

SECTION

MIR

MIRRORS

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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

INFOID:000000000951511

DETAILED FLOW

1.OBTAIN INFORMATION ABOUT SYMPTOM

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

>> GO TO 2.

2.REPRODUCE THE MALFUNCTION INFORMATION

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

>> GO TO 3.

3.PERFORM "BASIC INSPECTION"

Perform the basic inspection.Refer to [MIR-36. "Basic Inspection"](#).

>> GO TO 4.

4.IDENTIFY THE MALFUNCTIONING SYSTEM WITH "SYMPTOM DIAGNOSIS"

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

>> GO TO 5.

5.IDENTIFY MALFUNCTIONING PARTS WITH "COMPONENT DIAGNOSIS"

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

>> GO TO 6.

6.REPAIR OR REPLACE THE MALFUNCTIONING PARTS

Repair or replace the specified malfunctioning parts.

>> GO TO 7.

7.FINAL CHECK

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

Is the malfunctioning part repaired or replaced?

YES >> Trouble diagnosis is completed.

NO >> GO TO 3.

DOOR MIRROR SYSTEM

< FUNCTION DIAGNOSIS >

FUNCTION DIAGNOSIS

DOOR MIRROR SYSTEM

Component Description

INFOID:000000000951513

Component	Function
Door mirror remote control switch (mirror switch • change over switch)	It supplies power to mirror motor by operating mirror switch and change over switch.
Door mirror remote control switch (open/close switch)	It supplies power to folding motor by operating open/close switch.
Door mirror motor	It makes mirror face operate from side to side and up and down with the mirror control switch operation.
Folding motor	It makes mirror folding with the mirror control switch operation.

INSIDE MIRROR SYSTEM

< FUNCTION DIAGNOSIS >

INSIDE MIRROR SYSTEM

System Description

INFOID:0000000000951514

It senses the brightness of the headlight of the vehicle from the rear with the sensor integrated into the mirror. It automatically changes the light transmittance according to the sensed brightness of the light from the headlight.

Component Description

INFOID:0000000000951515

Component	Function
Auto anti-dazzling inside mirror	It automatically changes the light transmittance according to the brightness of the light at the headlight of the vehicle from the rear.

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DOOR MIRROR REMOTE CONTROL SWITCH

< COMPONENT DIAGNOSIS >

COMPONENT DIAGNOSIS

DOOR MIRROR REMOTE CONTROL SWITCH

MIRROR SWITCH/CHANGEOVER SWITCH

MIRROR SWITCH/CHANGEOVER SWITCH : Description

INFOID:000000000951517

- Mirror switch and changeover switch is integrated into door mirror remote control switch.
- It supplies electric power to mirror motor by mirror switch and changeover switch.

MIRROR SWITCH/CHANGEOVER SWITCH : Component Function Check

INFOID:000000000951518

1.CHECK DOOR MIRROR REMOTE CONTROL SWITCH(MIRROR SWITCH • CHANGEOVER SWITCH) FUNCTION

Check that door mirror can operate by door mirror remote control switch (mirror switch • changeover switch) operation.

Is the inspection result normal?

YES >> Mirror switch • changeover switch function is OK.

NO >> Refer to [MIR-6. "MIRROR SWITCH/CHANGEOVER SWITCH : Diagnosis Procedure"](#).

MIRROR SWITCH/CHANGEOVER SWITCH : Diagnosis Procedure

INFOID:000000000951518

1.CHECK DOOR MIRROR REMOTE CONTROL SWITCH OUTPUT SIGNAL

1. Turn ignition switch ON.
2. Check voltage between mirror control switch connector and ground.

LHD models

[Door mirror driver side]

Terminals			Mirror switch condition	Voltage (V) (Approx.)
(+)		(-)		
Door mirror remote control switch connector	Terminal			
M7	2	Ground	DOWN / RIGHT	Battery voltage
			Other than above	0
	6		LEFT	Battery voltage
			Other than above	0
	7		UP	Battery voltage
			Other than above	0

[Door mirror passenger side]

Terminals			Mirror switch condition	Voltage (V) (Approx.)
(+)		(-)		
Door mirror remote control switch connector	Terminal			
M7	2	Ground	DOWN / RIGHT	Battery voltage
			Other than above	0
	4		LEFT	Battery voltage
			Other than above	0
	5		UP	Battery voltage
			Other than above	0

RHD models

DOOR MIRROR REMOTE CONTROL SWITCH

< COMPONENT DIAGNOSIS >

[Door mirror driver side]

Terminals			Mirror switch condition	Voltage (V) (Approx.)
(+)		(-)		
Door mirror remote control switch connector	Terminal			
M7	2	Ground	DOWN / RIGHT	Battery voltage
			Other than above	0
	4		LEFT	Battery voltage
			Other than above	0
	5		UP	Battery voltage
			Other than above	0

[Door mirror passenger side]

Terminals			Mirror switch condition	Voltage (V) (Approx.)
(+)		(-)		
Door mirror remote control switch connector	Terminal			
M7	2	Ground	DOWN / RIGHT	Battery voltage
			Other than above	0
	6		LEFT	Battery voltage
			Other than above	0
	7		UP	Battery voltage
			Other than above	0

Is the inspection result normal?

YES >> Door mirror remote control switch is OK.

NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT

- Turn ignition switch ON.
- Check voltage between door remote control switch and ground.

Terminals			Voltage (V) (Approx.)
(+)		(-)	
Door mirror remote control switch connector	Terminal		
M7	3	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK GROUND CIRCUIT

- Turn ignition switch OFF.
- Disconnect door mirror remote control switch connector.
- Check continuity between mirror control switch connector and ground.

Door mirror remote control switch connector	Terminal	Ground	Continuity
M7	1		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK DOOR MIRROR REMOTE CONTROL SWITCH

Check door mirror remote control switch.

DOOR MIRROR REMOTE CONTROL SWITCH

< COMPONENT DIAGNOSIS >

Refer to [MIR-8. "MIRROR SWITCH/CHANGEOVER SWITCH : Component Inspection"](#).

Is the inspection result normal?

YES >> Refer to [GI-39. "Intermittent Incident"](#).

NO >> Replace door mirror remote control switch. Refer to [MIR-41. "Removal and Installation"](#).

MIRROR SWITCH/CHANGEOVER SWITCH : Component Inspection

INFOID:000000000951519

1. CHECK DOOR MIRROR REMOTE CONTROL SWITCH

Check door mirror remote control switch.

LHD models

Power supply

[Door mirror driver side]

Terminal		Mirror switch condition	Continuity
Door mirror remote control switch			
2	3	RIGHT / DOWN	Existed
		Other than above	Not existed
6		LEFT	Existed
		Other than above	Not existed
7		UP	Existed
		Other than above	Not existed

Door mirror passenger side]

Terminal		Mirror switch condition	Continuity
Door mirror remote control switch			
2	3	RIGHT / DOWN	Existed
		Other than above	Not existed
4		LEFT	Existed
		Other than above	Not existed
5		UP	Existed
		Other than above	Not existed

Ground

[Door mirror driver side]

Terminal		Mirror switch condition	Continuity
Door mirror remote control switch			
2	1	LEFT / UP	Existed
		Other than above	Not existed
6		RIGHT	Existed
		Other than above	Not existed
7		DOWN	Existed
		Other than above	Not existed

Door mirror passenger side]

Terminal		Mirror switch condition	Continuity
Door mirror remote control switch			

DOOR MIRROR REMOTE CONTROL SWITCH

< COMPONENT DIAGNOSIS >

2	1	LEFT / UP	Existed
		Other than above	Not existed
4		RIGHT	Existed
		Other than above	Not existed
5		DOWN	Existed
		Other than above	Not existed

RHD models
Power supply

[Door mirror driver side]

Terminal		Mirror switch condition	Continuity
Door mirror remote control switch			
2	3	RIGHT / DOWN	Existed
		Other than above	Not existed
4		LEFT	Existed
		Other than above	Not existed
5		UP	Existed
		Other than above	Not existed

Door mirror passenger side]

Terminal		Mirror switch condition	Continuity
Door mirror remote control switch			
2	3	RIGHT / DOWN	Existed
		Other than above	Not existed
6		LEFT	Existed
		Other than above	Not existed
7		UP	Existed
		Other than above	Not existed

Ground

[Door mirror driver side]

Terminal		Mirror switch condition	Continuity
Door mirror remote control switch			
2	1	LEFT / UP	Existed
		Other than above	Not existed
4		RIGHT	Existed
		Other than above	Not existed
5		DOWN	Existed
		Other than above	Not existed

Door mirror passenger side]

Terminal		Mirror switch condition	Continuity
Door mirror remote control switch			
2	1	LEFT / UP	Existed
		Other than above	Not existed
6		RIGHT	Existed
		Other than above	Not existed
7		DOWN	Existed
		Other than above	Not existed

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DOOR MIRROR REMOTE CONTROL SWITCH

< COMPONENT DIAGNOSIS >

Is the inspection result normal?

YES >> INSPECTION END.

NO >> Replace door mirror remote control switch. Refer to [MIR-41, "Removal and Installation"](#).

OPEN/CLOSE SWITCH

OPEN/CLOSE SWITCH : Description

INFOID:000000000951524

- Open/close switch is interacted into door mirror control switch.
- Power is supplied to folding motor located inside the door mirror to operate the mirror.

OPEN/CLOSE SWITCH : Component Function Check

INFOID:000000000951525

1.CHECK OPEN/CLOSE SWITCH FUNCTION

Check that door mirror can operate by door mirror remote control switch (open/close switch) operation.

Is the inspection result normal?

YES >> Open / close switch function is OK.

NO >> Refer to [MIR-10, "OPEN/CLOSE SWITCH : Diagnosis Procedure"](#)

OPEN/CLOSE SWITCH : Diagnosis Procedure

INFOID:000000000951526

1.CHECK OPEN / CLOSE SWITCH OUTPUT SIGNAL

1. Turn ignition switch ON.
2. Check voltage between door mirror remote control switch and ground.

(+)		(-)	Open / close switch condition	Voltage (V) (Approx.)
Door mirror remote control switch connector	Terminal			
M7	8	Ground	CLOSE	Battery voltage
			Other than above	0
	9		OPEN	Battery voltage
			Other than above	0

Is the inspection result normal?

YES >> Open/close switch function is OK.

NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch ON.
2. Check voltage between door mirror remote control switch and ground.

(+)		(-)	Voltage (V) (Approx.)
Door mirror remote control switch connector	Terminal		
M7	3	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect door mirror remote control switch connector.
3. Check continuity between door mirror remote control switch connector and ground.

Door mirror remote control switch connector	Terminal	Ground	Continuity
M7	1		Existed

Is the inspection result normal?

DOOR MIRROR REMOTE CONTROL SWITCH

< COMPONENT DIAGNOSIS >

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

4.CHECK OPEN/CLOSE SWITCH

Check open/close switch.

Refer to [MIR-11, "OPEN/CLOSE SWITCH : Component Inspection"](#).

Is the inspection result normal?

- YES >> Refer to [GI-39, "Intermittent Incident"](#)
NO >> Replace door mirror remote control switch. Refer to [MIR-41, "Removal and Installation"](#).

OPEN/CLOSE SWITCH : Component Inspection

INFOID:000000000951527

1.CHECK OPEN/CLOSE SWITCH

Check door mirror remote control switch.

Power supply

Terminal		Open/close switch condition	Continuity
Door mirror remote control switch			
8	3	CLOSE	Existed
		Other than above	Not existed
9		OPEN	Existed
		Other than above	Not existed

Ground

Terminal		Open/close switch condition	Continuity
Door mirror remote control switch			
8	1	OPEN	Existed
		Other than above	Not existed
9		CLOSE	Existed
		Other than above	Not existed

Is the inspection result normal?

- YES >> INSPECTION END.
NO >> Replace door mirror remote control switch. Refer to [MIR-41, "Removal and Installation"](#).

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DOOR MIRROR MOTOR

< COMPONENT DIAGNOSIS >

DOOR MIRROR MOTOR

Description

INFOID:000000000951520

It supplies electric power to door mirror motor with mirror switch and changeover switch.

Component Function Check

INFOID:000000000951521

1.CHECK DOOR MIRROR MOTOR FUNCTION

Does motor operate normally during mirror switch operation.

Is the inspection result normal?

- YES >> Door mirror motor function is OK.
NO >> Refer to [MIR-12, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000000951522

1.CHECK DOOR MIRROR MOTOR INPUT SIGNAL

1. Turn ignition switch ON.
2. Check voltage between door mirror connector and ground.

Terminals			Mirror switch Condition	Voltage (V) (Approx.)
(+) (Door mirror connector)		(-) (Ground)		
LHD models D3 (Driver side) / D43 (Passenger side) RHD models D23 (Driver side) / D63 (Passenger side)	2	Ground	LEFT	Battery voltage
			Other than above	0
	3		UP	Battery voltage
			Other than above	0
	4		DOWN / RIGHT	Battery voltage
			Other than above	0

Is the inspection result normal?

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

2.CHECK HARNESS CONTINUITY

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

LHD models

[Door mirror driver side]

Door mirror remote control switch connector	Terminal	Door mirror connector	Terminal	Continuity
M7	2	D3	4	Existed
	6		2	
	7		3	

[Door mirror passenger side]

Door mirror remote control switch connector	Terminal	Door mirror connector	Terminal	Continuity
M7	2	D43	4	Existed
	4		2	
	5		3	

DOOR MIRROR MOTOR

< COMPONENT DIAGNOSIS >

RHD models

[Door mirror driver side]

Door mirror remote control switch connector	Terminal	Door mirror connector	Terminal	Continuity
M7	2	D23	4	Existed
	4		2	
	5		3	

[Door mirror passenger side]

Door mirror remote control switch connector	Terminal	Door mirror connector	Terminal	Continuity
M7	2	D63	4	Existed
	6		2	
	7		3	

4. Check continuity between automatic drive positioner control unit connector and ground.

LHD models

[Door mirror driver side]

Door mirror remote control switch connector	Terminal	Ground	Continuity
M7	2		Not existed
	6		
	7		

[Door mirror passenger side]

Door mirror remote control switch connector	Terminal	Ground	Continuity
M7	2		Not existed
	4		
	5		

RHD models

[Door mirror driver side]

Door mirror remote control switch connector	Terminal	Ground	Continuity
M7	2		Not existed
	4		
	5		

[Door mirror passenger side]

Door mirror remote control switch connector	Terminal	Ground	Continuity
M7	2		Not existed
	6		
	7		

Is the inspection result normal?

YES >> Refer to [GI-39, "Intermittent Incident"](#).

NO >> Repair or replace harness.

3.CHECK DOOR MIRROR MOTOR

Check door mirror motor.

Refer to [MIR-14, "Component Inspection"](#).

Is the inspection result normal?

YES >> Refer to [GI-39, "Intermittent Incident"](#).

DOOR MIRROR MOTOR

< COMPONENT DIAGNOSIS >

NO >> Replace door mirror. Refer to [MIR-39. "Removal and Installation"](#).

Component Inspection

INFOID:000000000951523

1.CHECK DOOR MIRROR MOTOR-I

Check that door mirror motor does not trap foreign objects and does not have any damage.

Refer to [MIR-38. "Exploded View"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace door mirror. Refer to [MIR-39. "Removal and Installation"](#).

2.CHECK DOOR MIRROR MOTOR-II

1. Turn ignition switch OFF.
2. Disconnect door mirror connector.
3. Apply 12V to each power supply terminal of door mirror motor.

Door mirror connector	Terminal		Operational direction
	(+)	(-)	
LHD models D3 (Driver side) / D43 (Passenger side)	4	2	RIGHT
	2	4	LEFT
RHD models D23 (Driver side) / D63 (Passenger side)	3	4	UP
	4	3	DOWN

Is the inspection result normal?

YES >> INSPECTION END.

NO >> Replace door mirror. Refer to [MIR-39. "Removal and Installation"](#).

FOLDING MOTOR

< COMPONENT DIAGNOSIS >

FOLDING MOTOR

Description

INFOID:000000000951528

Power is supplied to the door mirror when pressing on door mirror remote control switch (open/close switch) and door mirror is operated.

Component Function Check

INFOID:000000000951529

1.CHECK FOLDING MOTOR FUNCTION

Check that door mirror operates when open/close switch is pressed.

Is the inspection result normal?

- YES >> Folding motor function is OK.
NO >> Refer to [MIR-15, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000000951530

1.CHECK FOLDING MOTOR INPUT SIGNAL

1. Turn ignition switch ON.
2. Check voltage between door mirror connector and ground.

(+)		(−)	Open / close switch condition	Voltage (V) (Approx.)
Door mirror connector	Terminal			
LHD models D3 (Driver side) / D43 (Passenger side) RHD models D23 (Driver side) / D63 (Passenger side)	5	Ground	CLOSE	Battery voltage
			Other than above	0
	6		OPEN	Battery voltage
			Other than above	0

Is the inspection result normal?

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

2.CHECK HARNESS CONTINUITY

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

Door mirror remote control switch connector	Terminal	Door mirror connector	Terminal	Continuity
M7	8	LHD models D3 (Driver side) / D43 (Passenger side) RHD models D23 (Driver side) / D63 (Passenger side)	5	Existed
	9		6	

4. Check continuity between door mirror remote control switch connector and ground.

Door mirror remote control switch connector	Terminal	Ground	Continuity
M7	8		Not existed
	9		

Is the inspection result normal?

- YES >> Refer to [GI-39, "Intermittent Incident"](#).
NO >> Repair or replace harness.

3.CHECK FOLDING MOTOR

Check folding motor.

Refer to [MIR-16, "Component Inspection"](#)

Is the inspection result normal?

- YES >> Refer to [GI-39, "Intermittent Incident"](#).

FOLDING MOTOR

< COMPONENT DIAGNOSIS >

NO >> Replace door mirror. Refer to [MIR-39. "Removal and Installation"](#).

Component Inspection

INFOID:000000000951531

1.CHECK FOLDING MOTOR-I

Check that folding motor does not trap foreign objects and does not have any damage.

Refer to [MIR-38. "Exploded View"](#)

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace door mirror. Refer to [MIR-39. "Removal and Installation"](#).

2.CHECK FOLDING MOTOR-II

1. Turn ignition switch OFF.
2. Disconnect door mirror connector.
3. Apply 12V to each power supply terminal of door mirror motor.

Door mirror connector	Terminal		Open/close switch condition
	(+)	(-)	
LHD models D3 (Driver side) / D43 (Passenger side)	5	6	CLOSE
RHD models D23 (Driver side) / D63 (Passenger side)	6	5	OPEN

Is the inspection result normal?

YES >> INSPECTION END.

NO >> Replace door mirror. Refer to [MIR-39. "Removal and Installation"](#).

AUTO ANTI-DAZZLING INSIDE MIRROR CIRCUIT

< COMPONENT DIAGNOSIS >

AUTO ANTI-DAZZLING INSIDE MIRROR CIRCUIT

Description

INFOID:000000000951532

It automatically changes according to the brightness of the light that is reflected from the headlight of the vehicle at the rear.

Component Function Check

INFOID:000000000951533

1.CHECK AUTO ANTI-DAZZLING INSIDE MIRROR FUNCTION

Check that auto anti-dazzling inside mirror can operate when mirror sensor is illuminated.

Is the inspection result normal?

YES >> Auto anti-dazzling inside mirror function is OK.

NO >> Refer to [MIR-17, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000000951534

1.CHECK POWER SUPPLY CIRCUIT

Check voltage between auto anti-dazzling inside mirror connector and ground.

(+)		(-)	Condition of ignition switch	Voltage (V) (Approx.)
Auto anti-dazzling inside mirror connector	Terminal	Ground		
R6	1		ACC or ON	Battery voltage

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

2.CHECK GROUND CIRCUIT

1. Disconnect auto anti-dazzling inside mirror connector.
2. Check continuity between auto anti-dazzling inside mirror connector and ground.

Auto anti-dazzling inside mirror connector	Terminal	Ground	Continuity
R6	2		Existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to [GI-39, "Intermittent Incident"](#).

Is the inspection result normal?

YES >> Replace auto anti-dazzling inside mirror. Refer to [MIR-37, "Removal and Installation"](#).

NO >> Repair or replace the malfunctioning parts.

DOOR MIRROR

< COMPONENT DIAGNOSIS >

DOOR MIRROR (LHD MODELS)

Connector No.	D43
Connector Name	DOOR MIRROR (PASSENGER SIDE)
Connector Type	TK08MGY



1	2	3	4	5	6	7	8
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Connector No.	D41
Connector Name	WIRE TO WIRE
Connector Type	TK18FW



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

Connector No.	D3
Connector Name	DOOR MIRROR (DRIVER SIDE)
Connector Type	TK08MGY



1	2	3	4	5	6	7	8
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Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Type	TK18FW



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	L	-
2	LG	-
3	W	-
4	O	-
5	SB	-
6	SB	-

Terminal No.	Color of Wire	Signal Name [Specification]
3	O	-
4	SB	-
5	L	-
6	W	-
7	LG	-

Terminal No.	Color of Wire	Signal Name [Specification]
2	V	-
3	P	-
4	SB	-
5	W	-
6	O	-
7	SB	-

Terminal No.	Color of Wire	Signal Name [Specification]
3	O	-
4	SB	-
5	V	-
6	W	-
7	P	-

Connector No.	N81
Connector Name	WIRE TO WIRE
Connector Type	TK18BMW



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

Connector No.	M18
Connector Name	WIRE TO WIRE
Connector Type	TK18MW



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

Connector No.	M7
Connector Name	DOOR MIRROR REMOTE CONTROL SWITCH
Connector Type	NS10FW-GS



4	5		6	7
1	8	2	10	3
			9	

Terminal No.	Color of Wire	Signal Name [Specification]
3	O	-
4	SB	-
5	L	-
6	W	-
7	LG	-

Terminal No.	Color of Wire	Signal Name [Specification]
3	O	-
4	SB	-
5	V	-
6	W	-
7	P	-

Terminal No.	Color of Wire	Signal Name [Specification]
1	B	-
2	W	-
3	R	-
4	L	-
5	LG	-
6	V	-
7	P	-
8	O	-
9	SB	-

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DOOR MIRROR (RHD MODELS)



JCLWA0329GB

DOOR MIRROR

< COMPONENT DIAGNOSIS >

DOOR MIRROR (RHD MODELS)

Connector No.	D63
Connector Name	DOOR MIRROR (PASSENGER SIDE)
Connector Type	TK08MGY



Connector No.	D61
Connector Name	WIRE TO WIRE
Connector Type	TK18FW



Connector No.	D23
Connector Name	DOOR MIRROR (DRIVER SIDE)
Connector Type	TK08MGY



Connector No.	D21
Connector Name	WIRE TO WIRE
Connector Type	TK18FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
2	P	-
3	W	-
4	O	-
5	SB	-
6	SB	-

Terminal No.	Color of Wire	Signal Name [Specification]
3	O	-
4	SB	-
5	V	-
6	W	-
7	P	-

Terminal No.	Color of Wire	Signal Name [Specification]
2	L	-
3	IG	-
4	W	-
5	O	-
6	SB	-

Terminal No.	Color of Wire	Signal Name [Specification]
3	O	-
4	SB	-
5	L	-
6	W	-
7	LG	-

Connector No.	M83
Connector Name	WIRE TO WIRE
Connector Type	TK18BMW



Connector No.	M82
Connector Name	WIRE TO WIRE
Connector Type	TK18BMW



Connector No.	M7
Connector Name	DOOR MIRROR REMOTE CONTROL SWITCH
Connector Type	NS10FW-GS



Terminal No.	Color of Wire	Signal Name [Specification]
3	O	-
4	SB	-
5	V	-
6	W	-
7	P	-

Terminal No.	Color of Wire	Signal Name [Specification]
3	O	-
4	SB	-
5	L	-
6	W	-
7	LG	-

Terminal No.	Color of Wire	Signal Name [Specification]
1	B	-
2	W	-
3	R	-
4	L	-
5	LG	-
6	V	-
7	P	-
8	O	-
9	SB	-

JCLWA0330GB

AUTO ANTI-DAZZLING INSIDE MIRROR SYSTEM

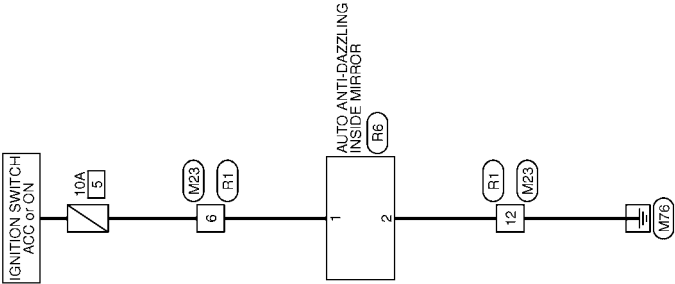
< COMPONENT DIAGNOSIS >

AUTO ANTI-DAZZLING INSIDE MIRROR SYSTEM

Wiring Diagram - INSIDE MIRROR SYSTEM -

INFOID:000000000951536

INSIDE MIRROR



2006/12/06

JCLWA0331GB

AUTO ANTI-DAZZLING INSIDE MIRROR SYSTEM

< COMPONENT DIAGNOSIS >

INSIDE MIRROR

Connector No.

IM23

Connector Name

WIRE TO WIRE

Connector Type

TK10FW-NSS



Terminal No.	Color of Wire	Signal Name [Specification]
6	B	-
12	B	-

Connector No.

RI

Connector Name

WIRE TO WIRE

Connector Type

TK10MW-NSS



Terminal No.	Color of Wire	Signal Name [Specification]
6	B	-
12	B	-

Connector No.

RB

Connector Name

AUTO ANTI-DAZZLING INSIDE MIRROR

Connector Type

CJNGH-6908223



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

NONE OF THE DOOR MIRROR CAN BE OPERATED USING ANY SWITCH

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

NONE OF THE DOOR MIRROR CAN BE OPERATED USING ANY SWITCH

Diagnosis Procedure

INFOID:000000000951537

1. CHECK DOOR MIRROR REMOTE CONTROL SWITCH (MIRROR SWITCH • CHANGEOVER SWITCH)

Check door mirror remote control switch (mirror switch • changeover switch).

Refer to [MIR-6, "MIRROR SWITCH/CHANGEOVER SWITCH : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CHECK DOOR MIRROR REMOTE CONTROL SWITCH (OPEN/CLOSE SWITCH)

Check door mirror remote control switch (open/close switch).

Refer to [MIR-10, "OPEN/CLOSE SWITCH : Component Function Check"](#).

Is the inspection result normal?

YES >> Refer to [GI-39, "Intermittent Incident"](#).

NO >> Repair or replace the malfunctioning parts.

DOOR MIRROR DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

DOOR MIRROR DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000000951538

1.CHECK DOOR MIRROR REMOTE CONTROL SWITCH (MIRROR SWITCH • CHANGEOVER SWITCH)

Check door mirror remote control switch (mirror switch • changeover switch).

Refer to [MIR-6, "MIRROR SWITCH/CHANGEOVER SWITCH : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK DOOR MIRROR MOTOR

Check the door mirror motor operation.

Refer to [MIR-12, "Component Function Check"](#).

Is the inspection result normal?

YES >> Refer to [GI-39, "Intermittent Incident"](#).

NO >> Repair or replace the malfunctioning parts.

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ELECTRIC FOLDABLE DOOR MIRROR DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

ELECTRIC FOLDABLE DOOR MIRROR DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000000951539

1.CHECK DOOR MIRROR CONTROL SWITCH (OPEN / CLOSE SWITCH)

Check door mirror control switch (open / close switch).

Refer to [MIR-10, "OPEN/CLOSE SWITCH : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK FOLDING MOTOR

Check folding motor.

Refer to [MIR-15, "Component Function Check"](#).

Is the inspection result normal?

YES >> Refer to [GI-39, "Intermittent Incident"](#).

NO >> Repair or replace the malfunctioning parts.

AUTO ANTI-DAZZLING INSIDE MIRROR DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

AUTO ANTI-DAZZLING INSIDE MIRROR DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000000951540

1.CHECK AUTO ANTI-DAZZLING INSIDE MIRROR

Check auto anti-dazzling inside mirror.

Refer to [MIR-17, "Component Function Check"](#).

Is the inspection result normal?

YES >> Refer to [GI-39, "Intermittent Incident"](#).

NO >> Repair or replace the malfunctioning parts.

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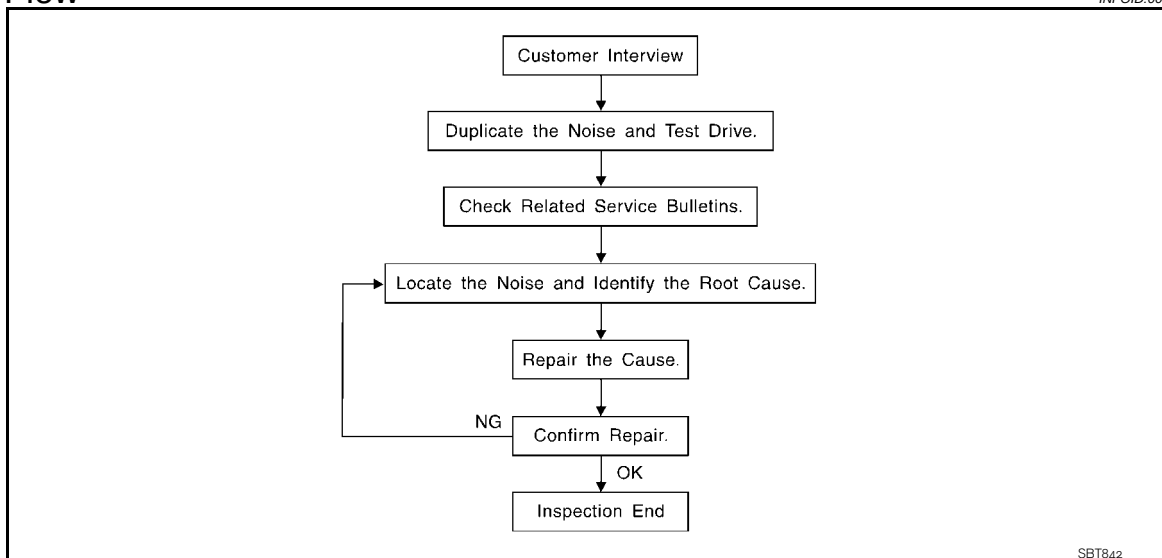
P

SQUEAK AND RATTLE TROUBLE DIAGNOSIS

< SYMPTOM DIAGNOSIS >

SQUEAK AND RATTLE TROUBLE DIAGNOSIS

Work Flow



CUSTOMER INTERVIEW

Interview the customer if possible, to determine the conditions that exist when the noise occurs. Use the Diagnostic Worksheet during the interview to document the facts and conditions when the noise occurs and any of the customer's comments; refer to [INT-6, "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 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.

SQUEAK AND RATTLE TROUBLE DIAGNOSIS

< SYMPTOM DIAGNOSIS >

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

- 1) Close a door.
 - 2) Tap or push/pull around the area where the noise appears to be coming from.
 - 3) Rev the engine.
 - 4) Use a floor jack to recreate vehicle "twist".
 - 5) At idle, apply engine load (electrical load, half-clutch on M/T model, drive position on A/T model).
 - 6) Raise the vehicle on a hoist and hit a tire with a rubber hammer.
- Drive the vehicle and attempt to duplicate the conditions the customer states exist when the noise occurs.
 - If it is difficult to duplicate the noise, drive the vehicle slowly on an undulating or rough road to stress the vehicle body.

CHECK RELATED SERVICE BULLETINS

After verifying the customer concern or symptom, check ASIST for Technical Service Bulletins (TSB) 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 (Engine Ear or mechanics stethoscope).
 2. Narrow down the noise to a more specific area and identify the cause of the noise by:
 - removing the components in the area that you suspect the noise is coming from.
Do not use too much force when removing clips and fasteners, otherwise clips and fastener can be broken or lost during the repair, resulting in the creation of new noise.
 - tapping or pushing/pulling the component that you suspect 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-30, "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 are 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:

- 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 CLOTH TAPE
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 will be visible or not fit.
Note: Will only last a few months.
- SILICONE SPRAY
Use when grease cannot be applied.
- DUCT TAPE
Use to eliminate movement.

CONFIRM THE REPAIR

SQUEAK AND RATTLE TROUBLE DIAGNOSIS

< SYMPTOM DIAGNOSIS >

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:000000001115256

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:

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. 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:

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 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 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

SQUEAK AND RATTLE TROUBLE DIAGNOSIS

< SYMPTOM DIAGNOSIS >

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 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. 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.

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SQUEAK AND RATTLE TROUBLE DIAGNOSIS

< SYMPTOM DIAGNOSIS >

Diagnostic Worksheet

INFOID:000000001115257



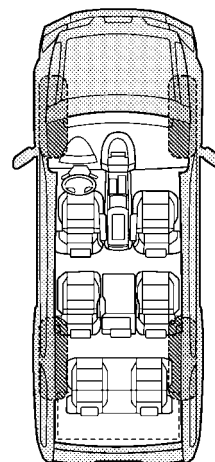
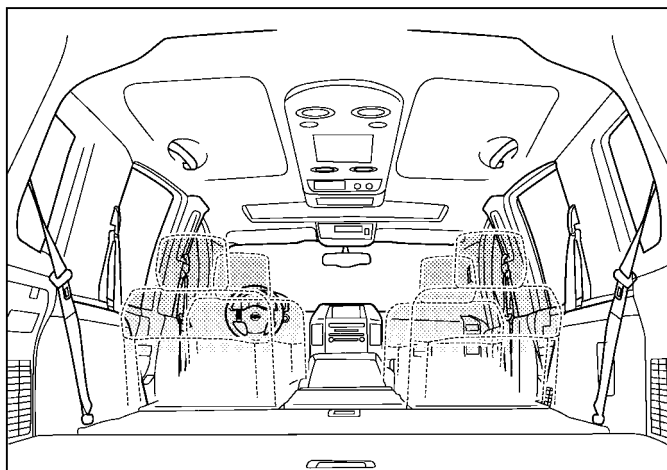
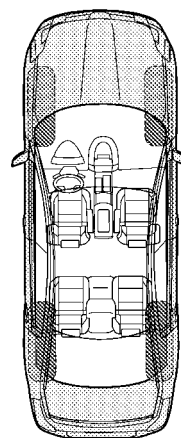
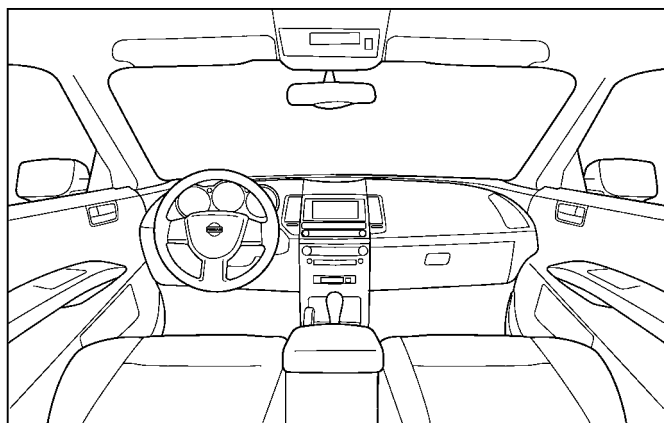
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

Dear Nissan Customer:

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

I. WHERE DOES THE NOISE COME FROM? (circle the area of the vehicle)

The illustrations are for reference only, and may not reflect the actual configuration of your vehicle.



Continue to page 2 of the worksheet and briefly describe the location of the noise or rattle. In addition, please indicate the conditions which are present when the noise occurs.

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SQUEAK AND RATTLE TROUBLE DIAGNOSIS

< SYMPTOM DIAGNOSIS >

SQUEAK & RATTLE DIAGNOSTIC WORKSHEET - page 2

Briefly describe the location where the noise occurs:

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

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

III. WHEN DRIVING:

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

IV. WHAT TYPE OF NOISE

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

TO BE COMPLETED BY DEALERSHIP PERSONNEL

Test Drive Notes:

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

VIN: _____ Customer Name: _____
W.O.# _____ Date: _____

This form must be attached to Work Order

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PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

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

INFOID:000000000951544

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

PREPARATION

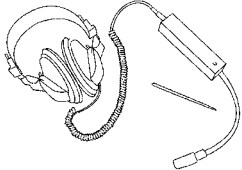
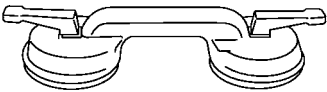
< PREPARATION >

PREPARATION

PREPARATION

Commercial Service Tools

INFOID:0000000000951545

Tool name	Description
Engine ear  SIA0995E	Locating the noise
Suction lifter  P11B1805J	Holding the door glass

PRE-INSPECTION FOR DIAGNOSTIC

< ON-VEHICLE MAINTENANCE >

ON-VEHICLE MAINTENANCE

PRE-INSPECTION FOR DIAGNOSTIC

Basic Inspection

INFOID:000000000977987

BASIC INSPECTION

1.INSPECTION START

1. Check the service history.
2. Check the following parts.
 - Fuse/circuit breaker blown.
 - Poor connection, open or short circuit of harness connector.
 - Battery voltage.

Is the inspection result normal?

- YES >> Inspection end.
NO >> Repair or replace the malfunctioning parts.

INSIDE MIRROR

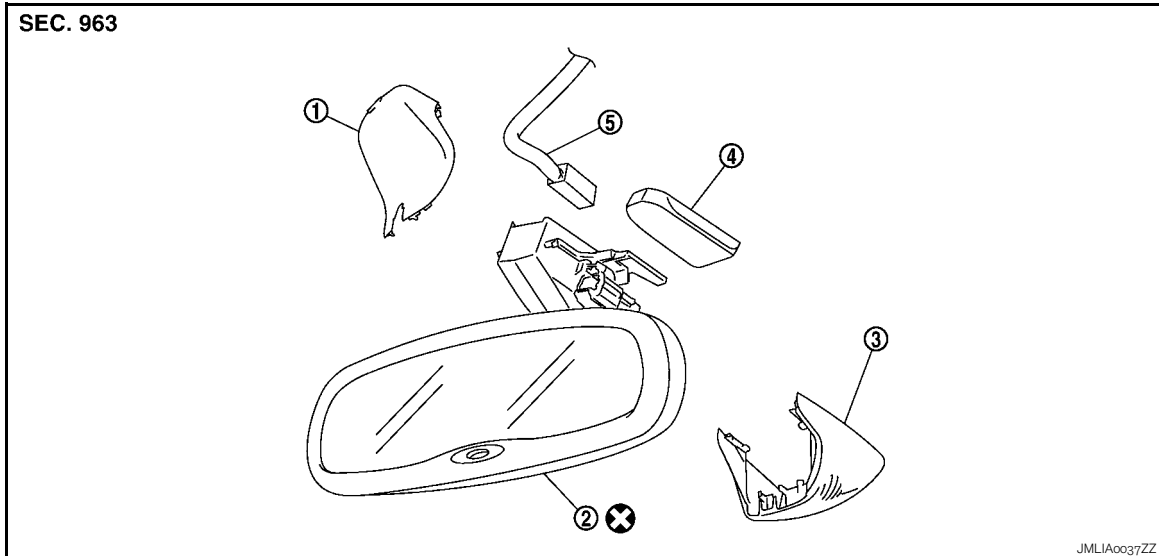
< ON-VEHICLE REPAIR >

ON-VEHICLE REPAIR

INSIDE MIRROR

Exploded View

INFOID:000000001093107



- | | | |
|--------------------------------|------------------|--------------------------------|
| 1. Inside mirror cover (upper) | 2. Inside mirror | 3. Inside mirror cover (lower) |
| 4. Mirror base | 5. Connector | |

Refer to [GI-4, "Components"](#) for symbols in the figure.

Removal and Installation

INFOID:000000001093108

REMOVAL

1. Remove the inside mirror finisher (upper and lower).
2. Slide the mirror upward to remove.
3. Disconnect the connector.

INSTALLATION

Install in the reverse order of removal.

DOOR MIRROR

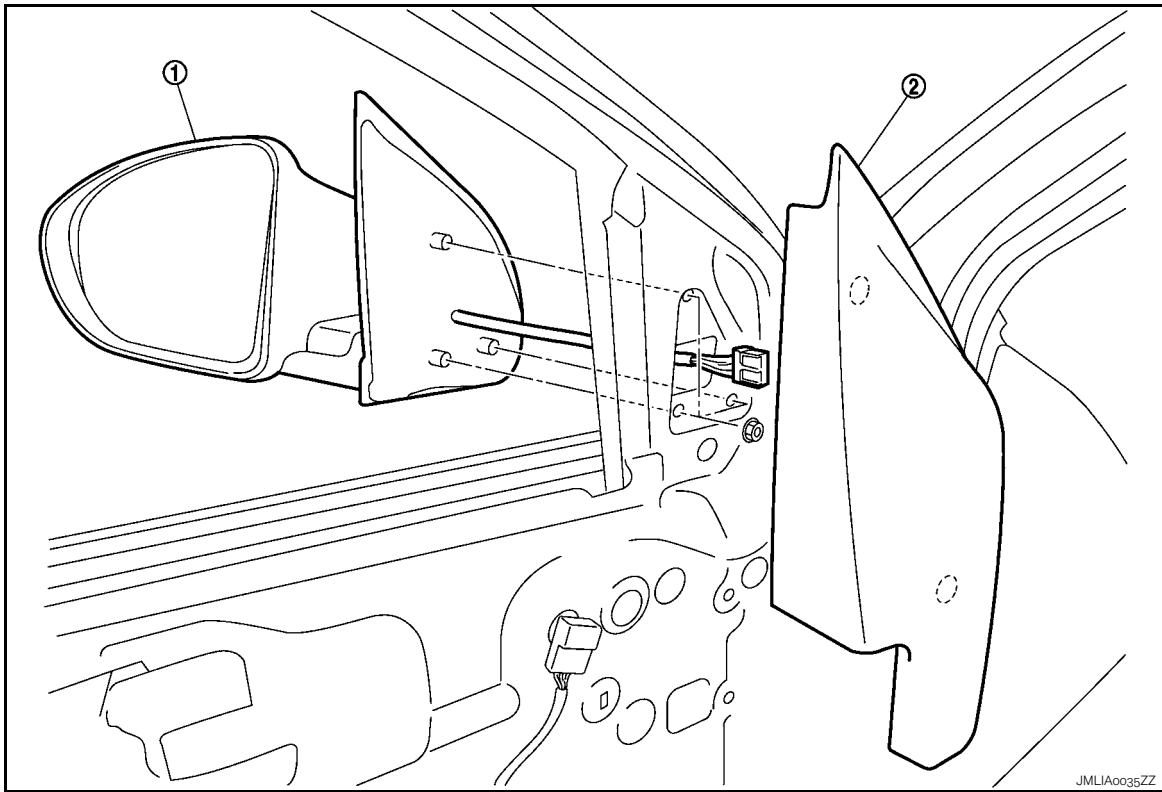
< ON-VEHICLE REPAIR >

DOOR MIRROR

Exploded View

INFOID:000000001093102

REMOVAL



1. Door mirror assembly

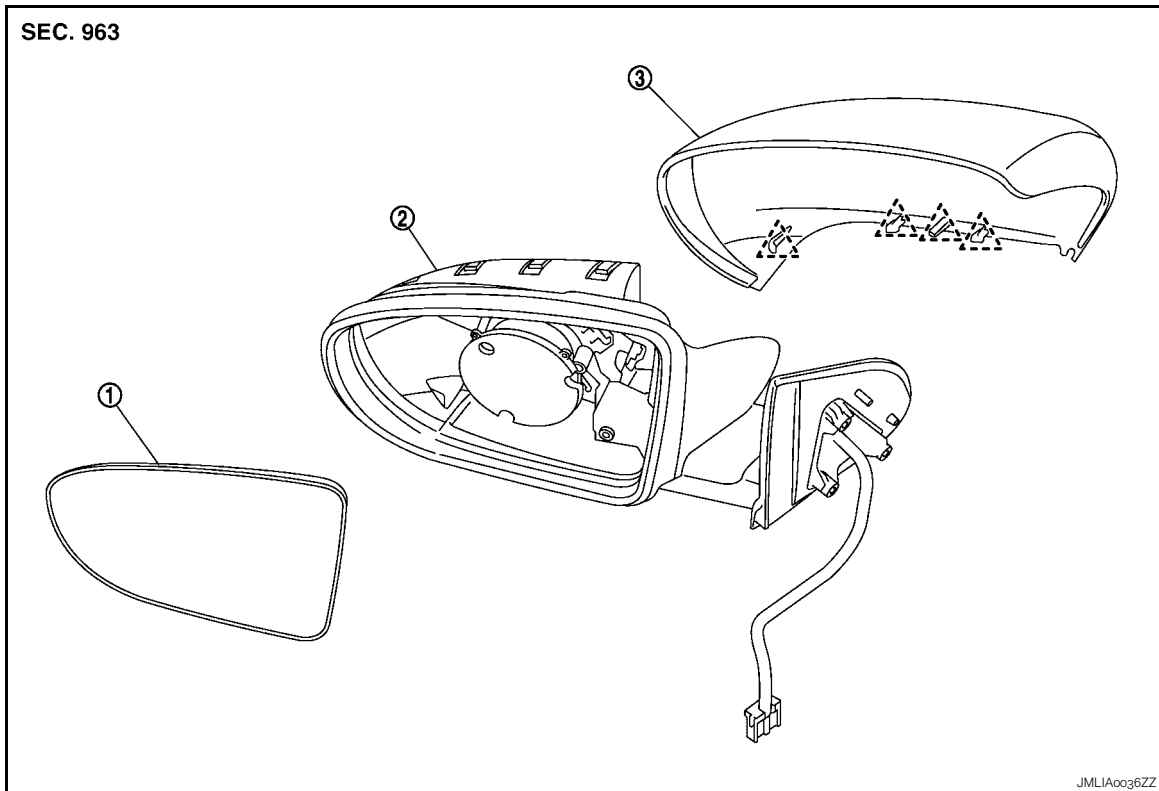
2. Corner cover

○ :Clip

DISASSEMBLY

DOOR MIRROR

< ON-VEHICLE REPAIR >



1. Mirror (mirror holder)

2. Mirror assembly

3. Mirror cover

 Pawl

Removal and Installation

INFOID:000000001093103

REMOVAL

1. Remove the front door finisher. Refer to [INT-10. "FRONT DOOR FINISHER : Removal and Installation"](#).
2. Remove the corner cover.
3. Disconnect the door mirror harness connector.
4. Remove the door mirror mounting nuts, and remove the door mirror assembly.

CAUTION:

Do not damage the mirror bodies.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

Do not damage the mirror bodies.

Disassembly and Assembly

INFOID:000000001093104

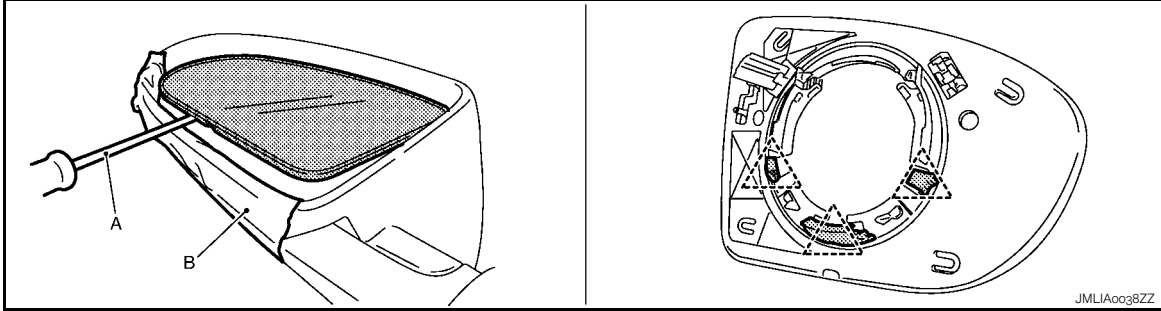
DISASSEMBLY

1. Remove the clips and mirror cover from the housing.
2. Place the mirror body with mirror glass upward.

DOOR MIRROR

< ON-VEHICLE REPAIR >

- Put a strip of protective tape (B) on mirror body.



△ :Pawl

- Insert a small flattened driver (A) between the mirror assembly and the mirror glass, and remove the pawl located under the mirror glass from mirror assembly.

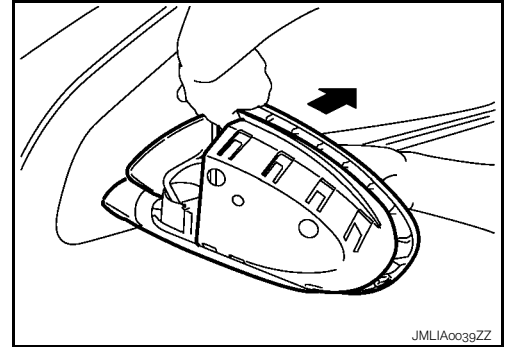
NOTE:

when removing the pawl under the mirror glass, the left and right side pawls are simultaneously removed.

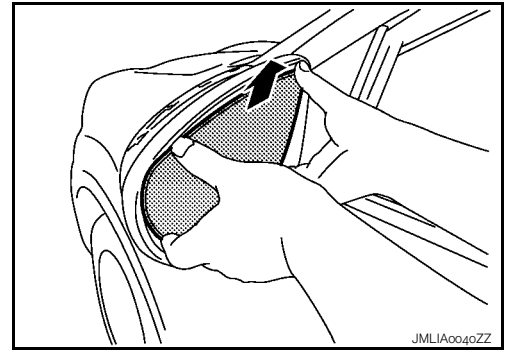
- From the mirror assembly side, hold and push the mirror glass downward.

CAUTION:

Avoid dropping the mirror glass by holding it securely.



- Slide the mirror glass upward as shown by the arrow and remove it from the mirror assembly.



- Remove two terminals of mirror heater attachment.

ASSEMBLY

Install in the reverse order of removal.

NOTE:

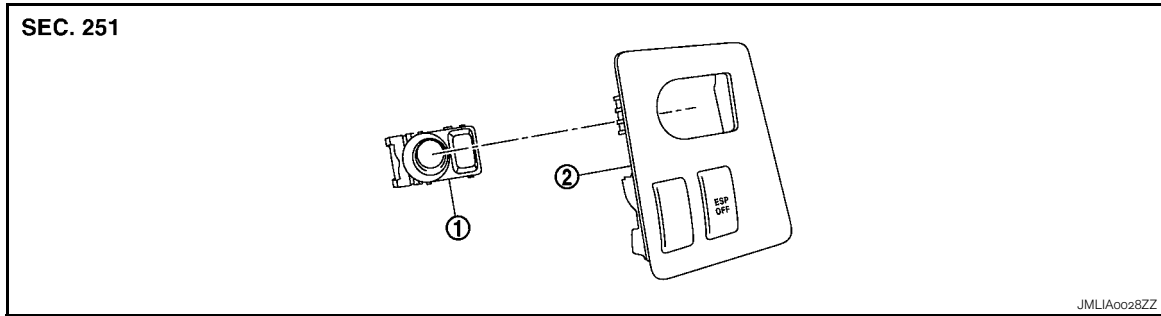
After installation, visually check that pawls are securely engaged.

DOOR MIRROR REMOTE CONTROL SWITCH

< ON-VEHICLE REPAIR >

DOOR MIRROR REMOTE CONTROL SWITCH

Exploded View



1. Door mirror remote control switch
2. Mirror switch finsher

Removal and Installation

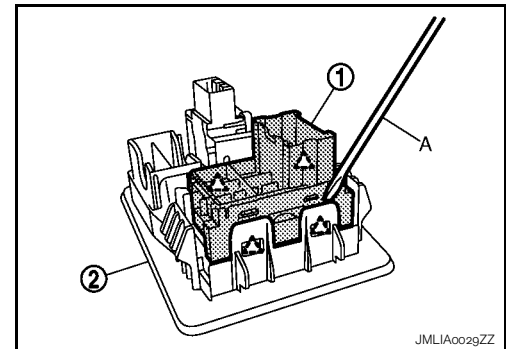
INFOID:000000000951551

REMOVAL

1. Remove the mirror switch finsher (2).
Refer to [IP-12. "Removal and Installation"](#)
2. Remove door mirror remote control switch (1) from mirror switch finsher (2) using screw driver (A).



: Pawl



INSTALLATION

Install in the reverse order of removal.