

# SECTION **MIR**

## MIRRORS

### CONTENTS

<b>PRECAUTION</b> .....	2	<b>SYMPTOM DIAGNOSIS</b> .....	14	F
<b>PRECAUTIONS</b> .....	2	<b>SQUEAK AND RATTLE TROUBLE DIAG- NOSES</b> .....	14	G
Precaution for Technicians Using Medical Electric.....	2	Work Flow .....	14	
Point to Be Checked Before Starting Maintenance		Generic Squeak and Rattle Troubleshooting .....	15	
Work .....	2	Diagnostic Worksheet .....	18	H
Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TEN- SIONER" .....	2	<b>REMOVAL AND INSTALLATION</b> .....	20	
Precaution for Removing 12V Battery .....	3	<b>INSIDE MIRROR</b> .....	20	I
Precaution for Work .....	3	Exploded View .....	20	
<b>PREPARATION</b> .....	5	Removal and Installation .....	20	
<b>PREPARATION</b> .....	5	<b>DOOR MIRROR</b> .....	22	J
Special Service Tools .....	5	Exploded View .....	22	
Commercial Service Tools .....	5	<b>DOOR MIRROR ASSEMBLY</b> .....	22	K
<b>WIRING DIAGRAM</b> .....	6	DOOR MIRROR ASSEMBLY : Removal and In- stallation .....	22	
<b>DOOR MIRROR</b> .....	6	<b>GLASS MIRROR</b> .....	23	MIR
Wiring Diagram .....	6	GLASS MIRROR : Removal and Installation .....	23	
<b>INSIDE MIRROR</b> .....	9	<b>DOOR MIRROR COVER</b> .....	23	M
Wiring Diagram - With HomeLink Universal Trans- ceiver .....	9	DOOR MIRROR COVER : Removal and Installa- tion .....	23	
Wiring Diagram - Without HomeLink Universal Transceiver .....	11	<b>DOOR MIRROR REMOTE CONTROL SWITCH</b> .....	25	N
<b>DTC/CIRCUIT DIAGNOSIS</b> .....	13	Removal and Installation .....	25	
<b>DOOR MIRROR REMOTE CONTROL SWITCH (MIRROR SWITCH/CHANGEOVER SWITCH)</b> .....	13	<b>DOOR MIRROR ACTUATOR</b> .....	26	O
Component Inspection .....	13	Removal and Installation .....	26	P

# PRECAUTIONS

< PRECAUTION >

## PRECAUTION

### PRECAUTIONS

#### Precaution for Technicians Using Medical Electric

INFOID:0000000010641222

##### 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:0000000010641223

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:0000000010641224

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

# PRECAUTIONS

## < PRECAUTION >

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:0000000011039007

1. Check that EVSE is not connected.

### **NOTE:**

If EVSE is connected, the air conditioning system may be automatically activated by the timer A/C function.

2. Turn the power switch OFF → ON → OFF. Get out of the vehicle. Close all doors (including back door).
3. Check that the charge status indicator lamp does not blink and wait for 5 minutes or more.

### **NOTE:**

If the battery is removed within 5 minutes after the power switch is turned OFF, plural DTCs may be detected.

4. Remove 12V battery within 1 hour after turning the power switch OFF → ON → OFF.

### **NOTE:**

- The 12V battery automatic charge control may start automatically even when the power switch is in OFF state.
- Once the power switch is turned ON → OFF, the 12V battery automatic charge control does not start for approximately 1 hour.

### **CAUTION:**

- After all doors (including back door) are closed, if a door (including back door) is opened before battery terminals are disconnected, start over from Step 1.
- After turning the power switch OFF, if "Remote A/C" is activated by user operation, stop the air conditioner and start over from Step 1.

## Precaution for Work

INFOID:0000000011107753

- When removing or disassembling each component, be careful not to damage or deform it. If a component may be subject to interference, be sure to protect it with a shop cloth.
- When removing (disengaging) components with a screwdriver or similar tool, be sure to wrap the component with a shop cloth or vinyl tape to protect it.
- Protect the removed parts with a shop cloth and prevent them from being dropped.
- Replace a deformed or damaged clip.
- If a part is specified as a non-reusable part, always replace it with a new one.
- Be sure to tighten bolts and nuts securely to the specified torque.
- After installation is complete, be sure to check that each part works properly.
- Follow the steps below to clean components:
  - Water soluble dirt:
- Dip a soft cloth into lukewarm water, wring the water out of the cloth and wipe the dirty area.

## PRECAUTIONS

### < PRECAUTION >

---

- Then rub with a soft, dry cloth.
- Oily dirt:
- Dip a soft cloth into lukewarm water with mild detergent (concentration: within 2 to 3%) and wipe the dirty area.
- Then dip a cloth into fresh water, wring the water out of the cloth and wipe the detergent off.
- Then rub with a soft, dry cloth.
- Do not use organic solvent such as thinner, benzene, alcohol or gasoline.
- For genuine leather seats, use a genuine leather seat cleaner.

# PREPARATION

< PREPARATION >

## PREPARATION

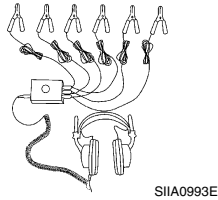
### PREPARATION

#### Special Service Tools

INFOID:0000000010641226

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

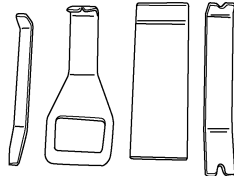
Tool number (TechMate No.) Tool name	Description
(J-39570) Chassis Ear	Locates the noise
(J-50397) NISSAN Squeak and Rattle Kit	Repairs the cause of noise
(J-46534) Trim Tool Set	Removing trim components



SIIA0993E



ALJIA1232ZZ

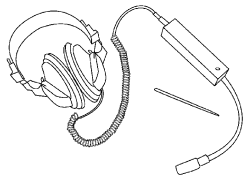


AWJIA0483ZZ

#### Commercial Service Tools

INFOID:0000000010641227

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



SIIA0995E

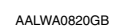


PIIB1407E

## < WIRING DIAGRAM >

## Wiring Diagram

## DOOR MIRROR



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

[illegible]

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

1C	2C	3C	4C	5C	6C	7C	8C	9C	10C	11C	12C	13C	14C	15C
16C7C18C19C20C21C22C23C24C25C26C	86C37C8C39C40C41C42C43C44C45C46C													
27C28C29C30C31C32C33C34C35C	47C48C49C50C51C52C53C54C55C													

Terminal No.	Color of Wire	Signal Name
44A	L	-
45A	LG	-
46A	BR	-

Terminal No.	Color of Wire	Signal Name
13C	B	-
44C	L	-
45C	BR	-
46C	L	-
55C	LG	-

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

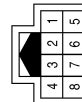


10	9	8	7	6	5	4	3	2	1
20	19	18	17	16	15	14	13	12	11

Terminal No.	Color of Wire	Signal Name
1	L	-
2	L	-



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



Terminal No.	Color of Wire	Signal Name
1	W	-
7	BG	-
8	Y	-

# DOOR MIRROR

## < WIRING DIAGRAM >

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

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



Terminal No.	Color of Wire	Signal Name
1	B	-
7	L	-
10	BG	-
12	BR	-
13	LG	-
14	Y	-
15	L	-
16	W	-

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



--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Terminal No.	Color of Wire	Signal Name
13C	B	-
44C	L	-
45C	BR	-
46C	L	-
55C	LG	-

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



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

Terminal No.	Color of Wire	Signal Name
44A	V	-
45A	W	-
46A	BG	-

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



4	3	2	1
8	7	6	5

Terminal No.	Color of Wire	Signal Name
1	V	-
7	BG	-
8	W	-



INSIDE MIRROR

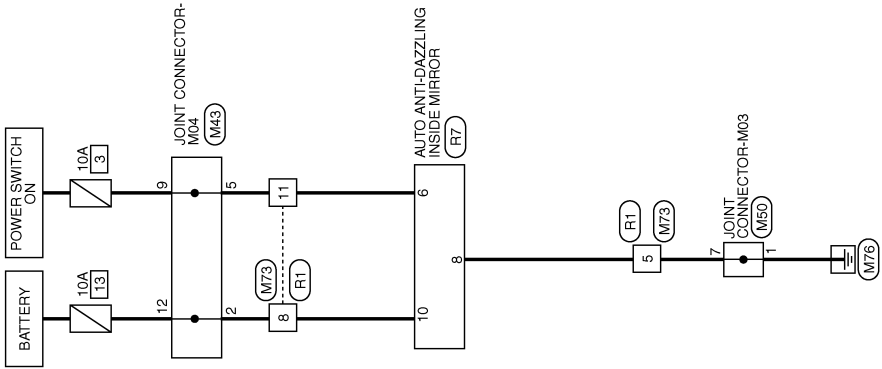
< WIRING DIAGRAM >

INSIDE MIRROR

Wiring Diagram - With HomeLink Universal Transceiver

INFOID:0000000010641229

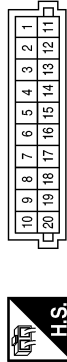
INSIDE MIRROR - WITH HOMELINK UNIVERSAL TRANSCEIVER



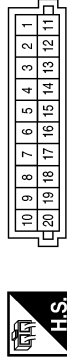
MIR

## INSIDE MIRROR - WITH HOMELINK UNIVERSAL TRANSCEIVER - CONNECTORS

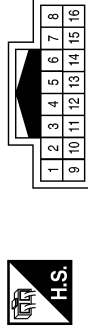
Connector No.	M43
Connector Name	JOINT CONNECTOR-M04
Connector Color	GRAY



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



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

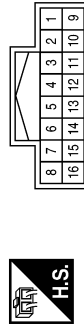


Terminal No.	Color of Wire	Signal Name
2	Y	-
5	W	-
9	W	-
12	Y	-

Terminal No.	Color of Wire	Signal Name
1	B	-
7	B	-

Terminal No.	Color of Wire	Signal Name
5	B	-
8	Y	-
11	W	-

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



Connector No.	R7
Connector Name	AUTO ANTI-DAZZLING INSIDE MIRROR (WITH HOMELINK UNIVERSAL TRANSCEIVER)
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
5	B	-
8	B/Y	-
11	B/R	-

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

AALIA2306GB

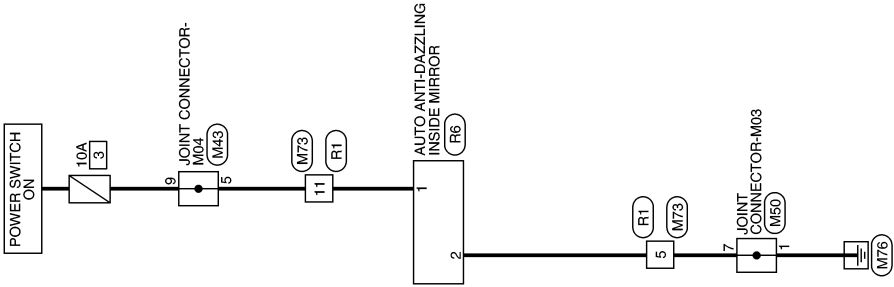
INSIDE MIRROR

< WIRING DIAGRAM >

Wiring Diagram - Without HomeLink Universal Transceiver

INFOID:0000000010641230

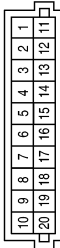
INSIDE MIRROR - WITHOUT HOMELINK UNIVERSAL TRANSCEIVER



MIR

INSIDE MIRROR - WITHOUT HOMELINK UNIVERSAL TRANSCEIVER - CONNECTORS

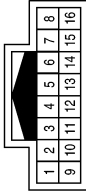
Connector No.	M43
Connector Name	JOINT CONNECTOR-M04
Connector Color	GRAY



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



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

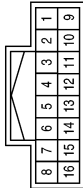


Terminal No.	Color of Wire	Signal Name
5	W	-
9	W	-

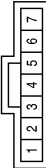
Terminal No.	Color of Wire	Signal Name
1	B	-
7	B	-

Terminal No.	Color of Wire	Signal Name
5	B	-
11	W	-

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



Connector No.	R6
Connector Name	AUTO ANTI-DAZZLING INSIDE MIRROR (WITH HOMELINK UNIVERSAL TRANSCEIVER)
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
5	B	-
11	B/R	-

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

AALIA2307GB

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

< DTC/CIRCUIT DIAGNOSIS >

## DTC/CIRCUIT DIAGNOSIS

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

#### Component Inspection

INFOID:0000000010641231

#### 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		LEFT	
	7	14		UP	
	1	10		DOWN	
	7	16			
	1	10			
	7	10			
	1	16			
RH	7	12	RIGHT	RIGHT	
	1	13		LEFT	
	7	13		UP	
	1	12		DOWN	
	7	15			
	1	12			
	7	12			
	1	15			

Is the inspection result normal?

- YES >> Inspection End.
- NO >> Replace door mirror remote control switch. Refer to [MIR-25, "Removal and Installation"](#).

MIR

# SQUEAK AND RATTLE TROUBLE DIAGNOSES

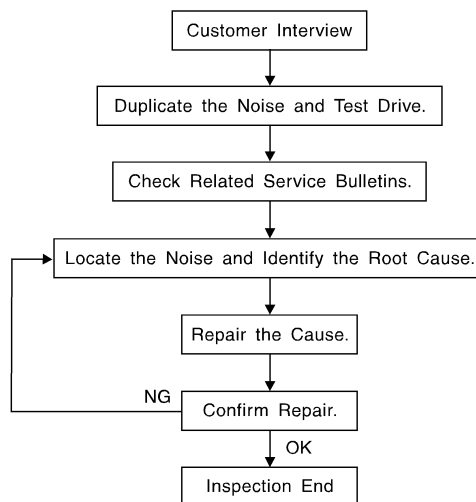
< SYMPTOM DIAGNOSIS >

## SYMPTOM DIAGNOSIS

### SQUEAK AND RATTLE TROUBLE DIAGNOSES

#### Work Flow

INFOID:000000010641232



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-18, "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

# SQUEAK AND RATTLE TROUBLE DIAGNOSES

## < SYMPTOM DIAGNOSIS >

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-15. "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:0000000010641233

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

# SQUEAK AND RATTLE TROUBLE DIAGNOSES

## < SYMPTOM DIAGNOSIS >

---

### 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:



# SQUEAK AND RATTLE TROUBLE DIAGNOSES

## < SYMPTOM DIAGNOSIS >

---

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

A

## 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.

B

Cause of seat noise include:

C

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

D

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.

E

## 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.

F

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

G

H

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.

I

J

K

MIR

M

N

O

P

# SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

## Diagnostic Worksheet

INFOID:000000010641234

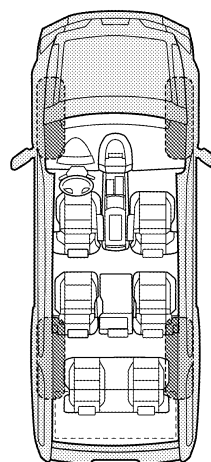
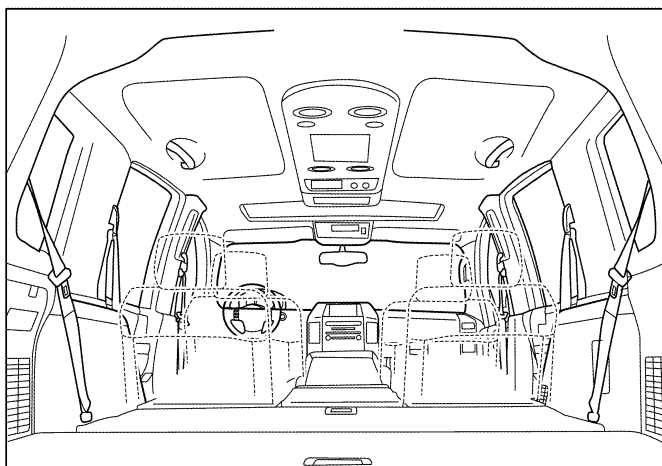
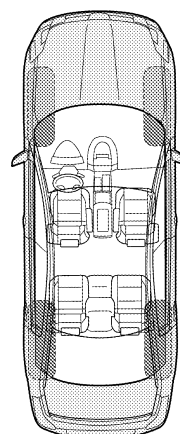
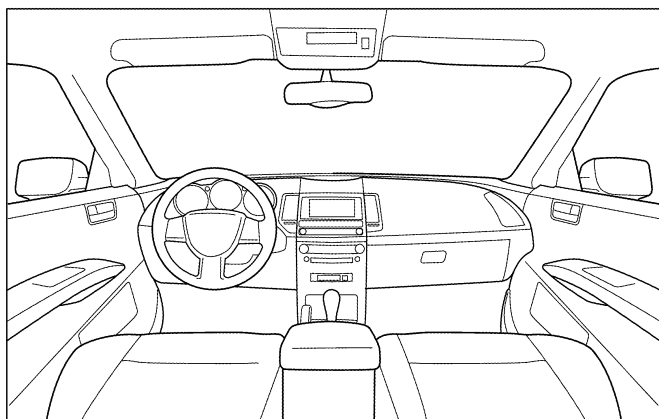
Dear Customer:

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.

# 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)

- |   |  |
|---|--|
| <input type="checkbox"/> Anytime                      | <input type="checkbox"/> After sitting out in the rain |
| <input type="checkbox"/> 1st time in the morning      | <input type="checkbox"/> When it is raining or wet     |
| <input type="checkbox"/> Only when it is cold outside | <input type="checkbox"/> Dry or dusty conditions       |
| <input type="checkbox"/> Only when it is hot outside  | <input type="checkbox"/> 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	<input type="checkbox"/>	<input type="checkbox"/>	_____
- Noise verified on test drive	<input type="checkbox"/>	<input type="checkbox"/>	_____
- Noise source located and repaired	<input type="checkbox"/>	<input type="checkbox"/>	_____
- Follow up test drive performed to confirm repair	<input type="checkbox"/>	<input type="checkbox"/>	_____

VIN: \_\_\_\_\_ Customer Name \_\_\_\_\_  
W.O.# \_\_\_\_\_ Date: \_\_\_\_\_

This form must be attached to Work Order

LAIA0071E

# INSIDE MIRROR

< REMOVAL AND INSTALLATION >

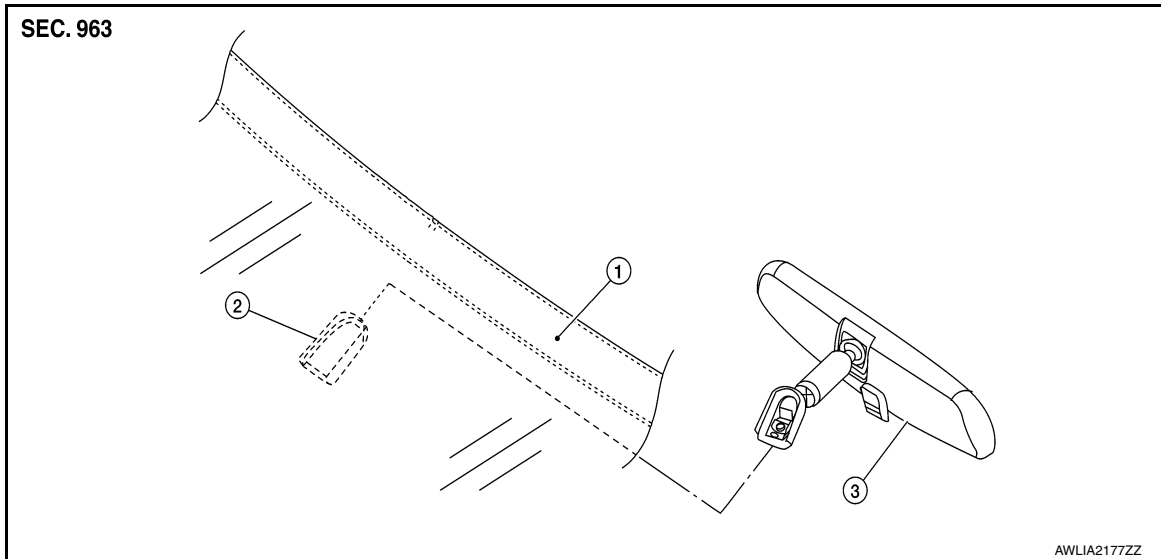
## REMOVAL AND INSTALLATION

### INSIDE MIRROR

Exploded View

INFOID:0000000010641235

#### MANUAL ANTI-DAZZLING

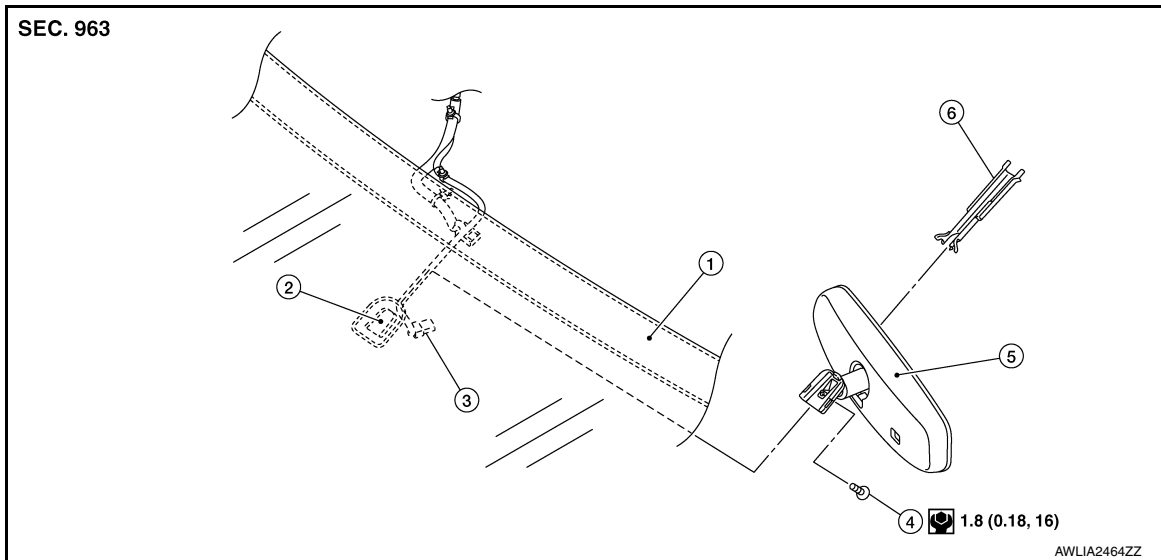


1. Windshield glass

2. Mirror base

3. Inside mirror

#### AUTO ANTI-DAZZLING



1. Windshield glass

2. Mirror base

3. Harness connector

4. Bolt

5. Inside mirror

6. Inside mirror cover

## Removal and Installation

INFOID:0000000010641236

### MANUAL ANTI-DAZZLING

#### Removal

1. Release pawls using a suitable tool and remove the inside mirror cover.
2. Remove the inside mirror base screw.
3. Slide the inside mirror upward and remove.

# INSIDE MIRROR

## < REMOVAL AND INSTALLATION >

---

### Installation

Installation is in the reverse order of removal.

A

### AUTO ANTI-DAZZLING

#### Removal

1. Release pawls using a suitable tool and remove the inside mirror cover.
2. Remove the inside mirror base screw.
3. Disconnect the harness connector from the inside mirror.
4. Slide the inside mirror upward and remove.

B

C

### INSTALLATION

Installation is in the reverse order of removal.

D

E

F

G

H

I

J

K

MIR

M

N

O

P

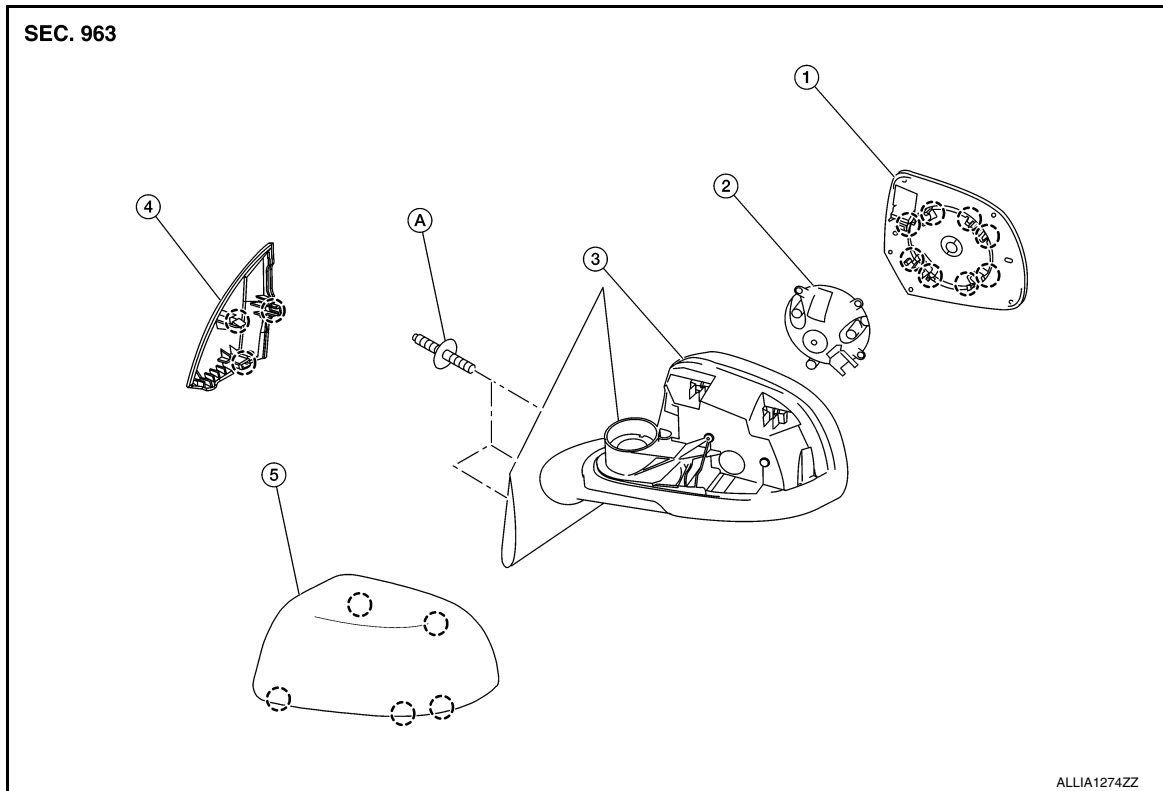
# DOOR MIRROR

< REMOVAL AND INSTALLATION >

## DOOR MIRROR

### Exploded View

INFOID:0000000010641237



- |                             |                         |                         |
|-----------------------------|-------------------------|-------------------------|
| 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

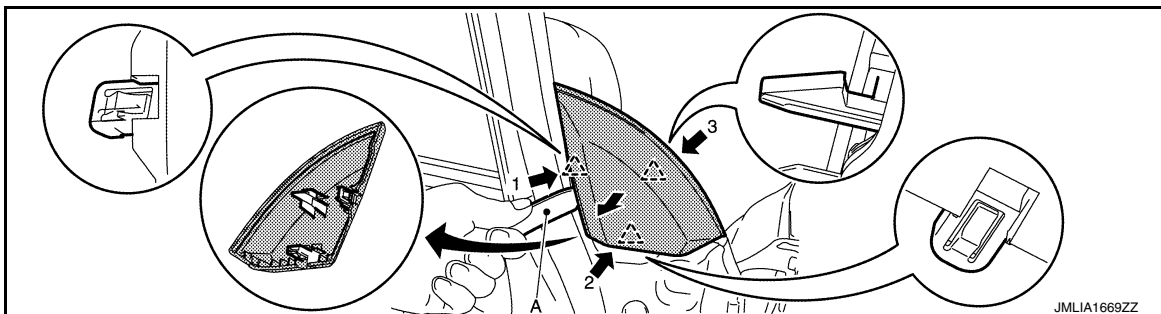
INFOID:0000000010641238

#### 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.



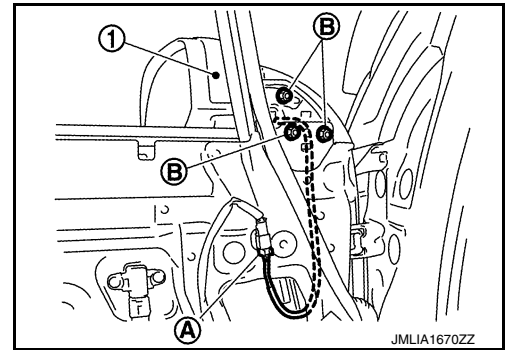
△ : Pawl

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

## DOOR MIRROR

### < REMOVAL AND INSTALLATION >

- b. Remove door mirror corner cover from door panel.
3. Remove partially front door sealing screen.
4. Disconnect door mirror harness connector (A).
5. Remove door mirror mounting nuts (B).
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.

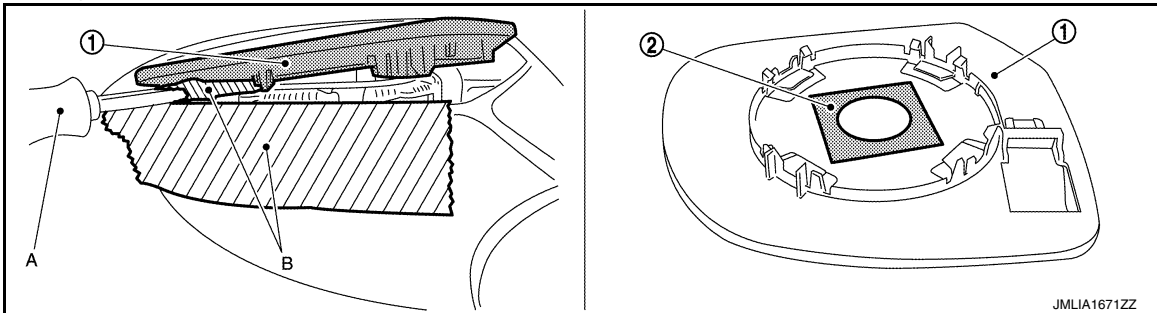
### GLASS MIRROR

#### GLASS MIRROR : Removal and Installation

INFOID:0000000010641239

### REMOVAL

1. Remove glass mirror.



- a. Apply protective tape (B) on mirror body.
- b. Insert a suitable 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 suitable into recesses, and push up while rotating (twisting) to make removal easier.
- c. Remove the glass mirror fixing butyl-tape (2) and remove glass mirror from mirror body.
- d. Disconnect the heater harness connectors.

### INSTALLATION

Installation is 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:0000000010641240

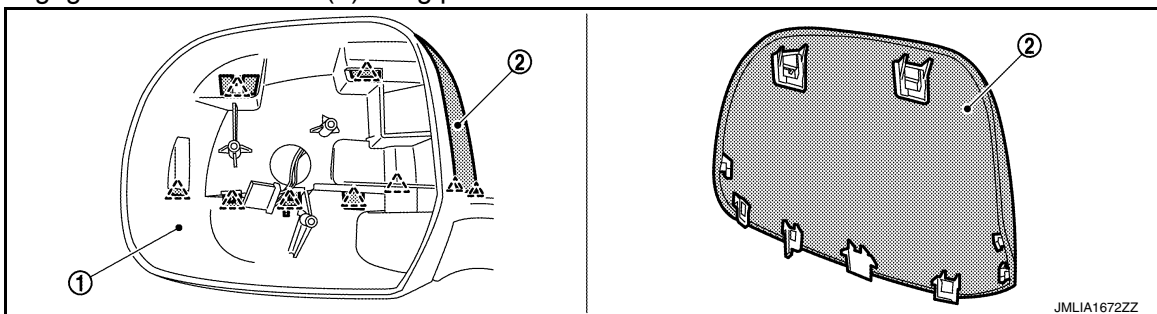
### REMOVAL

1. Remove the glass mirror. Refer to [MIR-23, "GLASS MIRROR : Removal and Installation"](#).
2. Remove door mirror actuator.

## DOOR MIRROR

### < REMOVAL AND INSTALLATION >

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



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 >


## DOOR MIRROR REMOTE CONTROL SWITCH

### Removal and Installation

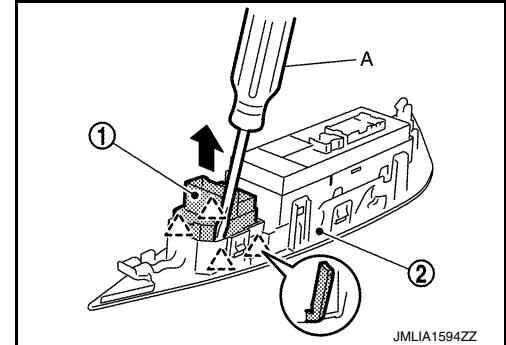
INFOID:000000010641241

#### 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.

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
M  
N  
O  
P

MIR

# DOOR MIRROR ACTUATOR

< REMOVAL AND INSTALLATION >

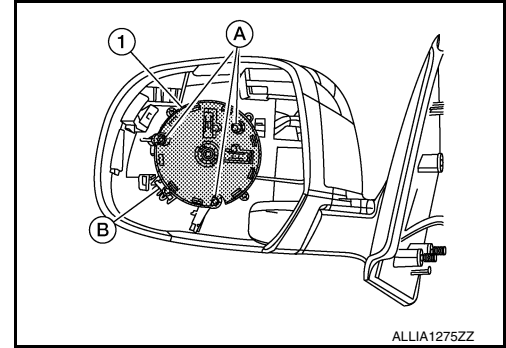
## DOOR MIRROR ACTUATOR

### Removal and Installation

INFOID:000000010641242

#### REMOVAL

1. Remove the door mirror glass. Refer to [MIR-23, "GLASS MIRROR : Removal and Installation"](#).
2. Remove the screws (A), disconnect the harness connector (B) and remove the door mirror actuator (1).



#### INSTALLATION

Installation is in the reverse order of removal.