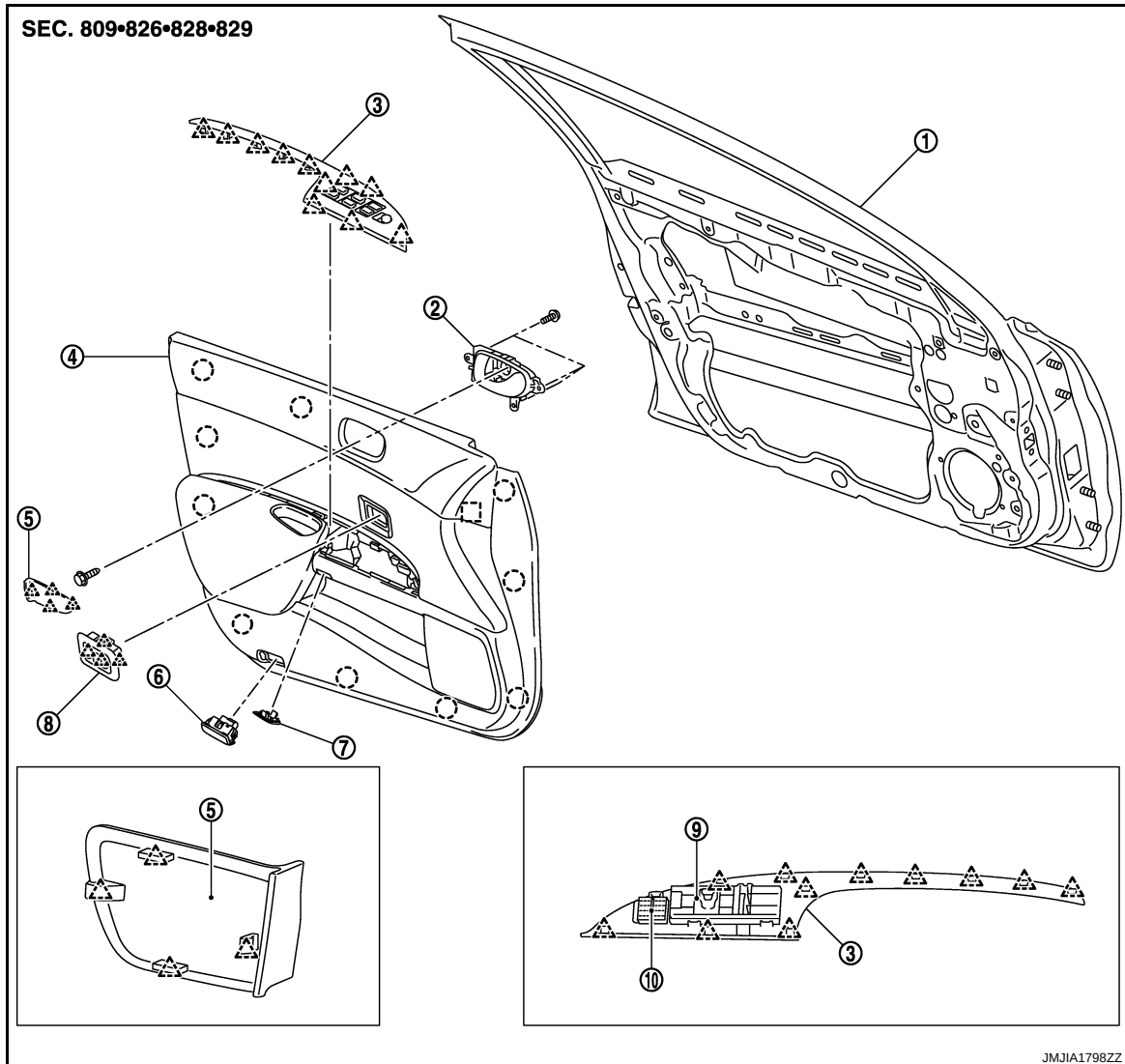
ON-VEHICLE REPAIR

FRONT DOOR FINISHER

DRIVER SIDE

DRIVER SIDE : Exploded View

INFOID:000000003819216



DRIVER SIDE : Removal and Installation

INFOID:000000003819217

CAUTION:

Wrap the tip of flat-bladed screwdriver with a cloth before remove.

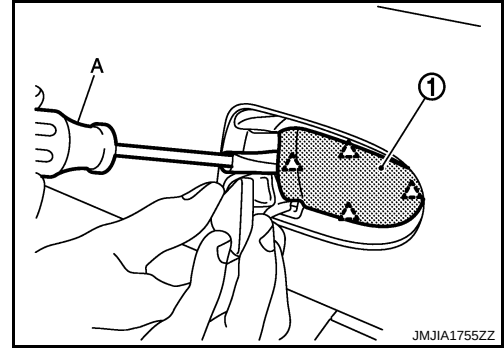
REMOVAL

FRONT DOOR FINISHER

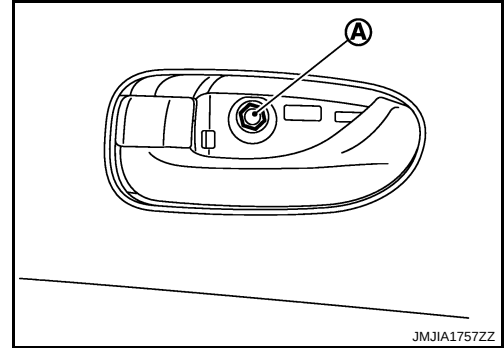
< ON-VEHICLE REPAIR >

1. Fully open door window.
2. Remove inside handle escutcheon (1) with a flat-bladed screwdriver (A) wrapped in a tape as shown in the figure.

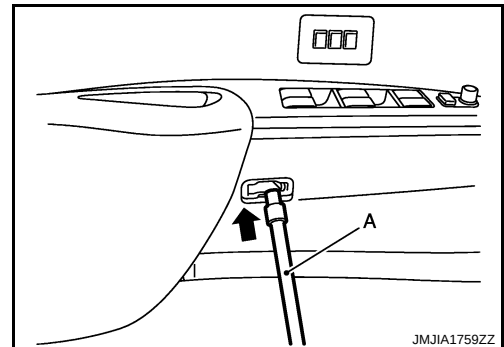
 : Pawl



3. Remove screw (A) located on the back side of inside handle escutcheon.



4. Remove the cap and front door finisher fixing bolt as shown in the figure with tool (A).



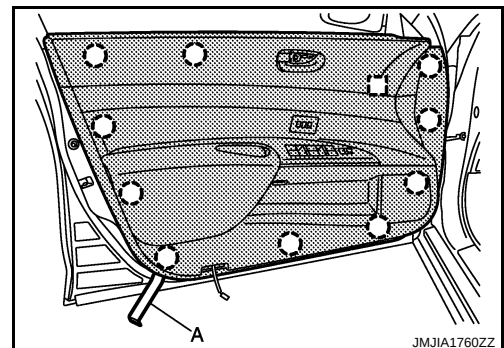
5. Remove step lamp and then disconnect the harness connector. Refer to [JNL-95, "Removal and Installation"](#).
6. Insert a remover tool (A) between the door finisher and door panel to disengage the clips and pawl.

 : Clip

 : Metal clip

CAUTION:

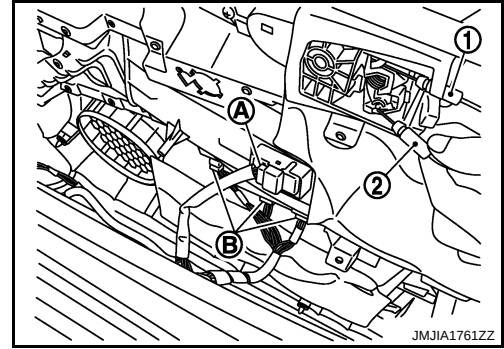
Insert a remover tool (A) into the part shown in the figure.
(Between the clips and the door panel)



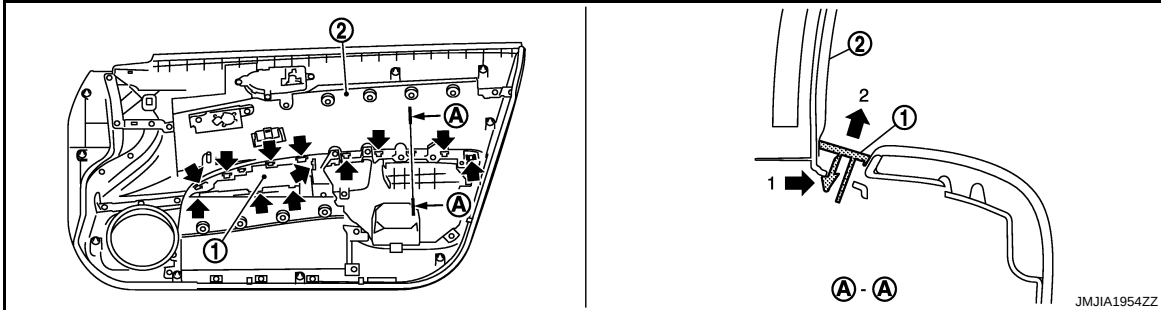
FRONT DOOR FINISHER

< ON-VEHICLE REPAIR >

7. Disconnect lock knob cable (1), inside handle cable (2), power window switch finisher harness connectors (B) and seat memory switch harness connector (A).



8. Remove front door finisher.
9. Remove the following parts after removing front door finisher.
- Front door inside handle. Refer to [DLK-223. "INSIDE HANDLE : Removal and Installation"](#).
 - Seat memory switch. Refer to [ADP-137. "Removal and Installation"](#).
 - Disengage power window switch finisher (1) pawls as shown by the figure by pressing them toward the arrow, then remove the power window switch finisher (1) from the door finisher (2).



INSTALLATION

Install in the reverse order of removal.

CAUTION:

When installing door finisher, check that clips are securely fitted in panel holes on body, and then press them in.

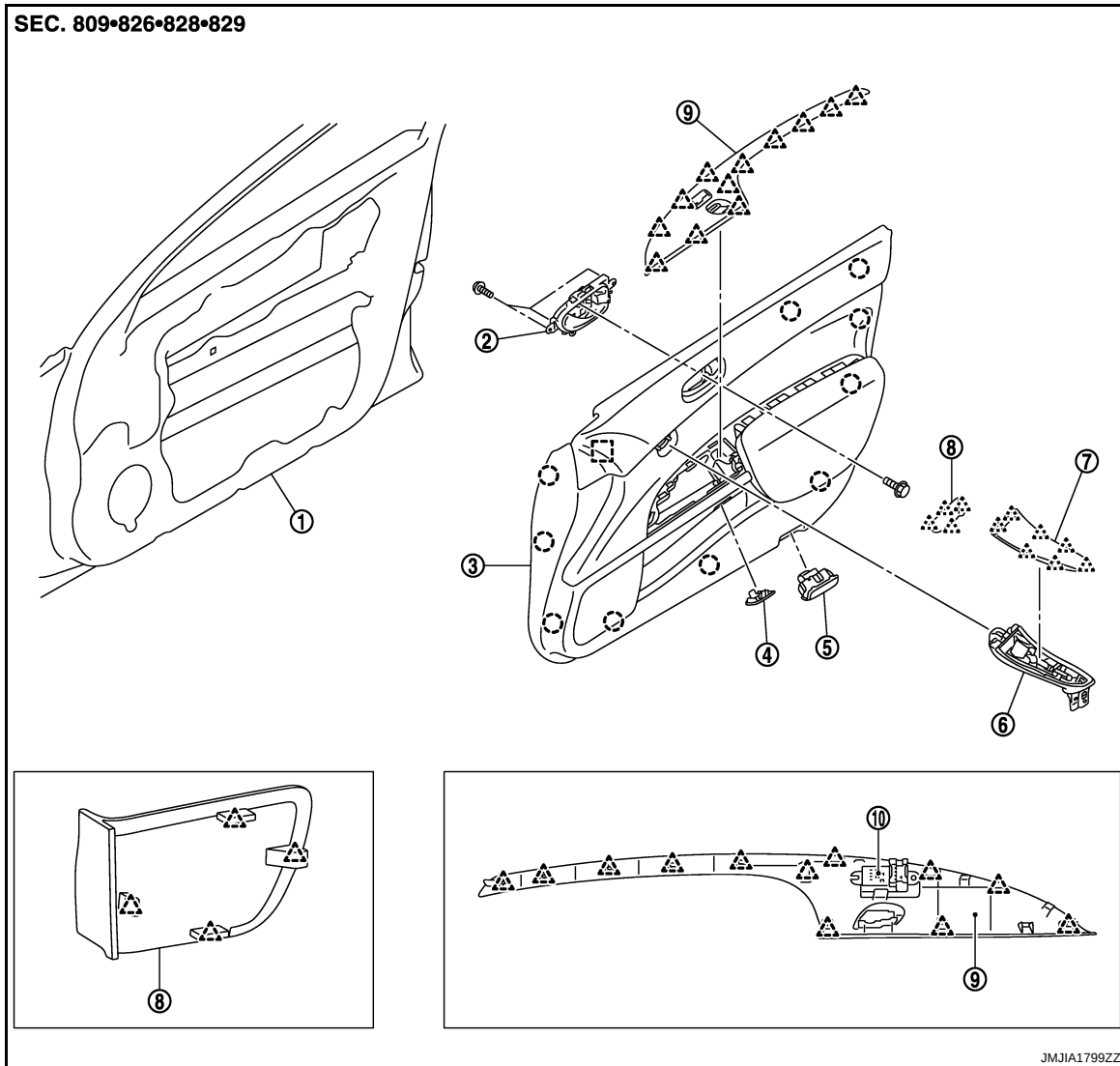
PASSENGER SIDE

FRONT DOOR FINISHER

< ON-VEHICLE REPAIR >

PASSENGER SIDE : Exploded View

INFOID:000000003819218



- | | | |
|--------------------------|-----------------------------|---------------------------------|
| 1. Front door panel | 2. Front door inside handle | 3. Front door finisher |
| 4. Cap | 5. Step lamp | 6. Front door grip |
| 7. Front door grip cover | 8. Inside handle escutcheon | 9. Power window switch finisher |
| 10. Power window switch | | |

○ : Clip

△ : Pawl

□ : Metal clip

PASSENGER SIDE : Removal and Installation

INFOID:000000003819219

CAUTION:

Wrap the tip of flat-bladed screwdriver with a cloth before remove.

REMOVAL

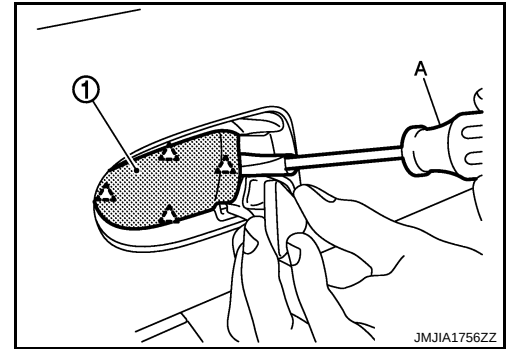
1. Fully open door window.

FRONT DOOR FINISHER

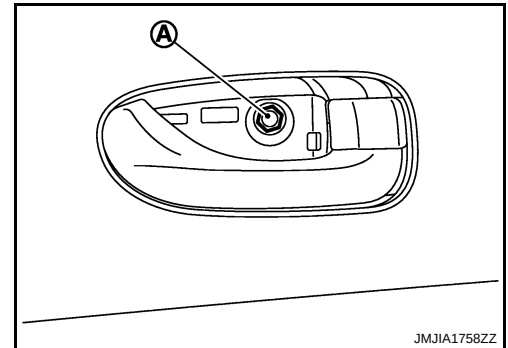
< ON-VEHICLE REPAIR >

2. Remove inside handle escutcheon (1) with a flat-bladed screwdriver (A) wrapped in a tape as shown in the figure.

 : Pawl

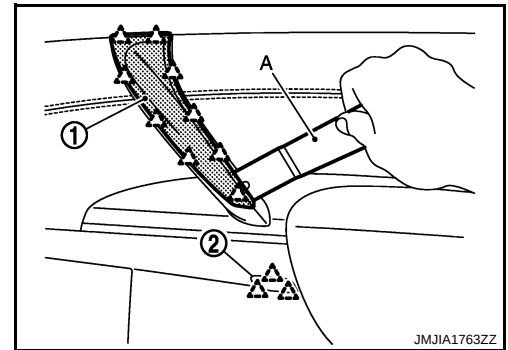


3. Remove screw (A) located on the back side of inside handle escutcheon.

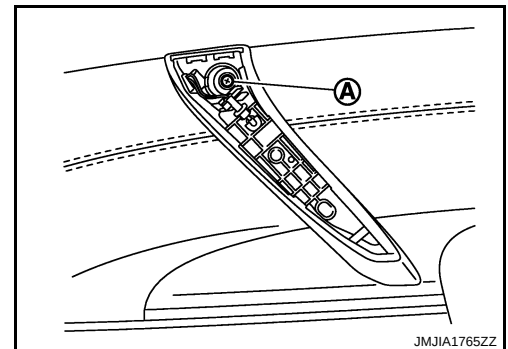


4. Disengage the front door grip cover (1) and cap (2) fixing pawls with a remover tool (A).

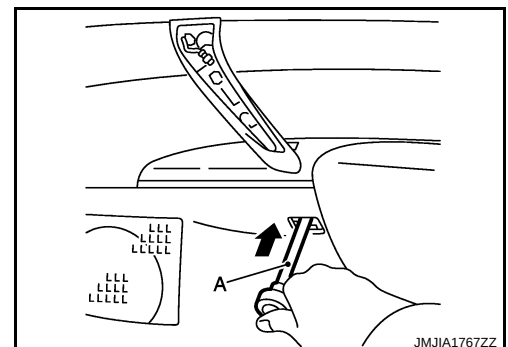
 : Pawl



5. Remove front door grip fixing bolt (A) with tool.



6. Remove front door finisher fixing bolt with tool (A) as shown in the figure.



FRONT DOOR FINISHER

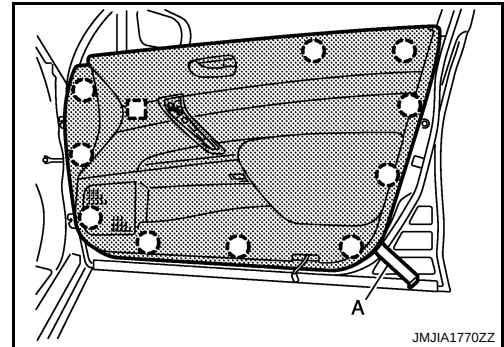
< ON-VEHICLE REPAIR >

7. Remove step lamp and then disconnect the harness connector. Refer to [INL-96, "Removal and Installation"](#).
8. Insert a remover tool (A) between door finisher and door panel to disengage the clips and metal clip.

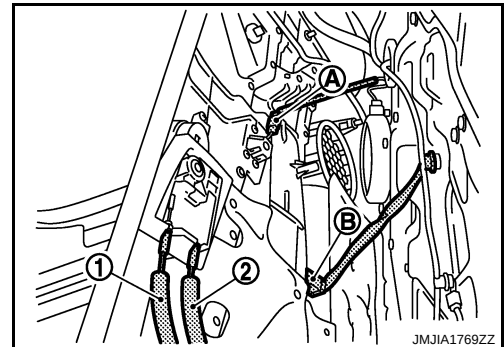
- : Clip
□ : Metal clip

CAUTION:

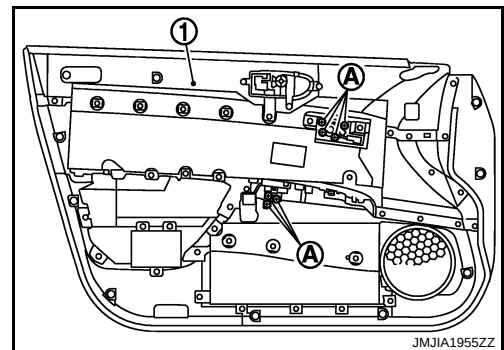
Insert a remover tool (A) into the part shown in the figure.
(Between the clips and the door panel)



9. Disconnect lock knob cable (1), inside handle cable (2), power window switch harness connector (B) and mood lamp harness connector (A).



10. Remove the front door finisher.
11. Remove the following parts after removing the door finisher.
 - Front door inside handle. Refer to [DLK-223, "INSIDE HANDLE : Removal and Installation"](#).
 - Remove the front door grip fixing screws (A), then remove the door grip from the door finisher (1).



- Remove the power window switch finisher. Refer to [INT-30, "DRIVER SIDE : Removal and Installation"](#).

INSTALLATION

Install in the reverse order of removal.

CAUTION:

When installing door finisher, check that clips are securely fitted in panel holes on body, and then press them in.

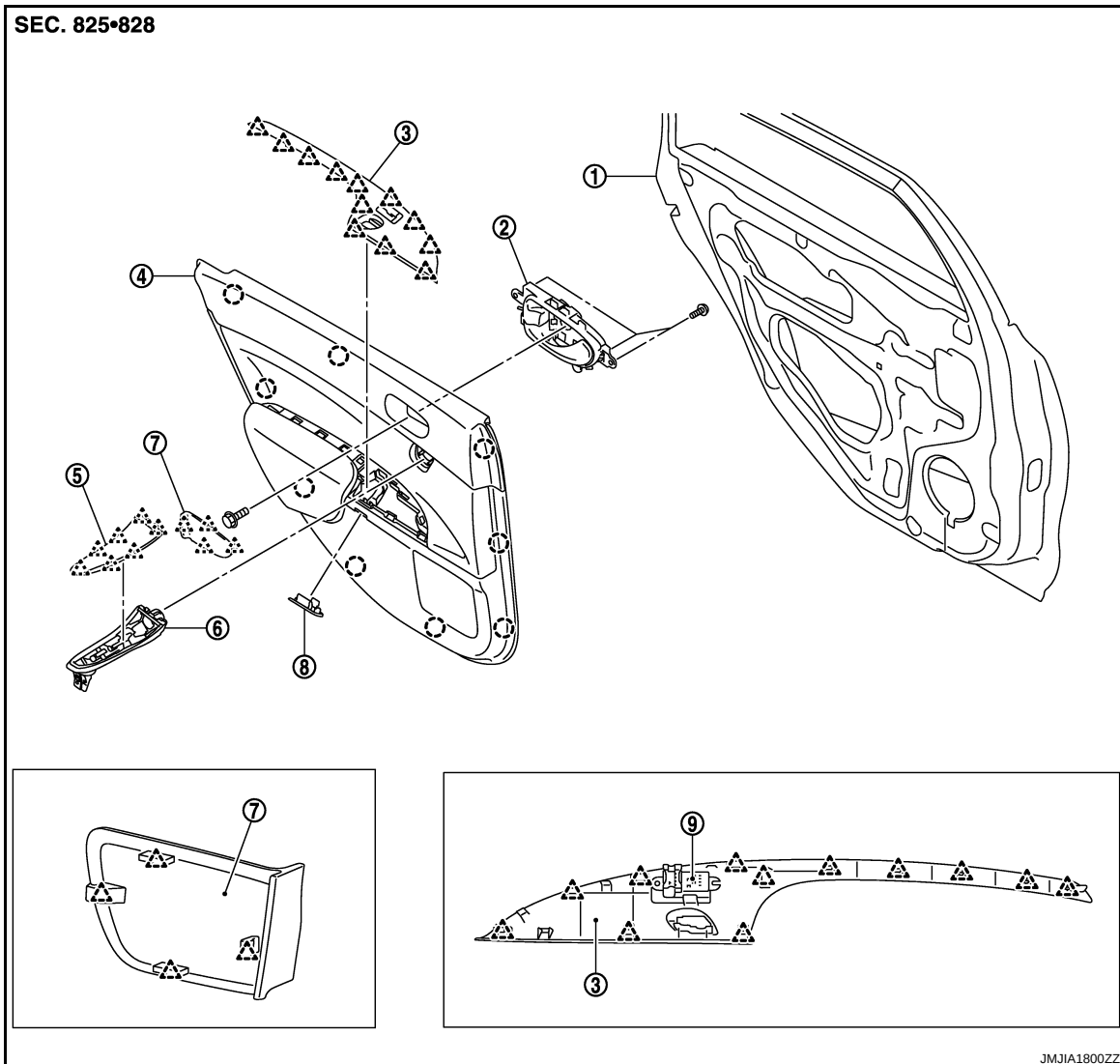
REAR DOOR FINISHER

< ON-VEHICLE REPAIR >

REAR DOOR FINISHER

Exploded View

INFOID:000000003819220



Removal and Installation

INFOID:000000003819221

CAUTION:

Wrap the tip of flat-bladed screwdriver with a cloth before remove.

REMOVAL

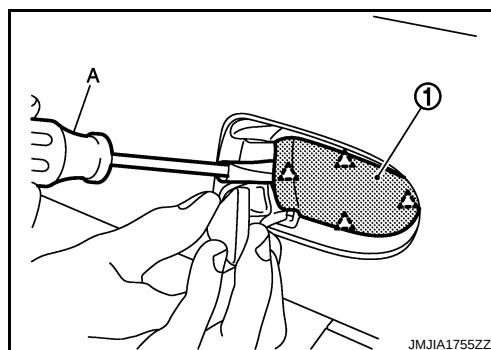
1. Fully open door window.

REAR DOOR FINISHER

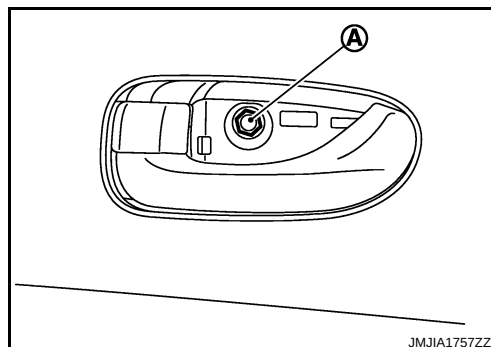
< ON-VEHICLE REPAIR >

- Remove inside handle escutcheon (1) with a flat-bladed screwdriver (A) wrapped in a tape as shown in the figure.

 : Pawl

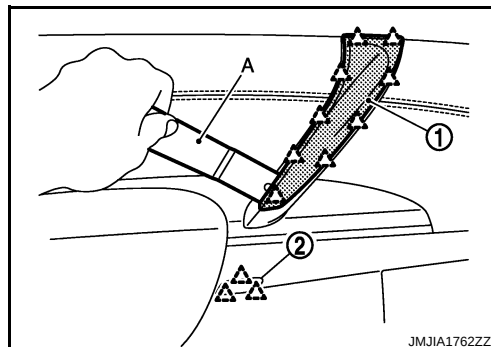


- Remove screw (A) located on the back side of inside handle escutcheon.

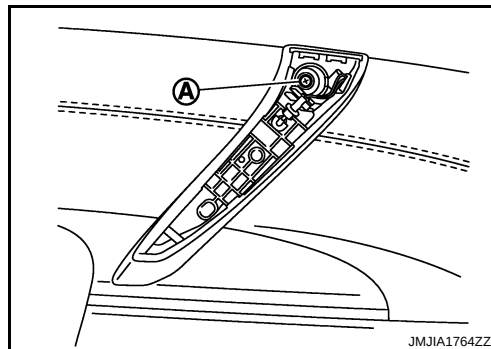


- Disengage the rear door grip cover (1) and cap (2) fixing pawls with remover tool (A).

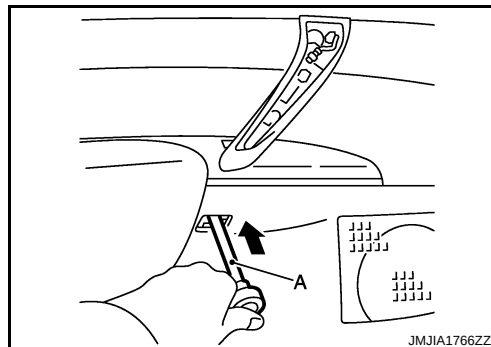
 : Pawl



- Remove the rear door grip fixing bolt (A) with a tool.



- Remove the rear door finisher fixing bolt as shown in the figure with tool (A).



A
B
C
D
E
F
G
H
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INT
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N
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P

REAR DOOR FINISHER

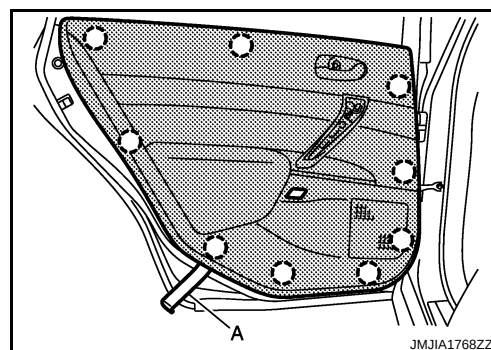
< ON-VEHICLE REPAIR >

7. Insert a remover tool (A) between the door finisher and door panel to disengage the clips.

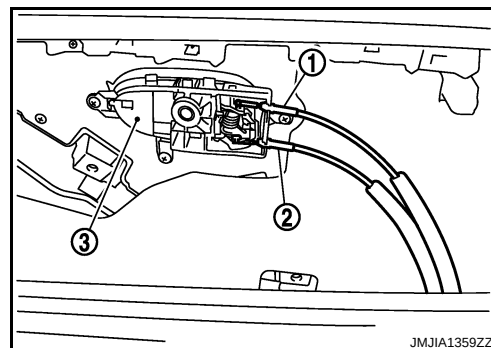
 : Clip

CAUTION:

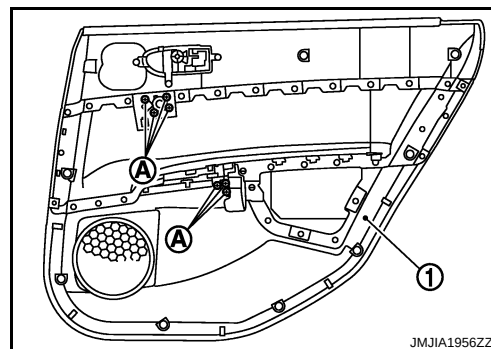
Insert a remover tool (A) into the part shown in the figure.
(Between the clips and the door panel)



8. Disconnect lock knob cable (1) and inside handle cable (2) from rear inside handle (3).



9. Disconnect the rear door power window switch harness connector.
10. Disconnect the mood lamp harness connector. Refer to [INL-91. "REAR DOOR GRIP : Exploded View"](#).
11. Remove the rear door finisher.
12. Remove the following parts after removing the rear door finisher.
 - Rear door inside handle. Refer to [DLK-228. "INSIDE HANDLE : Removal and Installation"](#).
 - Remove the rear door grip fixing screws (A), then remove the rear door grip from the door finisher (1).



- Remove the rear power window switch finisher. Refer to [INT-30. "DRIVER SIDE : Removal and Installation"](#).

INSTALLATION

Install in the reverse order of removal.

CAUTION:

When installing door finisher, check that clips are securely fitted in panel holes on body, and then press them in.

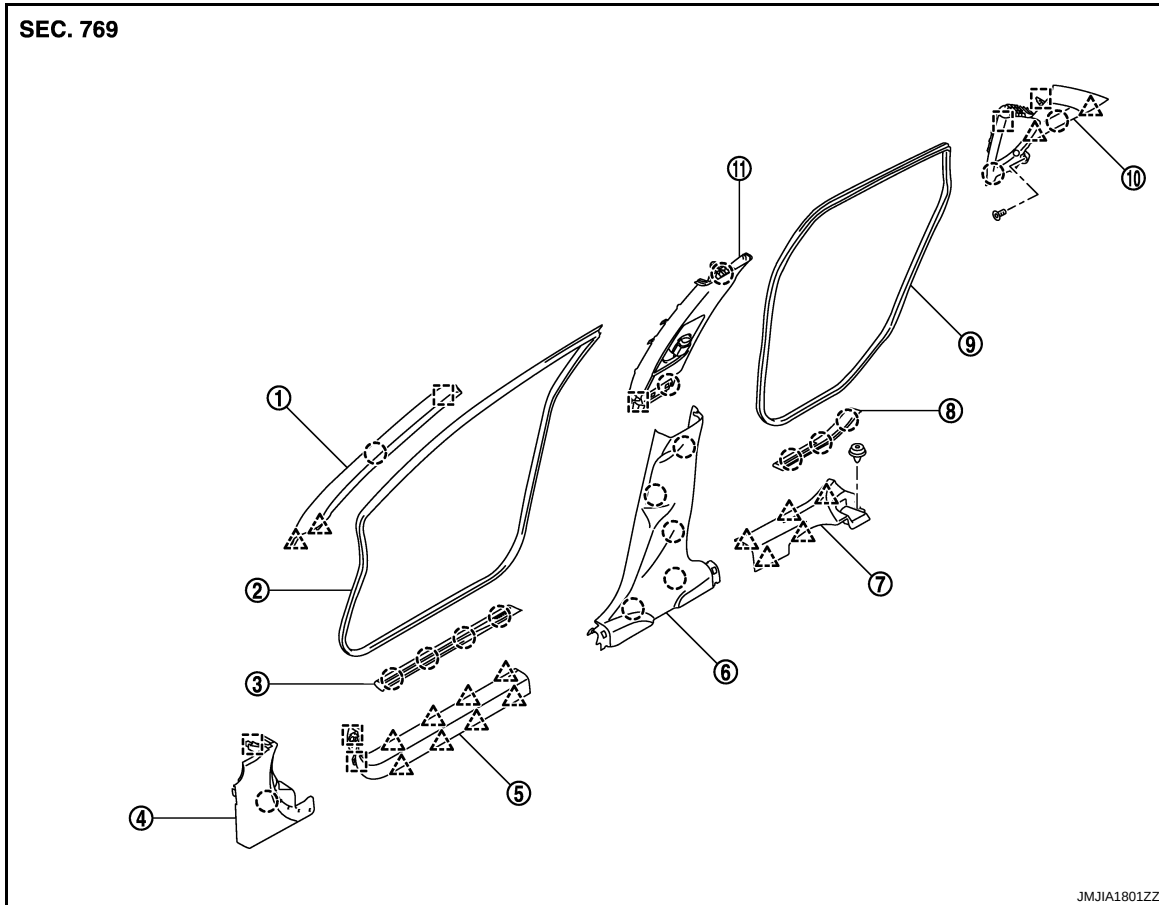
BODY SIDE TRIM

< ON-VEHICLE REPAIR >

BODY SIDE TRIM

Exploded View

INFOID:000000003819222



- | | | |
|-----------------------------|---------------------------------|--------------------------------|
| 1. Front pillar garnish | 2. Front body side welt | 3. Front kicking plate outer |
| 4. Dash side finisher | 5. Front kicking plate inner | 6. Center pillar lower garnish |
| 7. Rear kicking plate inner | 8. Rear kicking plate outer | 9. Rear body side welt |
| 10. Rear pillar finisher | 11. Center pillar upper garnish | |

○ : Clip

△ : Pawl

□ : Metal clip

Removal and Installation

INFOID:000000003819223

CAUTION:

- Wrap the tip of flat-bladed screwdriver with a cloth when removing metal clips from garnishes.
- Never damage the body.

REMOVAL

FRONT PILLAR GARNISH

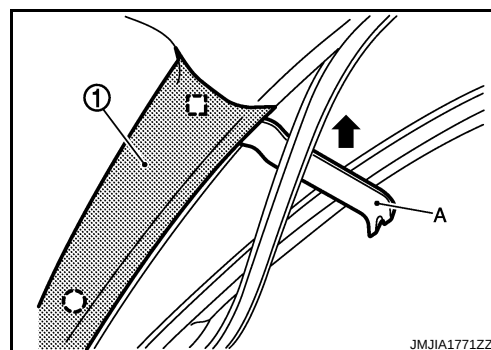
1. Release front pillar portion of front body side welt.

BODY SIDE TRIM

< ON-VEHICLE REPAIR >

- Remove front pillar garnish mounting clip and metal clip with a remover tool (A), and then remove front pillar garnish (1).

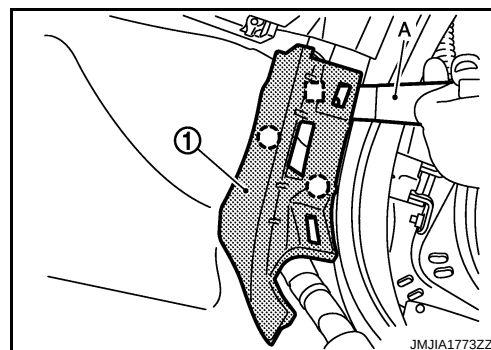
○ : Clip
 □ : Metal clip



DASH SIDE FINISHER

- Remove front kicking plate inner.
- Remove dash side finisher mounting clips and metal clip with a remover tool (A), and then remove dash side finisher (1).

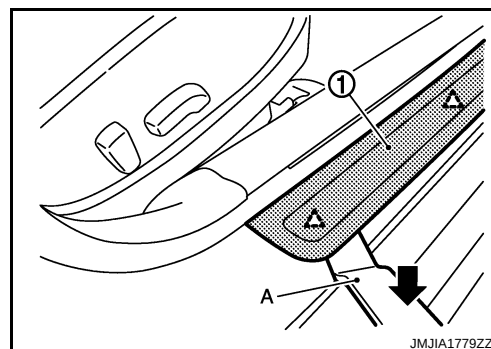
○ : Clip
 □ : Metal clip



FRONT KICKING PLATE OUTER

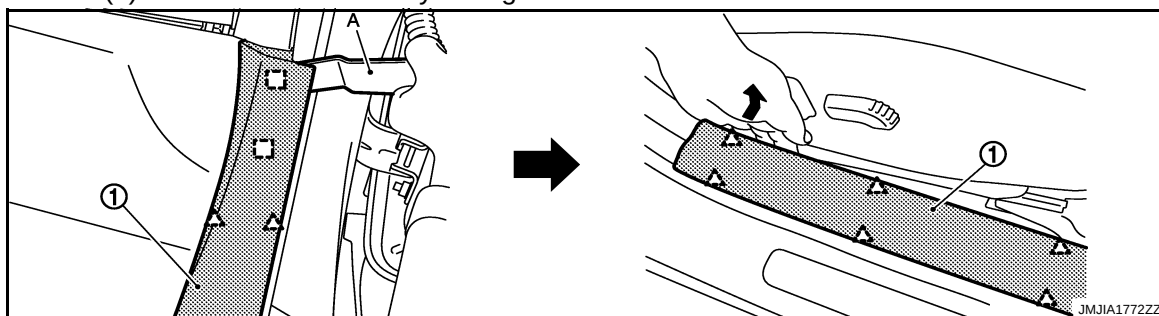
Remove front kicking plate outer mounting pawls with a remover tool (A), and then remove kicking plate outer (1).

△ : Pawl



FRONT KICKING PLATE INNER

- With a remover tool (A), disengage the metal clips and pawls located in the front, then pull up front kicking plate inner (1) to remove as shown by the figure below.



△ : Pawl
 □ : Metal clip

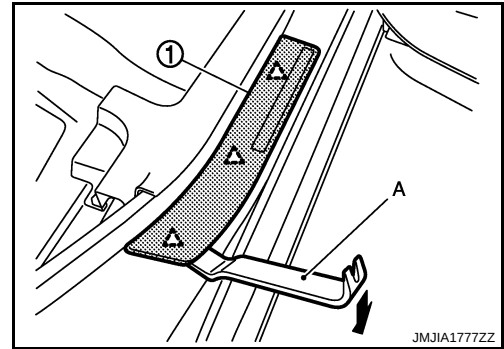
REAR KICKING PLATE OUTER

BODY SIDE TRIM

< ON-VEHICLE REPAIR >

Remove rear kicking plate outer mounting pawls with a remover tool (A), and then remove kicking plate outer (1).

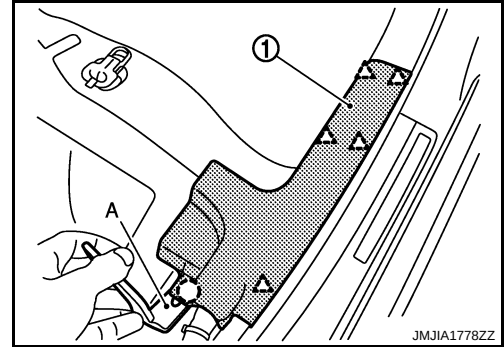
△ : Pawl



REAR KICKING PLATE INNER

1. Pull up rear kicking plate inner, and disconnect the clip and pawls with remover tool (A).
2. Remove rear kicking plate inner (1).

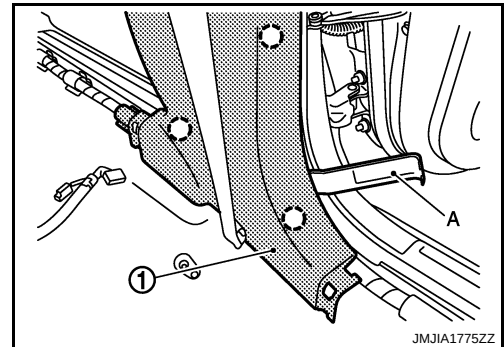
○ : Clip
△ : Pawl



CENTER PILLAR LOWER GARNISH

1. Remove front and rear kicking plate inner.
2. Remove center pillar lower garnish mounting clips with a remover tool (A), and then remove center pillar lower garnish (1).

○ : Clip



FRONT BODY SIDE WELT

1. Remove front kicking plate inner.
2. Remove front body side welt.

REAR BODY SIDE WELT

1. Remove rear kicking plate inner.
2. Remove rear body side welt.

CENTER PILLAR UPPER GARNISH

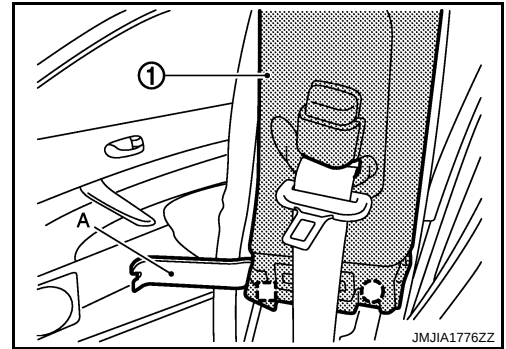
1. Remove center pillar lower garnish.
2. Remove front seat belt pre-tension fixing anchor bolt. Refer to [SB-5. "SEAT BELT RETRACTOR : Removal and Installation"](#).
3. Remove partially front and rear body side welt.

BODY SIDE TRIM

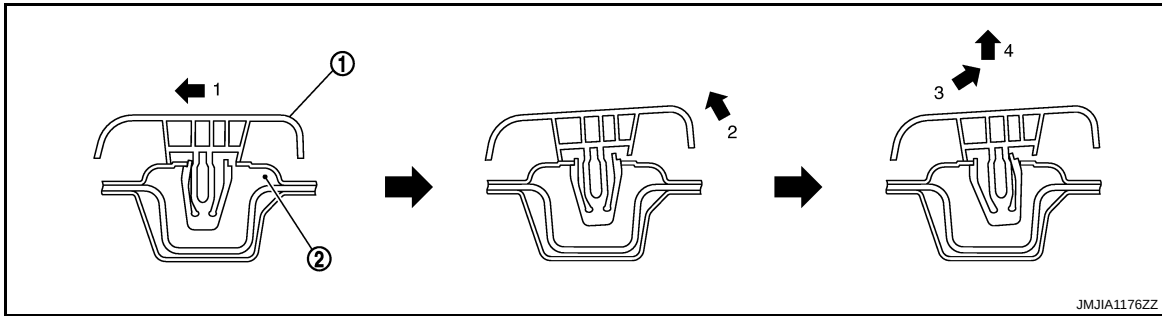
< ON-VEHICLE REPAIR >

4. Remove center pillar upper garnish mounting clip and metal clip with a remover tool (A).

○ : Clip
□ : Metal clip



5. Pull center pillar upper garnish from inside passenger room, disengage the clip by following the steps shown in the figure below to remove the garnish from the vehicle.



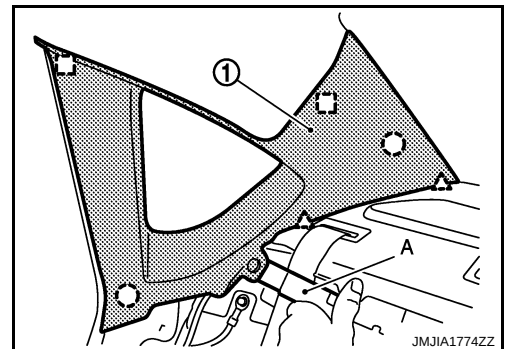
1. Center pillar upper garnish

2. Center pillar panel

REAR PILLAR FINISHER

1. Remove rear seat cushion and rear seatback. Refer to [SE-99, "Removal and Installation"](#).
2. Remove rear seat belt pre-tensioner anchor bolt. Refer to [SB-10, "SEAT BELT RETRACTOR : Removal and Installation"](#).
3. Remove rear kicking plate inner.
4. Remove rear body side welt.
5. Remove pillar finisher mounting clips and metal clips with a remover tool (A), and then remove pillar finisher (1).

○ : Clip
△ : Pawl
□ : Metal clip



INSTALLATION

Install in the reverse order of removal.

CAUTION:

Check that clips are securely fitted in panel holes on body when installing, and then press them in.

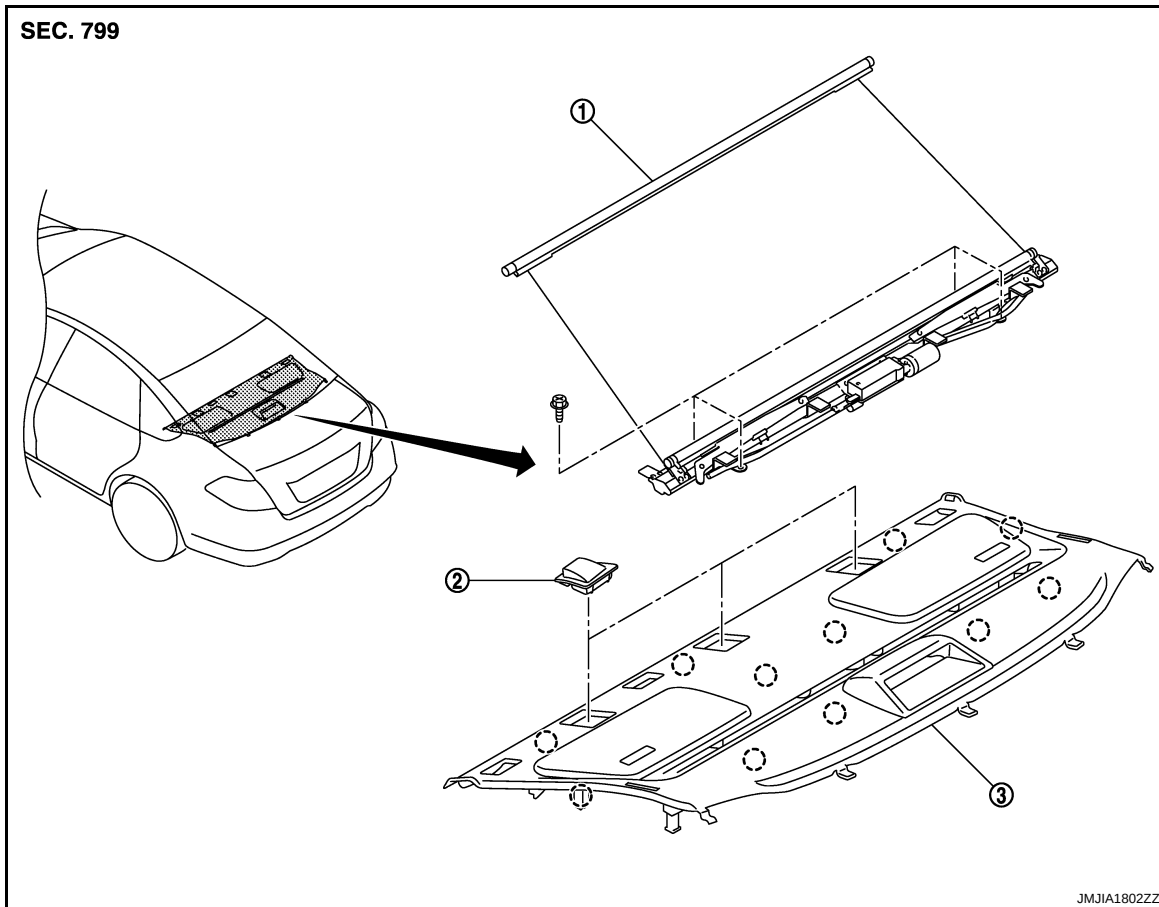
REAR PARCEL SHELF FINISHER

< ON-VEHICLE REPAIR >

REAR PARCEL SHELF FINISHER

Exploded View

INFOID:000000003819224



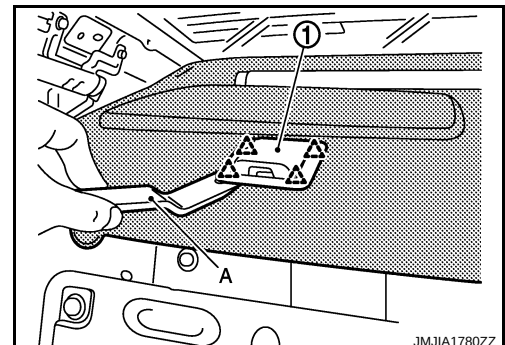
Removal and Installation

INFOID:000000003819225

REMOVAL

1. Remove rear seatback and rear seat cushion. Refer to [SE-99, "Removal and Installation"](#).
2. Remove rear seat belt pre-tensioner anchor bolt. Refer to [SB-10, "SEAT BELT RETRACTOR : Removal and Installation"](#).
3. Disengage child anchor cover (1) fixing pawls with a remover tool (A) and then remove it.

△ : Pawl

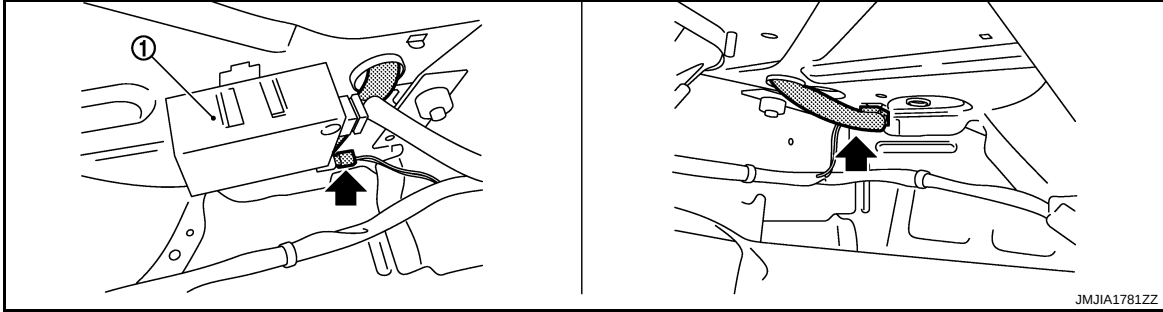


4. Remove rear pillar finisher (LH/RH). Refer to [INT-39, "Removal and Installation"](#).

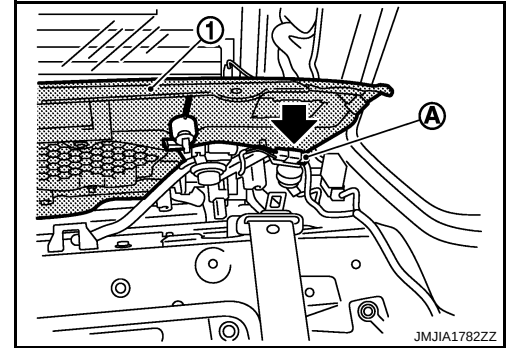
REAR PARCEL SHELF FINISHER

< ON-VEHICLE REPAIR >

5. From the trunk room, disconnect left side speaker harness connector located behind sunshade control unit (1) and the right side rear tweeter harness connector (LH/RH) as shown in the figure below.



6. Hold from both sides the rear parcel shelf (1), pull it upward to disengage the clips and then disconnect high-mounted stop lamp harness connector (A) located on the left side only.



7. Pull rear parcel shelf finisher to remove it.
8. Remove the following parts after removing the rear parcel shelf.
- Rear tweeter. Refer to [AV-654, "Removal and Installation"](#).
 - High-mounted stop lamp. Refer to [EXL-193, "Removal and Installation"](#).

INSTALLATION

Install in the reverse order of removal.

CAUTION:

Check that clips are securely fitted in panel holes on body when installing, and then press them in.

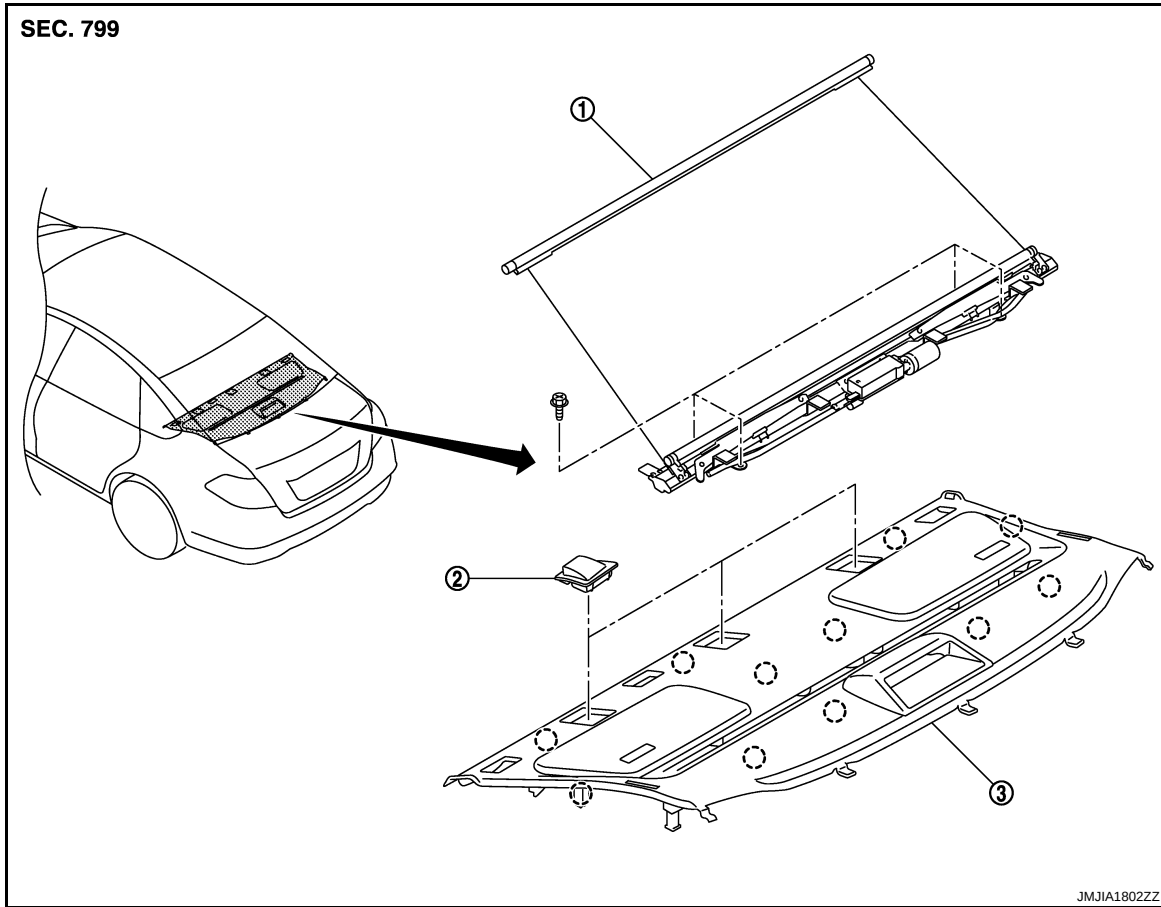
REAR SUNSHADE

< ON-VEHICLE REPAIR >

REAR SUNSHADE

Exploded View

INFOID:000000003826196



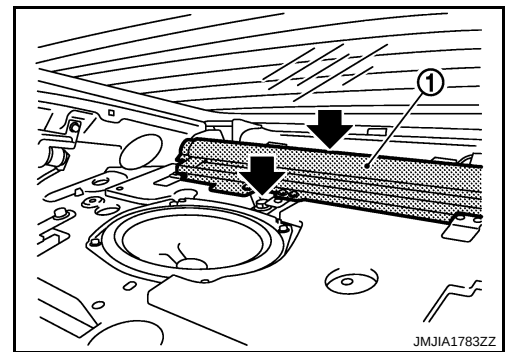
Removal and Installation

INFOID:000000003826197

REMOVAL

1. Remove the rear parcel shelf finisher. Refer to [INT-43, "Removal and Installation"](#).
2. Remove the rear sunshade (1) fixing bolts (LH/RH).

← : Bolt

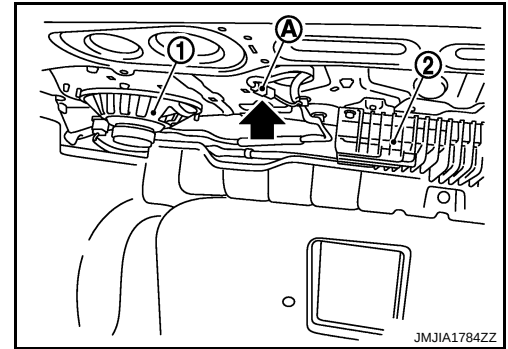


REAR SUNSHADE

< ON-VEHICLE REPAIR >

3. From the trunk room, disconnect the rear sunshade harness connector (A) located between the left speaker (1) and the speaker amp. (2).

← : Harness connector



4. Remove the rear sunshade assembly.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

Check that clips are securely fitted in panel holes on body when installing, and then press them in.

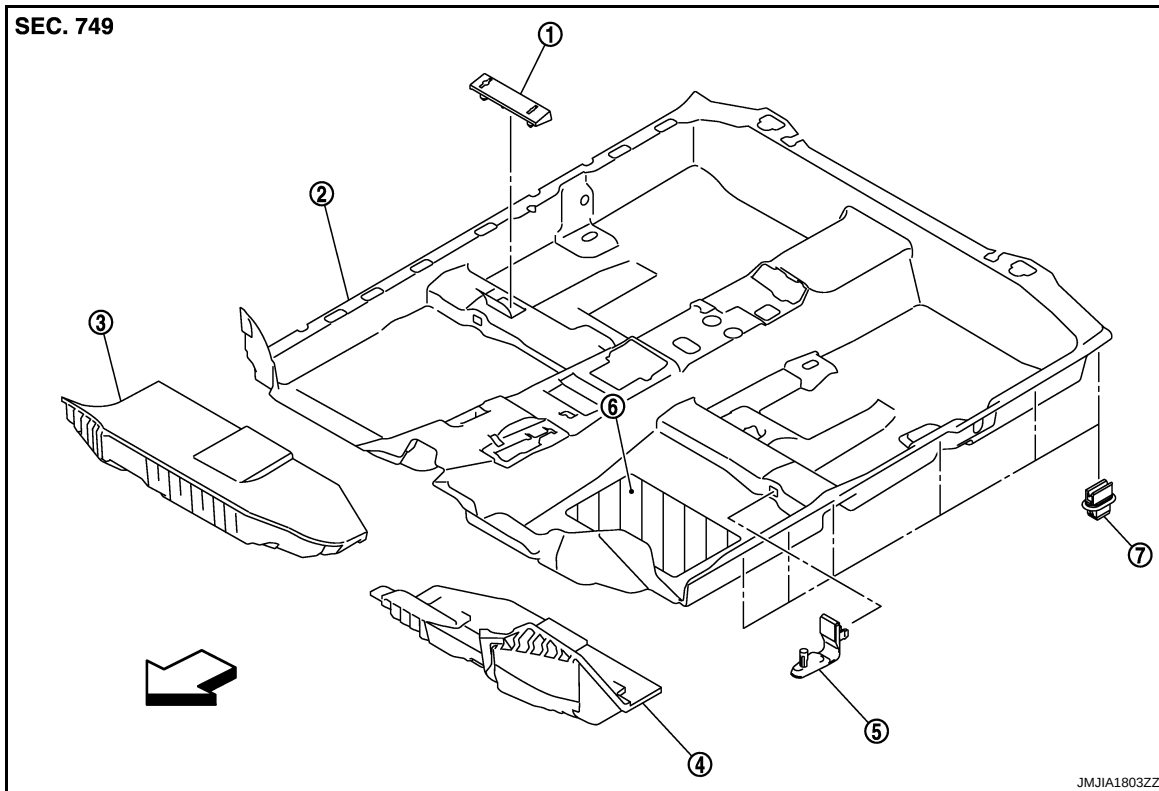
FLOOR TRIM

< ON-VEHICLE REPAIR >

FLOOR TRIM

Exploded View

INFOID:000000003819226



- | | | |
|----------------------------|---------------|----------------------------|
| 1. Trim clip | 2. Floor trim | 3. Front floor spacer (RH) |
| 4. Front floor spacer (LH) | 5. Floor hook | 6. Heel mat |
| 7. Fixing clip | | |

↔ : Vehicle front

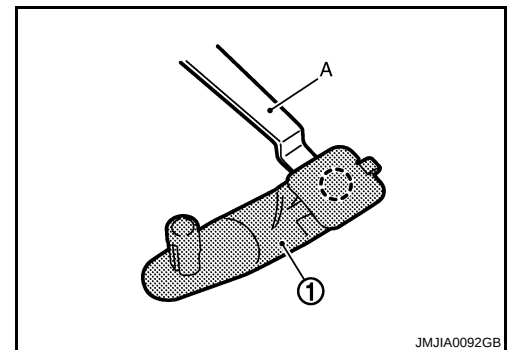
Removal and Installation

INFOID:000000003819227

REMOVAL

1. Remove front seat assembly (LH/RH). Refer to [SE-92, "Removal and Installation"](#).
2. Remove rear seat cushion. Refer to [SE-99, "Removal and Installation"](#).
3. Disengage clip of floor hook (1) with remover tool (A).

○ : Clip

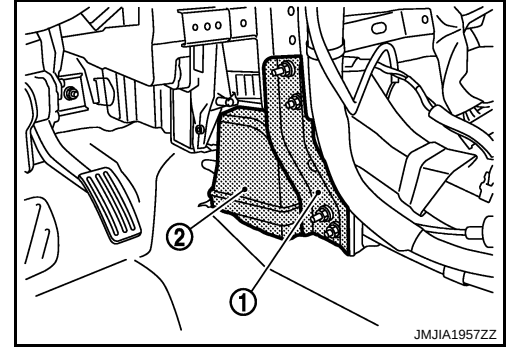


4. Remove front seat belt per-tensioner anchor bolt (LH/RH). Refer to [SB-5, "SEAT BELT RETRACTOR : Removal and Installation"](#).
5. Remove center console assembly. Refer to [IP-22, "Removal and Installation"](#).

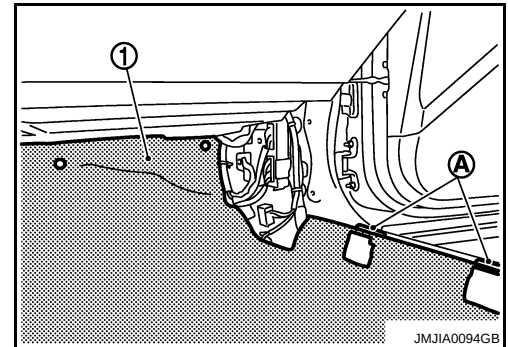
FLOOR TRIM

< ON-VEHICLE REPAIR >

6. Remove instrument lower cover, instrument driver panel, instrument assist lower panel and instrument side panel (LH/RH). Refer to [IP-12, "Removal and Installation"](#).
7. Remove G-sensor. Refer to [VTL-82, "WITH INTELLIGENT AIR CONDITIONER SYSTEM : Removal and Installation"](#).
8. Remove diagnosis sensor unit. Refer to [SR-22, "Removal and Installation"](#).
9. Remove dash side finisher (LH/RH), front kicking plate inner (LH/RH), center pillar lower garnish (LH/RH) and body side welt (LH/RH). Refer to [INT-39, "Removal and Installation"](#).
10. Remove side brake wire. Refer to [BR-17, "Removal and Installation"](#).
11. Remove automatic transmission drive. Refer to [FAX-16, "Exploded View"](#).
12. Remove the front floor bracket (1) and front floor duct (2). (Both sides)



13. Remove floor trim from floor trim fixing clips (A) and remove floor carpet (1).



INSTALLATION

Install in the reverse order of removal.

HEADLINING

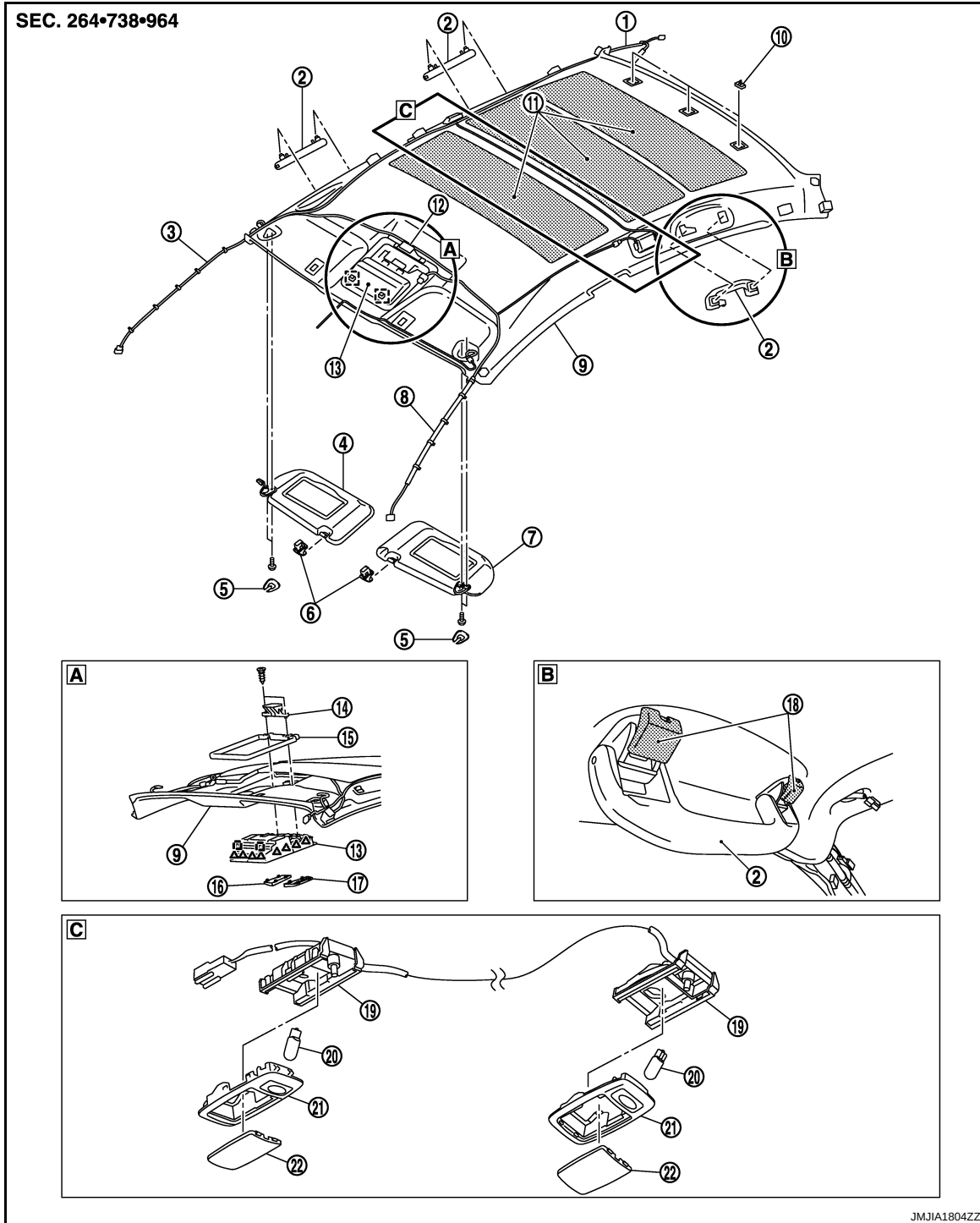
< ON-VEHICLE REPAIR >

HEADLINING

NORMAL ROOF

NORMAL ROOF : Exploded View

INFOID:000000003819228



- | | | |
|--------------------------|--------------------|---------------------------|
| 1. Antenna feeder (rear) | 2. Assist grip | 3. Antenna feeder (front) |
| 4. Sun visor assembly RH | 5. Sun visor cover | 6. Sun visor holder |
| 7. Sun visor assembly LH | 8. Roof harness | 9. Headlining assembly |
| 10. Rear hidden clip | 11. Roof insulator | 12. Dual lock fastener |
| 13. Map lamp assembly | 14. Roof bracket | 15. Roof plate assembly |

JMJ1A1804ZZ

HEADLINING

< ON-VEHICLE REPAIR >

- | | | |
|---------------------------|------------------------|-------------------------|
| 16. Map lamp lens RH | 17. Map lamp lens LH | 18. Assist grip clip |
| 19. Personal lamp bracket | 20. Personal lamp bulb | 21. Personal lamp cover |
| 22. Personal lamp lens | | |

 : Pawl

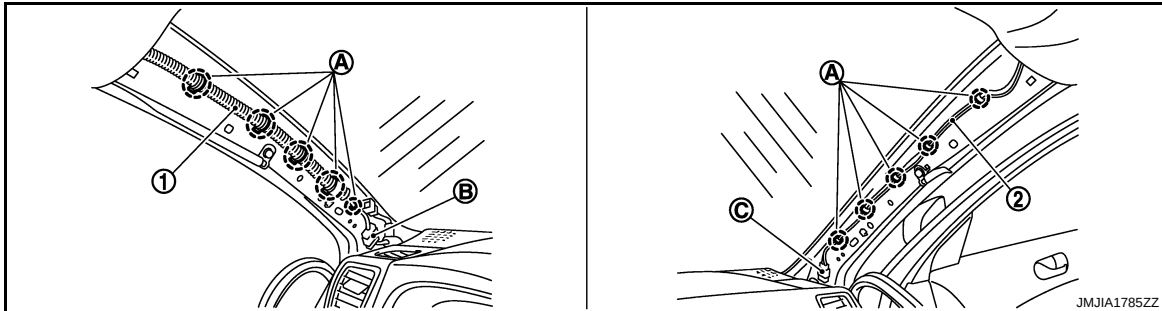
 : Metal clip

NORMAL ROOF : Removal and Installation

INFOID:000000003819229

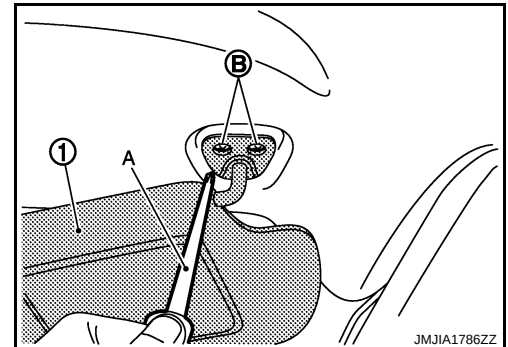
REMOVAL

1. Remove front body side welt (LH/RH) and front pillar garnish (LH/RH). Refer to [INT-39, "Removal and Installation"](#).
2. Disconnect the roof harness (1) connector (B), antenna feeder (2) harness connector (C) and then remove the clips (A) as shown in the figure below.

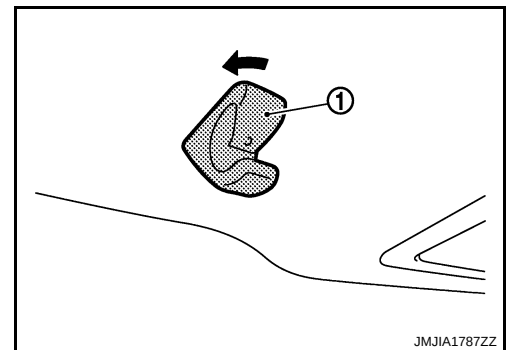


 : Clip

3. Remove sun visor assembly (LH/RH).
 - Remove sun visor cover.
 - Remove sun visor assembly (1) mounting screws (B) with a screwdriver (A).
 - Disconnect vanity mirror lamp harness connector.



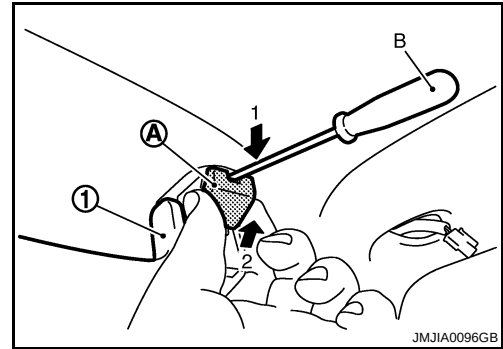
4. Rotate 90 degrees and remove sun visor holder (1) (LH/RH).



HEADLINING

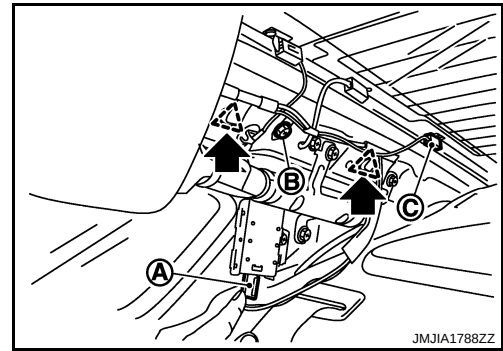
< ON-VEHICLE REPAIR >

5. Remove mounting plastic clips (A) using a flat-bladed screwdriver (B) of front and rear assistance grips (1), and then remove assist grips.



6. Remove the front seat assembly. Refer to [SE-92, "Removal and Installation"](#).
7. Remove rear seat assembly. Refer to [SE-99, "Removal and Installation"](#).
8. Remove front kicking plate inner (LH/RH), center pillar upper garnish (LH/RH), and rear pillar finisher (LH/RH). Refer to [INT-39, "Removal and Installation"](#).
9. On the rear right side of the vehicle, disconnect the harness connector (A) and (C), remove the bolt (B) and then disengage the pawls as shown in the figure.

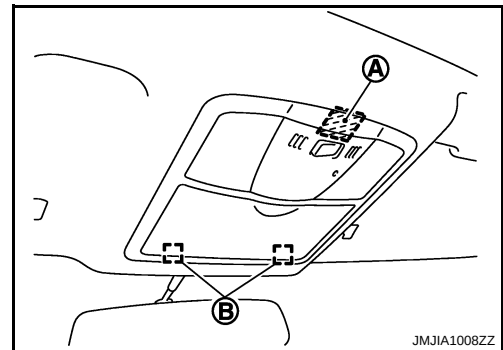
 : Pawl



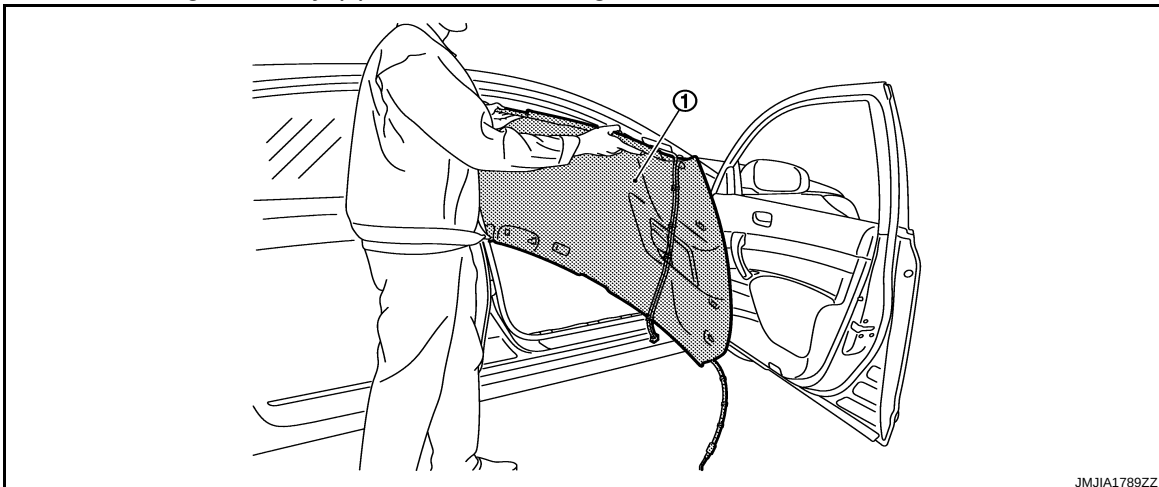
10. With a removal tool, remove body side mounting plastic clip from rear end of headlining.
11. Pull map lamp assembly toward vehicle lower, and disengage dual-lock fastener (A) and metal clips (B).

CAUTION:

Map lamp assembly is crimped from back of headlining. Remove it by disengaging the crimped area of back of map lamp assembly after removing headlining from the vehicle.



12. Remove headlining assembly (1) as shown in the figure below.



HEADLINING

< ON-VEHICLE REPAIR >

CAUTION:

- When removing, 2 workers are required. (1 for the front and rear of headlining)
- Cover center console finisher upper surface with a shop cloth to prevent it from being damaged.
- Never bend headlining when removing.

13. Remove the following parts after removing headlining.

- Map lamp assembly. Refer to [INL-89, "Removal and Installation"](#).
- Personal lamp assembly. Refer to [INL-96, "Removal and Installation"](#).
- Roof harness assembly.
- Antenna feeder assembly. Refer to [AV-44, "Harness Layout"](#).

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Install headlining assembly after inserting clips to clip holder of headlining rear end.
- Never bend headlining when installing.

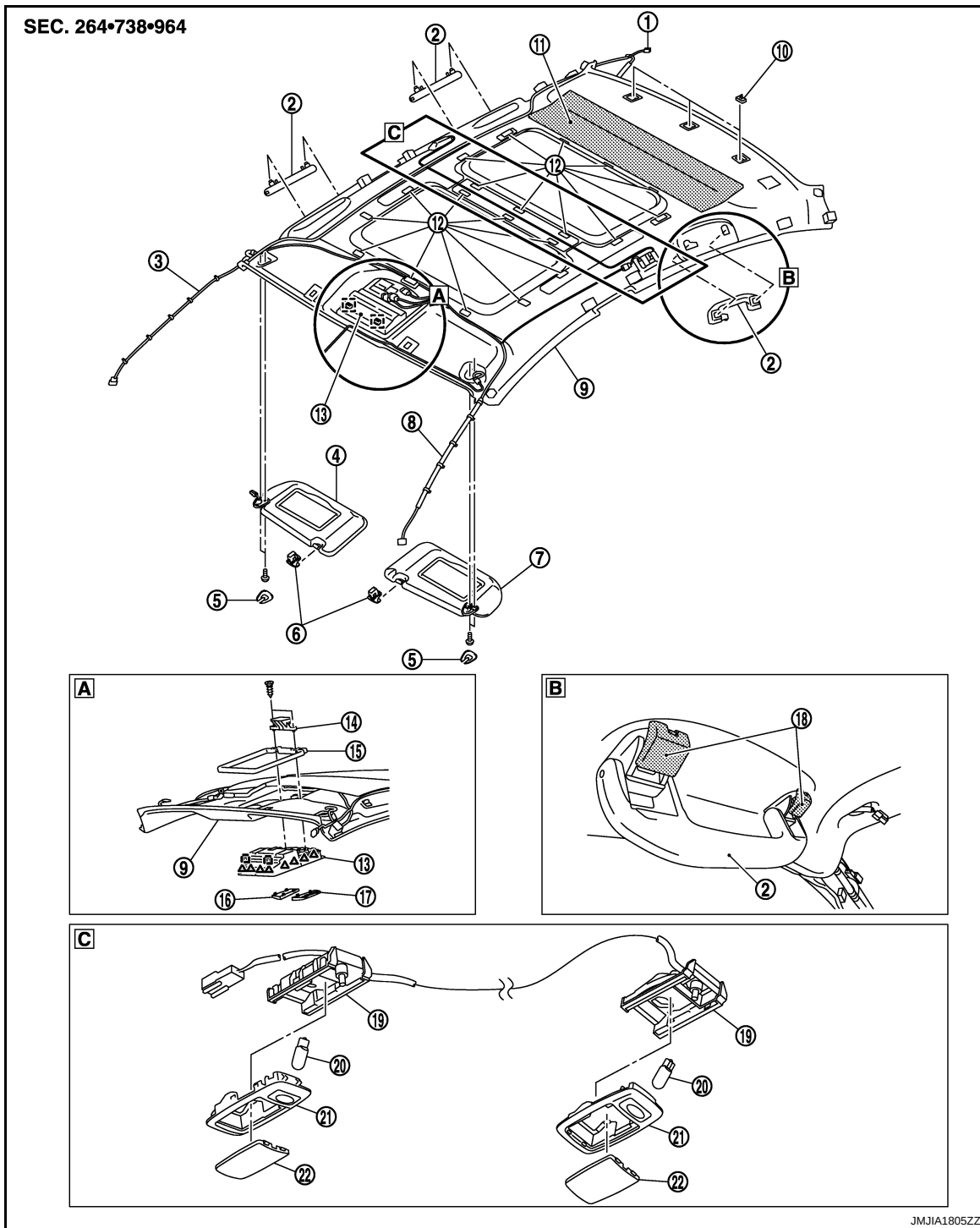
SUNROOF

HEADLINING

< ON-VEHICLE REPAIR >

SUNROOF : Exploded View

INFOID:000000003826877



- | | | |
|---------------------------|------------------------|---------------------------|
| 1. Antenna feeder (rear) | 2. Assist grip | 3. Antenna feeder (front) |
| 4. Sun visor assembly RH | 5. Sun visor cover | 6. Sun visor holder |
| 7. Sun visor assembly LH | 8. Roof harness | 9. Headlining assembly |
| 10. Rear hidden clip | 11. Roof insulator | 12. Dual lock fastener |
| 13. Over head console | 14. Roof bracket | 15. Roof plate assembly |
| 16. Map lamp lens RH | 17. Map lamp lens LH | 18. Assist grip clip |
| 19. Personal lamp bracket | 20. Personal lamp bulb | 21. Personal lamp cover |
| 22. Personal lamp lens | | |

HEADLINING

< ON-VEHICLE REPAIR >

 : Pawl

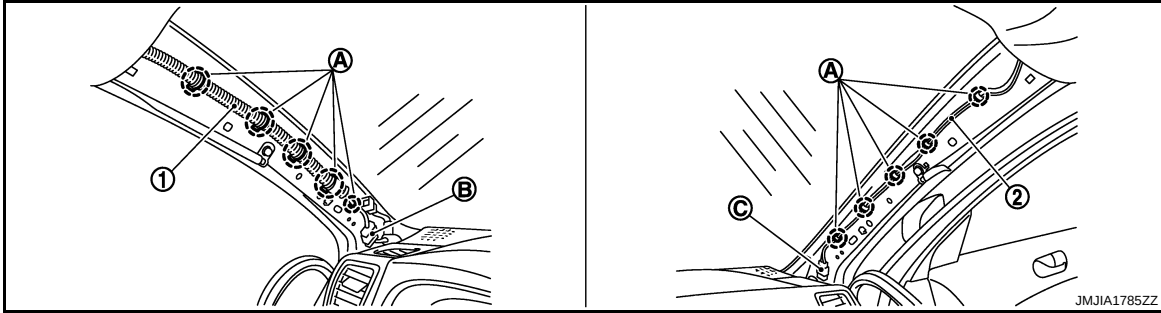
 : Metal clip

SUNROOF : Removal and Installation

INFOID:000000003826878

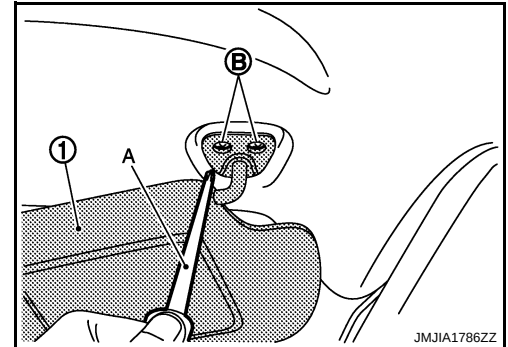
REMOVAL

1. Remove front body side welt (LH/RH) and front pillar garnish (LH/RH). Refer to [INT-39. "Removal and Installation"](#).
2. Disconnect the roof harness (1) connector (B), antenna feeder (2) harness connector (C) and then remove all the clips (A) as shown in the figure below.

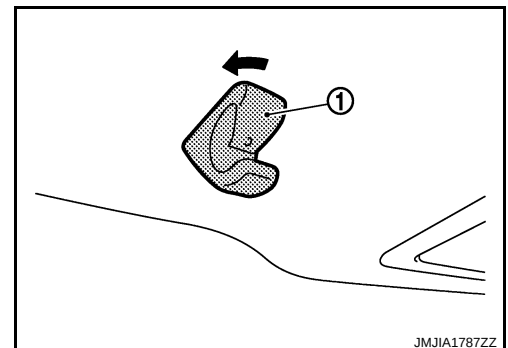


 : Clip

3. Remove sun visor assembly (LH/RH).
 - Remove sun visor cover.
 - Remove sun visor assembly (1) mounting screws (B) with a screwdriver (A).
 - Disconnect vanity mirror lamp harness connectors.



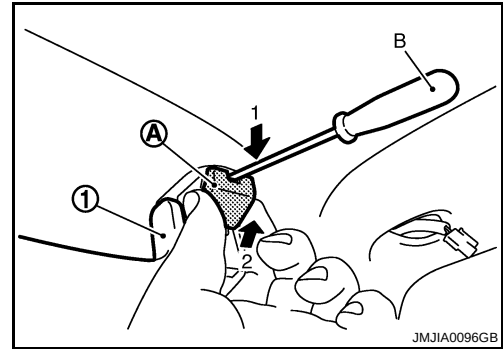
4. Rotate 90 degrees and remove sun visor holder (1) (LH/RH).



HEADLINING

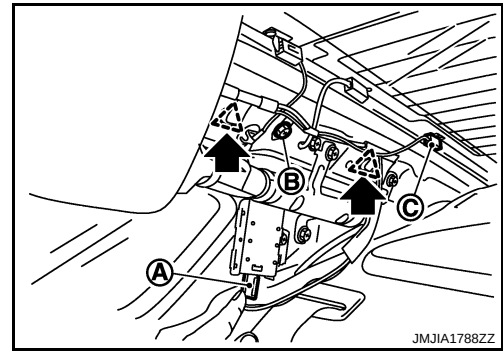
< ON-VEHICLE REPAIR >

5. Remove mounting plastic clips (A) using a flat-bladed screwdriver (B) of front and rear assistance grips (1), and then remove assist grips.



6. Remove the front seat assembly. Refer to [SE-92, "Removal and Installation"](#).
7. Remove rear seat assembly. Refer to [SE-99, "Removal and Installation"](#).
8. Remove front kicking plate inner (LH/RH), center pillar upper garnish (LH/RH) and rear pillar finisher (LH/RH).
Refer to [INT-39, "Removal and Installation"](#).
9. On the rear right side of the vehicle, disconnect the harness connector (A) and (C), remove the bolt (B) and then disengage the pawls as shown in the figure.

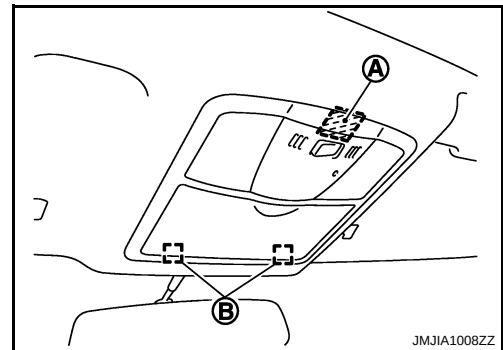
 : Pawl



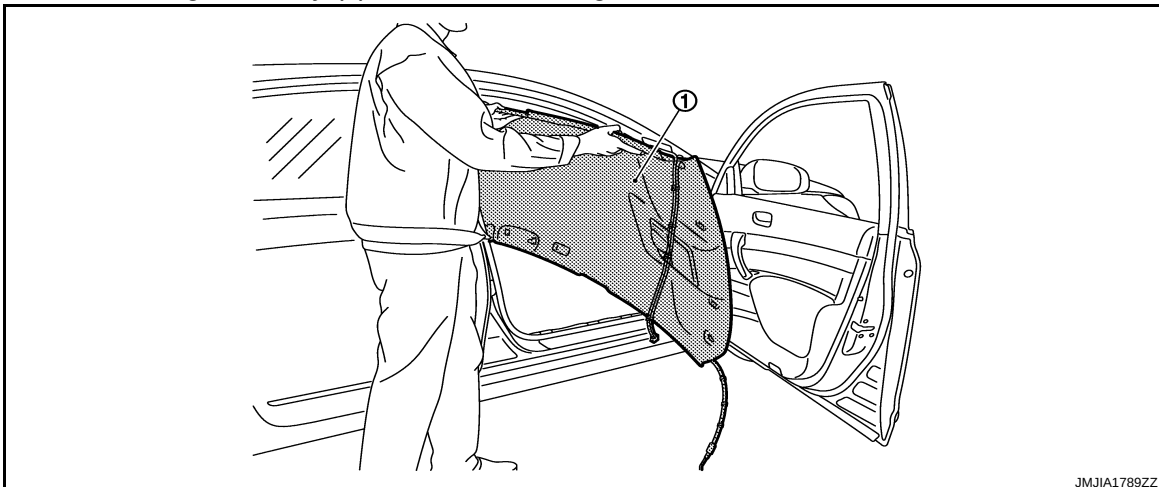
10. With a removal tool, remove body side mounting plastic clip from rear end of headlining.
11. Pull map lamp assembly toward vehicle lower, and disengage dual-lock fastener (A) and metal clips (B).

CAUTION:

Map lamp assembly is crimped from back of headlining.
Remove it by disengaging the crimped area of back of map lamp assembly after removing headlining from the vehicle.



12. Remove headlining assembly (1) as shown in the figure below.



HEADLINING

< ON-VEHICLE REPAIR >

CAUTION:

- When removing, 2 workers are required. (1 for the front and rear of headlining)
- Cover center console finisher upper surface with a shop cloth to prevent it from being damaged.
- Never bend headlining when removing.

13. Remove the following parts after removing headlining.

- Map lamp assembly. Refer to [INL-89, "Removal and Installation"](#).
- Personal lamp assembly. Refer to [INL-96, "Removal and Installation"](#).
- Roof harness assembly.
- Antenna feeder assembly. Refer to [AV-44, "Harness Layout"](#).

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Install headlining assembly after inserting clips to clip holder of headlining rear end.
- Never bend headlining when installing.

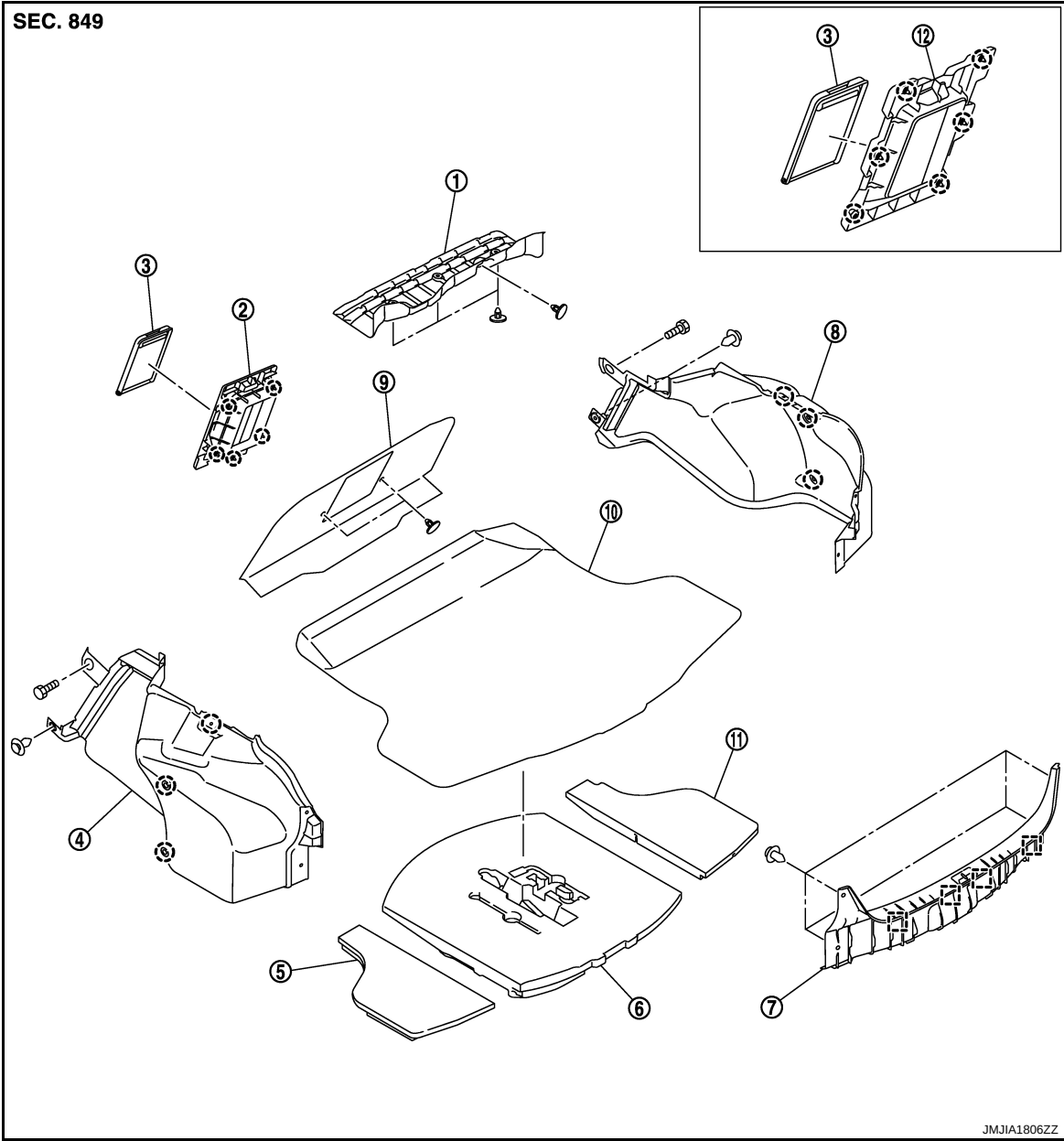
TRUNK ROOM TRIM

< ON-VEHICLE REPAIR >

TRUNK ROOM TRIM

Exploded View

INFOID:000000003819232



- | | | |
|-----------------------------------|---|---|
| 1. Trunk front finisher upper | 2. Rear seatback center finisher (Normal roof models) | 3. Rear seatback center finisher lid |
| 4. Rear wheel house finisher (LH) | 5. Trunk floor spacer (LH) | 6. Trunk center box assembly |
| 7. Trunk rear finisher | 8. Rear wheel house finisher (RH) | 9. Trunk front finisher center |
| 10. Trunk floor carpet | 11. Trunk floor spacer (RH) | 12. Rear seatback center finisher (Sun-roof models) |

 : Clip
 : Metal clip

Removal and Installation

INFOID:000000003819233

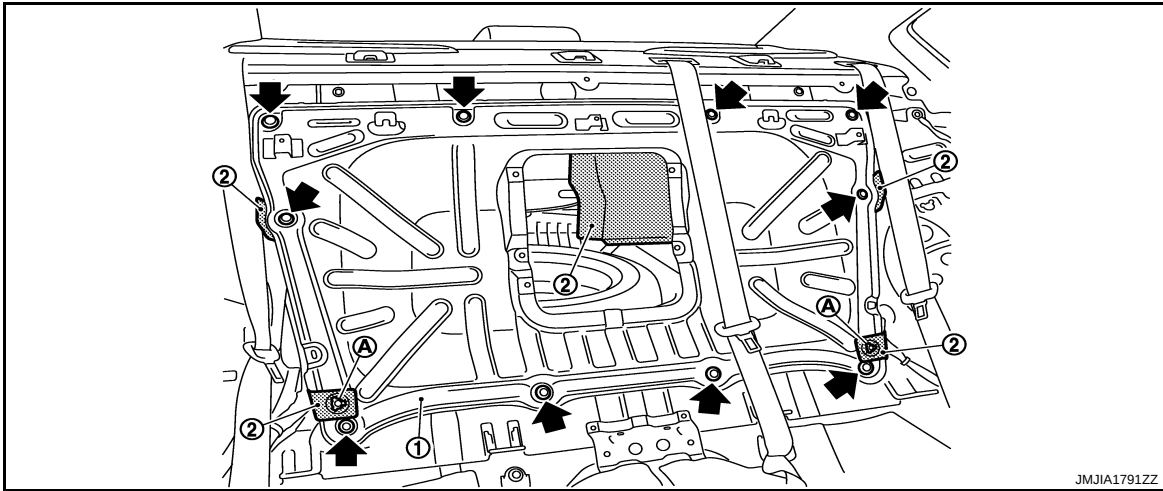
REMOVAL

1. Fully open trunk lid assembly.

TRUNK ROOM TRIM

< ON-VEHICLE REPAIR >

2. Remove trunk floor carpet.
3. Remove trunk center box.
4. Remove trunk floor spacer (LH/RH).
5. Remove trunk rear finisher mounting clips and metal clips, and then remove trunk rear finisher.
6. Remove trunk weather-strip.
7. Remove trunk front finisher center fixing clips, and then remove trunk front finisher center.
8. Remove trunk front finisher upper fixing clips, and then remove the trunk front finisher upper.
9. Remove rear wheel house finisher (LH/RH).
 - Remove rear wheel fixing clips
 - Remove rear seat assembly. Refer to [SE-99. "Removal and Installation"](#).
 - Remove rear seat support (1) fixing bolts, shown by the arrows in the figure below and then remove rear wheel house finisher (2)



← : Bolt

10. Disengage rear seatback center finisher assembly fixing clips with a remover tool (A), and then remove rear seatback center finisher assembly.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

Check that clips, pawls, metal clips are securely fitted in panel holes on body when installing, and then press them in.

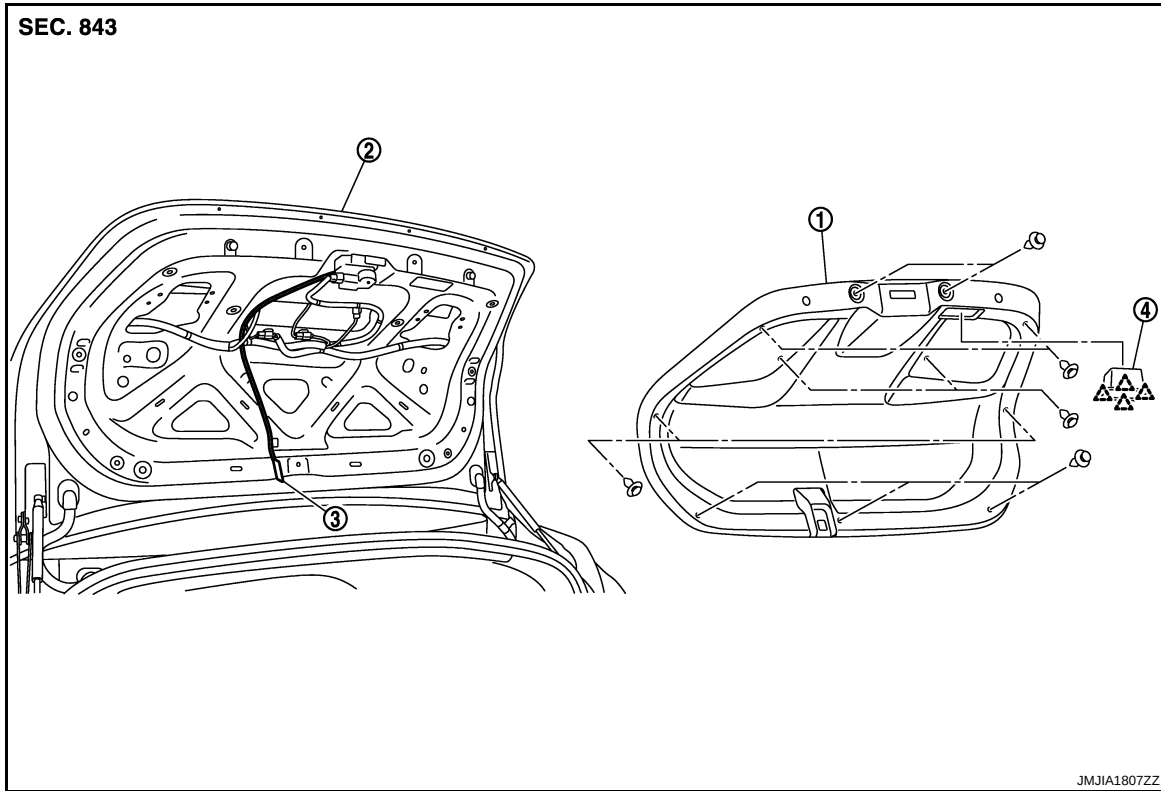
TRUNK LID TRIM

< ON-VEHICLE REPAIR >

TRUNK LID TRIM

Exploded View

INFOID:000000003819234

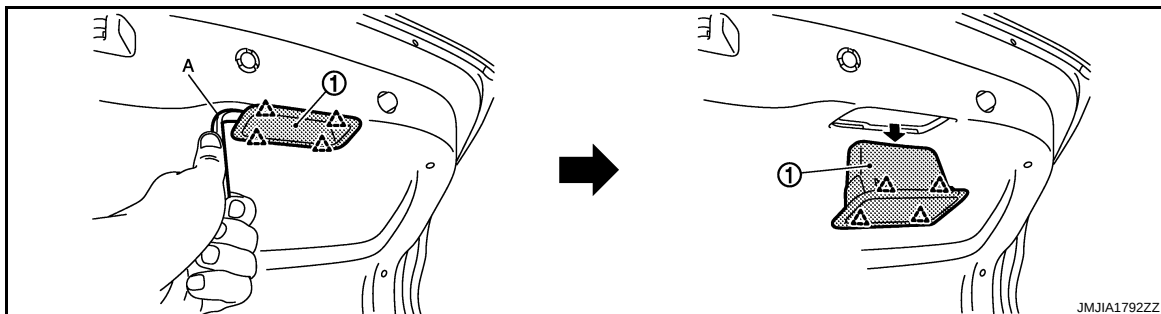


Removal and Installation

INFOID:000000003819235

REMOVAL

1. Fully open trunk lid assembly.
2. Disengage the trunk lid pull handle (1) fixing pawls with a remover tool (A), and then remove the trunk lid pull handle.

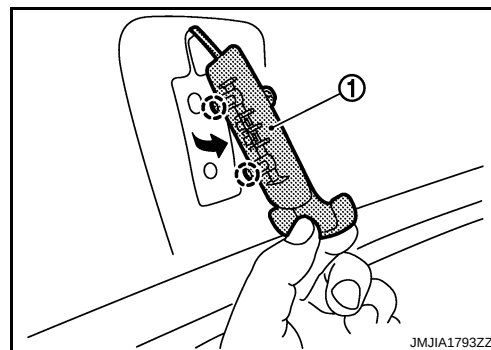


TRUNK LID TRIM

< ON-VEHICLE REPAIR >

3. Remove trunk lid emergency handle holder (1).

 : Clip



4. Remove trunk lid finisher mounting clips, and then remove trunk lid finisher inner.

INSTALLATION

Install in the reverse order of removal.

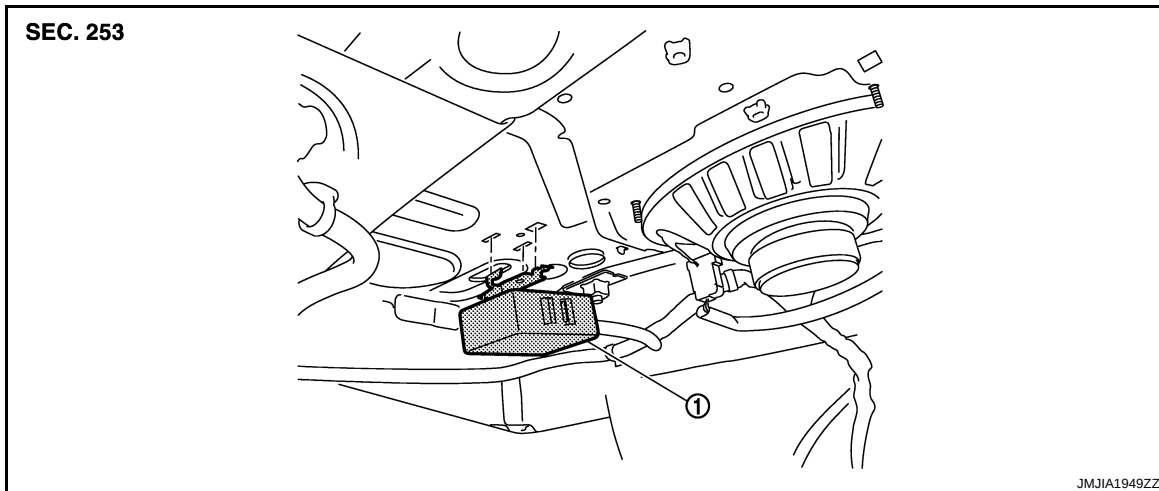
REAR SUNSHADE CONTROL UNIT

< ON-VEHICLE REPAIR >

REAR SUNSHADE CONTROL UNIT

Exploded View

INFOID:000000003840071



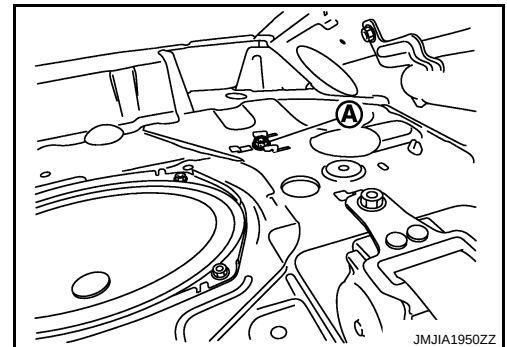
1. Rear sunshade control unit

Removal and Installation

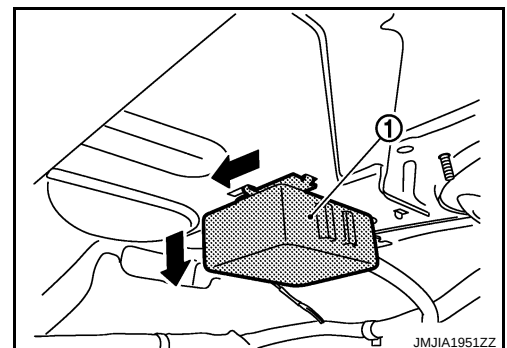
INFOID:000000003840072

REMOVAL

1. Remove the rear parcel shelf finisher.
Refer to [INT-43, "Removal and Installation"](#).
2. Remove the rear sunshade control unit bracket bolt (A).



3. Remove the rear sunshade control unit. (1) Pull toward the direction of the arrow.



INSTALLATION

Install in the reverse order of removal.

REAR SUNSHADE SWITCH

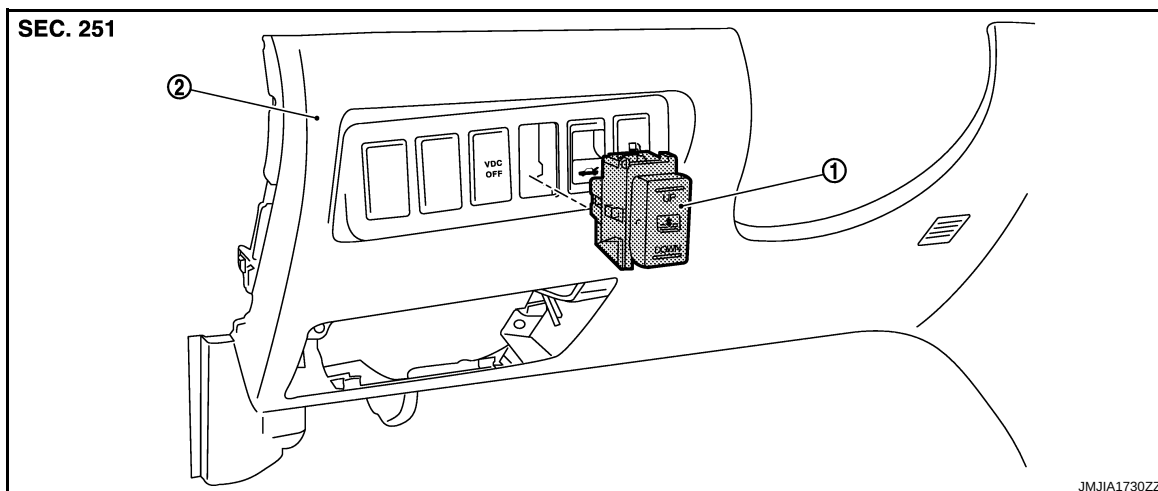
< ON-VEHICLE REPAIR >

REAR SUNSHADE SWITCH

FRONT

FRONT : Exploded View

INFOID:000000003840075



1. Rear sunshade switch (front)
2. Instrument lower panel LH

FRONT : Removal and Installation

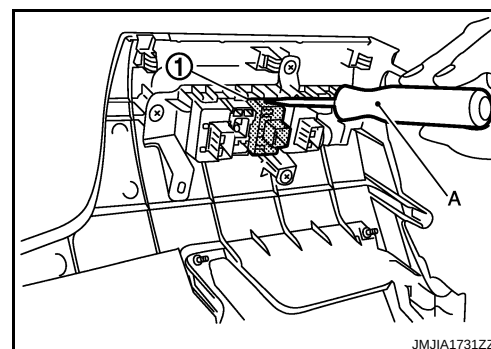
INFOID:000000003840076

REMOVAL

1. Remove the instrument lower panel LH.
Refer to [JP-12. "Removal and Installation"](#).
2. Rear sunshade switch (front) (1) is removed from instrument lower panel LH using flat-bladed screw driver (A) etc.

CAUTION:

Never fold pawl of instrument lower panel LH.



INSTALLATION

Install in the reverse order of removal.

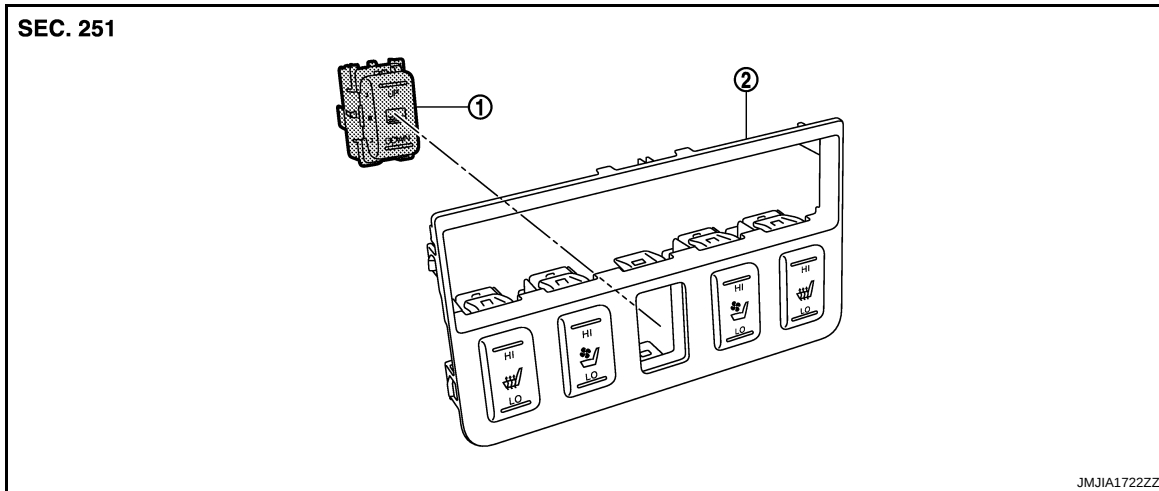
REAR

REAR SUNSHADE SWITCH

< ON-VEHICLE REPAIR >

REAR : Exploded View

INFOID:000000003840077



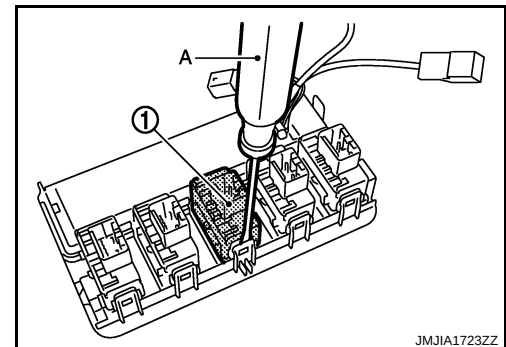
REAR : Removal and Installation

INFOID:000000003840078

REMOVAL

1. Remove the control switch panel.
Refer to [SE-98, "Exploded View"](#).
2. Rear sunshade switch (rear) (1) is removed from control switch panel using flat-bladed screw driver (A) etc.

CAUTION:
Never fold the pawl of control switch panel.



INSTALLATION

Install in the reverse order of removal.