SECTION MIR
MIRRORS

CONTENTS

PRECAUTION

PRECAUTIONS

Precaution for Technicians Using Medical Electric

INFOID:0000000009352665

OPERATION PROHIBITION

WARNING:

- **Parts with strong magnet is used in this vehicle.**
- **Technicians using a medical electric device such as pacemaker must never perform operation on the vehicle, as magnetic field can affect the device function by approaching to such parts.**

NORMAL CHARGE PRECAUTION

WARNING:

- **If a technician uses a medical electric device such as an implantable cardiac pacemaker or an implantable cardioverter defibrillator, the possible effects on the devices must be checked with the device manufacturer before starting the charge operation.**
- **As radiated electromagnetic wave generated by PDM (Power Delivery Module) at normal charge operation may affect medical electric devices, a technician using a medical electric device such as implantable cardiac pacemaker or an implantable cardioverter defibrillator must not approach motor room [PDM (Power Delivery Module)] at the hood-opened condition during normal charge operation.**

PRECAUTION AT TELEMATICS SYSTEM OPERATION

WARNING:

- **If a technician uses implantable cardiac pacemaker or implantable cardioverter defibrillator (ICD), avoid the device implanted part from approaching within approximately 220 mm (8.66 in) from interior/exterior antenna.**
- **The electromagnetic wave of TCU might affect the function of the implantable cardiac pacemaker or the implantable cardioverter defibrillator (ICD), when using the service, etc.**
- **If a technician uses other medical electric devices than implantable cardiac pacemaker or implantable cardioverter defibrillator (ICD), the electromagnetic wave of TCU might affect the function of the device. The possible effects on the devices must be checked with the device manufacturer before TCU use.**

PRECAUTION AT INTELLIGENT KEY SYSTEM OPERATION

WARNING:

- **If a technician uses implantable cardiac pacemaker or implantable cardioverter defibrillator (ICD), avoid the device implanted part from approaching within approximately 220 mm (8.66 in) from interior/exterior antenna.**
- **The electromagnetic wave of Intelligent Key might affect the function of the implantable cardiac pacemaker or the implantable cardioverter defibrillator (ICD), at door operation, at each request switch operation, or at engine starting.**
- **If a technician uses other medical electric devices than implantable cardiac pacemaker or implantable cardioverter defibrillator (ICD), the electromagnetic wave of Intelligent Key might affect the function of the device. The possible effects on the devices must be checked with the device manufacturer before Intelligent Key use.**

Point to Be Checked Before Starting Maintenance Work

INFOID:0000000008743833

The high voltage system may starts automatically. It is required to check that the timer air conditioner and timer charge (during EVSE connection) are not set before starting maintenance work.
NOTE:
If the timer air conditioner or timer charge (during EVSE connection) is set, the high voltage system starts automatically even when the power switch is in OFF state.

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

INFOID:0000000009320962

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 SR and SB section of this Service Manual.

WARNING:

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

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

WARNING:

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

Precaution for Removing 12V Battery

INFOID:0000000008743835

CAUTION:

When the 12V battery is removed, plural DTC may be detected.
After installing 12V battery, always perform “All DTC” with CONSULT and delete DTC.

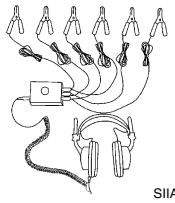
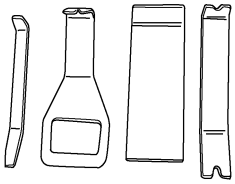
PREPARATION

PREPARATION

Special Service Tools

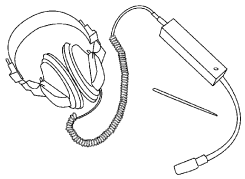
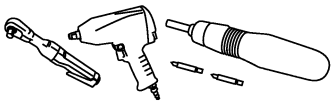
INFOID:0000000008743836

The actual shape of the tools may differ from those illustrated here.

Tool number (TechMate No.) Tool name	Description
(J-39570) Chassis Ear  SIIA0993E	Locates the noise
(J-50397) NISSAN Squeak and Rattle Kit  ALJIA1232ZZ	Repairs the cause of noise
— (J-46534) Trim Tool Set  AWJIA0483ZZ	Removing trim components

Commercial Service Tools

INFOID:0000000008743837

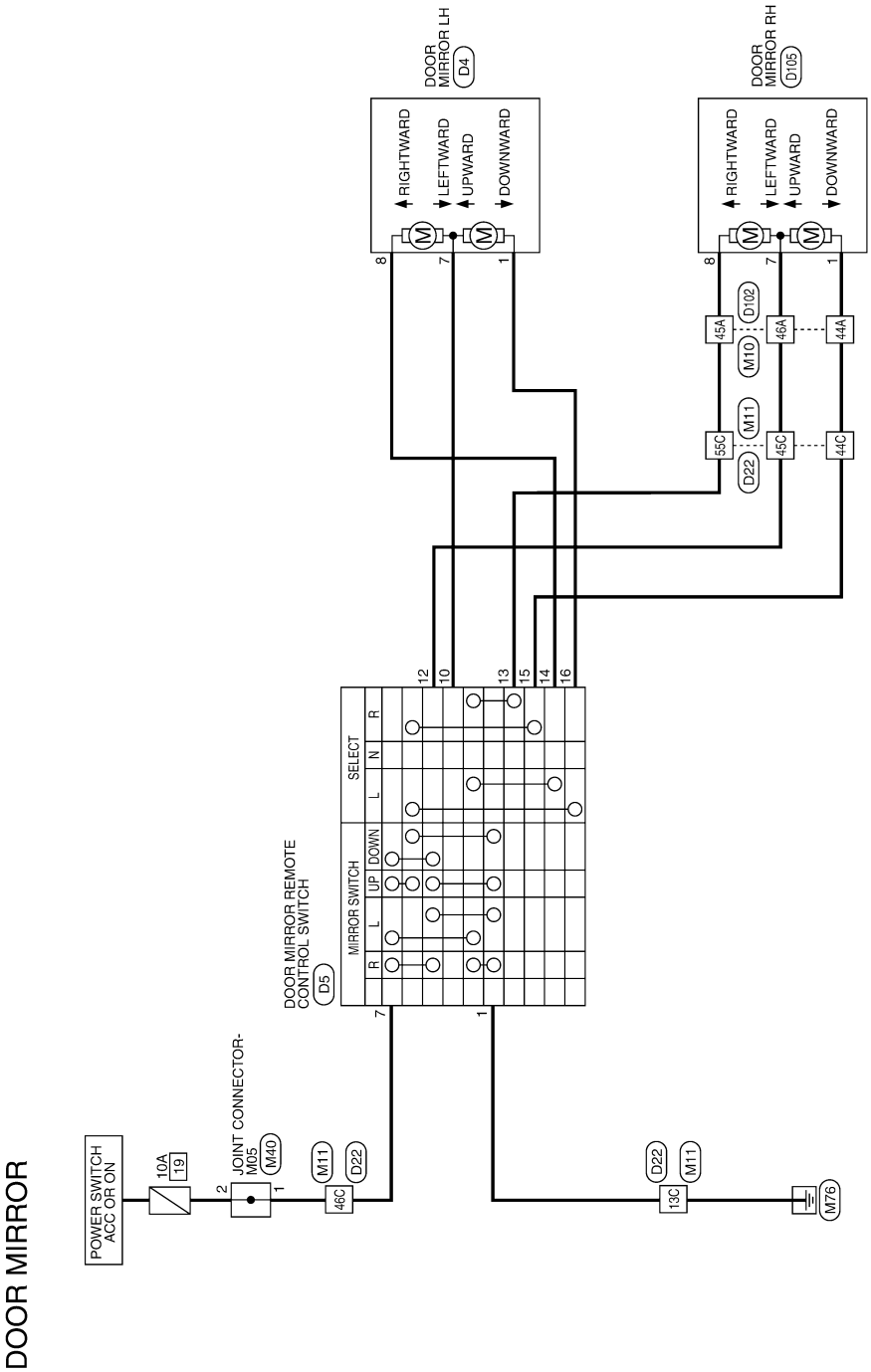
(TechMate No.) Tool name	Description
(J-39565) Engine Ear  SIIA0995E	Locates the noise
(—) Power tool  PIIB1407E	Loosening nuts, screws and bolts

WIRING DIAGRAM

DOOR MIRROR

Wiring Diagram

INFOID:0000000008743838

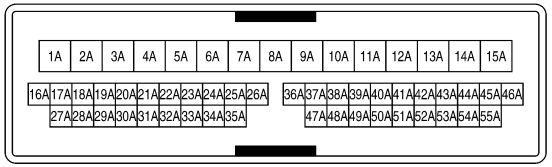


AALWA0604GB

DOOR MIRROR - CONNECTORS

Connector No.	M10
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1A	L	– (WITH BOSE)
1A	R	– (WITHOUT BOSE)
2A	P	– (WITH BOSE)
2A	G	– (WITHOUT BOSE)
3A	SHIELD	–
4A	LG	–
5A	V	–
10A	BR	–
11A	Y	–
12A	B	–
13A	W	–
14A	SB	–
15A	L	–
24A	Y	–
25A	BR	–
26A	SHIELD	–

Terminal No.	Color of Wire	Signal Name
36A	B	–
37A	P	–
38A	Y	–
39A	LG	–
43A	V	–
44A	L	–
45A	LG	–
46A	BR	–
47A	W	–
48A	B	–
49A	R	–
50A	SHIELD	–

AALIA1712GB

Terminal No.	Color of Wire	Signal Name
54C	R	–
55C	LG	–

Terminal No.	Color of Wire	Signal Name
20C	–	–
21C	–	–
22C	–	–
23C	–	–
24C	G	–
25C	R	–
26C	SHIELD	–
27C	–	–
28C	–	–
29C	–	–
30C	–	–
31C	–	–
32C	–	–
33C	–	–
34C	–	–
35C	–	–
36C	LG	–
37C	R	–
38C	GR	–
39C	W	–
40C	P	–
41C	V	–
42C	V	–
43C	B	–
44C	L	–
45C	BR	–
46C	L	–
47C	Y	–
48C	BR	–
49C	B	–
50C	W	–
51C	R	–
52C	SHIELD	–
53C	–	–

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1C	R	– (WITH BOSE)
1C	P	– (WITHOUT BOSE)
2C	G	– (WITH BOSE)
2C	L	– (WITHOUT BOSE)
3C	SHIELD	–
4C	G	–
5C	V	–
6C	–	–
7C	BR	–
8C	SB	–
9C	LG	–
10C	Y	–
11C	W	–
12C	SB	–
13C	B	–
14C	L	–
15C	R	–
16C	–	–
17C	–	–
18C	–	–
19C	–	–

AALIA1713GB

Connector No.	M40
Connector Name	JOINT CONNECTOR-M05
Connector Color	BLUE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	L	–
2	L	–
3	BR	–
4	GR	–
5	L	–
6	L	–
7	L	–

Terminal No.	Color of Wire	Signal Name
8	L	–
9	L	–
10	L	–
11	LG	–
12	LG	–
13	L	–
14	R	–
15	P	–
16	P	–
17	P	–
18	P	–
19	P	–
20	P	–

Connector No.	D4
Connector Name	DOOR MIRROR RH
Connector Color	WHITE

H.S.

4	3	2	1
8	7	6	5

Terminal No.	Color of Wire	Signal Name
1	W	–
2	GR	–
3	B	–
4	–	–
5	–	–
6	–	–
7	BG	–
8	Y	–

Connector No.	D5
Connector Name	DOOR MIRROR REMOTE CONTROL SWITCH
Connector Color	WHITE

H.S.

1	2	3	4	5	6	7
8	9	10	11	12	13	14	15	16
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Terminal No.	Color of Wire	Signal Name
1	B	–
2	–	–
3	–	–
4	–	–
5	–	–
6	–	–
7	L	–

Terminal No.	Color of Wire	Signal Name
8	GR	–
9	V	–
10	BG	–
11	–	–
12	BR	–
13	LG	–
14	Y	–
15	L	–
16	W	–

AALIA1850GB

Connector No.	D22
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

15C	14C	13C	12C	11C	10C	9C	8C	7C	6C	5C	4C	3C	2C	1C
46C	45C	44C	43C	42C	41C	40C	39C	38C	37C	36C	26C	25C	24C	23C	22C	21C	20C	19C	18C	17C	16C
55C	54C	53C	52C	51C	50C	49C	48C	47C			35C	34C	33C	32C	31C	30C	29C	28C	27C		

Terminal No.	Color of Wire	Signal Name
1C	R	– (WITH BOSE)
1C	L	– (WITHOUT BOSE)
2C	G	– (WITH BOSE)
2C	V	– (WITHOUT BOSE)
3C	SHIELD	–
4C	SB	–
5C	V	–
6C	–	–
7C	P	–
8C	BR	–

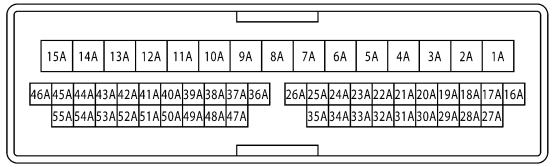
Terminal No.	Color of Wire	Signal Name
9C	LG	–
10C	Y	–
11C	W	–
12C	SB	–
13C	B	–
14C	V	–
15C	R	–
16C	–	–
17C	–	–
18C	–	–
19C	–	–
20C	–	–
21C	–	–
22C	–	–
23C	–	–
24C	G	–
25C	R	–
26C	SHIELD	–
27C	–	–
28C	–	–
29C	–	–
30C	–	–
31C	–	–
32C	–	–

Terminal No.	Color of Wire	Signal Name
33C	–	–
34C	–	–
35C	–	–
36C	LG	–
37C	R	–
38C	L	–
39C	G	–
40C	P	–
41C	–	–
42C	P	–
43C	GR	–
44C	L	–
45C	BR	–
46C	L	–
47C	Y	–
48C	BR	–
49C	B	–
50C	W	–
51C	R	–
52C	SHIELD	–
53C	–	–
54C	V	–
55C	LG	–

AALIA1851GB

Connector No.	D102
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.



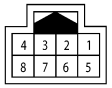
Terminal No.	Color of Wire	Signal Name
1A	L	– (WITH BOSE)
1A	BR	– (WITHOUT BOSE)
2A	P	– (WITH BOSE)
2A	R	– (WITHOUT BOSE)
3A	SHIELD	–
4A	Y	–
5A	V	–
6A	–	–
7A	–	–
8A	–	–

Terminal No.	Color of Wire	Signal Name
9A	–	–
10A	BR	–
11A	Y	–
12A	B	–
13A	W	–
14A	SB	–
15A	R	–
16A	–	–
17A	–	–
18A	–	–
19A	–	–
20A	–	–
21A	–	—
22A	–	–
23A	–	–
24A	Y	–
25A	BR	–
26A	SHIELD	–
27A	–	–
28A	–	–
29A	–	–
30A	–	–
31A	–	–
32A	–	–

Terminal No.	Color of Wire	Signal Name
33A	–	–
34A	–	–
35A	–	–
36A	B	–
37A	P	–
38A	Y	–
39A	LG	–
40A	–	–
41A	–	–
42A	–	–
43A	V	–
44A	V	–
45A	W	–
46A	BG	–
47A	W	–
48A	B	–
49A	R	–
50A	SHIELD	–
51A	–	–
52A	–	–
53A	–	–
54A	–	–
55A	–	–

Connector No.	D105
Connector Name	DOOR MIRROR RH
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1	V	–
2	V	–
3	B	–
4	–	–
5	–	–
6	–	–
7	BG	–
8	W	–

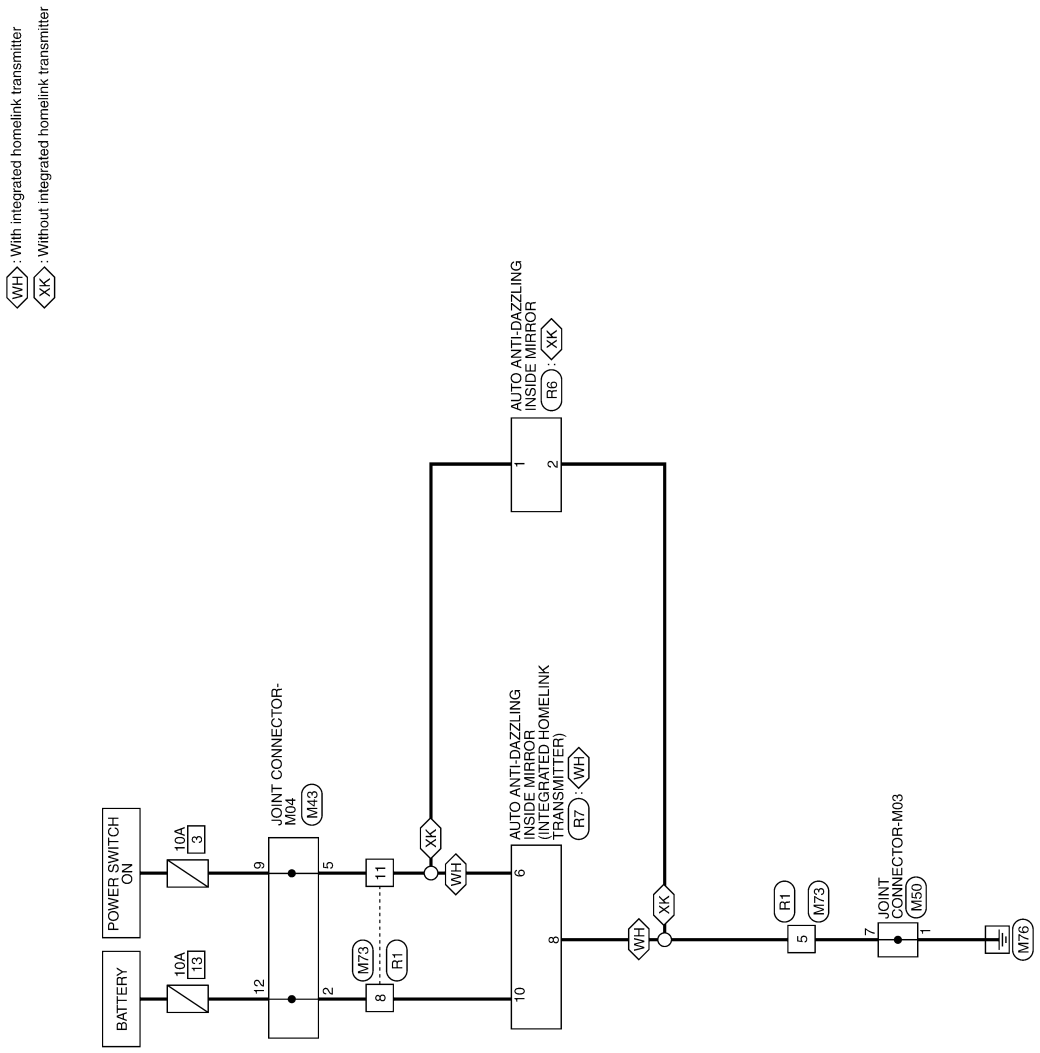
AALIA1852GB

< WIRING DIAGRAM >

INSIDE MIRROR

Wiring Diagram

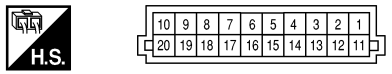
INFOID:0000000008743839



AALWA0605GB

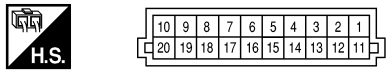
INSIDE MIRROR - CONNECTORS

Connector No.	M43
Connector Name	JOINT CONNECTOR-M04
Connector Color	GRAY



Terminal No.	Color of Wire	Signal Name
1	G	–
2	Y	–
3	W	–
4	W	–
5	W	–
6	Y	–
7	Y	–
8	G	–
9	W	–
10	W	–
11	Y	–
12	Y	–
13	–	–
14	–	–
15	–	–
16	–	–
17	–	–
18	B	–
19	B	–
20	B	–

Connector No.	M50
Connector Name	JOINT CONNECTOR-M03
Connector Color	PINK

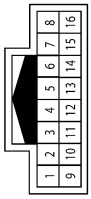


Terminal No.	Color of Wire	Signal Name
1	B	–
2	B	–
3	B	–
4	B	–
5	B	–
6	B	–
7	B	–
8	B	–
9	B	–
10	B	–
11	G	–
12	G	–
13	G	–
14	G	–
15	G	–
16	L	–
17	L	–
18	L	–
19	L	–
20	L	–

AALIA1714GB

Connector No.	M73
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

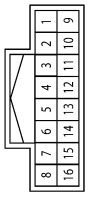


Terminal No.	Color of Wire	Signal Name
1	P	–
2	L	–
3	SHIELD	–
4	–	–
5	B	–
6	BR	–
7	P	–
8	Y	–
9	R	–

Terminal No.	Color of Wire	Signal Name
10	B	–
11	W	–
12	–	–
13	–	–
14	–	–
15	–	–
16	–	–

Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.



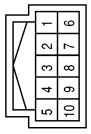
Terminal No.	Color of Wire	Signal Name
1	P	–
2	L	–
3	GR	–
4	–	–
5	B	–

Terminal No.	Color of Wire	Signal Name
6	R	–
7	Y	–
8	–	–
9	V	–
10	G	–
11	B/R	–
12	–	–
13	–	–
14	–	–
15	–	–
16	–	–

AALIA1715GB

Connector No.	R7
Connector Name	AUTO ANTI-DAZZLING INSIDE MIRROR (INTEGRATED HOMELINK TRANSMITTER)
Connector Color	BLACK

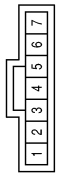
H.S.



Terminal No.	Color of Wire	Signal Name
1	–	–
2	–	–
3	–	–
4	–	–
5	–	–
6	B/R	IGN
7	–	–
8	B/Y	GND
9	–	–
10	B	IGN

Connector No.	R6
Connector Name	AUTO ANTI-DAZZLING INSIDE MIRROR (WITHOUT UNIVERSAL HOMELINK TRANSCEIVER)
Connector Color	BLACK

H.S.



Terminal No.	Color of Wire	Signal Name
1	B/R	–
2	B	–
3	–	–
4	–	–
5	–	–
6	–	–
7	–	–

AALIA1853GB

DTC/CIRCUIT DIAGNOSIS

DOOR MIRROR REMOTE CONTROL SWITCH (MIRROR SWITCH/ CHANGEOVER SWITCH)

Component Inspection

INFOID:0000000008743840

1.CHECK MIRROR SWITCH AND CHANGEOVER SWITCH

1. Turn power switch OFF.
2. Disconnect door mirror remote control switch connector.
3. Check continuity between door mirror remote control switch terminals under the following conditions.

Door mirror remote control switch			Condition		Continuity
Terminal			Changeover switch	Mirror switch	
LH	7	10	LEFT	RIGHT	Yes
	1	14			
	7	14		LEFT	
	1	10			
	7	16		UP	
	1	10			
	7	10		DOWN	
	1	16			
RH	7	12	RIGHT	RIGHT	
	1	13			
	7	13		LEFT	
	1	12			
	7	15		UP	
	1	12			
	7	12		DOWN	
	1	15			

Is the inspection result normal?

YES >> Inspection End.

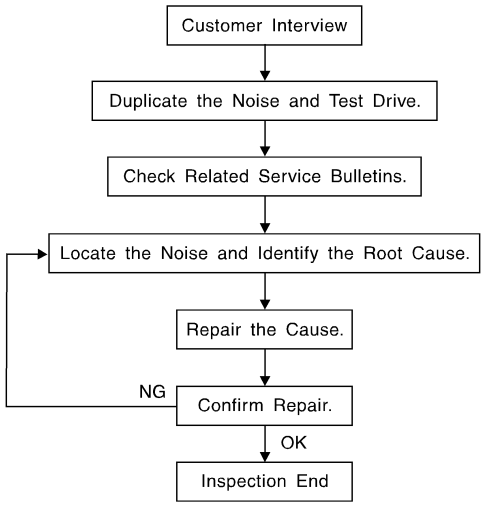
NO >> Replace door mirror remote control switch. Refer to MIR-26, "Removal and Installation".

SYMPTOM DIAGNOSIS

SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow

INFOID:0000000010085600



SBT842

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 customer's comments; refer to MIR-20, "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 test driving the vehicle with the customer.
- After identifying the type of noise, isolate the noise in terms of its characteristics. The noise characteristics are provided so the customer, service adviser and technician are all speaking the same language when defining the noise.
- Squeak —(Like tennis shoes on a clean floor)
  Squeak characteristics include the light contact/fast movement/brought on by road conditions/hard surfaces = higher pitch noise/softer surfaces = lower pitch noises/edge to surface = chirping.
- Creak—(Like walking on an old wooden floor)
  Creak characteristics include firm contact/slow movement/twisting with a rotational movement/pitch dependent on materials/often brought on by activity.
- Rattle—(Like shaking a baby rattle)
  Rattle characteristics include the fast repeated contact/vibration or similar movement/loose parts/missing clip or fastener/incorrect clearance.
- Knock —(Like a knock on a door)
  Knock characteristics include hollow sounding/sometimes repeating/often brought on by driver action.
- Tick—(Like a clock second hand)
  Tick characteristics include gentle contacting of light materials/loose components/can be caused by driver action or road conditions.
- Thump—(Heavy, muffled knock noise)
  Thump characteristics include softer knock/dead sound often brought on by activity.
- Buzz—(Like a 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 you may judge as acceptable may be very irritating to the customer.
- Weather conditions, especially humidity and temperature, may have a great effect on noise level.

DUPLICATE THE NOISE AND TEST DRIVE

If possible, drive the vehicle with the customer until the noise is duplicated. Note any additional information on the Diagnostic Worksheet regarding the conditions or location of the noise. This information can be used to duplicate the same conditions when you confirm the repair.
If the noise can be duplicated easily during the test drive, to help identify the source of the noise, try to duplicate the noise with the vehicle stopped by doing one or all of the following:
1) Close a door.
2) Tap or push/pull around the area where the noise appears to be coming from.
3) Rev the engine.
4) Use a floor jack to recreate vehicle “twist”.
5) At idle, apply engine load (electrical load, half-clutch on M/T model, drive position on CVT and A/T models).
6) Raise the vehicle on a hoist and hit a tire with a rubber hammer.

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

CHECK RELATED SERVICE BULLETINS

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

LOCATE THE NOISE AND IDENTIFY THE ROOT CAUSE

1. Narrow down the noise to a general area. To help pinpoint the source of the noise, use a listening tool (Chassis Ear: J-39570, Engine Ear: J-39565 and mechanic's stethoscope).
2. Narrow down the noise to a more specific area and identify the cause of the noise by:
   - removing the components in the area that you suspect the noise is coming from.
     Do not use too much force when removing clips and fasteners, otherwise clips and fasteners can be broken or lost during the repair, resulting in the creation of new noise.
   - tapping or pushing/pulling the component that you suspect is causing the noise.
     Do not tap or push/pull the component with excessive force, otherwise the noise will be eliminated only temporarily.
   - feeling for a vibration with your hand by touching the component(s) that you suspect is (are) causing the noise.
   - placing a piece of paper between components that you suspect are causing the noise.
   - looking for loose components and contact marks.
     Refer to MIR-17, "Generic Squeak and Rattle Troubleshooting".

REPAIR THE CAUSE

- If the cause is a loose component, tighten the component securely.
- If the cause is insufficient clearance between components:
- separate components by repositioning or loosening and retightening the component, if possible.
- insulate components with a suitable insulator such as urethane pads, foam blocks, felt cloth tape or urethane tape. A NISSAN Squeak and Rattle Kit (J-50397) is available through your authorized NISSAN Parts Department.

CAUTION:
Do not use excessive force as many components are constructed of plastic and may be damaged.
NOTE:

- Always check with the Parts Department for the latest parts information.
- The materials contained in the NISSAN Squeak and Rattle Kit (J-50397) are listed on the inside cover of the kit; and can each be ordered separately as needed.
- The following materials not found in the kit can also be used to repair squeaks and rattles.
- SILICONE GREASE: Use instead of UHMW tape that will be visible or does not fit. The silicone grease will only last a few months.
- SILICONE SPRAY: Use when grease cannot be applied.
- DUCT TAPE: Use to eliminate movement.

CONFIRM THE REPAIR

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

Generic Squeak and Rattle Troubleshooting

INFOID:0000000010085601

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 the instrument panel
2. Acrylic lens and combination meter housing
3. Instrument panel to front pillar finisher
4. Instrument panel to windshield
5. Instrument panel 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 silicone spray (in hard to reach areas). Urethane pads can be used to insulate wiring harness.

CAUTION:

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

CENTER CONSOLE

Components to pay attention to include:

1. Shift selector 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:

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. You can usually insulate the areas with felt cloth tape or insulator foam blocks from the NISSAN Squeak and Rattle Kit (J-50397) to repair the noise.

TRUNK

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

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

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

SUNROOF/HEADLINING

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

1. Sunroof lid, rail, linkage or seals making a rattle or light knocking noise
2. Sun visor 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.

OVERHEAD CONSOLE (FRONT AND REAR)

Overhead console noises are often caused by the console panel clips not being engaged correctly. Most of these incidents are repaired by pushing up on the console at the clip locations until the clips engage.
In addition look for:

1. Loose harness or harness connectors.
2. Front console map/reading lamp lens loose.
3. Loose screws at console attachment points.

SEATS

When isolating seat noise it's important to note the position the seat is in and the load placed on the seat when the noise is present. These conditions should be duplicated when verifying and isolating the cause of the noise.

Cause of seat noise include:

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

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

UNDERHOOD

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

Causes of transmitted underhood noise include:

1. Any component installed to the engine wall
2. Components that pass through the engine wall
3. Engine wall mounts and connectors
4. Loose radiator installation 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.

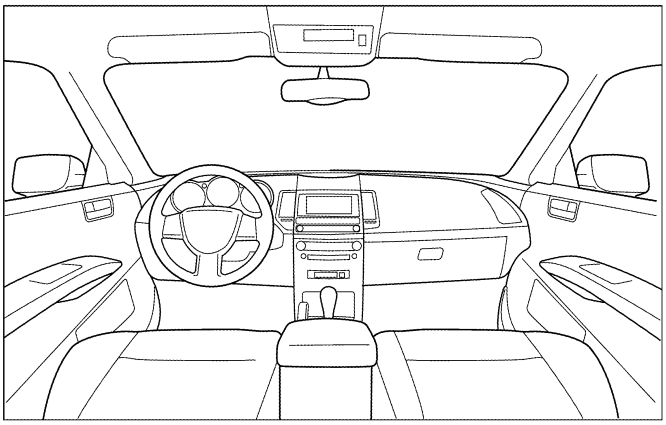
Diagnostic Worksheet

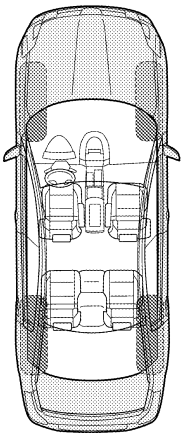
INFOID:0000000010085602

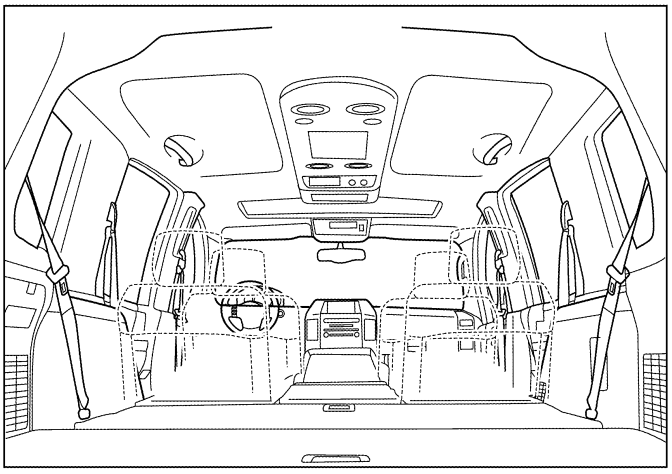
Dear Customer:
We are concerned about your satisfaction with your vehicle. Repairing a squeak or rattle sometimes can be very difficult. To help us fix your vehicle right the first time, please take a moment to note the area of the vehicle where the squeak or rattle occurs and under what conditions. You may be asked to take a test drive with a service advisor or technician to ensure we confirm the noise you are hearing.

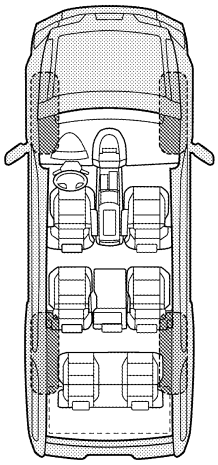
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

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 & 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

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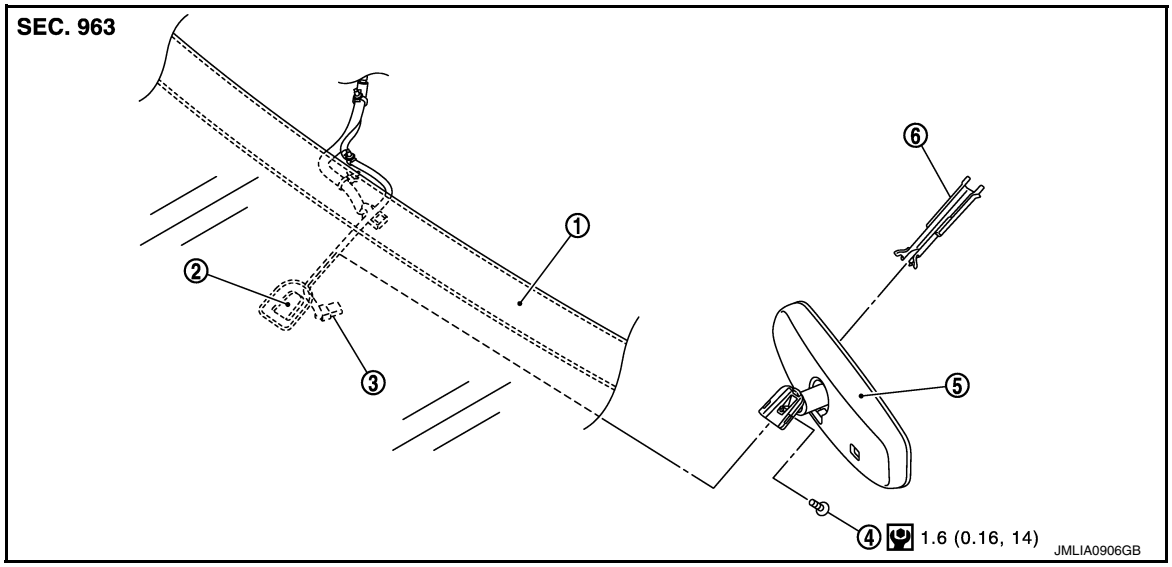
REMOVAL AND INSTALLATION

INSIDE MIRROR

Exploded View

INFOID:0000000008743841



1. Windshield glass
2. Mirror base
3. Harness connector
4. Bolt
5. Inside mirror
6. Inside mirror cover

Removal and Installation

INFOID:0000000008743842

Removal

1. Remove inside mirror cover.
2. Disconnect harness connector from inside mirror.
3. Loosen bolt and slide inside mirror upward to remove.

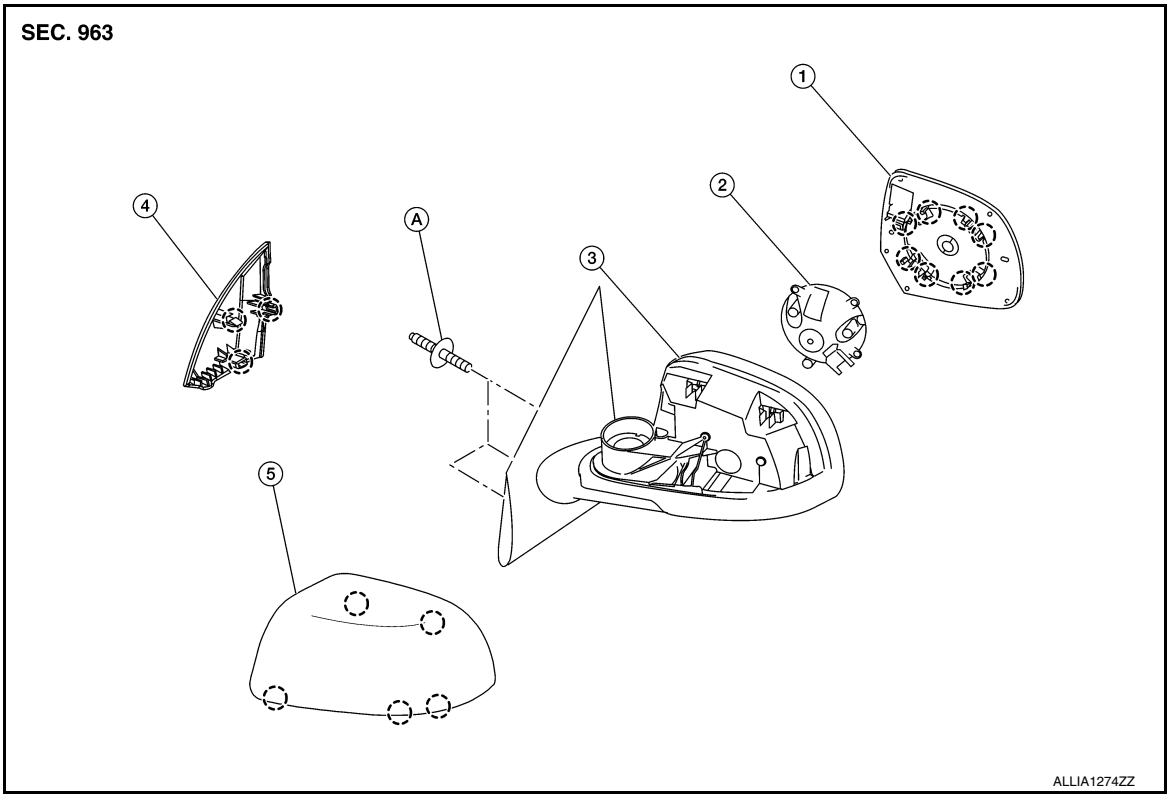
Installation

Install in the reverse order of removal.

DOOR MIRROR

Exploded View

INFOID:0000000008743843



1. Glass mirror
2. Door mirror actuator
3. Door mirror assembly
4. Door mirror corner cover
5. Door mirror cover
A. Door mirror stud

◌ : Pawl

DOOR MIRROR ASSEMBLY

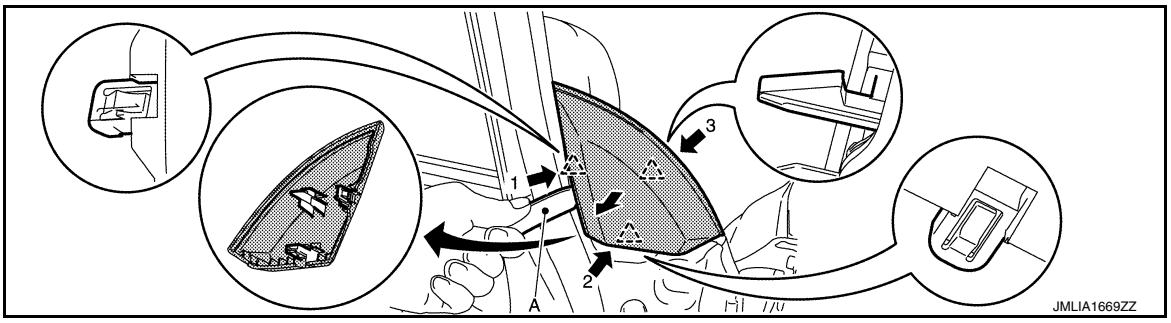
DOOR MIRROR ASSEMBLY : Removal and Installation

INFOID:0000000008743844

CAUTION:
When removing, always use a remover tool that is made of plastic to prevent damage to the parts.

REMOVAL

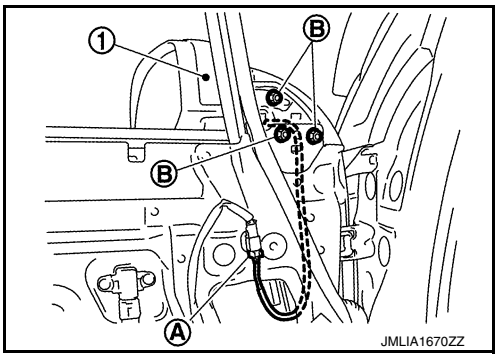
1. Remove front door finisher. Refer to INT-19, "Removal and Installation".
2. Remove door mirror corner cover.



△ : Pawl

a. Insert a remover tool A into the hole as shown in the figure to disengage the fixing pawls.

b. Remove door mirror corner cover from door panel.
3. Remove partially front door sealing screen.
4. Disconnect door mirror harness connector Ⓐ.
5. Remove door mirror mounting nuts Ⓑ.
6. Remove door mirror harness connector from door panel as shown in the figure, and then remove door mirror assembly ①.



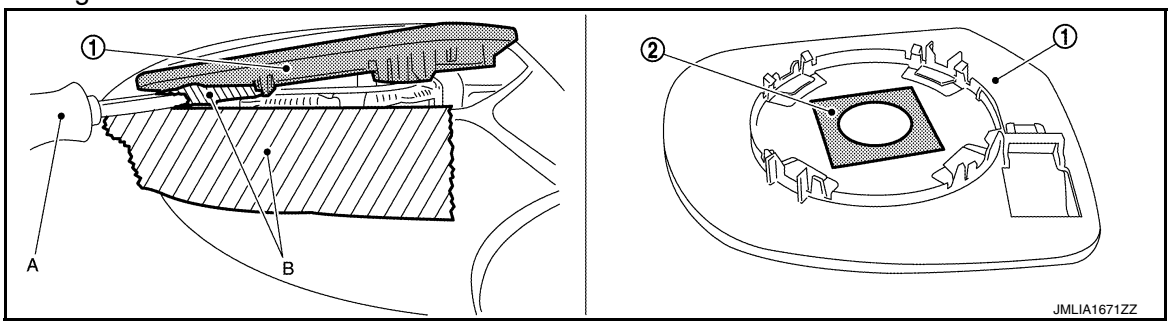
INSTALLATION
Install in the reverse order of removal.

GLASS MIRROR

GLASS MIRROR : Removal and Installation

INFOID:0000000008743845

REMOVAL
1. Place the glass mirror upward.
2. Remove glass mirror.



a. Put a strip of protective tape (B) on mirror body.
b. Insert a remover tool (A) into the recess at lower side between glass mirror (1) and actuator, and push up pawls to remove glass mirror lower side.
NOTE:
Insert a remover tool into recesses, and push up while rotating (twisting) to make work easier.
c. Remove the glass mirror fixing butyl-tape (2) with a cutting tool and remove glass mirror from mirror body.
d. Disconnect the heater harness connectors (if equipped).

INSTALLATION
Note the following item, and then install in the reverse order of removal.
CAUTION:
After installation, visually check that pawls are securely engaged.

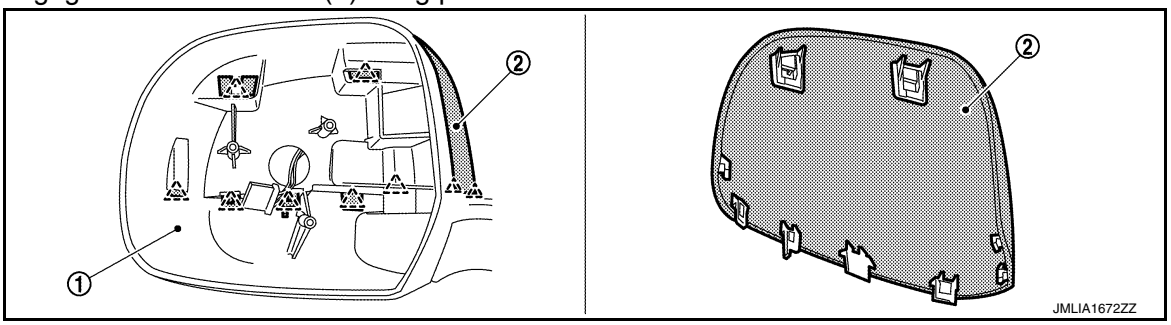
DOOR MIRROR COVER

DOOR MIRROR COVER : Removal and Installation

INFOID:0000000008743846

REMOVAL
1. Remove the glass mirror. Refer to MIR-24, "GLASS MIRROR : Removal and Installation".
2. Remove door mirror actuator.

3. Disengage door mirror cover (2) fixing pawls with a remover tool.



: Pawl

4. Remove door mirror cover from door mirror body (1).

INSTALLATION

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

CAUTION:

After installation, visually check that pawls are securely engaged.

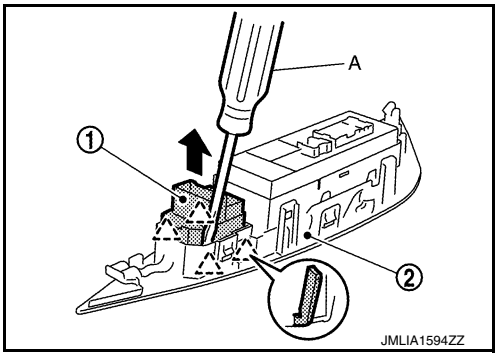
DOOR MIRROR REMOTE CONTROL SWITCH

Removal and Installation

INFOID:0000000008743847

REMOVAL

1. Remove power window main switch finisher. Refer to INT-19, "Removal and Installation".
2. Remove door mirror remote control switch (1) from power window main switch finisher (2) using remover tool (A).



: Pawl

CAUTION:
Never fold the pawl of power window main switch finisher.

INSTALLATION

Install in the reverse order of removal.

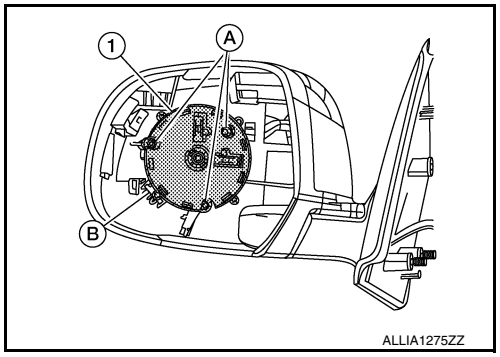
DOOR MIRROR ACTUATOR

Removal and Installation

INFOID:0000000009346228

REMOVAL

1. Remove the door mirror glass. Refer to MIR-24, "GLASS MIRROR : Removal and Installation".
2. Remove the screws (A), disconnect the harness connector (B) and remove the door mirror actuator.



INSTALLATION

Installation is in the reverse order of removal.