SECTION MIR
MIRRORS

CONTENTS

PRECAUTION

PRECAUTIONS

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

INFOID:0000000011008285

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. Information necessary to service the system safely is included in the “SRS AIR BAG” and “SEAT BELT” of this Service Manual.

WARNING:

Always observe the following items for preventing accidental activation.

- **To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that 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 “SRS AIR BAG”.**
- **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.**

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

WARNING:

Always observe the following items for preventing accidental activation.

- **When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, never use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.**
- **When using air or electric power tools or hammers, always switch the ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.**

Precaution Necessary for Steering Wheel Rotation After Battery Disconnect

INFOID:0000000011008286

CAUTION:

Comply with the following cautions to prevent any error and malfunction.

- **Before removing and installing any control units, first turn the ignition power source and accessory power source to the OFF, 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 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.**

For vehicle with 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 operation 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. Open driver door.
3. Turn the ignition switch to the ON position.
   (At this time, the steering lock will be released.)
4. Turn the ignition switch to OFF position with driver door open.
5. Wait for 3 minutes or longer with driver door open.
   NOTE:
   - Do not close driver door because the steering wheel locks when driver door is closed.

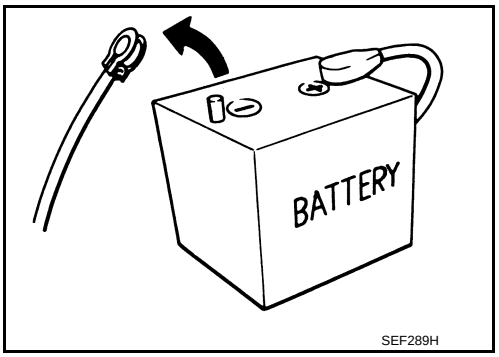
- The auto acc function is adapted to this vehicle. For this reason, even when the ignition switch is turned to OFF position, the accessory power source does not turned OFF and continues to be supplied for a certain amount of time.

6. Disconnect both battery cables. The steering lock will remain released with both battery cables disconnected and the steering wheel can be turned.
7. Perform the necessary repair operation.
8. When the repair work is completed, re-connect both battery cables. With the brake pedal released, turn the ignition switch from OFF position to ON position, then to LOCK position. (The steering wheel will lock when the ignition switch is turned to LOCK position.)
9. Perform self-diagnosis check of all control units using CONSULT.

Precautions for Removing Battery Terminal

INFOID:0000000011009278

- With the adoption of Auto ACC function, ACC power is automatically supplied by operating the intelligent key or remote keyless entry or by opening/closing the driver side door. In addition, ACC power is supplied even after the ignition switch is turned to the OFF position, i.e. ACC power is supplied for a certain fixed time.
- When disconnecting the 12V battery terminal, turn off the ACC power before disconnecting the 12V battery terminal, observing “How to disconnect 12V battery terminal” described below.
  NOTE:
  Some ECUs operate for a certain fixed time even after ignition switch is turned OFF and ignition power supply is stopped. If the battery terminal is disconnected before ECU stops, accidental DTC detection or ECU data damage may occur.
- For vehicles with the 2-batteries, be sure to connect the main battery and the sub battery before turning ON the ignition switch.
  NOTE:
  If the ignition switch is turned ON with any one of the terminals of main battery and sub battery disconnected, then DTC may be detected.
- After installing the 12V battery, always check "Self Diagnosis Result" of all ECUs and erase DTC.
  NOTE:
  The removal of 12V battery may cause a DTC detection error.



HOW TO DISCONNECT 12V BATTERY TERMINAL

Disconnect 12V battery terminal according to Instruction 1 or Instruction 2 described below.
For vehicles parked by ignition switch OFF, refer to Instruction 2.

INSTRUCTION 1

1. Open the hood.
2. Turn key switch to the OFF position with the driver side door opened.
3. Get out of the vehicle and close the driver side door.
4. Wait at least 3 minutes. For vehicle with the engine listed below, remove the battery terminal after a lapse of the specified time.

D4D engine	: 20 minutes
HRA2DDT	: 12 minutes
K9K engine	: 4 minutes
M9R engine	: 4 minutes
R9M engine	: 4 minutes
V9X engine	: 4 minutes

CAUTION:
While waiting, never operate the vehicle such as locking, opening, and closing doors. Violation of this caution results in the activation of ACC power supply according to the Auto ACC function.

5. Remove 12V battery terminal.
   CAUTION:
   After installing 12V battery, always check self-diagnosis results of all ECUs and erase DTC.

INSTRUCTION 2 (FOR VEHICLES PARKED BY IGNITION SWITCH OFF)

1. Unlock the door with intelligent key or remote keyless entry.

NOTE:
At this moment, ACC power is supplied.

2. Open the driver side door.
3. Open the hood.
4. Close the driver side door.
5. Wait at least 3 minutes.
   CAUTION:
   While waiting, never operate the vehicle such as locking, opening, and closing doors. Violation of this caution results in the activation of ACC power supply according to the Auto ACC function.
6. Remove 12V battery terminal.
   CAUTION:
   After installing 12V battery, always check self-diagnosis results of all ECUs and erase DTC.

SYSTEM DESCRIPTION

DOOR MIRROR SYSTEM

Component Description

INFOID:0000000011008288

Component	Function
Door mirror remote control switch	It supplies power to mirror motor through mirror switch and changeover switch.
Door mirror	It operates mirror face from side to side and up and down using the mirror control switch operation.

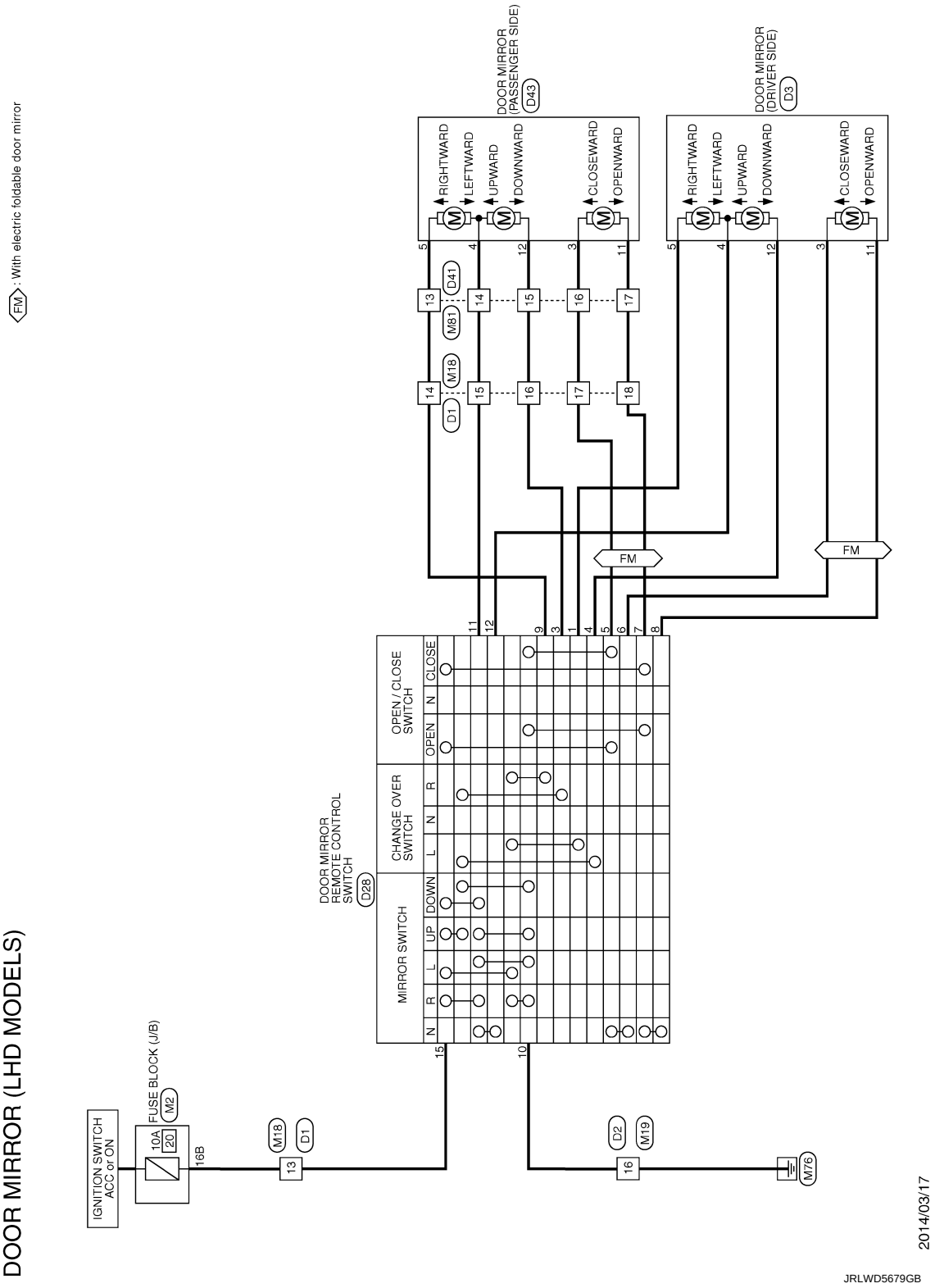
WIRING DIAGRAM

DOOR MIRROR SYSTEM

LHD MODELS

LHD MODELS : Wiring Diagram

INFOID:0000000011008289



DOOR MIRROR (LHD MODELS)

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH

H.S.

12	11	10	9	8	7	6	5	4	3	2	1
24	23	22	21	20	19	18	17	16	15	14	13

Terminal No.	Color Of Wire	Signal Name [Specification]
1	LA/B	-
2	LA/B	-
3	W	-
4	V	-
5	SB	-
6	LG	-
7	GR	-
8	G	-
9	Y	-
10	B	-
11	R	-
13	LA/W	-
14	LA/Y	-
15	LA/LG	-
16	LA/V	-
17	LA/L	-
18	LA/BG	-
19	LA/R	-
22	LA/G	-
23	L	-
24	BG	-

Connector No.	D2
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS

H.S.

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

Terminal No.	Color Of Wire	Signal Name [Specification]
1	LA/V	-
2	R	-
3	LA/G	-
4	B	-
5	B	-
6	LA/L	-
7	LA/BR	-
8	SB	-
9	LA/GR	-
10	LA/SB	-
11	P	-
12	LG	-
13	LA/Y	-
14	LA/W	-
15	LA/R	-
16	B	-

Connector No.	D3
Connector Name	DOOR MIRROR (DRIVER SIDE)
Connector Type	TH16MW-NH

H.S.

8	7		5	4	3	2	
16	15	14		12	11	10	

Terminal No.	Color Of Wire	Signal Name [Specification]
2	LG	-
3	LA/P	-
4	LA/BR	-
5	LA/W	-
7	GR	-
8	G	-
10	B	-
11	LA/SB	-
12	LA/GR	-
14	LA/B	-
15	B	-
16	Y	-

Connector No.	D28
Connector Name	DOOR MIRROR REMOTE CONTROL SWITCH
Connector Type	TH16FB-NH

H.S.

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

Terminal No.	Color Of Wire	Signal Name [Specification]
1	LA/W	-
3	LA/V	-
4	LA/GR	-
5	LA/L	-
6	LA/P	-
7	LA/BG	-
8	LA/SB	-
9	LA/Y	-
10	B	- [For LHD models]
11	LA/LG	- [For RHD models]
11	LA/R	- [For LHD models]
12	LA/BR	- [For RHD models]
12	LA/G	-
13	LA/R	-
14	LA/B	-
15	LA/SB	- [For RHD models]
15	LA/W	- [For LHD models]

Connector No.	D41
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH

H.S.

12	11	10	9	8	7	6	5	4	3	2	1
24	23	22	21	20	19	18	17	16	15	14	13

Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
3	B	-
4	P	-
5	R	-
6	SB	-
7	L	-
8	V	-
9	Y	-
10	B	-
11	G	-
13	LA/Y	-
14	LA/R	-
15	LA/V	-
16	LA/L	-
17	LA/BG	-
18	GR	-
21	LA/G	-

Connector No.	D43
Connector Name	DOOR MIRROR (PASSENGER SIDE)
Connector Type	TH16MW-NH

H.S.

8	7		5	4	3	2	
16	15	14		12	11	10	

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DOOR MIRROR (LHD MODELS)

Terminal No.	Color Of Wire	Signal Name [Specification]
2	GR	-
3	LA/L	-
4	LA/R	-
5	LA/Y	-
7	L	-
8	V	-
10	B	-
11	LA/BG	-
12	LA/V	-
14	LA/B	-
15	B	-
16	Y	-

Connector No. M2
Connector Name FUSE BLOCK (J/B)
Connector Type NS16FBR-CS

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
10B	GR	- [With MR20 engine or R9M engine]
10B	LA/GR	- [With QR25 Engine]
12B	BR	-
14B	W	-
15B	W	-
16B	GR	-
1B	G	-
2B	R	-
3B	V	-
6B	LA/L	-
7B	LA/V	-

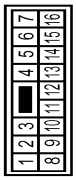
Connector No. M18
Connector Name WIRE TO WIRE
Connector Type TH24MW-NH

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	B	-
3	Y	-
4	V	-
5	BR	-
6	LG	-
7	L	-
8	Y	-
9	G	-
10	SHIELD	-
11	R	-
13	GR	-
14	LA/SB	-
15	LA/GR	-
16	LA/V	-
17	LA/L	-
18	LA/BG	-
19	LA/R	-
22	LA/G	-
23	BG	-
24	SB	-

Connector No. M19
Connector Name WIRE TO WIRE
Connector Type NS16MW-CS

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	R	-
3	G	-
4	B	-
5	B	-
6	Y	-
7	R	-
8	L	-
9	BR	-
10	GR	-
11	Y	-
12	BG	-
13	G	-
14	R	-
15	P	-
16	B	-

5	BR	-
6	SB	-
7	B	-
8	L	-
9	Y	-
10	SHIELD	-
11	G	-
13	LA/SB	-
14	LA/GR	-
15	LA/V	-
16	LA/L	-
17	LA/BG	-
18	GR	-
21	LA/Y	-

Connector No. M81
Connector Name WIRE TO WIRE
Connector Type TH24MW-NH

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
3	GR	- [With SOW]
3	Y	- [Without SOW]
4	V	-

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RHD MODELS

RHD MODELS : Wiring Diagram

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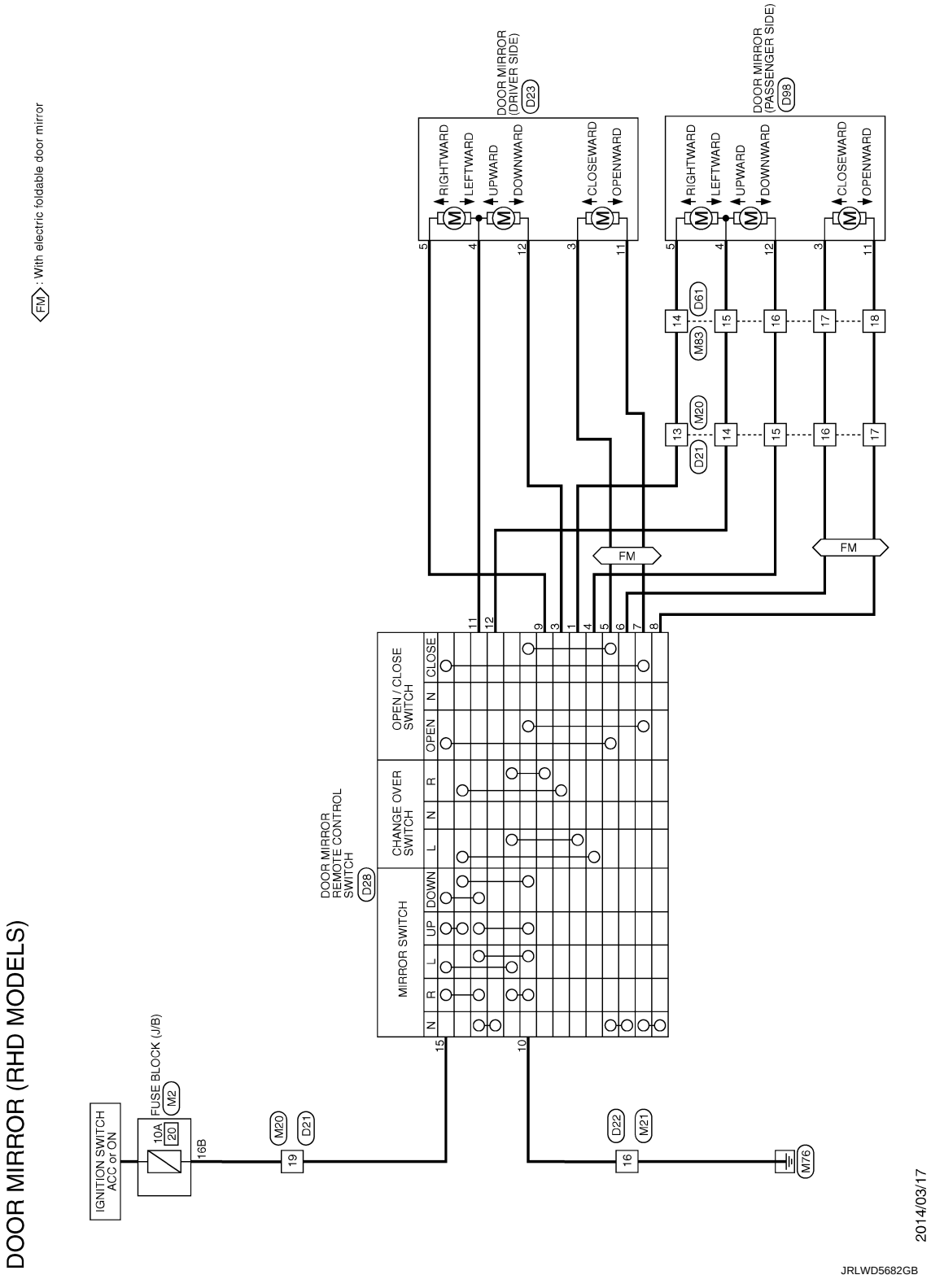

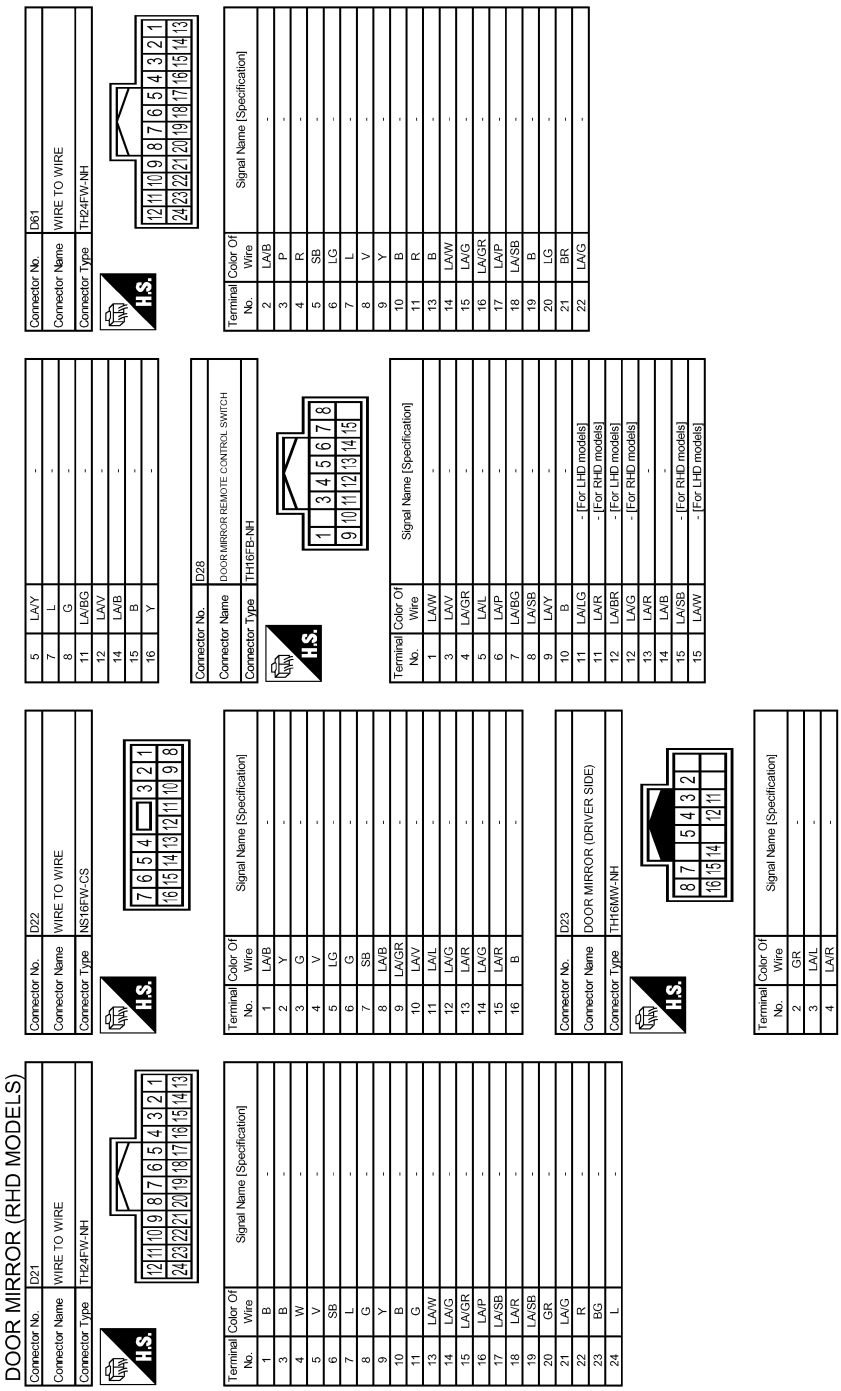

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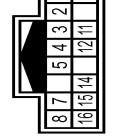
DOOR MIRROR (RHD MODELS)

Connector No.	D98
Connector Name	DOOR MIRROR (PASSENGER SIDE)
Connector Type	TH16MW-NH

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
2	LG	-
3	LA/P	-
4	LA/G	-
5	LA/W	-
7	L	-
8	V	-
11	LA/SB	-
12	LA/GR	-
14	LA/B	-
15	B	-
16	Y	-

Connector No.	M2
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS16FBR-CS

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
10B	GR	- [With MR20 engine or R9M engine]
10B	LA/GR	- [With QR25 Engine]
12B	BR	-
14B	W	-
15B	W	-
16B	GR	-
1B	G	-
2B	R	-
3B	V	-

6B	LA/L	-
7B	LA/V	-

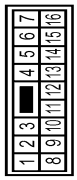
Connector No.	M20
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
3	GR	-
4	Y	-
5	V	-
6	BR	-
7	L	-
8	Y	-
9	G	-
10	SHIELD	-
11	G	-
13	LA/W	-
14	LA/G	-
15	LA/GR	-
16	LA/P	-
17	LA/SB	-
18	LA/R	-
19	GR	-
20	GR	-
21	LA/Y	-
22	R	-
23	SB	-
24	BG	-

Connector No.	M21
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS

H.S.

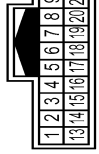


Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	G	-
3	R	-
4	V	-
5	W	-
6	G	-
7	L	-
8	B	-
9	BR	-
10	GR	-
11	Y	-
12	BG	-
13	GR	-
14	W	-
15	P	-
16	B	-

6	LG	-
7	B	-
8	L	-
9	Y	-
10	SHIELD	-
11	R	-
13	B	-
14	LA/W	-
15	LA/G	-
16	LA/GR	-
17	LA/P	-
18	LA/SB	-
19	B	-
20	LG	-
21	BR	-
22	LA/G	-

Connector No.	M83
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
2	B	-
3	W	-
4	P	-
5	SB	-

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AUTO ANTI-DAZZLING INSIDE MIRROR SYSTEM

Wiring Diagram

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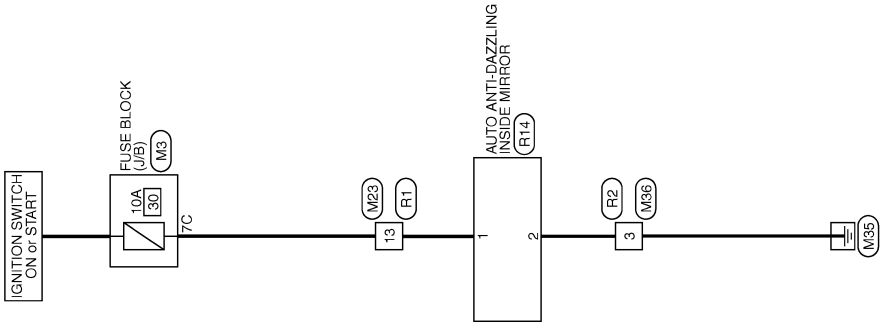

INSIDE MIRROR

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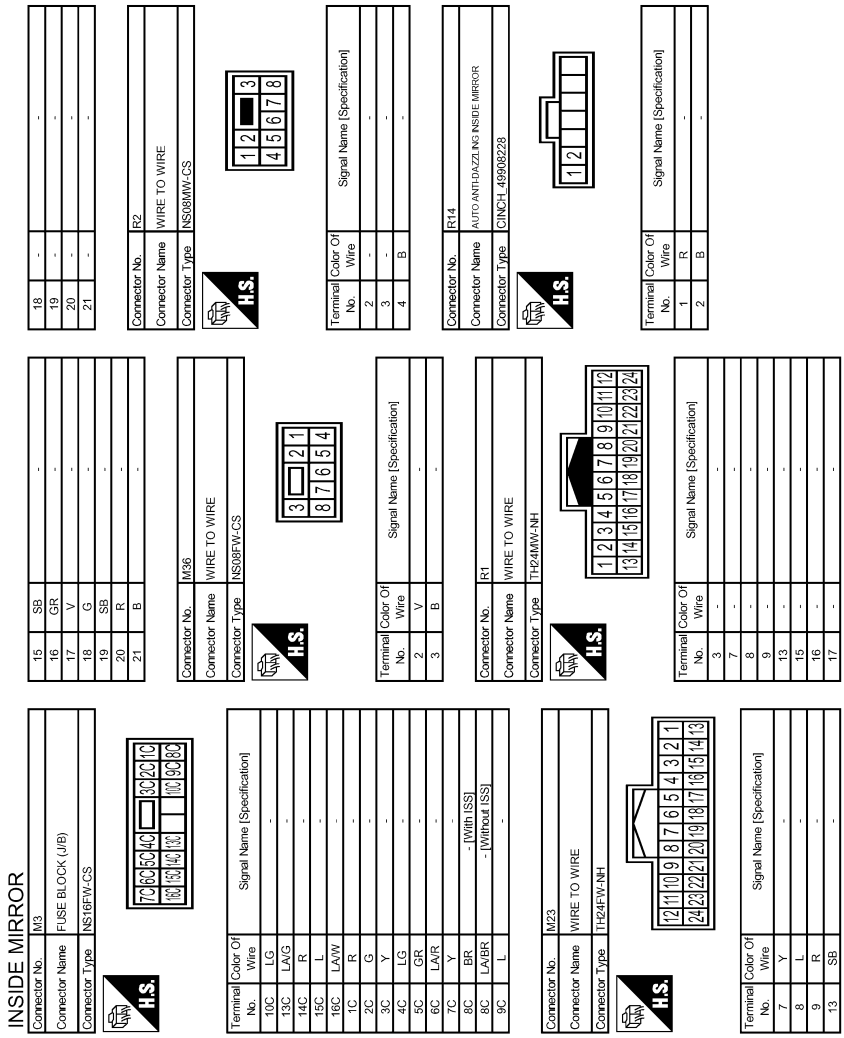

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DTC/CIRCUIT DIAGNOSIS

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

Component Inspection

INFOID:0000000011008292

1.CHECK MIRROR SWITCH & CHANGEOVER SWITCH

1. Turn ignition switch OFF.
2. Disconnect door mirror remote control switch connector.
3. Check door mirror remote control switch.

[LHD models]

Door mirror remote control switch			Condition		Continuity
Terminal			Changeover switch	Mirror switch	
Driver side	15	12	LEFT	RIGHT	Existed
	10	1			
	15	1		LEFT	
	10	12			
	15	4		UP	
	10	12			
	15	12		DOWN	
	10	4			
Passenger side	15	11	RIGHT	RIGHT	
	10	9			
	15	9		LEFT	
	10	11			
	15	3		UP	
	10	11			
	15	11		DOWN	
	10	3			

[RHD models]

Door mirror remote control switch			Condition		Continuity
Terminal			Changeover switch	Mirror switch	
Driver side	15	11	RIGHT	RIGHT	Existed
	10	9			
	15	9		LEFT	
	10	11			
	15	3		UP	
	10	11			
	15	11		DOWN	
	10	3			
Passenger side	15	12	LEFT	RIGHT	
	10	1			
	15	1		LEFT	
	10	12			
	15	4		UP	
	10	12			
	15	12		DOWN	
	10	4			

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace door mirror remote control switch. Refer to MIR-32, "Removal and Installation".

DOOR MIRROR REMOTE CONTROL SWITCH (OPEN/CLOSE SWITCH)

Component Inspection

INFOID:0000000011008293

1.CHECK OPEN/CLOSE SWITCH

1. Turn ignition switch OFF.
2. Disconnect door mirror remote control switch connector.
3. Check door mirror remote control switch.

[LHD models]

Door mirror remote control switch			Condition		Continuity
Terminal					
Driver side	15	6	Open/close switch	OPEN	Existed
	10	8			
	15	8		CLOSE	
	10	6			
Passenger side	15	5		OPEN	
	10	7			
	15	7		CLOSE	
	10	5			

[RHD models]

Door mirror remote control switch			Condition		Continuity
Terminal					
Driver side	15	5	Open/close switch	OPEN	Existed
	10	7			
	15	7		CLOSE	
	10	5			
Passenger side	15	6		OPEN	
	10	8			
	15	8		CLOSE	
	10	6			

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace door mirror remote control switch. Refer to MIR-32, "Removal and Installation".

SYMPTOM DIAGNOSIS

SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow

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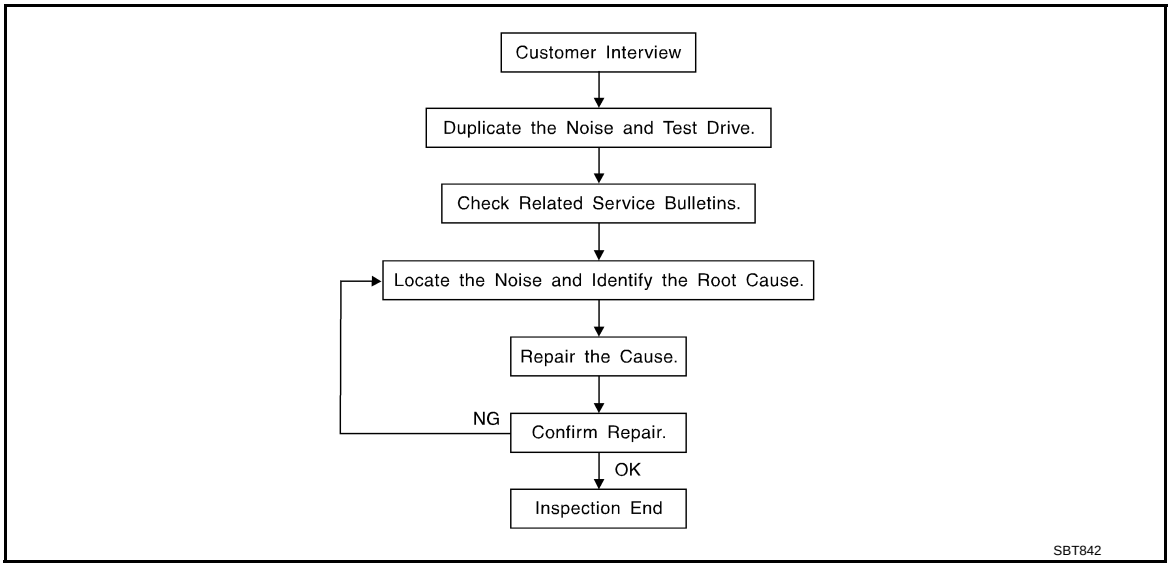


CUSTOMER INTERVIEW

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 MIR-21, "Diagnostic Worksheet". This information is necessary to duplicate the conditions that exist when the noise occurs.

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

DUPLICATE THE NOISE AND TEST DRIVE

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

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

LOCATE THE NOISE AND IDENTIFY THE ROOT CAUSE

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

- Removing the components in the area that 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 MIR-19, "Inspection Procedure".

REPAIR THE CAUSE

- If the cause is a loose component, tighten the component securely.
- If the cause is insufficient clearance between components:
- Separate components by repositioning or loosening and retightening the component, if possible.
- Insulate components with a suitable insulator such as urethane pads, foam blocks, felt cloth tape or urethane tape. These insulators are available through the authorized Nissan Parts Department.

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

- URETHANE PADS
  Insulates connectors, harness, etc.
- INSULATOR (Foam blocks)
  Insulates components from contact. Can be used to fill space behind a panel.
- INSULATOR (Light foam block)
- FELT CLOTHTAPE
  Used to insulate where movement does not occur. Ideal for instrument panel applications.
  The following materials, not available through NISSAN Parts Department, can also be used to repair squeaks and rattles.
- UHMW(TEFLON) TAPE
  Insulates where slight movement is present. Ideal for instrument panel applications.
- SILICONE GREASE
  Used in place of UHMW tape that is be visible or does not fit.
  Note: Will only last a few months.
- SILICONE SPRAY
  Used when grease cannot be applied.
- DUCT TAPE
  Used to eliminate movement.

CONFIRM THE REPAIR

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

Inspection Procedure

INFOID:0000000011008295

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

INSTRUMENT PANEL

Most incidents are caused by contact and movement between:

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

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

CAUTION:

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

CENTER CONSOLE

Components to pay attention to include:

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

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

DOORS

Pay attention to the following:

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

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

TRUNK

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

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

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

SUNROOF/HEADLINING

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

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

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

SEATS

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

Cause of seat noise include:

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

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

UNDERHOOD

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

Causes of transmitted underhood noise include:

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

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

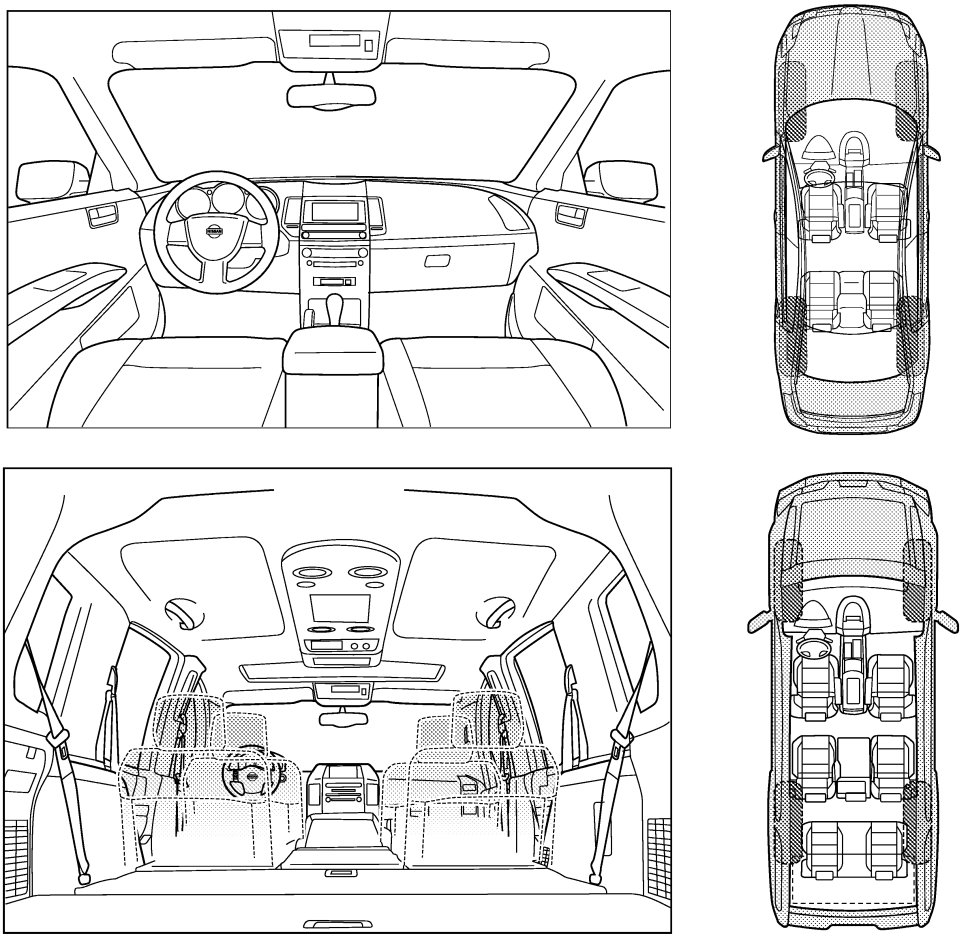
Diagnostic Worksheet

INFOID:0000000011008296

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.

PIIB8740E

SQUEAK & RATTLE DIAGNOSTIC WORKSHEET - page 2

Briefly describe the location where the noise occurs:

_____

_____

II. WHEN DOES IT OCCUR? (please check the boxes that apply)

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

III. WHEN DRIVING:

- ☐ through driveways
- ☐ over rough roads
- ☐ over speed bumps
- ☐ only about ____ mph
- ☐ on acceleration
- ☐ coming to a stop
- ☐ on turns: left, right or either (circle)
- ☐ with passengers or cargo
- ☐ other: _____
- ☐ after driving _____ miles or _____ minutes

IV. WHAT TYPE OF NOISE

- ☐ squeak (like tennis shoes on a clean floor)
- ☐ creak (like walking on an old wooden floor)
- ☐ rattle (like shaking a baby rattle)
- ☐ knock (like a knock at the door)
- ☐ tick (like a clock second hand)
- ☐ thump (heavy, muffled knock noise)
- ☐ buzz (like a bumble bee)

TO BE COMPLETED BY DEALERSHIP PERSONNEL

Test Drive Notes:

_____

_____

_____

	YES	NO	Initials of person performing
Vehicle test driven with customer	☐	☐	_____
- Noise verified on test drive	☐	☐	_____
- Noise source located and repaired	☐	☐	_____
- Follow up test drive performed to confirm repair	☐	☐	_____

VIN: _____ Customer Name: _____

W.O.# _____ Date: _____

This form must be attached to Work Order

PIIB8742E

REMOVAL AND INSTALLATION

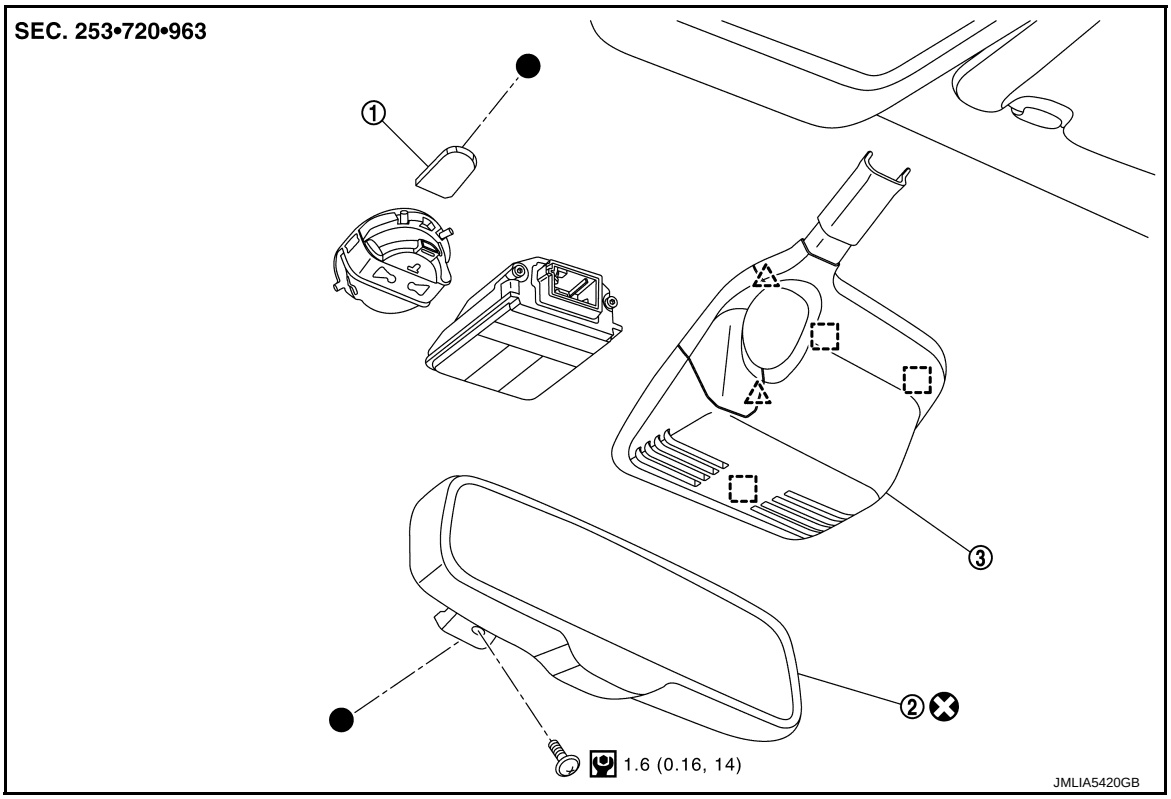
INSIDE MIRROR

Exploded View

INFOID:0000000011008297

AUTO ANTI-DAZZLING

With front camera unit



① Inside mirror base ② Inside mirror assembly ③ Camera/sensor cover

: Pawl

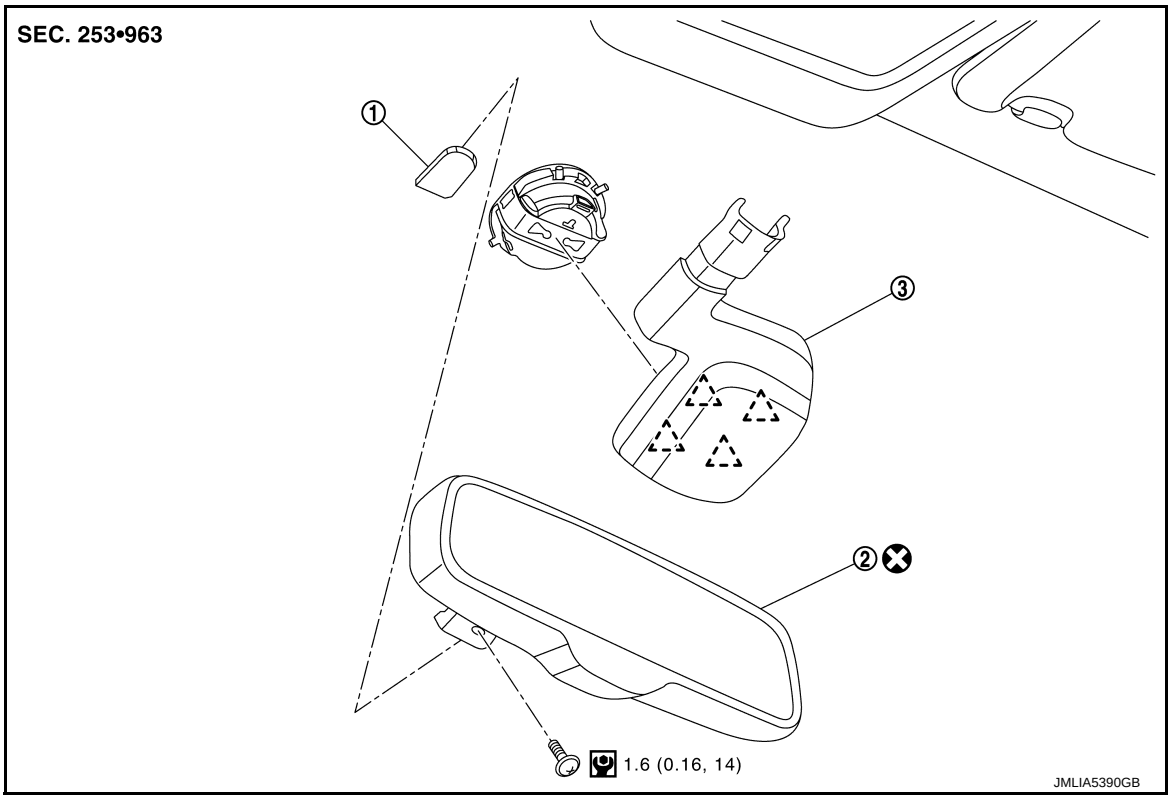
: Metal clip

: Always replace after every disassembly.

: N·m (kg-m, in-lb)

: Indicates that the part is connected at points with same symbol in actual vehicle.

Without front camera unit



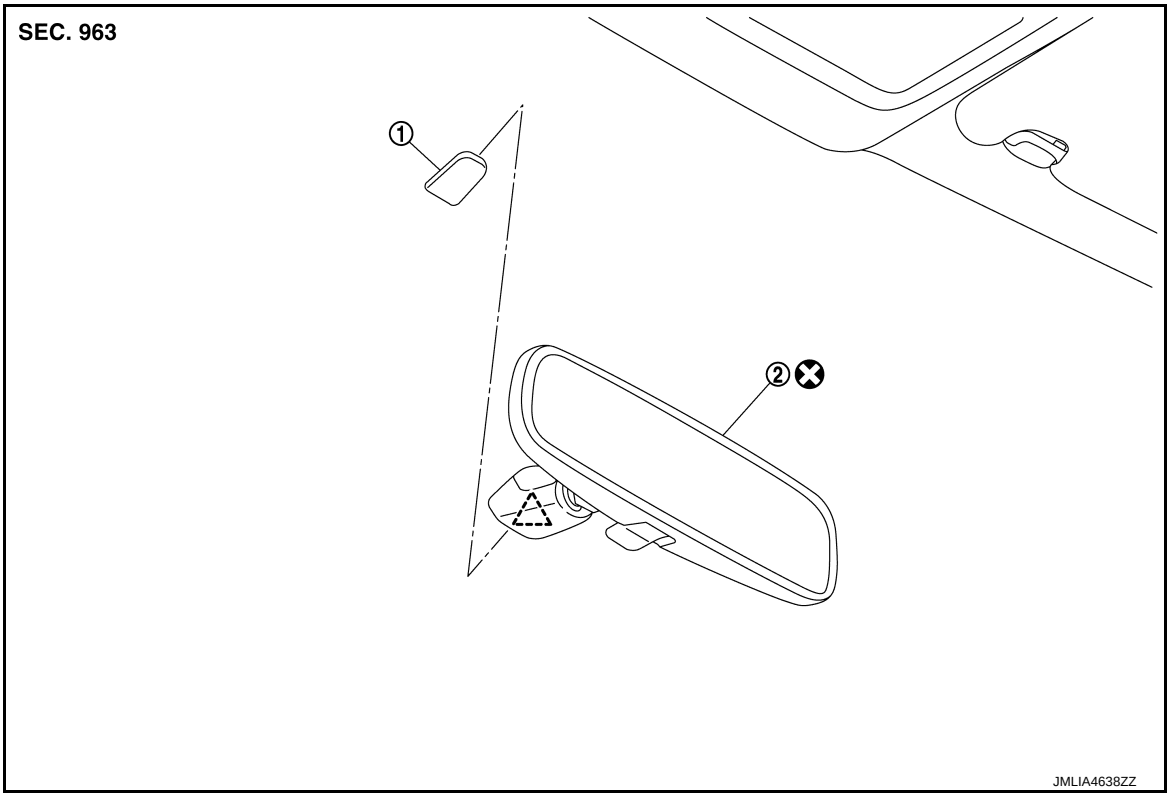
① Inside mirror base ② Inside mirror assembly ③ Rain sensor cover

△ : Pawl

⊗ : Always replace after every disassembly.

: N·m (kg-m, in-lb)

MANUAL ANTI-DAZZLING



① Inside mirror base ② Inside mirror assembly

: Pawl

: Always replace after every disassembly.

Removal and Installation

INFOID:0000000011008298

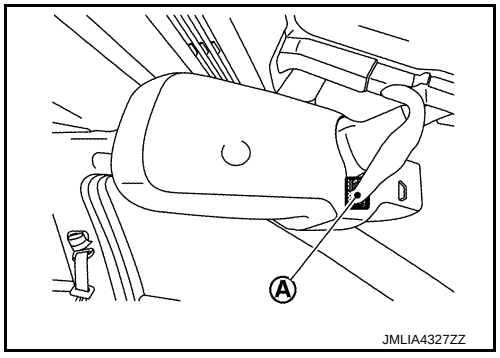
REMOVAL

CAUTION:

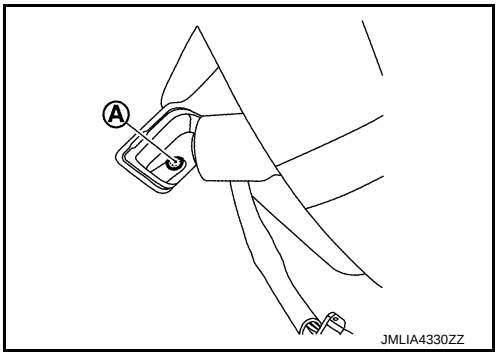
- **Never damage the windshield glass.**
- **Replace inside mirror assembly with a new part after removal. Never reuse inside mirror assembly.**

Auto Anti-Dazzling

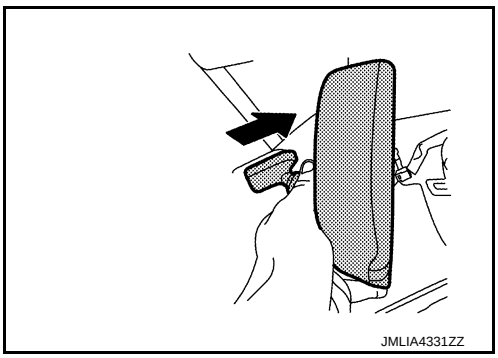
1. Remove Camera/sensor cover (with front camera unit). Refer to DAS-149, "Removal and Installation" or Rain sensor cover (without front camera unit). Refer to WW-109, "Removal and Installation".
2. Disconnect inside mirror harness connector Ⓐ.



3. Remove inside mirror assembly fixing TORX bolt Ⓐ.



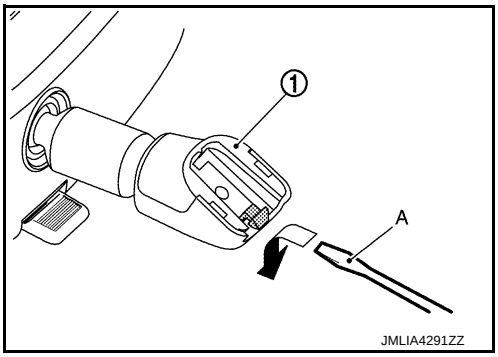
4. Remove inside mirror assembly as shown by the arrow in the figure.
   CAUTION:
   Never use excessive force to remove the inside mirror assembly because it is inserted tightly into the inside mirror base.



Manual Anti-Dazzling

Disengage inside mirror assembly ① fixing pawl using a remover tool (A), and then remove inside mirror assembly.

CAUTION:
- **Use a remover tool wrapped in tape.**
- **Never use excessive force to remove the inside mirror assembly because it is inserted tightly into the inside mirror base.**



INSTALLATION

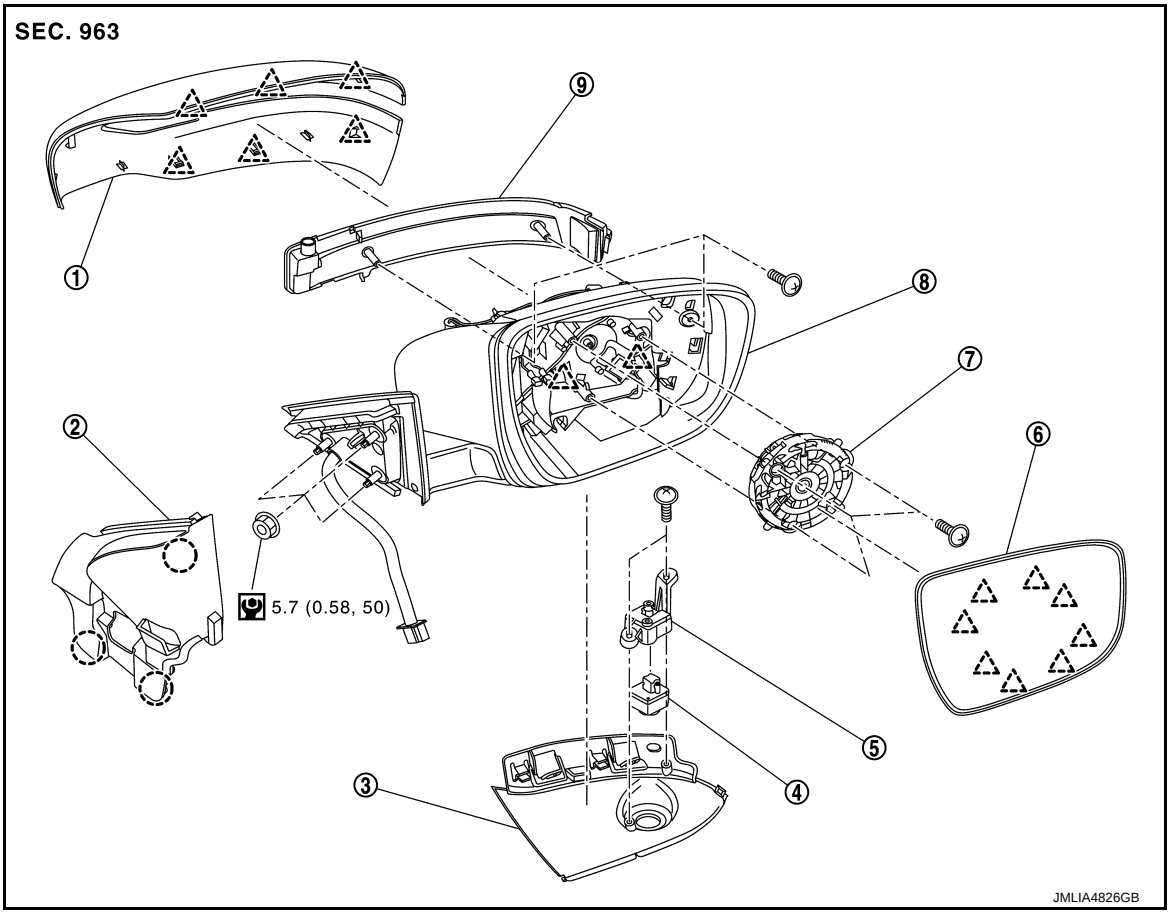
Note the following items, and then install in the reverse order of removal.

CAUTION:
- **Replace inside mirror assembly with a new part after removal. Never reuse inside mirror assembly.**
- **Tighten inside mirror assembly fixing TORX bolt to the specified torque. Refer to MIR-23, "Exploded View".**

DOOR MIRROR

Exploded View

INFOID:0000000011008299



① Door mirror cover	② Door mirror corner cover	③ Door mirror finisher
④ Side camera*	⑤ Side camera bracket*	⑥ Glass mirror
⑦ Door mirror actuator	⑧ Door mirror housing	⑨ Side turn signal lamp

: Clip

: Pawl

: N·m (kg·m, in-lb)

*: With side camera

DOOR MIRROR ASSEMBLY

DOOR MIRROR ASSEMBLY : Removal and Installation

INFOID:0000000011008300

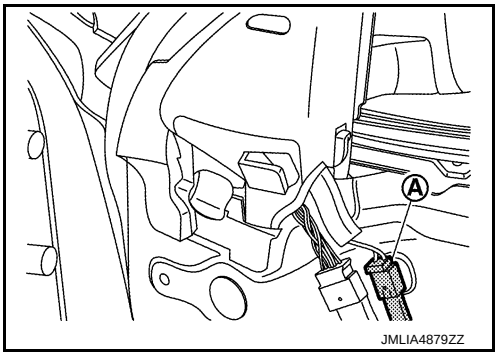
REMOVAL

CAUTION:

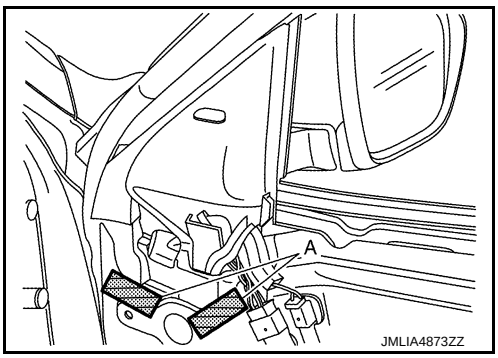
Never damage the body panel.

1. Remove front door finisher. Refer to INT-14, "Removal and Installation".

2. Disconnect BSW indicator harness connector Ⓐ (with BSW indicator).

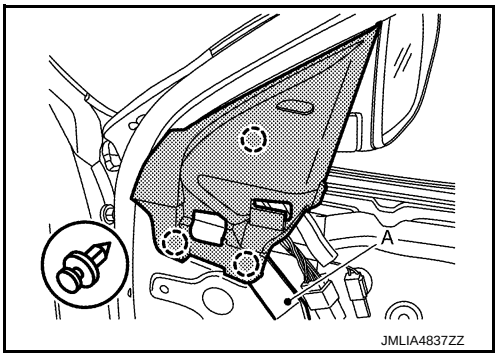


3. Apply protective tapes (A) on front door panel to protect it from damage.

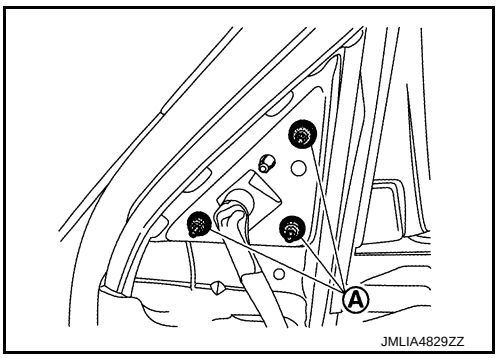


4. Disengage door mirror corner cover fixing clips using a remover tool (A), and then remove door mirror corner cover.

: Clip



5. Disconnect door mirror harness connector.
6. Remove door mirror mounting nuts Ⓐ, and then remove door mirror assembly.



INSTALLATION

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

CAUTION:

- **Visually check clip for deformation and damage during installation. Replace with new ones if necessary.**
- **When installing, check in advance that clips are accurately aligned with the portions on front door panel, and then install by pressing in.**
- **Perform side camera image calibration. Refer to AV-161, "CALIBRATING CAMERA IMAGE (AROUND VIEW MONITOR) : Description".**

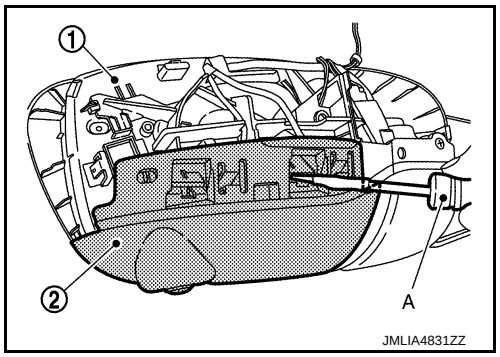
DOOR MIRROR ASSEMBLY : Disassembly and Assembly

INFOID:0000000011008301

DISASSEMBLY

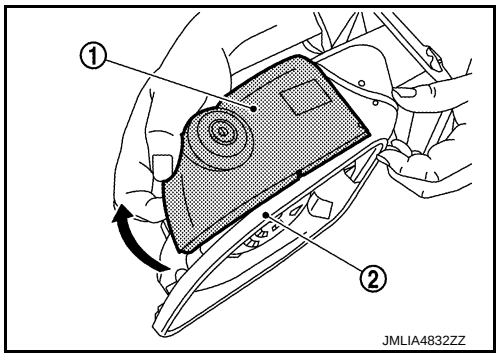
1. Remove door mirror assembly. Refer to MIR-27, "DOOR MIRROR ASSEMBLY : Removal and Installation".
2. Remove glass mirror. Refer to MIR-30, "GLASS MIRROR : Removal and Installation".
3. Remove door mirror cover. Refer to MIR-30, "DOOR MIRROR COVER : Removal and Installation".
4. Remove side turn signal lamp. Refer to the following.
   - LED headlamp: Refer to EXL-198, "Removal and Installation".
   - Halogen headlamp: Refer to EXL-385, "Removal and Installation".
5. Remove door mirror finisher.

a. Disengage door mirror finisher ② fixing pawls using a remover tool (A) from door mirror housing ①.



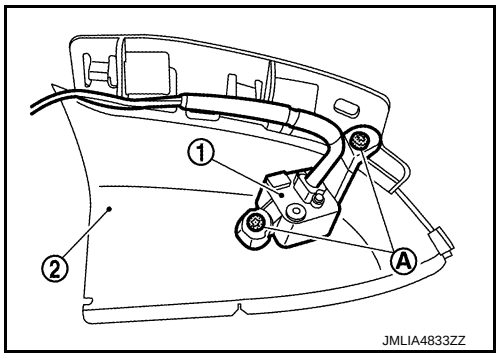
JMLIA4831ZZ

6. Remove door mirror finisher ① from door mirror housing ②.



JMLIA4832ZZ

7. Disconnect side camera harness connector (with side camera).
8. Remove side camera bracket fixing screws Ⓐ, and then remove side camera assembly ① from door mirror finisher ② (with side camera).



JMLIA4833ZZ

ASSEMBLY

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

CAUTION:

Perform side camera image calibration (with side camera). Refer to AV-161, "CALIBRATING CAMERA IMAGE (AROUND VIEW MONITOR) : Description".

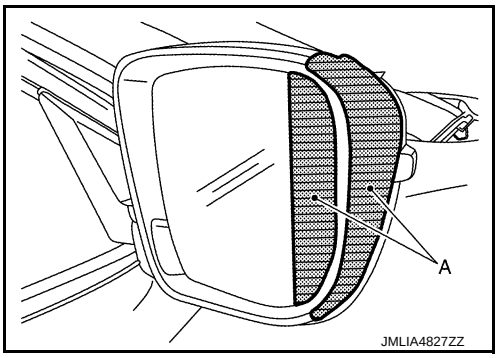
GLASS MIRROR

GLASS MIRROR : Removal and Installation

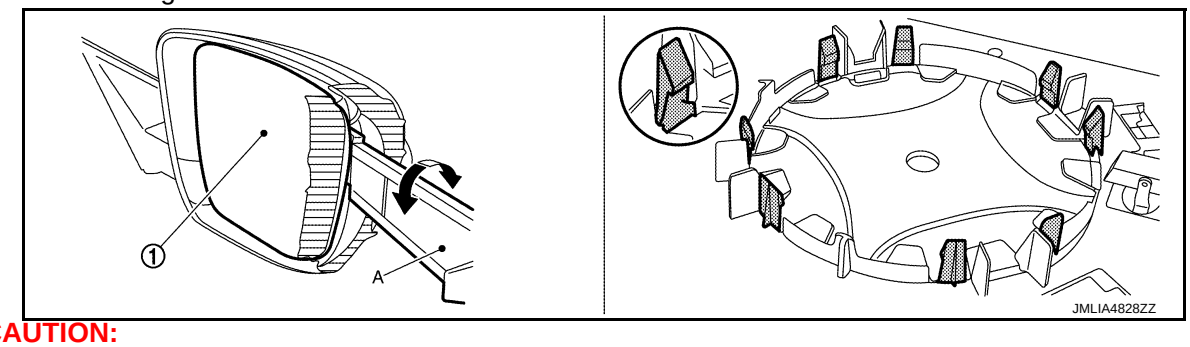
INFOID:0000000011008302

REMOVAL

1. Place glass mirror inward.
2. Apply protective tape (A) on door mirror housing and glass mirror to protect it from damage.

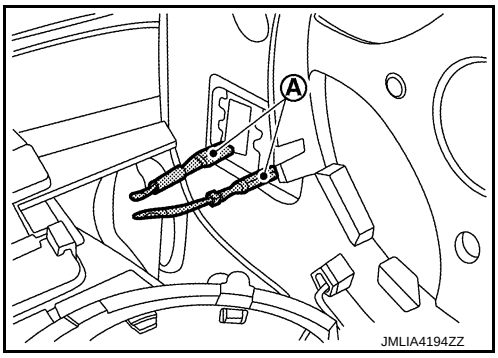


3. Insert remover tool (A) into the recess at outside between glass mirror ① and door mirror actuator, and then disengage the glass mirror fixing pawls by pushing up while rotating (twisting) the remover tool as shown in the figure.



CAUTION:
Remove the pawls slowly so they are not damaged.

4. Disconnect heater mirror terminals Ⓐ (with heater mirror).
CAUTION:
Make a mark (short note, photo, etc.) of terminals layout, before disassembly.



5. Remove glass mirror.

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

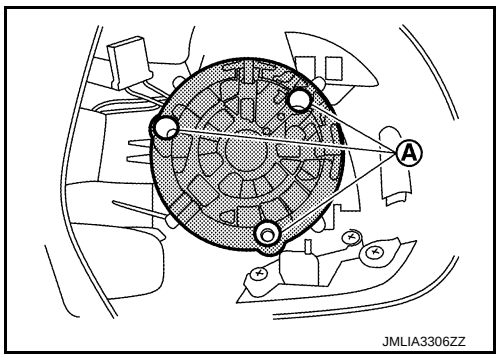
DOOR MIRROR COVER : Removal and Installation

INFOID:0000000011008303

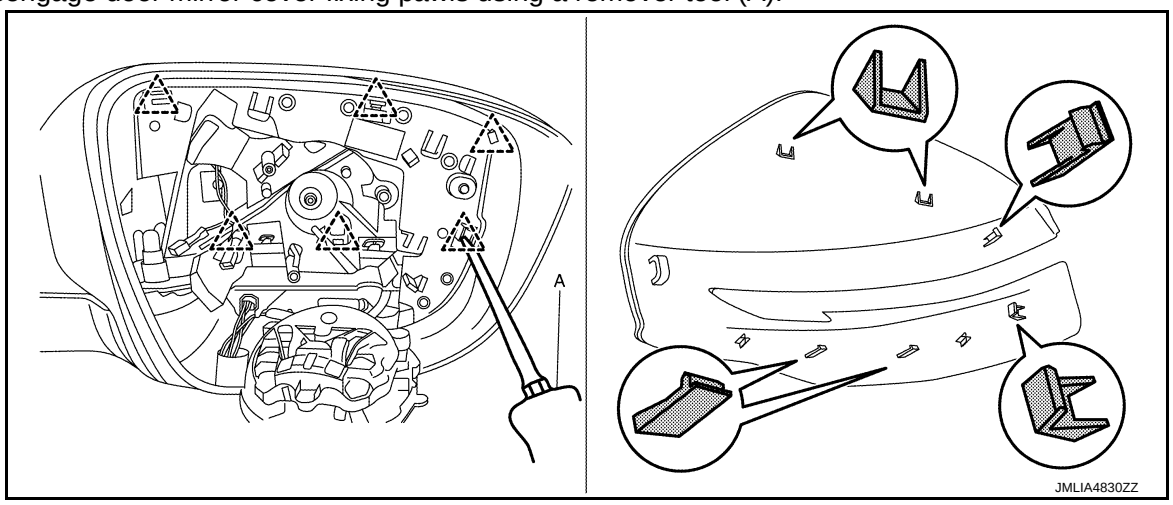
REMOVAL

1. Remove glass mirror. Refer to MIR-30, "GLASS MIRROR : Removal and Installation".

2. Remove door mirror actuator fixing screws Ⓐ and disconnect harness connector, and then remove door mirror actuator.



3. Disengage door mirror cover fixing pawls using a remover tool (A).



: Pawl

4. Remove door mirror cover from door mirror housing.

INSTALLATION

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

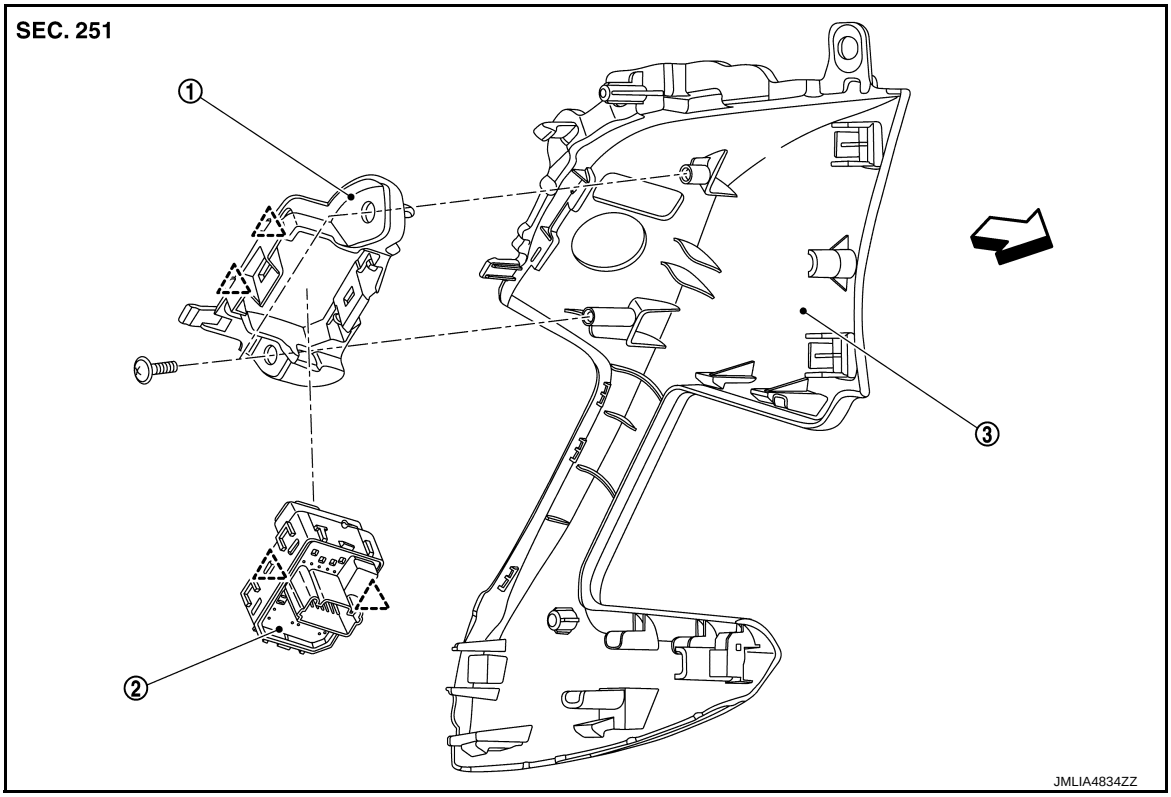
CAUTION:

After installation, visually check that pawls are securely engaged.

DOOR MIRROR REMOTE CONTROL SWITCH

Exploded View

INFOID:0000000011008304



① Front door grip cap bracket ② Door mirror remote control switch ③ Front door grip cap

△ : Pawl

⇦ : Vehicle front

Removal and Installation

INFOID:0000000011008305

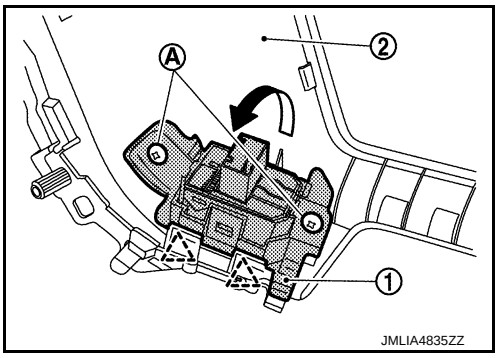
REMOVAL

1. Remove front door grip cap. Refer to INT-14, "Removal and Installation".
2. Remove front door grip cap bracket.

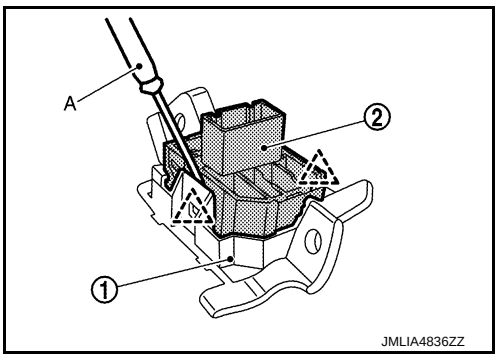
a. Remove front door grip cap bracket fixing screws Ⓐ.

b. Disengage front door grip cap bracket ① fixing pawls, and then remove front door grip cap bracket from front door grip cap ②.

△ : Pawl



3. Disengage door mirror remote control switch ② fixing pawls using a remover tool (A), and then remove door mirror remote control switch from front door grip cap bracket ①.
CAUTION:
Remove the pawls slowly so that they are not damaged.



: Pawl

INSTALLATION

Install in the reverse order of removal.