

SECTION **MIR**
MIRRORS

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BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

INFOID:000000003136520

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.CHECK DTC

Perform self-diagnosis for automatic drive positioner (ADP) with CONSULT-III.

Is any DTC detected?

YES >> Refer to [ADP-140. "DTC Index"](#)

NO >> GO TO 3.

3.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 4.

4.IDENTIFY THE MALFUNCTIONING SYSTEM WITH "SYMPTOM DIAGNOSIS"

Use "Symptom diagnosis" from the symptom inspection result in step 3. 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 3.

Are all malfunctions corrected?

YES >> INSPECTION END

NO >> GO TO 4.

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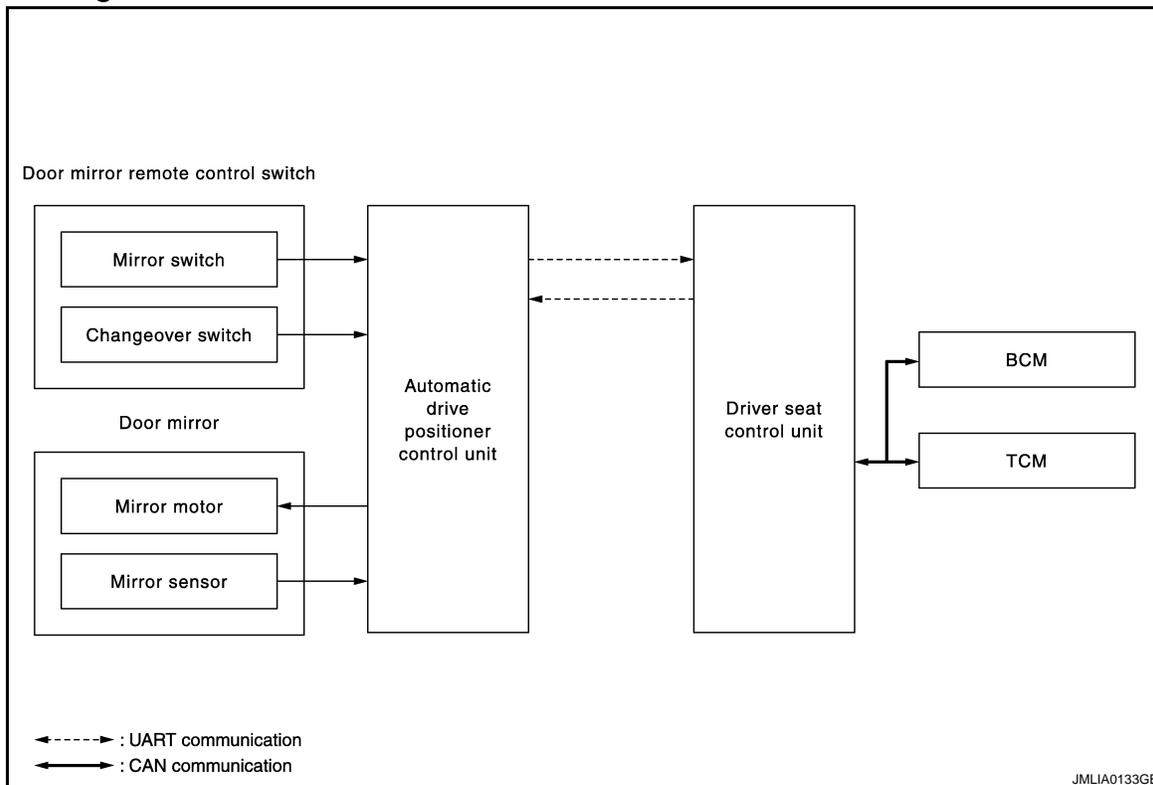
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FUNCTION DIAGNOSIS

DOOR MIRROR SYSTEM

System Diagram

INFOID:000000003136521



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System Description

INFOID:000000003136522

MANUAL FUNCTION

Description

- Automatic drive positioner control unit controls door mirror.
- Automatic drive positioner control unit inputs changeover switch signal and perform the LH/RH control of door mirror motor supplying electric power when changeover switch is operated.
- Automatic drive positioner control unit inputs mirror switch signal and supplies electric power to door mirror.
- The ignition switch signal (ACC/ON) is transmitted from BCM to the driver seat control unit via CAN communication and from the driver seat control unit to the automatic drive positioner control unit via UART communication.

Operation Conditions

If the following conditions are not satisfied, operation is not performed.

- Ignition switch: ON or ACC
- Changeover switch: Select either left or right

REVERSE INTERLOCK DOOR MIRROR SYSTEM

Description

- Select one of the door mirror faces by change over switch, and then set the selected mirror face downward/inward.
- When the ignition switch is ON position and control device is in R position, the TCM sends the R signal to the driver seat control unit. The R signal is transmitted to the automatic drive positioner control unit from the driver seat control unit via UART communication. When the R signal is detected, the automatic device positioner control unit activated the mirror motor.

Operation Conditions

If the following conditions are not satisfied, operation is not performed.

DOOR MIRROR SYSTEM

[WITH ADP]

< FUNCTION DIAGNOSIS >

- Ignition switch: ON
- Changeover switch: Select either left or right
- A/T control device: R position

During the reverse interlock door mirror system, if all of the above conditions are not satisfied, mirror face returns to original angle.

Mirror Angle Memory Function

- During the reverse interlock door mirror operation, the mirror angle can be changed. After adjustment, the mirror face positions can be memorized (2 positions). For memory setting.
- Initial setting is downward 7°, inward 1° (both of left and right).
- When the driver's seat, outside mirror and steering column are not in the memorized position, the outside mirror will move with the initial tilt-down angle, if the reverse tilt-down position is stored. Linking Intelligent Key to a stored memory position.

Memory Procedure

1. Apply the parking brake.
2. Push the ignition switch to the ON position. (Do not start the engine.)
3. Push the memory switch 1 or 2 fully for at least 1 second to operate the automatic drive positioner.
4. Turn the door mirror control switch (changeover switch) to L (left).
5. Depress the brake pedal.
6. Move the control device to R position (reverse).
7. Adjust the mirror to the desired viewing position for backing up by operating the door mirror control switch (mirror switch).
8. Push the SET switch and, within 5 seconds, push the memory switch 1 or 2 selected in step 3 fully for at least 1 second.
The indicator light for the pushed memory switch will come on and stay pushing the switch. After the indicator light goes off, the selected mirror position is stored in the selected memory (1 or 2).
9. Turn the door mirror control switch (changeover switch) to R (right).
Repeat the above procedure to adjust the right mirror position and store in the selected memory.

AUTOMATIC DRIVE POSITIONER SYSTEM LINKED OPERATION

Description

Door mirror control is included in automatic drive positioner system. Refer to automatic drive positioner system for more details.

Refer to [ADP-14. "AUTOMATIC DRIVE POSITIONER SYSTEM : System Description"](#).

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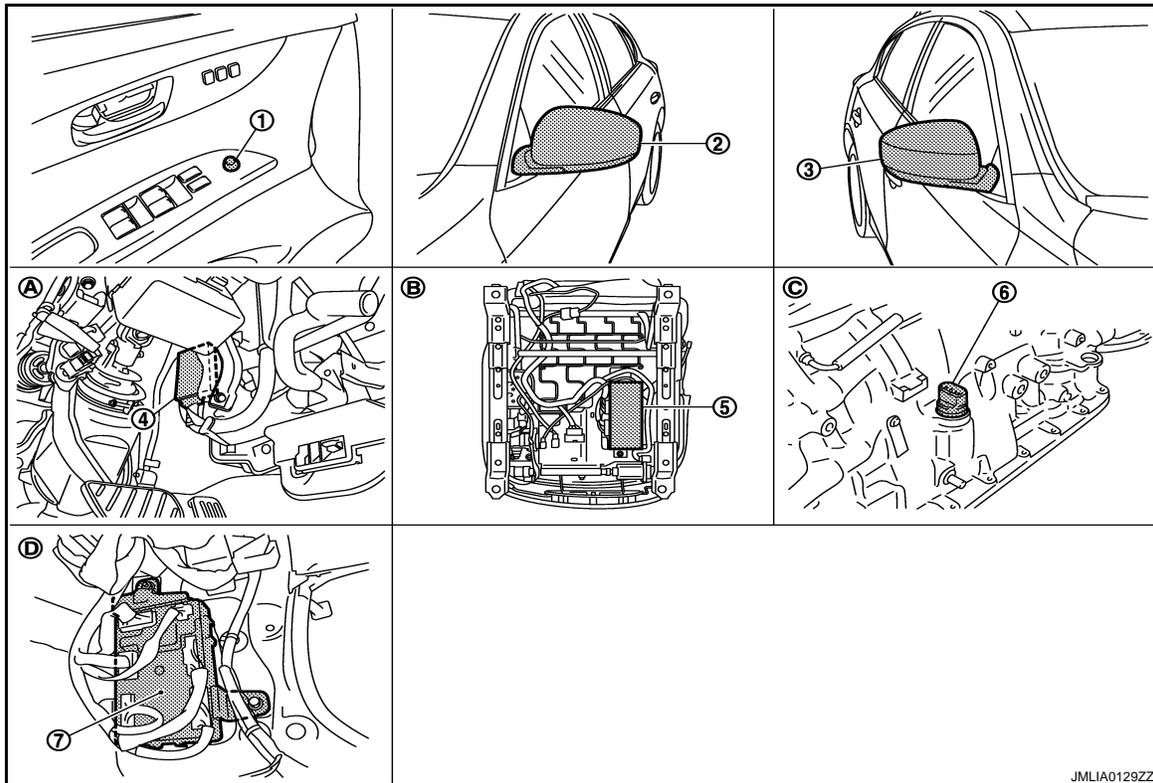
DOOR MIRROR SYSTEM

< FUNCTION DIAGNOSIS >

[WITH ADP]

Component Parts Location

INFOID:000000003136523



- | | | |
|---|--|--|
| 1. Door mirror remote control switch D17 | 2. Door mirror (driver side) D3 | 3. Door mirror (passenger side) D33 |
| 4. Automatic drive positioner control unit M51, M52 | 5. Driver seat control unit B451, B452 | 6. AT assembly connector (TCM) F51 |
| 7. BCM M118, M119, M122 | | |
| A. View with instrument driver lower panel removed | B. Back side of the seat cushion | C. AT assembly (TCM is built in AT assembly) |
| D. Dash side lower (passenger side) | | |

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Component Description

INFOID:000000003136524

Component		Function
Automatic drive positioner control unit		Door mirror is supplied with power after receiving the input of the MIRROR SWITCH and CHANGE OVER SWITCH.
Door mirror remote control switch	Mirror switch	It transmits mirror face adjust operation to AUTOMATIC DRIVE POSITIONER CONTROL UNIT.
	Changeover switch	It transmits the LH/RH control of door mirror that supplies power to AUTOMATIC DRIVE POSITIONER CONTROL UNIT.
Door mirror		It makes mirror face operate from side to side and up and down via integrated motor.
BCM		The ignition switch signal (ACC/ON) is transmitted to driver seat control unit via CAN communication.
Driver seat control unit		The ignition switch signal (ACC/ON) is transmitted to automatic drive positioner control unit via UART communication.
TCM		The A/T shift position signal is transmitted to driver seat control unit via CAN communication.

INSIDE MIRROR SYSTEM

< FUNCTION DIAGNOSIS >

[WITH ADP]

INSIDE MIRROR SYSTEM

System Description

INFOID:000000003136525

The sensor built in inside mirror detects the brightness of headlight of the vehicle behind and automatically changes the light transmission to decrease the brightness.

Component Description

INFOID:000000003136526

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

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DIAGNOSIS SYSTEM (DRIVER SEAT CONTROL UNIT)

< FUNCTION DIAGNOSIS >

[WITH ADP]

DIAGNOSIS SYSTEM (DRIVER SEAT CONTROL UNIT)

Diagnosis Description

INFOID:000000003698500

The auto drive positioner system can be checked and diagnosed for component operation with CONSULT-III.

DIAGNOSTIC MODE

Diagnostic mode [AUTO DRIVE POS.]	Description
WORK SUPPORT	Changes the setting of each function.
SELF-DIAG RESULTS	Performs self-diagnosis for the auto drive positioner system and displays the results.
DATA MONITOR	Displays input signals transmitted from various switches and sensors to driver seat control unit in real time.
CAN DIAG SUPPORT MNTR	The result of transmit/receive diagnosis of CAN communication can be read.
ACTIVE TEST	Drive each output device.
ECU PART NUMBER	Displays part numbers of driver seat control unit parts.

CONSULT-III Function

INFOID:000000003698501

SELF-DIAGNOSIS RESULTS

Refer to [ADP-140, "DTC Index"](#).

DATA MONITOR

Monitor Item	Unit	Main Signals	Selection From Menu	Contents
SET SW	"ON/OFF"	×	×	ON/OFF status judged from the setting switch signal.
MEMORY SW 1	"ON/OFF"	×	×	ON/OFF status judged from the seat memory switch 1 signal.
MEMORY SW 2	"ON/OFF"	×	×	ON/OFF status judged from the seat memory switch 2 signal.
SLIDE SW-FR	"ON/OFF"	×	×	ON/OFF status judged from the sliding switch (forward) signal.
SLIDE SW-RR	"ON/OFF"	×	×	ON/OFF status judged from the sliding switch (backward) signal.
RECLN SW-FR	"ON/OFF"	×	×	ON/OFF status judged from the reclining switch (forward) signal.
RECLN SW-RR	"ON/OFF"	×	×	ON/OFF status judged from the reclining switch (backward) signal.
LIFT FR SW-UP	"ON/OFF"	×	×	ON/OFF status judged from the lifting switch front (up) signal.
LIFT FR SW-DN	"ON/OFF"	×	×	ON/OFF status judged from the lifting switch front (down) signal.
LIFT RR SW-UP	"ON/OFF"	×	×	ON/OFF status judged from the lifting switch rear (up) signal.
LIFT RR SW-DN	"ON/OFF"	×	×	ON/OFF status judged from the lifting switch rear (down) signal.
MIR CON SW-UP	"ON/OFF"	×	×	ON/OFF status judged from the mirror switch (up) signal.
MIR CON SW-DN	"ON/OFF"	×	×	ON/OFF status judged from the mirror switch (down) signal.
MIR CON SW-RH	"ON/OFF"	×	×	ON/OFF status judged from the door mirror remote control switch (passenger side) signal.
MIR CON SW-LH	"ON/OFF"	×	×	ON/OFF status judged from the door mirror remote control switch (driver side) signal.

DIAGNOSIS SYSTEM (DRIVER SEAT CONTROL UNIT)

< FUNCTION DIAGNOSIS >

[WITH ADP]

Monitor Item	Unit	Main Signals	Selection From Menu	Contents
MIR CHNG SW-R	"ON/OFF"	×	×	ON/OFF status judged from the door mirror remote control switch (switching to right) signal.
MIR CHNG SW-L	"ON/OFF"	×	×	ON/OFF status judged from the door mirror remote control switch (switching to left) signal.
TILT SW-UP	"ON/OFF"	×	×	ON/OFF status judged from the tilt switch (up) signal.
TILT SW-DOWN	"ON/OFF"	×	×	ON/OFF status judged from the tilt switch (down) signal.
TELESCO SW-FR	"ON/OFF"	×	×	ON/OFF status judged from the telescoping switch (forward) signal.
TELESCO SW-RR	"ON/OFF"	×	×	ON/OFF status judged from the telescoping switch (backward) signal.
DETENT SW	"ON/OFF"	×	×	The selector lever position "OFF (P position) / ON (other than P position)" judged from the detention switch signal.
STARTER SW	"ON/OFF"	×	×	Ignition key switch ON (START, ON) /OFF (ACC, OFF) status judged from the ignition switch signal.
SLIDE PULSE	—	—	×	Value (32768) when battery connections are standard. If it moves backward, the value increases. If it moves forward, the value decreases.
RECLN PULSE	—	—	×	Value (32768) when battery connections are standard. If it moves backward, the value increases. If it moves forward, the value decreases.
LIFT FR PULSE	—	—	×	Value (32768) when battery connections are standard. If it moves DOWN, the value increases. If it moves UP, the value decreases.
LIFT RR PULSE	—	—	×	Value (32768) when battery connections are standard. If it moves DOWN, the value increases. If it moves UP, the value decreases.
MIR/SEN RH U-D	"V"	—	×	Voltage input from door mirror sensor (passenger side) up/down is displayed.
MIR/SEN RH R-L	"V"	—	×	Voltage input from door mirror sensor (passenger side) left/right is displayed.
MIR/SEN LH U-D	"V"	—	×	Voltage input from door mirror sensor (driver side) up/down is displayed.
MIR/SEN LH R-L	"V"	—	×	Voltage input from door mirror sensor (driver side) left/right is displayed.
TILT SEN	"V"	—	×	Voltage input from tilt sensor is displayed.
TELESCO SEN	"V"	—	×	Voltage input from telescopic sensor is displayed.

ACTIVE TEST

CAUTION:

When driving vehicle, do not perform active test.

Test item	Description
SEAT SLIDE	Activates/deactivates the sliding motor.
SEAT RECLINING	Activates/deactivates the reclining motor.
SEAT LIFTER FR	Activates/deactivates the lifting motor (front).
SEAT LIFTER RR	Activates/deactivates the lifting motor (rear).
TILT MOTOR	Activates/deactivates the tilt motor.
TELESCO MOTOR	Activates/deactivates the telescopic motor.
MIRROR MOTOR RH	Activates/deactivates the mirror motor (passenger side).

DIAGNOSIS SYSTEM (DRIVER SEAT CONTROL UNIT)

< FUNCTION DIAGNOSIS >

[WITH ADP]

Test item	Description
MIRROR MOTOR LH	Activates/deactivates the mirror motor (driver side).
MEMORY SW INDCTR	Turns ON/OFF the memory indicator.

WORK SUPPORT

Work item	Content	Item
SEAT SLIDE VOLUME SET	The amount of seat sliding for entry/exit assist can be selected from 3 items.	40 mm
		80 mm
		150 mm
EXIT TILT SETTING	Entry/exit assist (steering column) can be selected: ON (operated) – OFF (not operated)	ON
		OFF
EXIT SEAT SLIDE SETTING	Entry/exit assist (seat) can be selected: ON (operated) – OFF (not operated)	ON
		OFF

DOOR MIRROR REMOTE CONTROL SWITCH

< COMPONENT DIAGNOSIS >

[WITH ADP]

COMPONENT DIAGNOSIS

DOOR MIRROR REMOTE CONTROL SWITCH MIRROR SWITCH

MIRROR SWITCH : Description

INFOID:000000003136529

It operates angle of the door mirror face.
It transmits mirror face adjust operation to AUTOMATIC DRIVE POSITIONER CONTROL UNIT.

MIRROR SWITCH : Component Function Check

INFOID:000000003136530

1.CHECK MIRROR SWITCH FUNCTION

Check the operation on "MIR CON SW-UP/DN" and "MIR CON SW-RH/LH" in "DATA MONITOR" mode with CONSULT-III.

Monitor item	Condition
MIR CON SW-UP/DN	When operating the mirror switch toward the up or down side. : ON
	Other than above. : OFF
MIR CON SW-RH/LH	When operating the mirror switch toward the right or left side. : ON
	Other than above. : OFF

Is the inspection result normal?

- YES >> Mirror switch function is OK.
NO >> Refer to [MIR-11, "MIRROR SWITCH : Diagnosis Procedure"](#).

MIRROR SWITCH : Diagnosis Procedure

INFOID:000000003136531

1.CHECK MIRROR SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect door mirror remote control switch connector.
3. Turn ignition switch ON.
4. Check voltage between door mirror remote control switch harness connector and ground.

(+)		(-)	Voltage (V) (Approx.)
Door mirror remote control switch			
Connector	Terminal	Ground	5
D17	4		
	12		
	13		
	15		

Is the inspection result normal?

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

2.CHECK MIRROR SWITCH CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect automatic drive positioner control unit connector.
3. Check continuity between automatic drive positioner control unit harness connector and door mirror remote control switch harness connector.

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DOOR MIRROR REMOTE CONTROL SWITCH

< COMPONENT DIAGNOSIS >

[WITH ADP]

Automatic drive positioner control unit		Door mirror remote control switch		Continuity
Connector	Terminal	Connector	Terminal	
M51	3	D17	15	Existed
	4		13	
	19		12	
	20		4	

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

Automatic drive positioner control unit		Ground	Continuity
Connector	Terminal		
M51	3	Ground	Not existed
	4		
	19		
	20		

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to [ADP-210, "Removal and Installation"](#).

NO >> Repair or replace harness.

3.CHECK DOOR MIRROR REMOTE CONTROL SWITCH GROUND CIRCUIT

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

Door mirror remote control switch		Ground	Continuity
Connector	Terminal		
D17	7	Ground	Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK MIRROR SWITCH

Check door mirror remote control switch (mirror switch).

Refer to [MIR-12, "MIRROR SWITCH : Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace door mirror remote control switch (mirror switch). Refer to [MIR-56, "Removal and Installation"](#).

5.CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to [GI-38, "Intermittent Incident"](#).

>> INSPECTION END

MIRROR SWITCH : Component Inspection

INFOID:000000003136532

1.CHECK MIRROR SWITCH

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

DOOR MIRROR REMOTE CONTROL SWITCH

< COMPONENT DIAGNOSIS >

[WITH ADP]

Door mirror remote control switch		Condition	Continuity
Connector	Terminal		
D17	4	RIGHT	Existed
		Other than above	Not existed
	13	LEFT	Existed
		Other than above	Not existed
	15	UP	Existed
		Other than above	Not existed
	12	DOWN	Existed
		Other than above	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace door mirror remote control switch. Refer to [MIR-56. "Removal and Installation"](#).

CHANGEOVER SWITCH

CHANGEOVER SWITCH : Description

INFOID:000000003136533

Changeover switch is integrated into door mirror remote control switch.

Changeover switch has three positions (L, N and R).

It changes door mirror motor operation by transmitting control signal to automatic drive positioner control unit.

CHANGEOVER SWITCH : Component Function Check

INFOID:000000003136534

1. CHECK CHANGEOVER SWITCH FUNCTION

Check the operation on "MIR CHNG SW-R" or "MIR CHNG SW-L" in "DATA MONITOR" mode with CONSULT-III.

Monitor item	Condition
MIR CHNG SW-R/L	When operating the changeover toward the right or left side. : ON
	Other than above. : OFF

Is the inspection result normal?

YES >> Changeover switch function is OK.

NO >> Refer to [MIR-13. "CHANGEOVER SWITCH : Diagnosis Procedure"](#).

CHANGEOVER SWITCH : Diagnosis Procedure

INFOID:000000003136535

1. CHECK CHANGEOVER SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect door mirror remote control switch connector.
3. Turn ignition switch ON.
4. Check voltage between door mirror remote control switch harness connector and ground.

(+)		(-)	Voltage (V) (Approx.)
Door mirror remote control switch			
Connector	Terminal	Ground	5
D17	10		
	11		

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK CHANGEOVER SWITCH CIRCUIT

DOOR MIRROR REMOTE CONTROL SWITCH

[WITH ADP]

< COMPONENT DIAGNOSIS >

1. Turn ignition switch OFF.
2. Disconnect automatic drive positioner control unit connector.
3. Check continuity between automatic drive positioner control unit harness connector and door mirror remote control switch harness connector.

Automatic drive positioner control unit		Door mirror remote control switch		Continuity
Connector	Terminal	Connector	Terminal	
M51	2	D17	11	Existed
	18		10	

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

Automatic drive positioner control unit		Ground	Continuity
Connector	Terminal		
M51	2		Not existed
	18		

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to [ADP-210. "Removal and Installation"](#).

NO >> Repair or replace harness.

3.CHECK DOOR MIRROR REMOTE CONTROL SWITCH GROUND CIRCUIT

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

Door mirror remote control switch		Ground	Continuity
Connector	Terminal		
D17	7		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK CHANGE OVER SWITCH

Check door mirror remote control switch (changeover switch).

Refer to [MIR-14. "CHANGE OVER SWITCH : Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace door mirror remote control switch (changeover switch). Refer to [MIR-56. "Removal and Installation"](#).

5.CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to [GI-38. "Intermittent Incident"](#).

>> INSPECTION END

CHANGE OVER SWITCH : Component Inspection

INFOID:000000003136536

1.CHECK CHANGE OVER SWITCH

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

DOOR MIRROR REMOTE CONTROL SWITCH

< COMPONENT DIAGNOSIS >

[WITH ADP]

Door mirror remote control switch		Condition	Continuity	
Connector	Terminal			
D17	10	Changeover switch	LEFT	Existed
	11		Other than above	Not existed
			RIGHT	Existed
	7		Other than above	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace door mirror remote control switch. Refer to [MIR-56. "Removal and Installation"](#).

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AUTO ANTI-DAZZLING INSIDE MIRROR SYSTEM

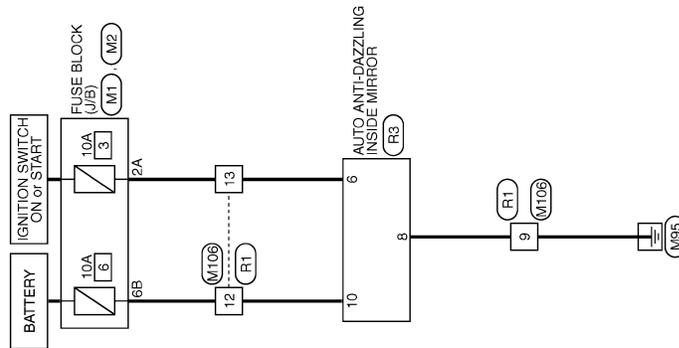
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[WITH ADP]

AUTO ANTI-DAZZLING INSIDE MIRROR SYSTEM

Wiring Diagram - INSIDE MIRROR SYSTEM -

INFOID:000000003136537



INSIDE MIRROR

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AUTO ANTI-DAZZLING INSIDE MIRROR SYSTEM

< COMPONENT DIAGNOSIS >

[WITH ADP]

INSIDE MIRROR

Connector No.	M1	Connector No.	M2	Connector No.	M105	Connector No.	R1
Connector Name	FUSE BLOCK (J/B)	Connector Name	FUSE BLOCK (J/B)	Connector Name	WIRE TO WIRE	Connector Name	WIRE TO WIRE
Connector Type	NSDFV-M2	Connector Type	NSDFV-CS	Connector Type	TKDMPV-NS	Connector Type	TKDMPV-NS

Terminal No.	2A	Terminal No.	6B	Terminal No.	9	Terminal No.	9
Color of Wire	G	Color of Wire	Y	Color of Wire	Y	Color of Wire	B
Signal Name [Specification]	-	Signal Name [Specification]	-	Signal Name [Specification]	-	Signal Name [Specification]	-

Terminal No.	3A	Terminal No.	4B	Terminal No.	10	Terminal No.	10
Color of Wire	TA	Color of Wire	3B	Color of Wire	11	Color of Wire	9
Signal Name [Specification]	TA	Signal Name [Specification]	3B	Signal Name [Specification]	11	Signal Name [Specification]	9

Terminal No.	8A	Terminal No.	10B	Terminal No.	11	Terminal No.	11
Color of Wire	6A	Color of Wire	9B	Color of Wire	12	Color of Wire	12
Signal Name [Specification]	6A	Signal Name [Specification]	9B	Signal Name [Specification]	12	Signal Name [Specification]	12

Terminal No.	10	Terminal No.	12	Terminal No.	13	Terminal No.	13
Color of Wire	G	Color of Wire	B	Color of Wire	BR	Color of Wire	BR
Signal Name [Specification]	BAT	Signal Name [Specification]	-	Signal Name [Specification]	-	Signal Name [Specification]	-

Connector No.	R3
Connector Name	AUTO ANTI-DAZZLING INSIDE MIRROR
Connector Type	TH10FB-NH

Terminal No.	5	Terminal No.	10
Color of Wire	4	Color of Wire	9
Signal Name [Specification]	4	Signal Name [Specification]	9

Terminal No.	6	Terminal No.	8	Terminal No.	10
Color of Wire	BR	Color of Wire	B	Color of Wire	G
Signal Name [Specification]	IGN	Signal Name [Specification]	GND	Signal Name [Specification]	BAT

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DRIVER SEAT CONTROL UNIT

[WITH ADP]

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ECU DIAGNOSIS

DRIVER SEAT CONTROL UNIT

Reference Value

INFOID:000000003698493

VALUES ON THE DIAGNOSIS TOOL

CONSULT-III MONITOR ITEM

Monitor Item	Condition	Value/Status	
SET SW	Set switch	Push	ON
		Release	OFF
MEMORY SW1	Memory switch 1	Push	ON
		Release	OFF
MEMORY SW2	Memory switch 2	Push	ON
		Release	OFF
SLIDE SW-FR	Sliding switch (front)	Operate	ON
		Release	OFF
SLIDE SW-RR	Sliding switch (rear)	Operate	ON
		Release	OFF
RECLN SW-FR	Reclining switch (front)	Operate	ON
		Release	OFF
RECLN SW-RR	Reclining switch (rear)	Operate	ON
		Release	OFF
LIFT FR SW-UP	Lifting switch front (up)	Operate	ON
		Release	OFF
LIFT FR SW-DN	Lifting switch front (down)	Operate	ON
		Release	OFF
LIFT RR SW-UP	Lifting switch rear (up)	Operate	ON
		Release	OFF
LIFT RR SW-DN	Lifting switch rear (down)	Operate	ON
		Release	OFF
MIR CON SW-UP	Mirror switch	Up	ON
		Other than above	OFF
MIR CON SW-DN	Mirror switch	Down	ON
		Other than above	OFF
MIR CON SW-RH	Mirror switch	Right	ON
		Other than above	OFF
MIR CON SW-LH	Mirror switch	Left	ON
		Other than above	OFF
MIR CHNG SW-R	Changeover switch	Right	ON
		Other than above	OFF
MIR CHNG SW-L	Changeover switch	Left	ON
		Other than above	OFF
TILT SW-UP	Tilt switch	Up	ON
		Other than above	OFF
TILT SW-DOWN	Tilt switch	Down	ON
		Other than above	OFF

DRIVER SEAT CONTROL UNIT

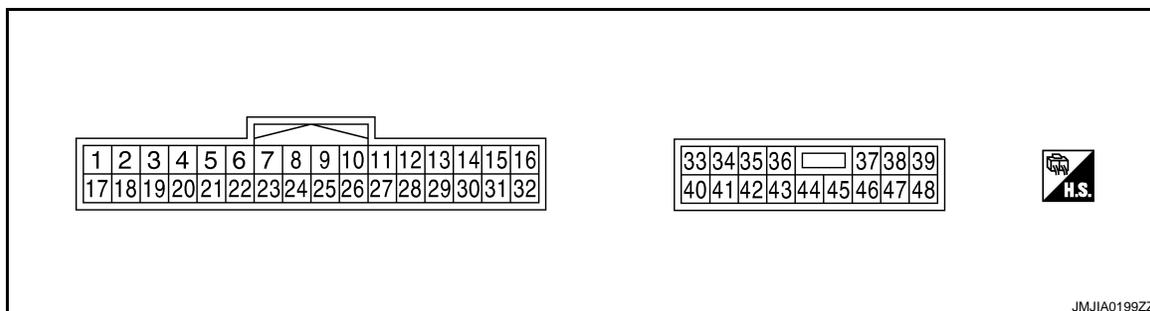
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[WITH ADP]

Monitor Item	Condition		Value/Status
TELESCO SW-FR	Telescopic switch	Forward	ON
		Other than above	OFF
TELESCO SW-RR	Tilt switch	Backward	ON
		Other than above	OFF
DETENT SW	AT selector lever	P position	OFF
		Other than above	ON
STARTER SW	Ignition position	Cranking	ON
		Other than above	OFF
SLIDE PULSE	Seat sliding	Forward	The numeral value decreases *1
		Backward	The numeral value increases *1
		Other than above	No change to numeral value *1
RECLN PULSE	Seat reclining	Forward	The numeral value decreases *1
		Backward	The numeral value increases *1
		Other than above	No change to numeral value *1
LIFT FR PULSE	Seat lifter (front)	Up	The numeral value decreases *1
		Down	The numeral value increases *1
		Other than above	No change to numeral value *1
LIFT RR PULSE	Seat lifter (rear)	Up	The numeral value decreases *1
		Down	The numeral value increases *1
		Other than above	No change to numeral value *1
MIR/SEN RH U-D	Door mirror (passenger side)	Change between 3.4 (close to peak) 0.6 (close to valley)	
MIR/SEN RH R-L	Door mirror (passenger side)	Change between 3.4 (close to left edge) 0.6 (close to right edge)	
MIR/SEN LH U-D	Door mirror (driver side)	Change between 3.4 (close to peak) 0.6 (close to valley)	
MIR/SEN LH R-L	Door mirror (driver side)	Change between 0.6 (close to left edge) 3.4 (close to right edge)	
TILT SEN	Tilt position	Change between 1.2 (close to top) 3.4 (close to bottom)	
TELESCO SEN	Telescopic position	Change between 3.4 (close to top) 0.8 (close to bottom)	

*1: The value at the position attained when the battery is connected is regarded as 32768.

TERMINAL LAYOUT

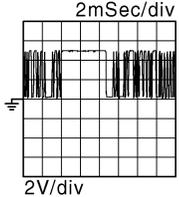
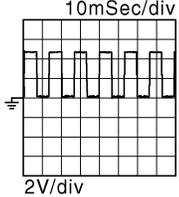
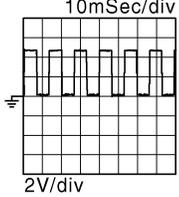
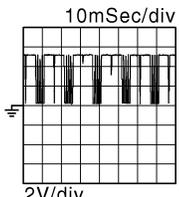


PHYSICAL VALUES

DRIVER SEAT CONTROL UNIT

< ECU DIAGNOSIS >

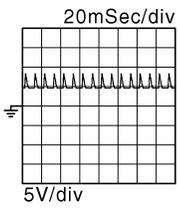
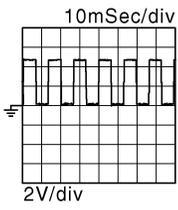
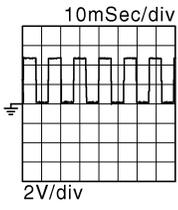
[WITH ADP]

Terminal No.		Wire color	Description		Condition	Voltage (V) (Approx)	
+	-		Signal name	Input/Output			
1	Ground	L/W	UART communication (RX)	Input	Ignition switch ON		
3	—	R/Y	CAN-H	—	—	—	
9	Ground	W/G	Reclining sensor signal	Input	Seat reclining	Operate	
						Stop	0 or 5
10	Ground	P/B	Lifting sensor (rear) signal	Input	Seat lifting (rear)	Operate	
						Stop	0 or 5
11	Ground	BR	Sliding switch backward signal	Input	Sliding switch	Operate (backward)	0
						Release	Battery voltage
12	Ground	SB	Reclining switch backward signal	Input	Reclining switch	Operate (backward)	0
						Release	Battery voltage
13	Ground	LG/R	Lifting switch (front) down signal	Input	Lifting switch (front)	Operate (down)	0
						Release	Battery voltage
14	Ground	G/B	Lifting switch (rear) down signal	Input	Lifting switch (rear)	Operate (down)	0
						Release	Battery voltage
16	Ground	O	Sensor power supply	Output	—	5	
17	Ground	Y/R	UART communication (TX)	Output	Ignition switch ON		
19	—	V	CAN-L	—	—	—	

DRIVER SEAT CONTROL UNIT

< ECU DIAGNOSIS >

[WITH ADP]

Terminal No.		Wire color	Description		Condition	Voltage (V) (Approx)
+	-		Signal name	Input/ Output		
21	Ground	L/Y	Detention switch	Input	A/T selector lever	P position 0
						Except P position 
24	Ground	R	Sliding sensor signal	Input	Seat sliding	Operate 
						Stop 0 or 5
25	Ground	Y/B	Lifting sensor (front) signal	Input	Seat lifting (front)	Operate 
						Stop 0 or 5
26	Ground	Y	Sliding switch forward signal	Input	Sliding switch	Operate (forward) 0
						Release Battery voltage
27	Ground	R/G	Reclining switch forward signal	Input	Reclining switch	Operate (forward) 0
						Release Battery voltage
28	Ground	W/B	Lifting switch (front) up signal	Input	Seat lifting switch (front)	Operate (up) 0
						Release Battery voltage
29	Ground	P/L	Lifting switch (rear) up signal	Input	Seat lifting switch (rear)	Operate (up) 0
						Release Battery voltage
31	Ground	GR	Sensor ground	—	—	0
32	Ground	B/W	Ground (signal)	—	—	0
33	Ground	R	Power source (C/B)	Input	—	Battery voltage
35	Ground	W/R	Sliding motor forward output signal	Output	Seat sliding	Operate (forward) Battery voltage
						Release 0
36	Ground	G/Y	Reclining motor forward output signal	Output	Seat reclining	Operate (forward) Battery voltage
						Release 0

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DRIVER SEAT CONTROL UNIT

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[WITH ADP]

Terminal No.		Wire color	Description		Condition	Voltage (V) (Approx)	
+	-		Signal name	Input/ Output			
37	Ground	G/W	Lifting motor (front) down output signal	Output	Seat lifting (front)	Operate (down)	Battery voltage
						Stop	0
38	Ground	L/Y	Lifting motor (rear) up output signal	Output	Seat lifting (rear)	Operate (up)	Battery voltage
						Stop	0
39	Ground	R/B	Lifting motor (rear) down output signal	Output	Seat lifting (rear)	Operate (down)	Battery voltage
						Stop	0
40	Ground	R/W	Power source (Fuse)	Input	—	Battery voltage	
42	Ground	W/B	Sliding motor back- ward output signal	Output	Seat sliding	Operate (back- ward)	Battery voltage
						Stop	0
44	Ground	P	Reclining motor back- ward output signal	Output	Seat reclining	Operate (back- ward)	Battery voltage
						Stop	0
45	Ground	L/R	Lifting motor (front) up output signal	Output	Seat lifting (front)	Operate (up)	Battery voltage
						Stop	0
48	Ground	B	Ground (power)	—	—	0	

DRIVER SEAT CONTROL UNIT

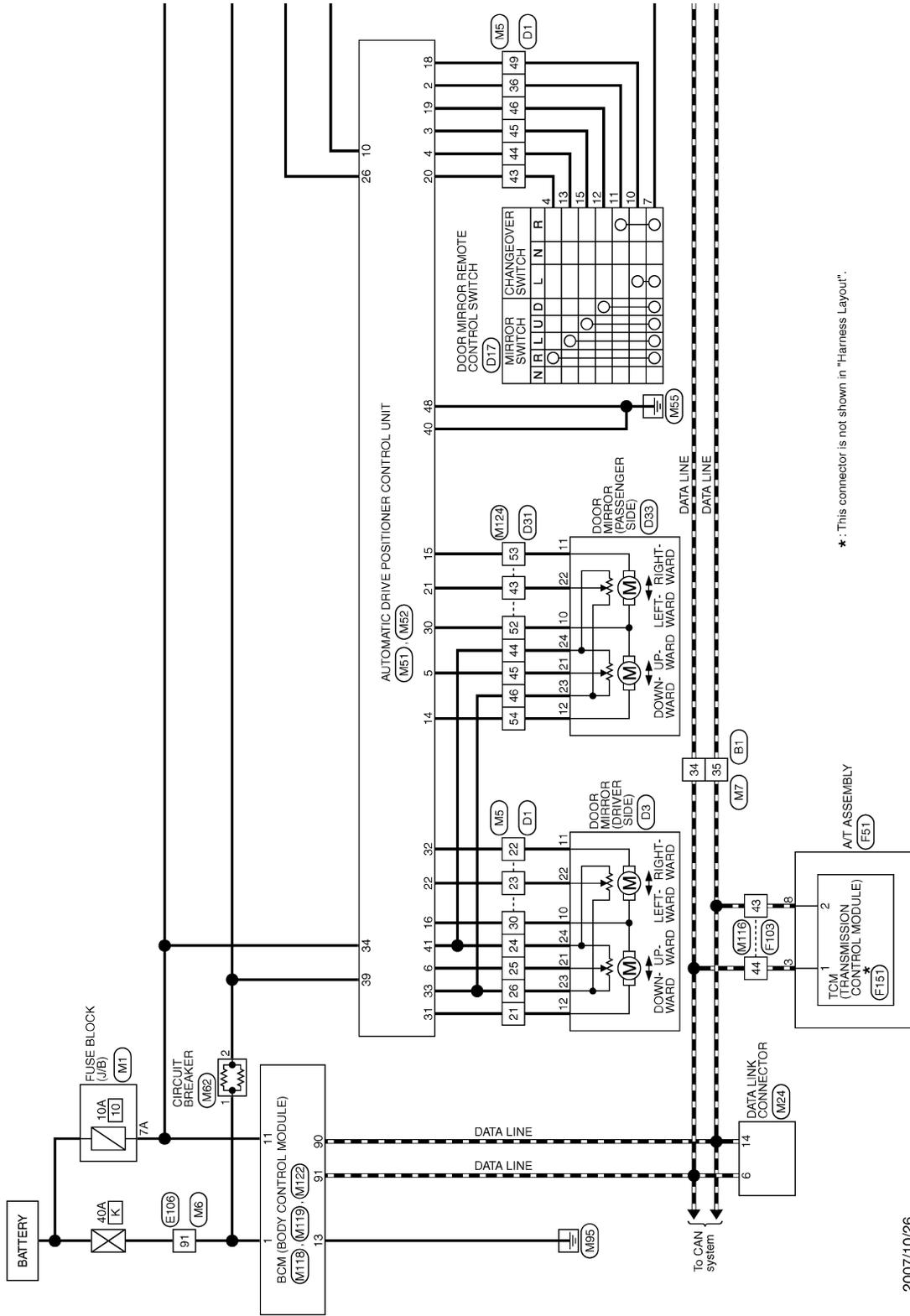
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Wiring Diagram - DOOR MIRROR (AUTOMATIC DRIVE POSITIONER) -

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DOOR MIRROR (WITH AUTOMATIC DRIVE POSITIONER)



*: This connector is not shown in "Harness Layout".

2007/10/26

JCLWM1222GE

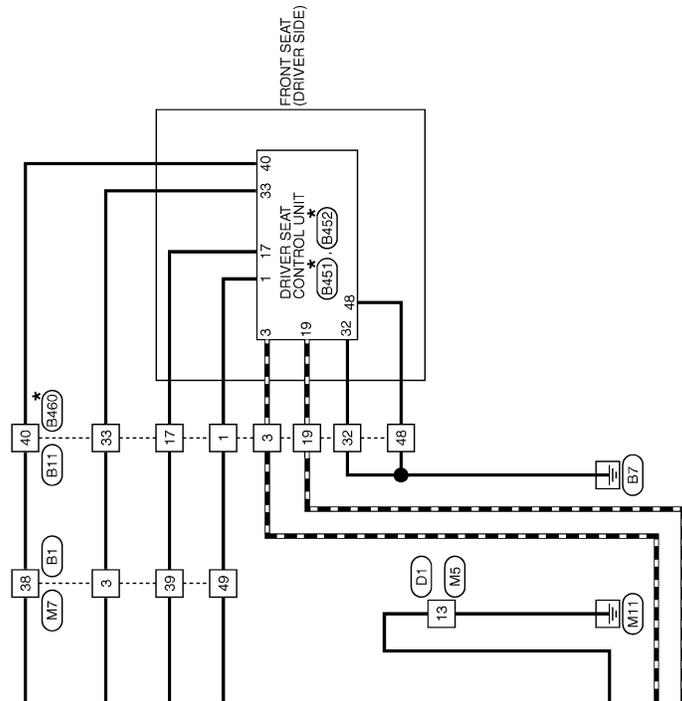
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DRIVER SEAT CONTROL UNIT

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*: This connector is not shown in "Harness Layout".

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DRIVER SEAT CONTROL UNIT

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DOOR MIRROR (WITH AUTOMATIC DRIVE POSITIONER)

Connector No.	B452
Connector Name	DRIVER SEAT CONTROL UNIT
Connector Type	NS16FW-CS



33	34	35	36	37	38	39
40	41	42	43	44	45	46
47	48					

Terminal No.	Color of Wire	Signal Name [Specification]
33	R	BAT(C/B)
40	R/W	BAT(FUSE)
48	B	GND(POWER)

Connector No.	B451
Connector Name	DRIVER SEAT CONTROL UNIT
Connector Type	TH2FW



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32

Terminal No.	Color of Wire	Signal Name [Specification]
1	L/W	FX
3	R/Y	CAN-H
17	Y/R	TX
19	V	CAN-L
32	B/W	GND(SIGNAL)

Connector No.	D3
Connector Name	DOOR MIRROR (DRIVER SIDE)
Connector Type	TH2MVF-NH



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]
10	G	- [With automatic drive positioner]
11	P	-
12	O	- [With automatic drive positioner]
21	GR	-
22	BR	-
23	Y	-
24	V	-

Connector No.	B11
Connector Name	WIRE TO WIRE (WITH AUTOMATIC DRIVE POSITIONER)
Connector Type	NS16FW-CS



59	40	17	1	13	19
60	33	21	48	32	20

Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
3	L	-
17	LG	-
19	P	-
32	B	-
33	SB	-
40	BR	-
48	B	-

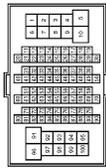
Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS15



15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
16	15	14	13	12	11	10	9	8	7	6	5	4	3	2
17	16	15	14	13	12	11	10	9	8	7	6	5	4	3
18	17	16	15	14	13	12	11	10	9	8	7	6	5	4
19	18	17	16	15	14	13	12	11	10	9	8	7	6	5
20	19	18	17	16	15	14	13	12	11	10	9	8	7	6
21	20	19	18	17	16	15	14	13	12	11	10	9	8	7
22	21	20	19	18	17	16	15	14	13	12	11	10	9	8
23	22	21	20	19	18	17	16	15	14	13	12	11	10	9
24	23	22	21	20	19	18	17	16	15	14	13	12	11	10
25	24	23	22	21	20	19	18	17	16	15	14	13	12	11
26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
27	26	25	24	23	22	21	20	19	18	17	16	15	14	13
28	27	26	25	24	23	22	21	20	19	18	17	16	15	14
29	28	27	26	25	24	23	22	21	20	19	18	17	16	15
30	29	28	27	26	25	24	23	22	21	20	19	18	17	16
31	30	29	28	27	26	25	24	23	22	21	20	19	18	17
32	31	30	29	28	27	26	25	24	23	22	21	20	19	18
33	32	31	30	29	28	27	26	25	24	23	22	21	20	19
34	33	32	31	30	29	28	27	26	25	24	23	22	21	20
35	34	33	32	31	30	29	28	27	26	25	24	23	22	21
36	35	34	33	32	31	30	29	28	27	26	25	24	23	22
37	36	35	34	33	32	31	30	29	28	27	26	25	24	23
38	37	36	35	34	33	32	31	30	29	28	27	26	25	24
39	38	37	36	35	34	33	32	31	30	29	28	27	26	25
40	39	38	37	36	35	34	33	32	31	30	29	28	27	26
41	40	39	38	37	36	35	34	33	32	31	30	29	28	27
42	41	40	39	38	37	36	35	34	33	32	31	30	29	28
43	42	41	40	39	38	37	36	35	34	33	32	31	30	29
44	43	42	41	40	39	38	37	36	35	34	33	32	31	30

Terminal No.	Color of Wire	Signal Name [Specification]
13	B	-
21	O	-
22	P	-
23	BR	-
24	V	-
25	GR	-
26	Y	-
30	G	-
36	L	-
43	BR	- [With automatic drive positioner]
44	W	- [With automatic drive positioner]

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
3	SB	-
34	L	-
35	P	-
38	BR	-
39	LG	-
48	G	-

Connector No.	B460
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS



19	3	1	17	40	59
20	32	48	21	33	60

Terminal No.	Color of Wire	Signal Name [Specification]
1	L/W	-
3	R/Y	-
17	Y/R	-
19	V	-
32	B/W	-
33	R	-
40	R/W	-
48	B	-

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DRIVER SEAT CONTROL UNIT

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[WITH ADP]

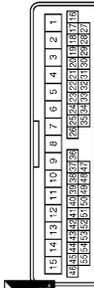
DOOR MIRROR (WITH AUTOMATIC DRIVE POSITIONER)

Connector No.	D17
Connector Name	DOOR MIRROR REMOTE CONTROL SWITCH (WITH AUTOMATIC DRIVE POSITIONER)
Connector Type	TK16BR



Terminal No.	Color of Wire	Signal Name [Specification]
4	BR	-
7	B	-
10	GR	-
11	L	-
12	P	-
13	W	-
15	Y	-

Connector No.	D31
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS15



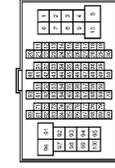
Terminal No.	Color of Wire	Signal Name [Specification]
43	Y	-
44	V	-
45	P	-
46	W	-
52	Y	-
53	G	-
54	W	-

Connector No.	D33
Connector Name	DOOR MIRROR (PASSENGER SIDE)
Connector Type	TH24MW-NH



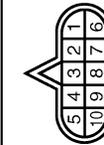
Terminal No.	Color of Wire	Signal Name [Specification]
10	Y	- [With automatic drive positioner]
11	G	- [With automatic drive positioner]
12	W	- [With automatic drive positioner]
21	P	-
22	Y	-
23	W	-
24	V	-

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS19-TM4

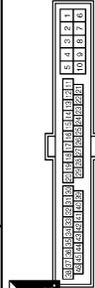


Terminal No.	Color of Wire	Signal Name [Specification]
91	W	-

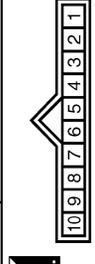
Connector No.	F51
Connector Name	A/T ASSEMBLY
Connector Type	RK10FG-DGY



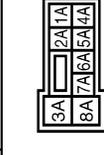
Connector No.	F103
Connector Name	WIRE TO WIRE
Connector Type	TK38FW-NS10



Connector No.	F151
Connector Name	TCM (TRANSMISSION CONTROL MODULE)
Connector Type	SP10FBGY



Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS30FW-M2



Terminal No.	Color of Wire	Signal Name [Specification]
3	L	-
8	P	-

Terminal No.	Color of Wire	Signal Name [Specification]
43	P	-
44	L	-

Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	CAN-H
2	L/Y	CAN-L

Terminal No.	Color of Wire	Signal Name [Specification]
7A	R	-

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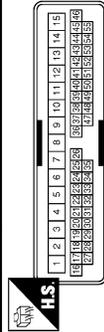
DRIVER SEAT CONTROL UNIT

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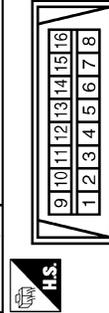
DOOR MIRROR (WITH AUTOMATIC DRIVE POSITIONER)

Connector No.	M5
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS15



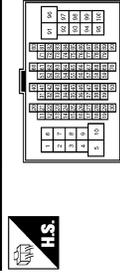
Terminal No.	Color of Wire	Signal Name [Specification]
13	B	-
21	LG	-
22	L	-
23	G	-
24	Y	-
25	GR	-
26	W	-
30	Y	-
36	LG	-
43	BR	-
44	V	-

Connector No.	M24
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



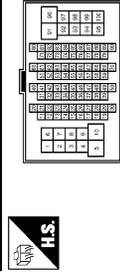
45	G	-
46	SB	- [With automatic drive positioner]
49	P	-

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS16-TM4



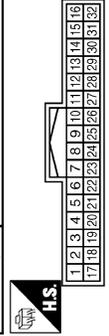
Terminal No.	Color of Wire	Signal Name [Specification]
91	W	-

Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
3	SB	- [With automatic drive positioner]
34	L	-
35	P	-
38	BR	-
39	Y	-
49	V	-

Connector No.	M51
Connector Name	AUTOMATIC DRIVE POSITIONER CONTROL UNIT
Connector Type	TH43FW-NH

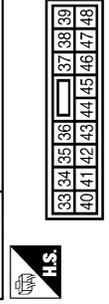


20	BR	MIRROR SW (RIGHTWARD)
21	L	MIRROR SENSOR (RH HORIZONTAL)
22	G	MIRROR SENSOR (LH HORIZONTAL)
26	Y	RX (UART)
30	R	MIRROR MOTOR (RH COMMON)
31	LG	MIRROR MOTOR (LH VERTICAL)
32	L	MIRROR MOTOR (LH HORIZONTAL)

Terminal No.	Color of Wire	Signal Name [Specification]
6	L	-
14	P	-

Terminal No.	Color of Wire	Signal Name [Specification]
2	LG	MIRROR SELECT SW (RH)
3	G	MIRROR SW (UPWARD)
4	V	MIRROR SW (LEFTWARD)
5	R	MIRROR SENSOR (RH VERTICAL)
6	GR	MIRROR SENSOR (LH VERTICAL)
10	V	TX (UART)
14	W	MIRROR MOTOR (RH VERTICAL)
15	G	MIRROR MOTOR (RH HORIZONTAL)
16	Y	MIRROR MOTOR (LH COMMON)
18	P	MIRROR SELECT SW (LH)
19	SB	MIRROR SW (DOWNWARD)

Connector No.	M52
Connector Name	AUTOMATIC DRIVE POSITIONER CONTROL UNIT
Connector Type	NS16FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
33	W	POWER SUPPLY (SENSOR)
34	R	BAT (FUSE)
39	SB	BAT (C/B)
40	B	GND(SIGNAL)
41	Y	GND(SENSOR)
48	B	GND(POWER)

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DRIVER SEAT CONTROL UNIT

< ECU DIAGNOSIS >

[WITH ADP]

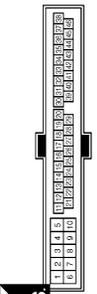
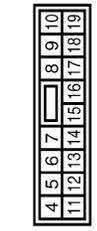
DOOR MIRROR (WITH AUTOMATIC DRIVE POSITIONER)

Connector No.	M116	Connector No.	M118	Connector No.	M119
Connector Name	WIRE TO WIRE	Connector Name	BCM (BODY CONTROL MODULE)	Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TK38MF-NS10	Connector Type	M02FP-LC	Connector Type	NS16FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
43	P	-
44	L	-

Terminal No.	Color of Wire	Signal Name [Specification]
1	W	BAT (F/L)
2	SB	-

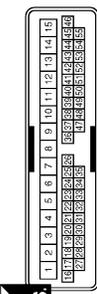
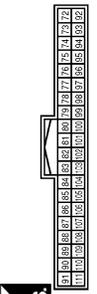
Terminal No.	Color of Wire	Signal Name [Specification]
11	R	BAT (FUSE)
13	B	GND



Connector No.	M122	Connector No.	M124
Connector Name	BCM (BODY CONTROL MODULE)	Connector Name	WIRE TO WIRE
Connector Type	TH40FB-NH	Connector Type	TH40MW-CS15

Terminal No.	Color of Wire	Signal Name [Specification]
91	P	CAN-L
90	L	CAN-H

Terminal No.	Color of Wire	Signal Name [Specification]
43	L	-
44	Y	-
45	R	-
46	W	-
52	R	-
53	G	-
54	W	-



Fail Safe

The fail-safe mode may be activated if the following symptoms are observed.

JCLWM1227GE

INFOID:000000003698495

DRIVER SEAT CONTROL UNIT

< ECU DIAGNOSIS >

[WITH ADP]

Operating in fail-safe mode	Malfunction Item	Related DTC	Diagnosis
Only manual functions operate normally.	CAN communication	U1000	ADP-45
	Tilt sensor	B2118	ADP-50
	Telescopic sensor	B2119	ADP-53
	Detent switch	B2126	ADP-56
Only manual functions, except door mirror, operate normally.	UART communication	B2128	ADP-58
Only manual functions, except seat sliding, operate normally.	Seat sliding output	B2112	ADP-46
Only manual functions, except seat reclining, operate normally.	Seat reclining output	B2113	ADP-48

DTC Index

INFOID:000000003698496

CONSULT-III display	Timing*1		Item	Reference page
	Current malfunction	Previous malfunction		
CAN COMM CIRCUIT [U1000]	0	1-39	CAN communication	ADP-45
SEAT SLIDE [B2112]	0	1-39	Seat slide motor output	ADP-46
SEAT RECLINING [B2113]	0	1-39	Seat reclining motor output	ADP-48
TILT SENSOR [B2118]	0	1-39	Tilt sensor input	ADP-50
TELESCO SENSOR [B2119]	0	1-39	Telescopic sensor input	ADP-53
DETENT SW [B2126]	0	1-39	Detention switch condition	ADP-56
UART COMM [B2128]	0	1-39	UART communication	ADP-58

*1:

- 0: Current malfunction is present
- 1-39: Displayed if any previous malfunction is present when current condition is normal. The numeral value increases by one at each IGN ON to OFF cycle from 1 to 39. The counter remains at 39 even if the number of cycles exceeds it. However, the counter is reset to 1 if any malfunction is detected again, the normal operation is resumed and the ignition switch is turned from OFF to ON.

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AUTOMATIC DRIVE POSITIONER CONTROL UNIT

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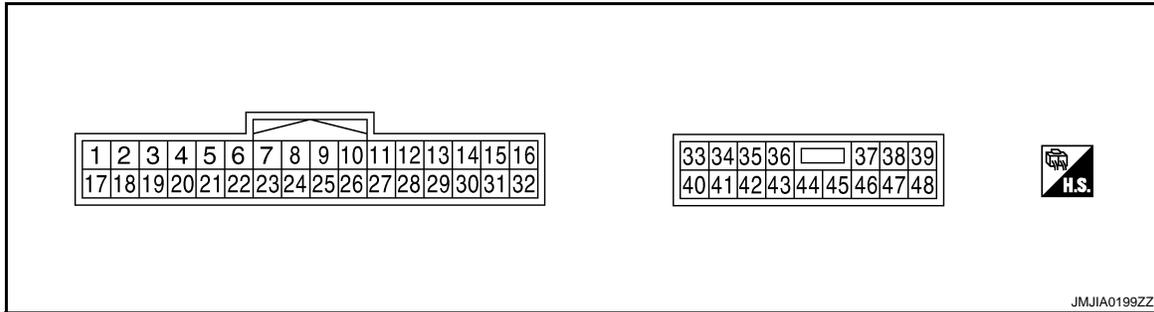
[WITH ADP]

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

Reference Value

INFOID:000000003698499

TERMINAL LAYOUT



PHYSICAL VALUES

Terminal No.		Wire color	Description		Condition	Voltage (V) (Approx.)
+	-		Signal name	Input/ Out- put		
1	Ground	Y	Tilt switch up signal	Input	Tilt switch	Operate (up) 0
						Other than above 5
2	Ground	LG	Changeover switch RH signal	Input	Changeover switch position	RH 0
						Neutral or LH 5
3	Ground	G	Mirror switch up signal	Input	Mirror switch	Operated (up) 0
						Other than above 5
4	Ground	V	Mirror switch left signal	Input	Mirror switch	Operated (left) 0
						Other than above 5
5	Ground	R	Door mirror sensor (RH) up/down signal	Input	Door mirror RH position	Change between 3.4 (close to peak) 0.6 (close to valley)
6	Ground	GR	Door mirror sensor (LH) up/down signal	Input	Door mirror LH position	Change between 3.4 (close to peak) 0.6 (close to valley)
7	Ground	O	Tilt sensor signal	Input	Tilt position	Change between 1.2 (close to top) 3.4 (close to bottom)
9	Ground	L	Memory switch 1 signal	Input	Memory switch 1	Push 0
						Other than above 5
10	Ground	V	UART communication (TX)	Out-put	Ignition switch ON	

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

< ECU DIAGNOSIS >

[WITH ADP]

Terminal No.		Wire color	Description		Condition	Voltage (V) (Approx.)	
+	-		Signal name	Input/ Output			
11	Ground	GR	Telescopic switch forward signal	Input	Telescopic switch	Operate (forward)	0
						Other than above	5
12	Ground	O	Memory indicator 1 signal	Output	Memory indicator 1	Illuminate	0
						Other than above	Battery voltage
13	Ground	P	Memory indicator 2 signal	Output	Memory indicator 2	Illuminate	0
						Other than above	Battery voltage
14	Ground	W	Door mirror motor (RH) up output signal	Output	Door mirror RH	Operate (up)	Battery voltage
						Other than above	0
15	Ground	G	Door mirror motor (RH) left output signal	Output	Door mirror RH	Operate (left)	Battery voltage
						Other than above	0
16	Ground	Y	Door mirror motor (LH) down output signal	Output	Door mirror (LH)	Operate (down)	Battery voltage
						Other than above	0
			Door mirror motor (LH) right output signal			Operate (right)	Battery voltage
						Other than above	0
17	Ground	W	Tilt switch down signal	Input	Tilt switch	Operate (down)	0
						Other than above	5
18	Ground	P	Changeover switch LH signal	Input	Changeover switch position	LH	0
						Neutral or RH	5
19	Ground	SB	Mirror switch down signal	Input	Mirror switch	Operate (down)	0
						Other than above	5
20	Ground	BR	Mirror switch right signal	Input	Mirror switch	Operate (right)	0
						Other than above	5
21	Ground	L	Door mirror sensor (RH) left/right signal	Input	Door mirror RH position	Change between 3.4 (close to left edge) 0.6 (close to right edge)	
22	Ground	G	Door mirror sensor (LH) left/right signal	Input	Door mirror LH position	Change between 0.6 (close to left edge) 3.4 (close to right edge)	
23	Ground	P	Telescopic sensor signal	Input	Telescopic position	Change between 0.8 (close to top) 3.4 (close to bottom)	

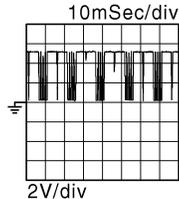
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AUTOMATIC DRIVE POSITIONER CONTROL UNIT

< ECU DIAGNOSIS >

[WITH ADP]

Terminal No.		Wire color	Description		Condition		Voltage (V) (Approx.)
+	-		Signal name	Input/ Output			
24	Ground	R	Set switch signal	Input	Set switch	Push	0
						Other than above	5
25	Ground	SB	Memory switch 2 signal	Input	Memory switch 2	Push	0
						Other than above	5
26	Ground	Y	UART communication (RX)	Input	Ignition switch ON	 <p style="text-align: right; font-size: small;">JMJA0121ZZ</p>	
27	Ground	G	Telescopic switch backward signal	Input	Telescopic switch	Operate (backward)	0
						Other than above	5
30	Ground	R	Door mirror motor (RH) down output signal	Output	Door mirror (RH)	Operate (down)	Battery voltage
						Other than above	0
			Door mirror motor (RH) right output signal			Operate (right)	Battery voltage
						Other than above	0
31	Ground	LG	Door mirror motor (LH) up output signal	Output	Door mirror (LH)	Operate (up)	Battery voltage
						Other than above	0
32	Ground	L	Door mirror motor (LH) left output signal	Output	Door mirror (LH)	Operate (left)	Battery voltage
						Other than above	0
33	Ground	W	Sensor power supply	Input	—	5	
34	Ground	R	Power source (Fuse)	Input	—	Battery voltage	
35	Ground	L	Tilt motor up output signal	Output	Steering tilt	Operate (up)	Battery voltage
						Other than above	0
36	Ground	GR	Telescopic motor forward output signal	Output	Steering telescopic	Operate (forward)	Battery voltage
						Other than above	0
39	Ground	SB	Power source (C/B)	—	—	Battery voltage	
40	Ground	B	Ground	—	—	0	
41	Ground	Y	Sensor ground	—	—	0	

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

< ECU DIAGNOSIS >

[WITH ADP]

Terminal No.		Wire color	Description		Condition	Voltage (V) (Approx.)
+	-		Signal name	Input/ Output		
42	Ground	O	Tilt motor down output signal	Output	Steering tilt	Battery voltage
					Operate (down)	0
44	Ground	G	Telescopic motor backward output signal	Output	Steering telescopic	Battery voltage
					Operate (backward)	0
48	Ground	B	Ground	—	—	0

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AUTOMATIC DRIVE POSITIONER CONTROL UNIT

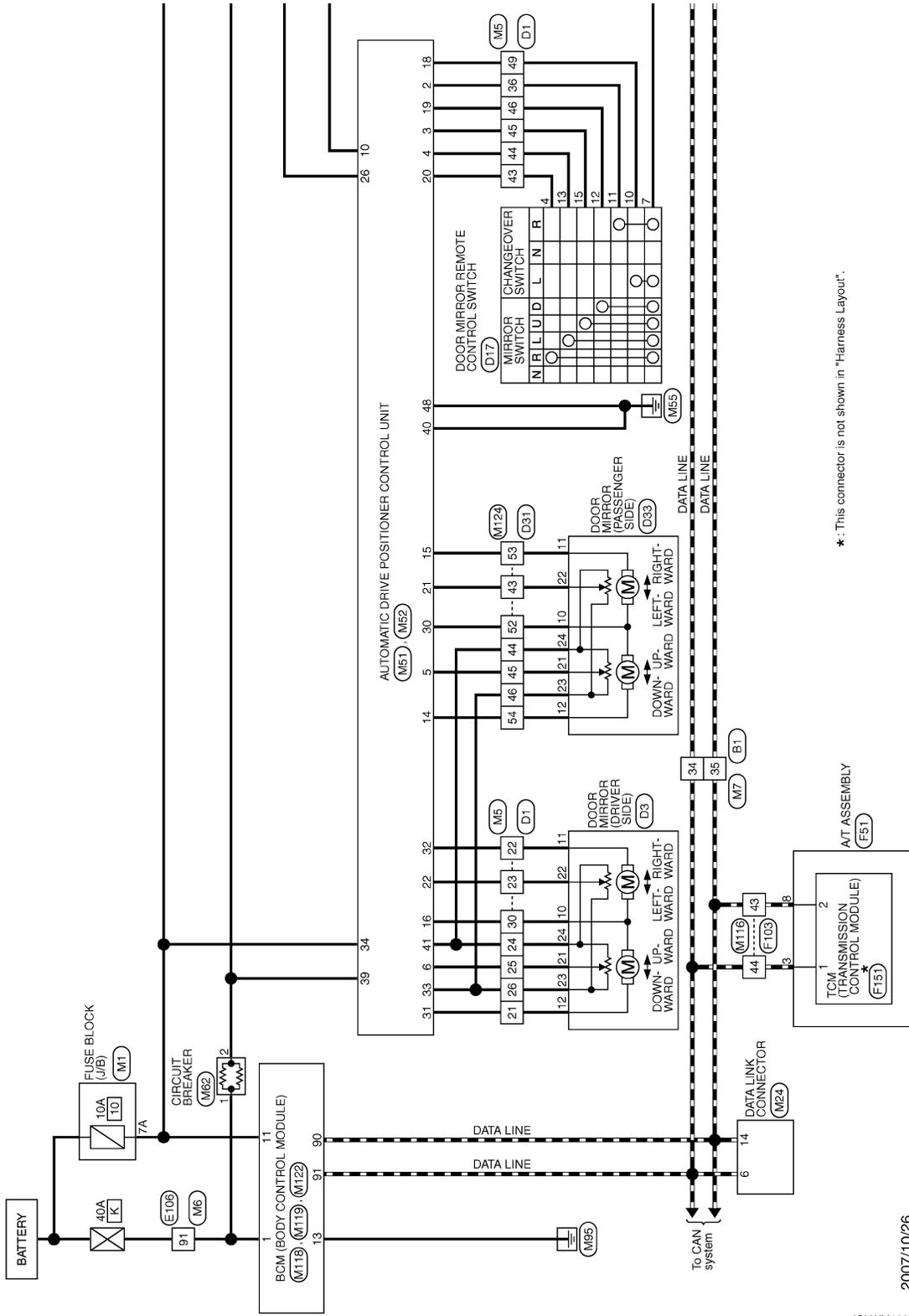
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[WITH ADP]

Wiring Diagram - DOOR MIRROR (AUTOMATIC DRIVE POSITIONER) -

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DOOR MIRROR (WITH AUTOMATIC DRIVE POSITIONER)



*: This connector is not shown in "Harness Layout".

2007/10/26

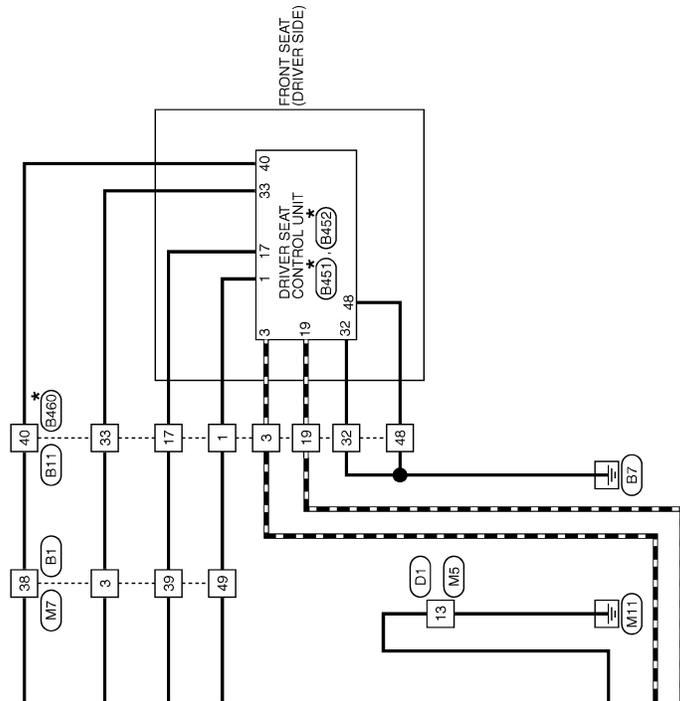
JCLWM1222GE

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

< ECU DIAGNOSIS >

[WITH ADP]

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*: This connector is not shown in "Harness Layout".

JCLWM1223GE

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AUTOMATIC DRIVE POSITIONER CONTROL UNIT

< ECU DIAGNOSIS >

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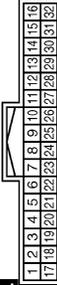
DOOR MIRROR (WITH AUTOMATIC DRIVE POSITIONER)

Connector No.	B452
Connector Name	DRIVER SEAT CONTROL UNIT
Connector Type	NS16FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
33	R	BAT(C/B)
40	R/W	BAT(FUSE)
48	B	GND(POWER)

Connector No.	B451
Connector Name	DRIVER SEAT CONTROL UNIT
Connector Type	TH22FW



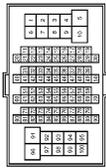
Terminal No.	Color of Wire	Signal Name [Specification]
1	L/W	RX
3	R/Y	CAN-H
17	Y/R	TX
19	V	CAN-L
32	B/W	GND(SIGNAL)

Connector No.	B11
Connector Name	WIRE TO WIRE (WITH AUTOMATIC DRIVE POSITIONER)
Connector Type	NS16FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
3	L	-
17	LG	-
19	P	-
32	B	-
33	SB	-
40	BR	-
48	B	-

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
3	SB	-
34	L	-
35	P	-
38	BR	-
39	LG	-
48	G	-

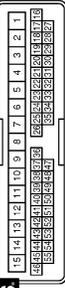
Connector No.	D3
Connector Name	DOOR MIRROR (DRIVER SIDE)
Connector Type	TH24MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
10	G	- [With automatic drive positioner]
11	P	-
12	O	- [With automatic drive positioner]
21	GR	-
22	BR	-
23	Y	-
24	V	-

Connector No.	Y
Connector Name	- [With automatic drive positioner]
Connector Type	GR

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
13	B	-
21	O	-
22	P	-
23	BR	-
24	V	-
25	GR	-
26	Y	-
30	G	-
36	L	-
43	BR	- [With automatic drive positioner]
44	W	- [With automatic drive positioner]

Connector No.	B460
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS



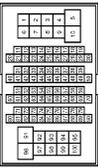
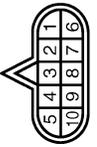
Terminal No.	Color of Wire	Signal Name [Specification]
1	L/W	-
3	R/Y	-
17	Y/R	-
19	V	-
32	B/W	-
33	R	-
40	R/W	-
48	B	-

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

< ECU DIAGNOSIS >

[WITH ADP]

DOOR MIRROR (WITH AUTOMATIC DRIVE POSITIONER)

Connector No.	D17	Connector No.	D31	Connector No.	B33	Connector No.	E106
Connector Name	DOOR MIRROR REMOTE CONTROL SWITCH (WITH AUTOMATIC DRIVE POSITIONER)	Connector Name	WIRE TO WIRE	Connector Name	DOOR MIRROR (PASSENGER SIDE)	Connector Name	WIRE TO WIRE
Connector Type	TK10FBR	Connector Type	TH4QFV-CS15	Connector Type	TH24MW-NH	Connector Type	TH80FW-CS16-TM4
							
Terminal No.	4	Terminal No.	43	Terminal No.	10	Terminal No.	91
Color of Wire	BR	Color of Wire	Y	Color of Wire	Y	Color of Wire	W
Signal Name [Specification]	-	Signal Name [Specification]	-	Signal Name [Specification]	- [With automatic drive positioner]	Signal Name [Specification]	-
Terminal No.	7	Terminal No.	44	Terminal No.	11	Terminal No.	10
Color of Wire	B	Color of Wire	Y	Color of Wire	G	Color of Wire	W
Signal Name [Specification]	-	Signal Name [Specification]	-	Signal Name [Specification]	- [With automatic drive positioner]	Signal Name [Specification]	-
Terminal No.	10	Terminal No.	45	Terminal No.	12	Terminal No.	11
Color of Wire	GR	Color of Wire	P	Color of Wire	W	Color of Wire	G
Signal Name [Specification]	-	Signal Name [Specification]	-	Signal Name [Specification]	- [With automatic drive positioner]	Signal Name [Specification]	-
Terminal No.	11	Terminal No.	46	Terminal No.	21	Terminal No.	21
Color of Wire	L	Color of Wire	W	Color of Wire	P	Color of Wire	Y
Signal Name [Specification]	-	Signal Name [Specification]	-	Signal Name [Specification]	-	Signal Name [Specification]	-
Terminal No.	12	Terminal No.	52	Terminal No.	22	Terminal No.	22
Color of Wire	P	Color of Wire	Y	Color of Wire	Y	Color of Wire	W
Signal Name [Specification]	-	Signal Name [Specification]	-	Signal Name [Specification]	-	Signal Name [Specification]	-
Terminal No.	13	Terminal No.	53	Terminal No.	23	Terminal No.	23
Color of Wire	W	Color of Wire	G	Color of Wire	W	Color of Wire	V
Signal Name [Specification]	-	Signal Name [Specification]	-	Signal Name [Specification]	-	Signal Name [Specification]	-
Terminal No.	15	Terminal No.	54	Terminal No.	24	Terminal No.	24
Color of Wire	Y	Color of Wire	W	Color of Wire	V	Color of Wire	-
Signal Name [Specification]	-	Signal Name [Specification]	-	Signal Name [Specification]	-	Signal Name [Specification]	-
Connector No.	F51	Connector No.	F103	Connector No.	F151	Connector No.	M1
Connector Name	A/T ASSEMBLY	Connector Name	WIRE TO WIRE	Connector Name	TCM (TRANSMISSION CONTROL MODULE)	Connector Name	FUSE BLOCK (J/B)
Connector Type	RK10FG-DGY	Connector Type	TK38FW-NS10	Connector Type	SP10FBGY	Connector Type	NS09FW-M2
							
Terminal No.	3	Terminal No.	43	Terminal No.	1	Terminal No.	7A
Color of Wire	L	Color of Wire	P	Color of Wire	BR	Color of Wire	R
Signal Name [Specification]	-	Signal Name [Specification]	-	Signal Name [Specification]	CAN-H	Color of Wire	R
Terminal No.	8	Terminal No.	44	Terminal No.	2	Terminal No.	7A
Color of Wire	P	Color of Wire	L	Color of Wire	L/Y	Color of Wire	R
Signal Name [Specification]	-	Signal Name [Specification]	-	Signal Name [Specification]	CAN-L	Signal Name [Specification]	-

JCLWM1225GE

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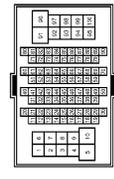
AUTOMATIC DRIVE POSITIONER CONTROL UNIT

< ECU DIAGNOSIS >

[WITH ADP]

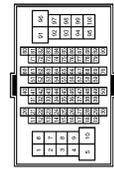
DOOR MIRROR (WITH AUTOMATIC DRIVE POSITIONER)

Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
3	SD	- [With automatic drive positioner]
34	L	-
35	P	-
38	BR	-
39	Y	-
49	V	-

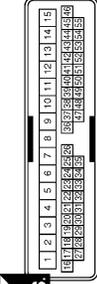
Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
91	W	-

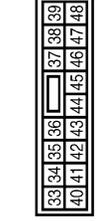
45	G	-
46	SB	- [With automatic drive positioner]
49	P	-

Connector No.	M5
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS15



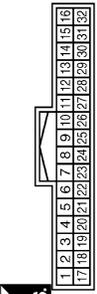
Terminal No.	Color of Wire	Signal Name [Specification]
13	B	-
21	LG	-
22	L	-
23	G	-
24	Y	-
25	GR	-
26	W	-
30	Y	-
36	LG	-
43	BR	-
44	V	-

Connector No.	M52
Connector Name	AUTOMATIC DRIVE POSITIONER CONTROL UNIT
Connector Type	NS16FW-CS

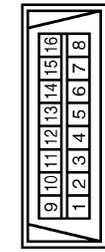


Terminal No.	Color of Wire	Signal Name [Specification]
20	BR	MIRROR SW (RIGHTWARD)
21	L	MIRROR SENSOR (RH HORIZONTAL)
22	G	MIRROR SENSOR (LH HORIZONTAL)
28	Y	RX (UART)
30	R	MIRROR MOTOR (RH COMMON)
31	LG	MIRROR MOTOR (LH VERTICAL)
32	L	MIRROR MOTOR (LH HORIZONTAL)

Connector No.	M51
Connector Name	AUTOMATIC DRIVE POSITIONER CONTROL UNIT
Connector Type	TH32FW-NH



Connector No.	M24
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



Terminal No.	Color of Wire	Signal Name [Specification]
33	W	POWER SUPPLY (SENSOR)
34	R	BAT (FUSE)
39	SB	BAT (C/B)
40	B	GND(SIGNAL)
41	Y	GND(SENSOR)
48	B	GND(POWER)

Terminal No.	Color of Wire	Signal Name [Specification]
2	LG	MIRROR SELECT SW (RH)
3	G	MIRROR SW (UPWARD)
4	V	MIRROR SW (LEFTWARD)
5	R	MIRROR SENSOR (RH VERTICAL)
6	GR	MIRROR SENSOR (LH VERTICAL)
10	V	TX (UART)
14	W	MIRROR MOTOR (RH VERTICAL)
15	G	MIRROR MOTOR (RH HORIZONTAL)
16	Y	MIRROR MOTOR (LH COMMON)
18	P	MIRROR SELECT SW (LH)
19	SB	MIRROR SW (DOWNWARD)

Terminal No.	Color of Wire	Signal Name [Specification]													
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32

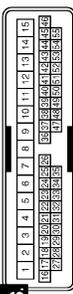
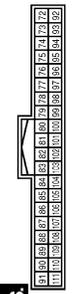
Terminal No.	Color of Wire	Signal Name [Specification]
14	P	-
6	L	-

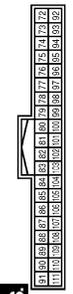
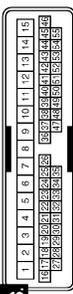
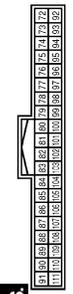
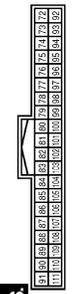
AUTOMATIC DRIVE POSITIONER CONTROL UNIT

< ECU DIAGNOSIS >

[WITH ADP]

DOOR MIRROR (WITH AUTOMATIC DRIVE POSITIONER)

Connector No.	M116	Connector No.	M118	Connector No.	M119	Terminal No.	1
Connector Name	CIRCUIT BREAKER	Connector Name	BCM (BODY CONTROL MODULE)	Connector Name	BCM (BODY CONTROL MODULE)	Color of Wire	W
Connector Type	MD2PW-P-LC	Connector Type	MD2PW-LC	Connector Type	NS38PW-CS	Terminal No.	13
						Signal Name [Specification]	BAT (FUSE)
						Signal Name [Specification]	BAT (F/L)
Terminal No.	43	Terminal No.	1	Terminal No.	11	Color of Wire	R
Color of Wire	P	Color of Wire	W	Color of Wire	13	Signal Name [Specification]	BAT (FUSE)
Terminal No.	44	Terminal No.	2	Terminal No.	13	Color of Wire	B
Color of Wire	L	Color of Wire	SB	Color of Wire	13	Signal Name [Specification]	GND

Connector No.	M122	Connector No.	M124	Terminal No.	43	Terminal No.	44
Connector Name	BCM (BODY CONTROL MODULE)	Connector Name	WIRE TO WIRE	Color of Wire	L	Color of Wire	L
Connector Type	TH40FB-NH	Connector Type	TH40MW-CS15	Terminal No.	43	Terminal No.	44
							
Terminal No.	90	Terminal No.	43	Terminal No.	44	Terminal No.	45
Color of Wire	P	Color of Wire	L	Color of Wire	Y	Color of Wire	R
Terminal No.	91	Color of Wire	W	Color of Wire	W	Color of Wire	W
Color of Wire	L	Color of Wire	W	Color of Wire	R	Color of Wire	R
Signal Name [Specification]	CAN-L	Color of Wire	G	Color of Wire	G	Color of Wire	G
Signal Name [Specification]	CAN-H	Color of Wire	W	Color of Wire	W	Color of Wire	W

JCLWM1227GE

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DOOR MIRROR DOES NOT OPERATE

[WITH ADP]

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

DOOR MIRROR DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000003136544

1. CHECK AUTOMATIC DRIVE POSITIONER SYSTEM

Check door mirror operate with automatic drive positioner system.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Check automatic drive positioner system operation. Refer to [ADP-13. "AUTOMATIC DRIVE POSITIONER SYSTEM : System Diagram"](#)

2. CHECK DOOR MIRROR REMOTE CONTROL SWITCH (MIRROR SWITCH)

Check mirror switch.

Refer to [MIR-11. "MIRROR SWITCH : Component Function Check"](#)

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. CHECK DOOR MIRROR REMOTE CONTROL SWITCH (CHANGEOVER SWITCH)

Check changeover switch.

Refer to [MIR-13. "CHANGEOVER SWITCH : Component Function Check"](#)

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-38. "Intermittent Incident"](#)

NO >> GO TO 1.

REVERSE INTERLOCK DOOR MIRROR DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH ADP]

REVERSE INTERLOCK DOOR MIRROR DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000003574051

1. CHECK DOOR MIRROR (MANUAL FUNCTION)

Check door mirror function with door mirror remote control switch.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CHECK DTC

Check DTC for TCM.

Refer to [TM-39. "Diagnosis Description"](#)

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-38. "Intermittent Incident"](#)

NO >> GO TO 1.

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SQUEAK AND RATTLE TROUBLE DIAGNOSES

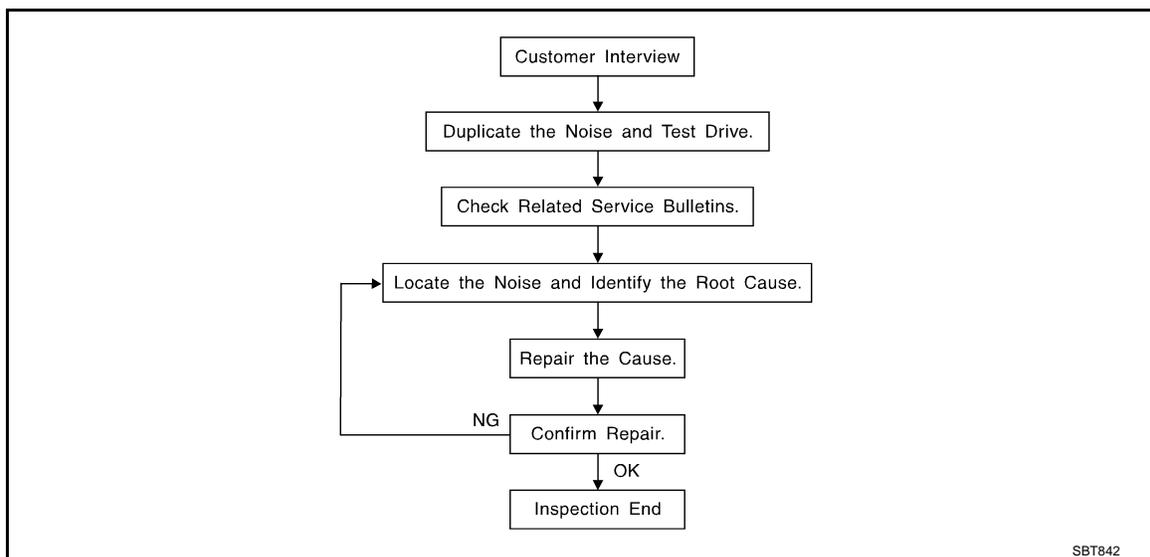
< SYMPTOM DIAGNOSIS >

[WITH ADP]

SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow

INFOID:000000003136545



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 customer's comments; refer to [MIR-46, "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, perform a diagnosis and repair the noise that the customer is concerned about. This can be accomplished by performing a cruise test on 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 bumblebee)
Buzz characteristics include high frequency rattle/firm contact.
- Often the degree of acceptable noise level will vary depending up on 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 DIAGNOSES

[WITH ADP]

< 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 models, drive position on 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 and 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-44, "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. A Nissan Squeak and Rattle Kit (J-43980) 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 following materials are contained in the Nissan Squeak and Rattle Kit (J-43980). Each item can be ordered separately as needed.

URETHANE PADS [1.5 mm (0.059 in) thick]

Insulates connectors, harness, etc.

76268-9E005: 100 × 135 mm (3.94 × 5.31 in)/76884-71L01: 60 × 85 mm (2.36 × 3.35 in)/76884-71L02: 15 × 25 mm (0.59 × 0.98 in)

INSULATOR (Foam blocks)

Insulates components from contact. Can be used to fill space behind a panel.

73982-9E000: 45 mm (1.77 in) thick, 50 × 50 mm (1.97 × 1.97 in)/73982-

50Y00: 10 mm (0.39 in) thick, 50 × 50 mm (1.97 × 1.97 in)

INSULATOR (Light foam block)

80845-71L00: 30 mm (1.18 in) thick, 30 × 50 mm (1.18 × 1.97in)

FELT CLOTHTAPE

Used to insulate where movement does not occur. Ideal for instrument panel applications.

68370-4B000: 15 × 25 mm (0.59 × 0.98 in) pad/68239-13E00: 5 mm (0.20 in) wide tape roll

The following materials, not found in the kit, can also be used to repair squeaks and rattles.

UHMW (TEFLON) TAPE

SQUEAK AND RATTLE TROUBLE DIAGNOSES

[WITH ADP]

< SYMPTOM DIAGNOSIS >

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. 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.

Inspection Procedure

INFOID:000000003136546

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

INSTRUMENT PANEL

Most incidents are caused by contact and movement between:

1. The 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 from the Nissan Squeak and Rattle Kit (J-43980) 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. The trunk lid torsion bars knocking together
4. A loose license plate or bracket

SQUEAK AND RATTLE TROUBLE DIAGNOSES

[WITH ADP]

< SYMPTOM DIAGNOSIS >

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

Cause of seat noise include:

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

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

UNDERHOOD

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

Causes of transmitted underhood noise include:

1. Any component 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 DIAGNOSES

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Diagnostic Worksheet

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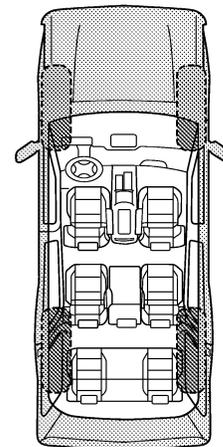
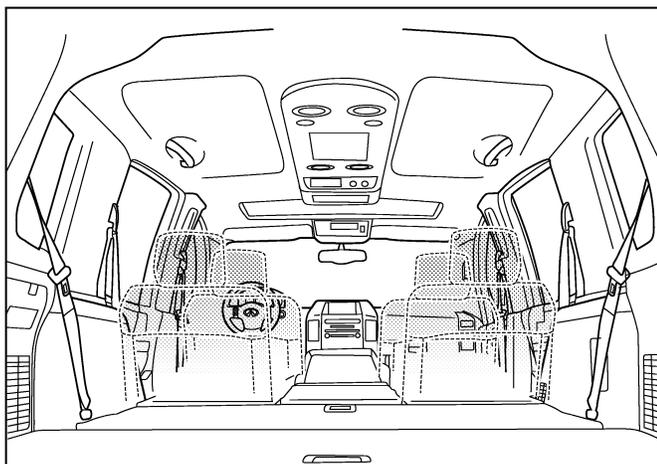
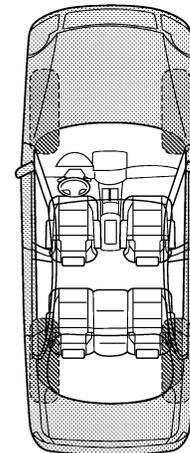
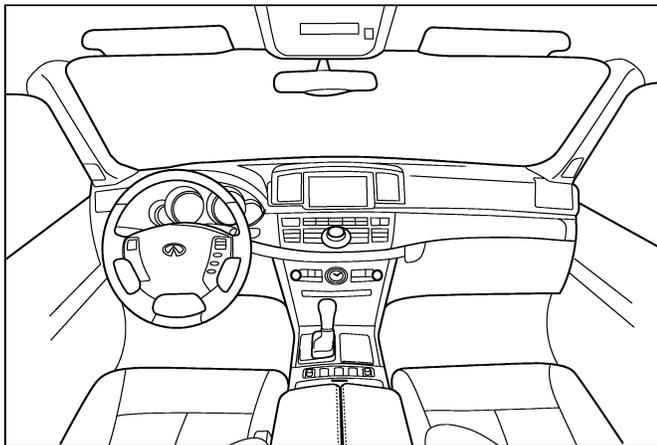
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

Dear Infiniti Customer:

We are concerned about your satisfaction with your Infiniti vehicle. Repairing a squeak or rattle sometimes can be very difficult. To help us fix your Infiniti 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 consultant or technician to ensure we confirm the noise you are hearing.

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

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



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

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SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITH ADP]

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

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PRECAUTION

PRECAUTIONS

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

INFOID:000000003136548

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

WARNING:

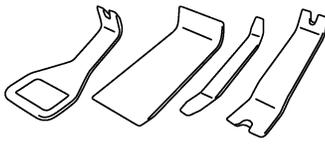
- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the "SRS AIRBAG".
- 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

Commercial Service Tools

INFOID:000000003136549

Tool name	Description
Remover tool  PIIB7923J	Remove the clip and pawl and metal clip

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INSIDE MIRROR

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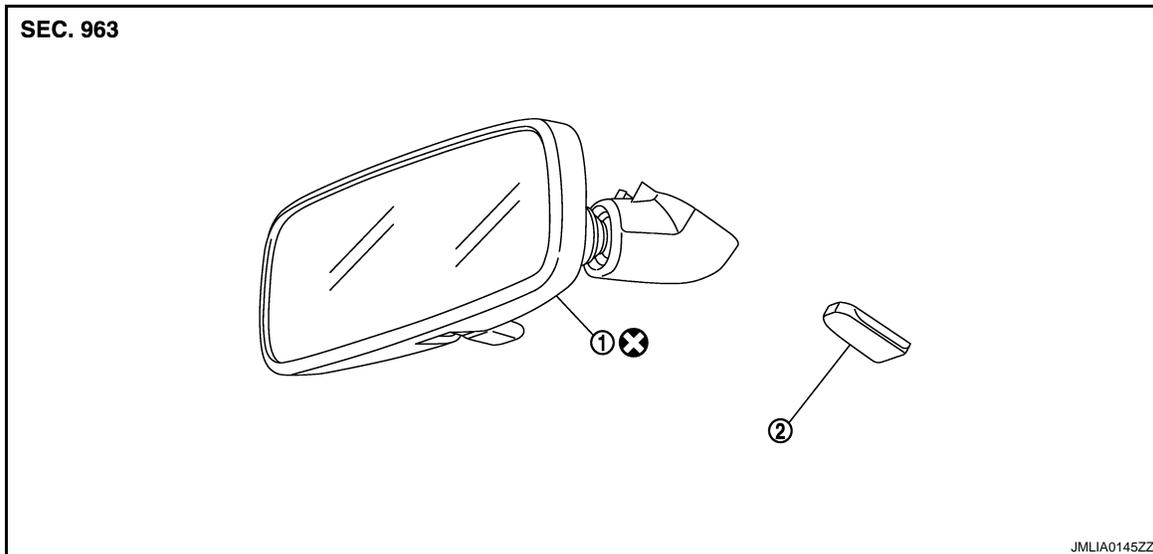
ON-VEHICLE REPAIR

INSIDE MIRROR

Exploded View

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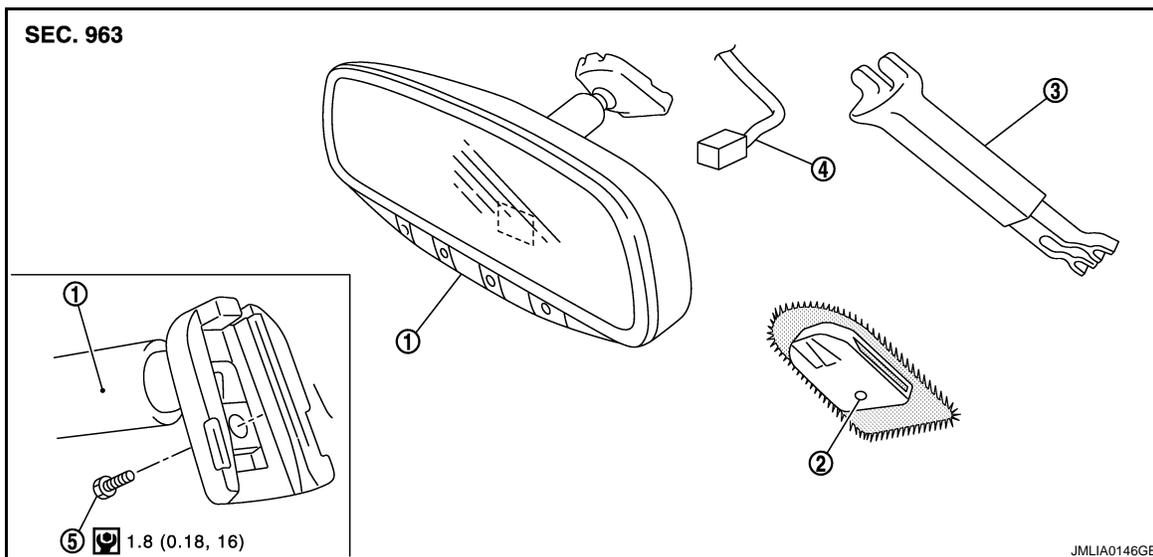
Base



- 1. Inside mirror
- 2. Mirror base

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

Option



- 1. Inside mirror
- 2. Mirror base
- 3. Inside mirror cover
- 4. Harness connector
- 5. TORX bolt

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

Removal and Installation

INFOID:000000003691816

REMOVAL

Base model

INSIDE MIRROR

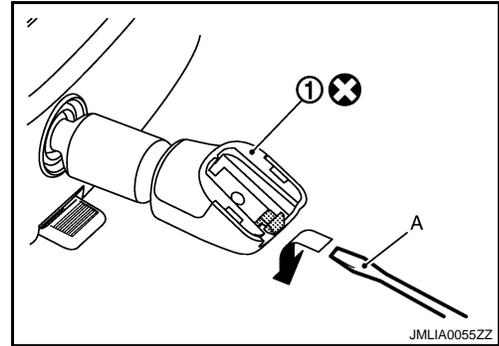
[WITH ADP]

< ON-VEHICLE REPAIR >

1. Insert minus driver (A) under the inside mirror (1).
2. Slide the inside mirror to the upper side while pushing the pawl downward.

CAUTION:

Never use excessive force to remove the inside mirror because it is inserted tightly into the mirror base.



Option model

1. Remove the inside mirror cover.
2. Remove TORX bolt.
3. Disconnect harness connector.
4. Slide the inside mirror upward to remove.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

When inserting the inside mirror into the mirror base, be sure to push the pawl until it get connected to the mirror base.

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OUTSIDE MIRROR

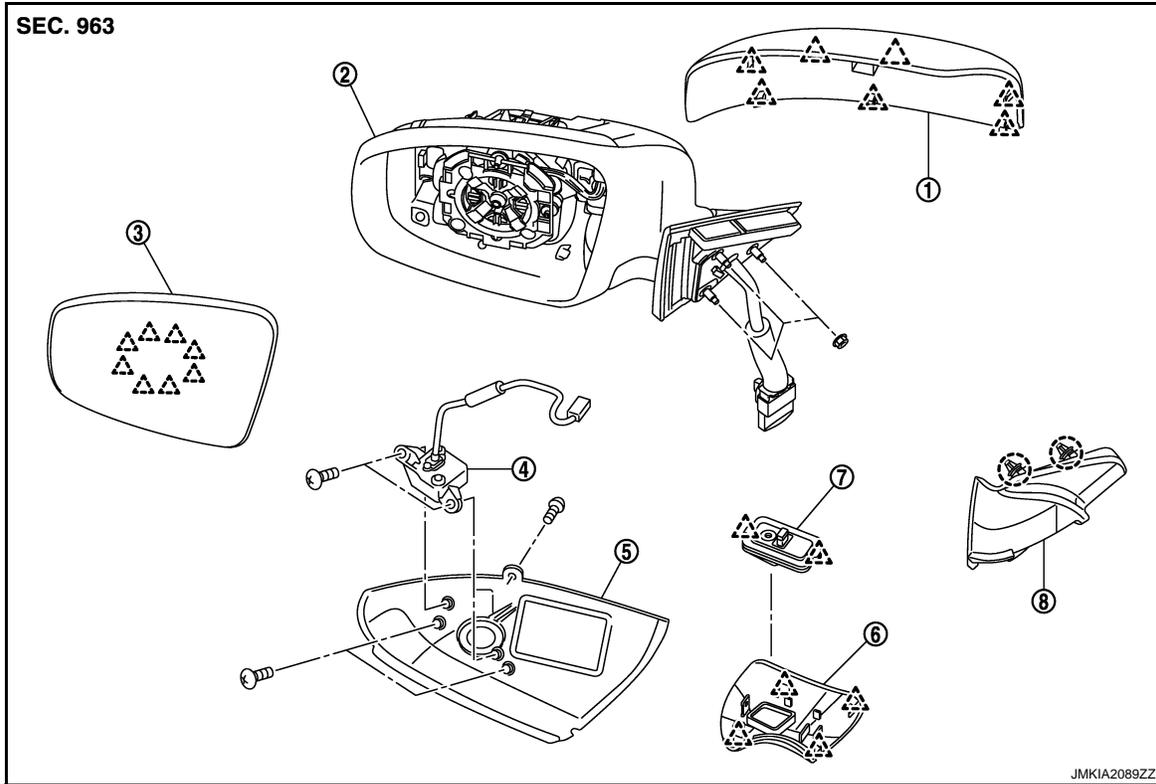
< ON-VEHICLE REPAIR >

[WITH ADP]

OUTSIDE MIRROR DOOR MIRROR ASSEMBLY

DOOR MIRROR ASSEMBLY : Exploded View

INFOID:000000003136552



- | | | |
|--|---|-----------------|
| 1. Door mirror cover | 2. Mirror assembly | 3. Glass mirror |
| 4. Side camera assembly (with side camera model) | 5. Side camera finisher assembly (with side camera model) | 6. Base cover |
| 7. Puddle lamp | 8. Corner cover | |

- : Clip
△ : Pawl

DOOR MIRROR ASSEMBLY : Removal and Installation

INFOID:000000003136553

REMOVAL

1. Remove front door finisher. Refer to [INT-11, "DRIVER SIDE : Removal and Installation"](#) (driver side) or [INT-14, "PASSENGER SIDE : Removal and Installation"](#) (passenger side).
2. Remove clips and remove corner cover.
3. Disconnect door mirror harness connector.
4. Remove door mirror mounting nuts, and remove door mirror assembly.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

Perform camera image calibration. Refer to [AV-438, "CALIBRATING CAMERA IMAGE \(AROUND VIEW MONITOR\) : Special Repair Requirement"](#).

DOOR MIRROR ASSEMBLY : Disassembly and Assembly

INFOID:000000003174530

DISASSEMBLY

OUTSIDE MIRROR

[WITH ADP]

< ON-VEHICLE REPAIR >

1. Remove door mirror cover. Refer to [MIR-55. "DOOR MIRROR COVER : Disassembly and Assembly"](#)
2. Remove side camera after removing door mirror assembly (BOSE audio with navigation model). Refer to [AV-928. "Removal and Installation"](#)(RH) or [AV-927. "Removal and Installation"](#)(LH)
3. Remove base cover and puddle lamp.

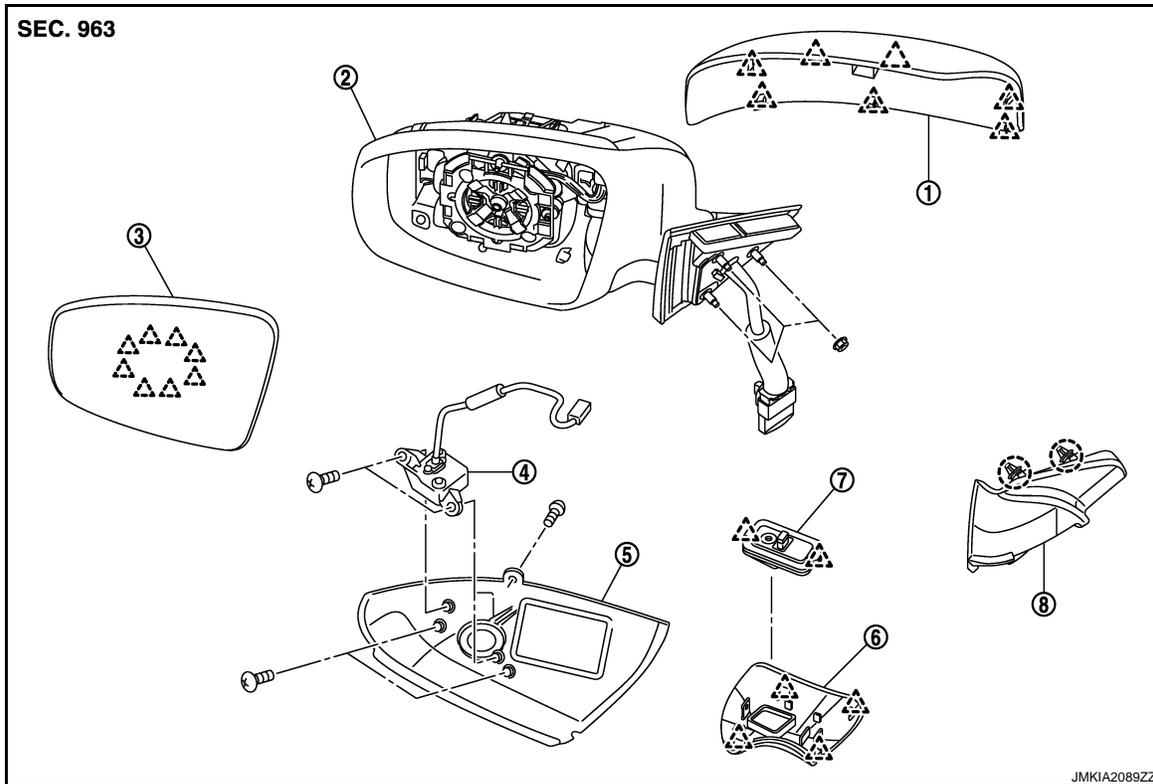
ASSEMBLY

Assemble in the reverse order of disassemble.

GLASS MIRROR

GLASS MIRROR : Exploded View

INFOID:000000003691831



- | | | |
|--|---|-----------------|
| 1. Door mirror cover | 2. Mirror assembly | 3. Glass mirror |
| 4. Side camera assembly (with side camera model) | 5. Side camera finisher assembly (with side camera model) | 6. Base cover |
| 7. Puddle lamp | 8. Corner cover | |

- : Clip
△ : Pawl

GLASS MIRROR : Disassembly and Assembly

INFOID:000000003136555

DISASSEMBLY

1. Place the glass mirror upward.
2. Put a strip of protective tape (B) on housing assembly.
3. As shown in the figure, insert a small slotted screwdriver (A) into the recess between glass mirror (1) and actuator (2). Push up both pawls (3) simultaneously to remove glass mirror lower half side.

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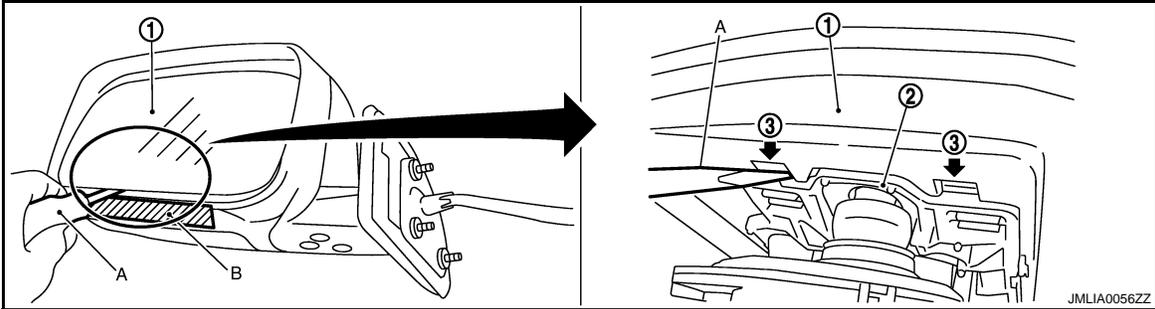
O
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OUTSIDE MIRROR

< ON-VEHICLE REPAIR >

[WITH ADP]

Insert screwdriver into recesses, and push up while rotating (twisting) to make work easier.



4. Remove two terminals of mirror heater attachment.
5. Lightly lift up lower side of glass mirror, and detach both pawls of upper side as if pulling it out. Disassemble glass mirror from actuator.

NOTE:

Be certain not to allow grease on sealing agent in center of mirror or back side of glass mirror.

ASSEMBLY

Assemble in the reverse order of disassemble.

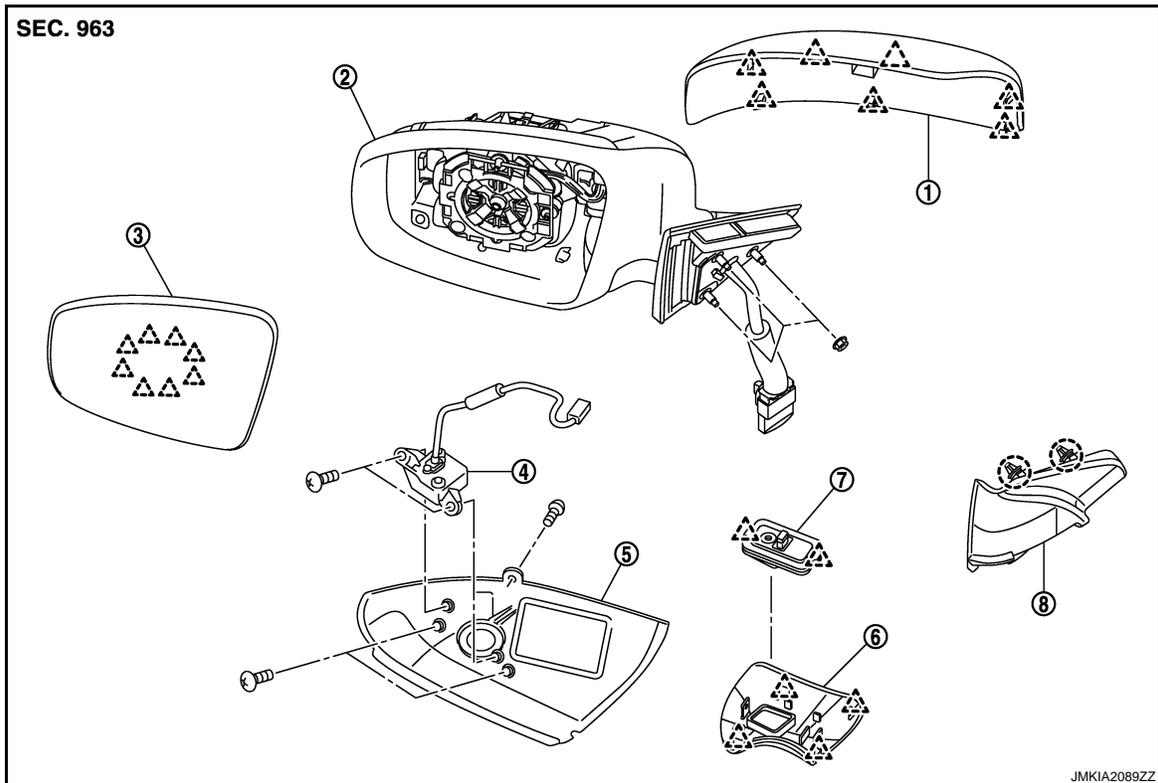
CAUTION:

After installation, visually check that pawls are securely engaged.

DOOR MIRROR COVER

DOOR MIRROR COVER : Exploded View

INFOID:000000003691832



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|--|---|-----------------|
| 1. Door mirror cover | 2. Mirror assembly | 3. Glass mirror |
| 4. Side camera assembly (with side camera model) | 5. Side camera finisher assembly (with side camera model) | 6. Base cover |
| 7. Puddle lamp | 8. Corner cover | |

- : Clip
 △ : Pawl

OUTSIDE MIRROR

< ON-VEHICLE REPAIR >

[WITH ADP]

DOOR MIRROR COVER : Disassembly and Assembly

INFOID:000000003136557

CAUTION:

Do not damage the mirror bodies.

DISASSEMBLY

1. Remove the glass mirror. Refer to [MIR-53, "GLASS MIRROR : Disassembly and Assembly"](#).
2. Remove the pawls, and disassemble the door mirror cover from the mirror assembly.

ASSEMBLY

Assemble in the reverse order of disassemble.

CAUTION:

After installation, visually check that pawls are securely engaged.

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DOOR MIRROR REMOTE CONTROL SWITCH

< ON-VEHICLE REPAIR >

[WITH ADP]

DOOR MIRROR REMOTE CONTROL SWITCH

Exploded View

INFOID:000000003136558

Refer to [INT-17, "Exploded View"](#)

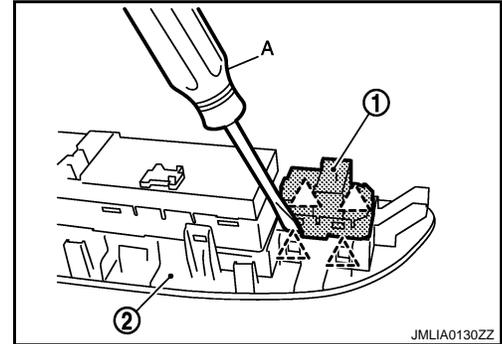
Removal and Installation

INFOID:000000003136559

REMOVAL

1. Remove the power window main switch finisher (2). Refer to [INT-11, "DRIVER SIDE : Exploded View"](#)
2. Remove door mirror remote control switch (1) from power window main switch finisher (2) using screwdriver (A).

 : Pawl



INSTALLATION

Install in the reverse order of removal.

FUNCTION DIAGNOSIS

DOOR MIRROR SYSTEM

Component Description

INFOID:000000003136560

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

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INSIDE MIRROR SYSTEM

< FUNCTION DIAGNOSIS >

[WITHOUT ADP]

INSIDE MIRROR SYSTEM

System Description

INFOID:000000003738696

The sensor built in inside mirror detects the brightness of headlight of the vehicle behind and automatically changes the light transmission to decrease the brightness.

Component Description

INFOID:000000003738697

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

DOOR MIRROR

< COMPONENT DIAGNOSIS >

[WITHOUT ADP]

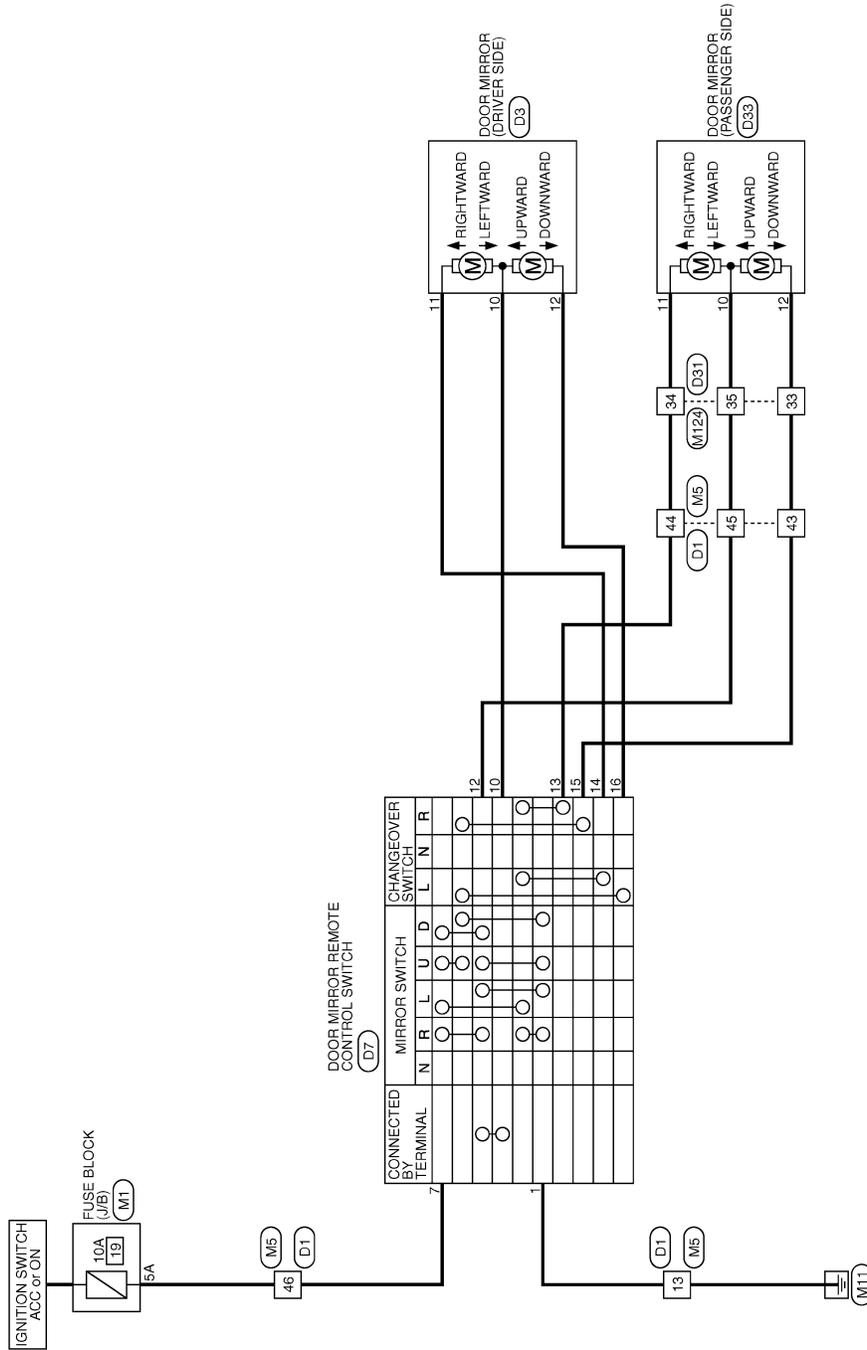
COMPONENT DIAGNOSIS

DOOR MIRROR

Wiring Diagram - DOOR MIRROR SYSTEM -

INFOID:000000003136563

DOOR MIRROR (WITHOUT AUTOMATIC DRIVE POSITIONER)



2007/10/26

JCLWM1228GE

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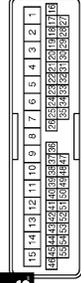
DOOR MIRROR

< COMPONENT DIAGNOSIS >

[WITHOUT ADP]

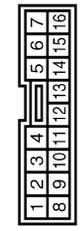
DOOR MIRROR (WITHOUT AUTOMATIC DRIVE POSITIONER)

Connector No.	D31
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
33	O	
34	GR	
35	G	

Connector No.	D7
Connector Name	DOOR MIRROR REMOTE CONTROL SWITCH (WITHOUT AUTOMATIC DRIVE POSITIONER)
Connector Type	TK18FW



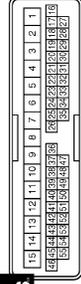
Terminal No.	Color of Wire	Signal Name [Specification]
1	B	
7	V	
10	Y	
12	G	
13	GR	
14	P	
15	O	
16	L	

Connector No.	D3
Connector Name	DOOR MIRROR (DRIVER SIDE)
Connector Type	TH24MW-NH



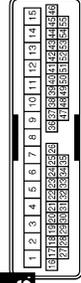
Terminal No.	Color of Wire	Signal Name [Specification]
10	Y	- [Without automatic drive positioner]
11	P	- [Without automatic drive positioner]
12	L	- [Without automatic drive positioner]

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS15



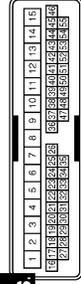
Terminal No.	Color of Wire	Signal Name [Specification]
13	B	
43	O	- [Without automatic drive positioner]
44	GR	- [Without automatic drive positioner]
45	G	- [Without automatic drive positioner]
46	V	- [Without automatic drive positioner]

Connector No.	M124
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
33	BR	
34	V	
35	G	

Connector No.	M5
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
13	B	
43	BR	
44	V	
45	G	
46	V	- [Without automatic drive positioner]

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



Terminal No.	Color of Wire	Signal Name [Specification]
5A	V	

Connector No.	D33
Connector Name	DOOR MIRROR (PASSENGER SIDE)
Connector Type	TH24MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
10	G	- [Without automatic drive positioner]
11	GR	- [Without automatic drive positioner]
12	O	- [Without automatic drive positioner]

JCLWM1229GE

AUTO ANTI-DAZZLING INSIDE MIRROR SYSTEM

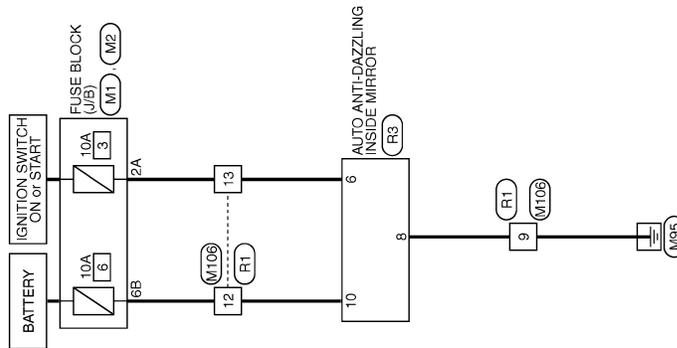
< COMPONENT DIAGNOSIS >

[WITHOUT ADP]

AUTO ANTI-DAZZLING INSIDE MIRROR SYSTEM

Wiring Diagram - INSIDE MIRROR SYSTEM -

INFOID:000000003702898



INSIDE MIRROR

2007/10/26

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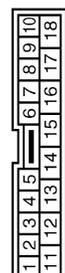
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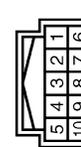
AUTO ANTI-DAZZLING INSIDE MIRROR SYSTEM

< COMPONENT DIAGNOSIS >

[WITHOUT ADP]

INSIDE MIRROR

Connector No.	M1	Connector No.	M2	Connector No.	M105	Connector No.	R1
Connector Name	FUSE BLOCK (J/B)	Connector Name	FUSE BLOCK (J/B)	Connector Name	WIRE TO WIRE	Connector Name	WIRE TO WIRE
Connector Type	NSB6FY-MZ	Connector Type	NS10FY-CS	Connector Type	TK10MP-NSB	Connector Type	TK10FW-NSB
 		 		 		 	
Terminal No.	2A	Terminal No.	6B	Terminal No.	9	Terminal No.	9
Color of Wire	G	Color of Wire	Y	Color of Wire	B	Color of Wire	B
Signal Name [Specification]	-	Signal Name [Specification]	-	Signal Name [Specification]	-	Signal Name [Specification]	-
Terminal No.		Terminal No.		Terminal No.	12	Terminal No.	12
Color of Wire		Color of Wire		Color of Wire	Y	Color of Wire	G
Signal Name [Specification]		Signal Name [Specification]		Signal Name [Specification]	-	Signal Name [Specification]	-
Terminal No.		Terminal No.		Terminal No.	13	Terminal No.	13
Color of Wire		Color of Wire		Color of Wire	BR	Color of Wire	BR
Signal Name [Specification]		Signal Name [Specification]		Signal Name [Specification]	-	Signal Name [Specification]	-

Connector No.	R3	Terminal No.	6	Terminal No.	8	Terminal No.	10
Connector Name	AUTO ANTI-DAZZLING INSIDE MIRROR	Color of Wire	BR	Color of Wire	B	Color of Wire	G
Connector Type	TH10FB-NH	Signal Name [Specification]	IGN	Signal Name [Specification]	GND	Signal Name [Specification]	BAT
 							

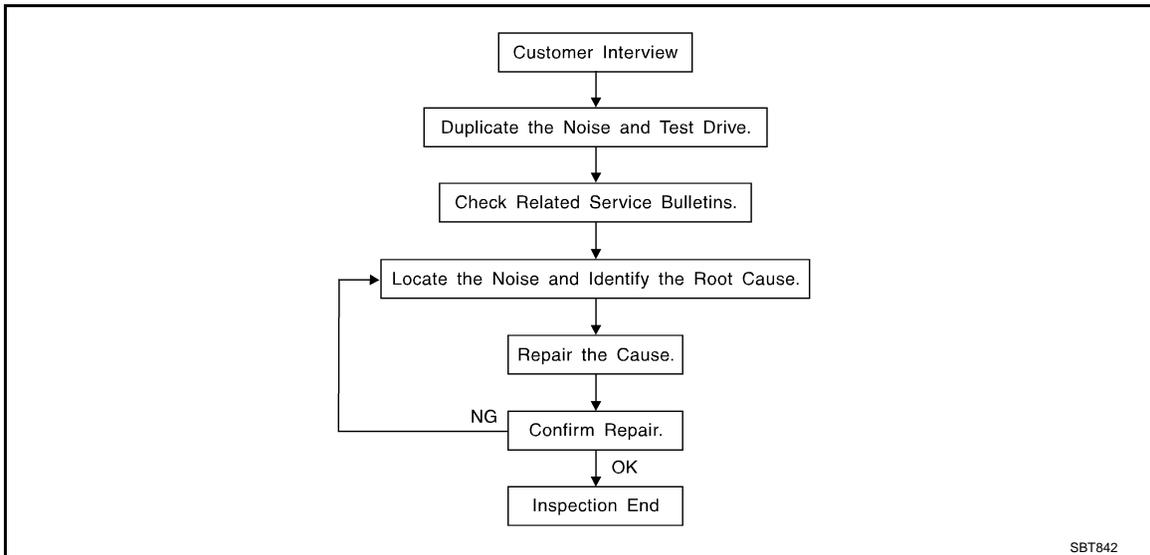
JCLWM1231GE

SYMPTOM DIAGNOSIS

SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow

INFOID:000000003136565



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 customer's comments; refer to [MIR-46. "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, perform a diagnosis and repair the noise that the customer is concerned about. This can be accomplished by performing a cruise test on 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 bumblebee)
Buzz characteristics include high frequency rattle/firm contact.
- Often the degree of acceptable noise level will vary depending up on 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 >

[WITHOUT ADP]

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 models, drive position on 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 and 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-44, "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. A Nissan Squeak and Rattle Kit (J-43980) 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 following materials are contained in the Nissan Squeak and Rattle Kit (J-43980). Each item can be ordered separately as needed.

URETHANE PADS [1.5 mm (0.059 in) thick]

Insulates connectors, harness, etc.

76268-9E005: 100 × 135 mm (3.94 × 5.31 in)/76884-71L01: 60 × 85 mm (2.36 × 3.35 in)/76884-71L02: 15 × 25 mm (0.59 × 0.98 in)

INSULATOR (Foam blocks)

Insulates components from contact. Can be used to fill space behind a panel.

73982-9E000: 45 mm (1.77 in) thick, 50 × 50 mm (1.97 × 1.97 in)/73982-

50Y00: 10 mm (0.39 in) thick, 50 × 50 mm (1.97 × 1.97 in)

INSULATOR (Light foam block)

80845-71L00: 30 mm (1.18 in) thick, 30 × 50 mm (1.18 × 1.97in)

FELT CLOTHTAPE

Used to insulate where movement does not occur. Ideal for instrument panel applications.

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITHOUT ADP]

68370-4B000: 15 × 25 mm (0.59 × 0.98 in) pad/68239-13E00: 5 mm (0.20 in) wide tape roll

The following materials, not found in the kit, 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. 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.

Inspection Procedure

INFOID:000000003136566

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

INSTRUMENT PANEL

Most incidents are caused by contact and movement between:

1. The 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 from the Nissan Squeak and Rattle Kit (J-43980) 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

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SQUEAK AND RATTLE TROUBLE DIAGNOSES

[WITHOUT ADP]

< SYMPTOM DIAGNOSIS >

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

Cause of seat noise include:

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

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

UNDERHOOD

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

Causes of transmitted underhood noise include:

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

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

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

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Diagnostic Worksheet

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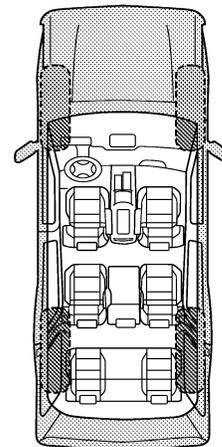
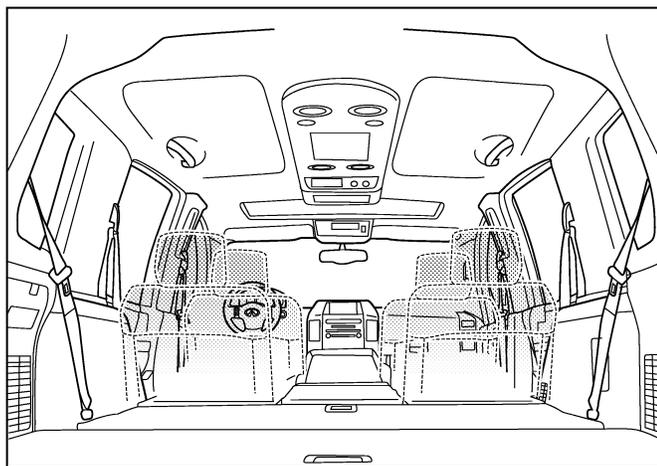
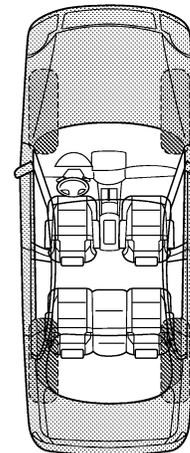
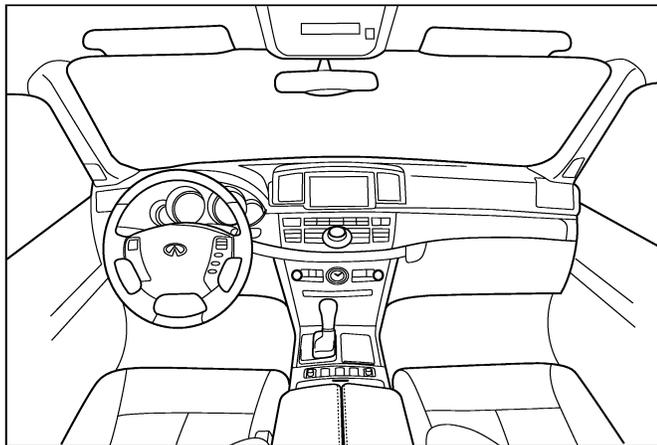
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

Dear Infiniti Customer:

We are concerned about your satisfaction with your Infiniti vehicle. Repairing a squeak or rattle sometimes can be very difficult. To help us fix your Infiniti 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 consultant or technician to ensure we confirm the noise you are hearing.

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

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



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

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SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITHOUT ADP]

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

PIIB8742E

PRECAUTION

PRECAUTIONS

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

INFOID:000000003136568

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

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the "SRS AIRBAG".
- 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.

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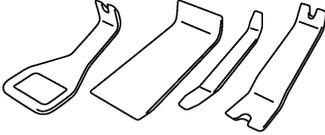
MIR

PREPARATION

PREPARATION

Commercial Service Tools

INFOID:000000003136569

Tool name	Description
Remover tool  PIIB7923J	Remove the clip and pawl and metal clip

INSIDE MIRROR

< ON-VEHICLE REPAIR >

[WITHOUT ADP]

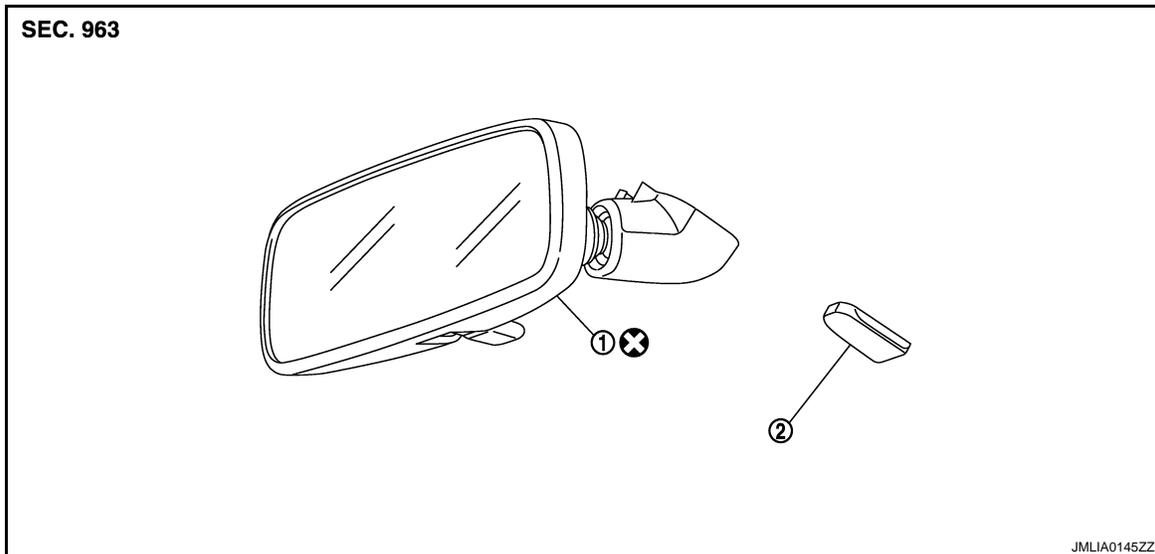
ON-VEHICLE REPAIR

INSIDE MIRROR

Exploded View

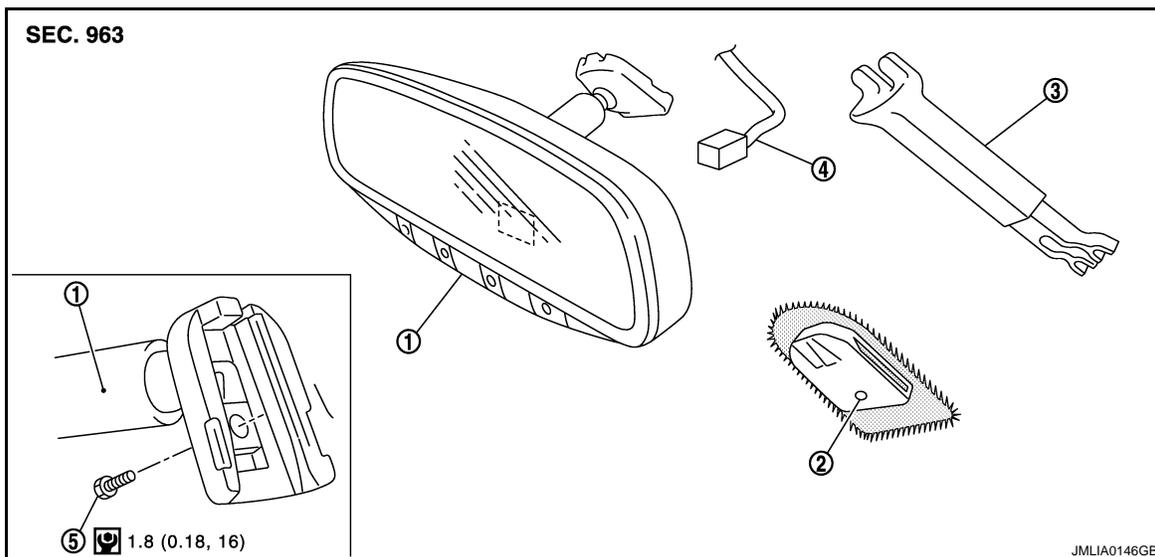
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Base



- 1. Inside mirror
 - 2. Mirror base
- Refer to [GI-4, "Components"](#) for symbols in the figure.

Option



- 1. Inside mirror
 - 2. Mirror base
 - 3. Inside mirror cover
 - 4. Harness connector
 - 5. TORX bolt
- Refer to [GI-4, "Components"](#) for symbols in the figure.

Removal and Installation

INFOID:000000003777988

REMOVAL

Base model

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MIR

INSIDE MIRROR

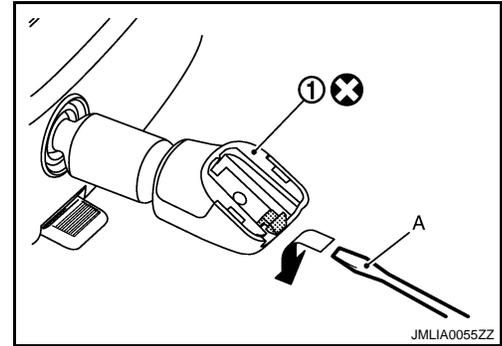
< ON-VEHICLE REPAIR >

[WITHOUT ADP]

1. Insert minus driver (A) under the inside mirror (1).
2. Slide the inside mirror to the upper side while pushing the pawl downward.

CAUTION:

Never use excessive force to remove the inside mirror because it is inserted tightly into the mirror base.



Option model

1. Remove the inside mirror cover.
2. Remove TORX bolt.
3. Disconnect harness connector.
4. Slide the inside mirror upward to remove.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

When inserting the inside mirror into the mirror base, be sure to push the pawl until it get connected to the mirror base.

OUTSIDE MIRROR

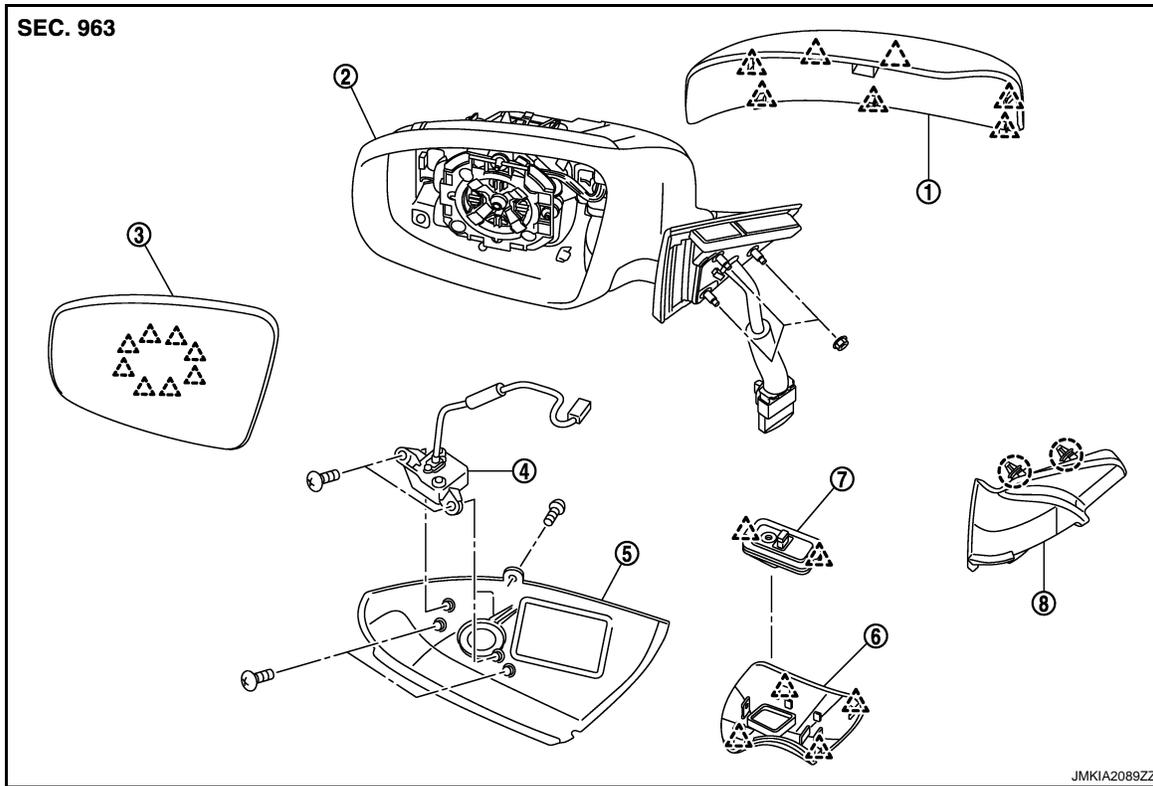
< ON-VEHICLE REPAIR >

[WITHOUT ADP]

OUTSIDE MIRROR DOOR MIRROR ASSEMBLY

DOOR MIRROR ASSEMBLY : Exploded View

INFOID:000000003777989



- | | | |
|--|---|-----------------|
| 1. Door mirror cover | 2. Mirror assembly | 3. Glass mirror |
| 4. Side camera assembly (with side camera model) | 5. Side camera finisher assembly (with side camera model) | 6. Base cover |
| 7. Puddle lamp | 8. Corner cover | |

- : Clip
△ : Pawl

DOOR MIRROR ASSEMBLY : Removal and Installation

INFOID:000000003777990

REMOVAL

1. Remove front door finisher. Refer to [INT-11, "DRIVER SIDE : Removal and Installation"](#) (driver side) or [INT-14, "PASSENGER SIDE : Removal and Installation"](#) (passenger side).
2. Remove clips and remove corner cover.
3. Disconnect door mirror harness connector.
4. Remove door mirror mounting nuts, and remove door mirror assembly.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

Perform camera image calibration. Refer to [AV-438, "CALIBRATING CAMERA IMAGE \(AROUND VIEW MONITOR\) : Special Repair Requirement"](#).

DOOR MIRROR ASSEMBLY : Disassembly and Assembly

INFOID:000000003777991

DISASSEMBLY

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OUTSIDE MIRROR

< ON-VEHICLE REPAIR >

[WITHOUT ADP]

1. Remove door mirror cover. Refer to [MIR-76. "DOOR MIRROR COVER : Disassembly and Assembly"](#)
2. Remove side camera after removing door mirror assembly (BOSE audio with navigation model). Refer to [AV-928. "Removal and Installation"\(RH\)](#) or [AV-927. "Removal and Installation"\(LH\)](#)
3. Remove base cover and puddle lamp.

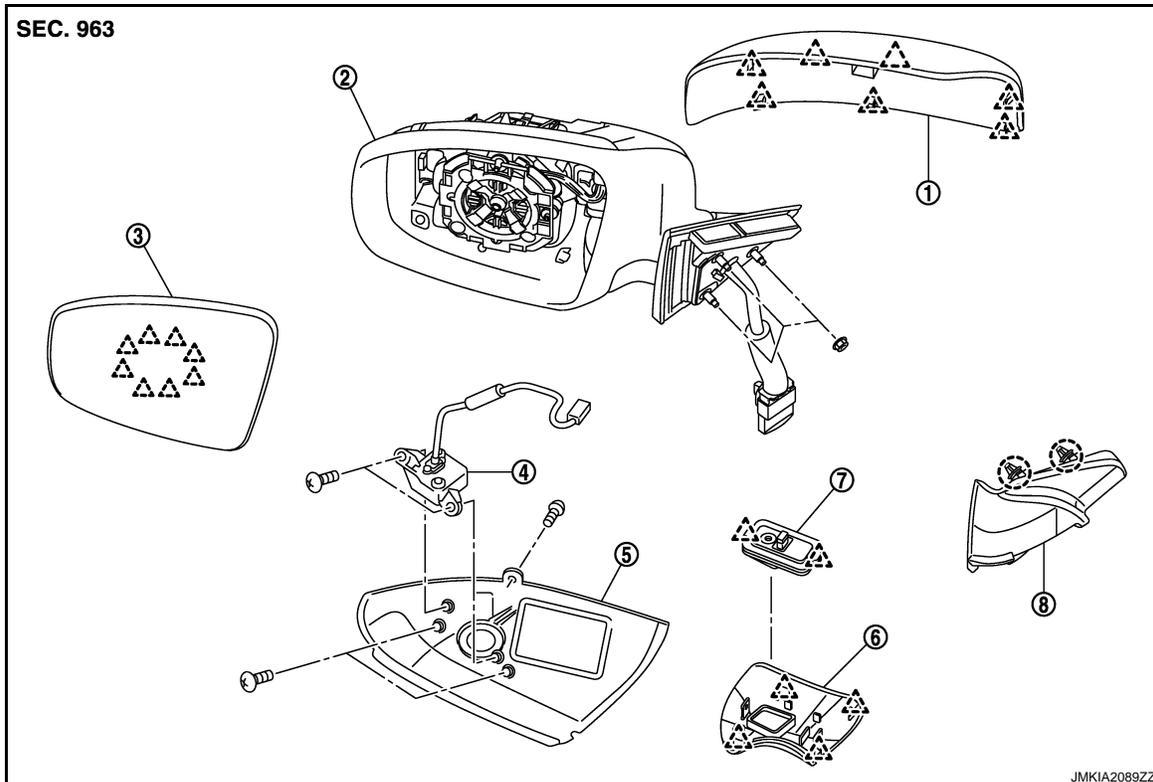
ASSEMBLY

Assemble in the reverse order of disassemble.

GLASS MIRROR

GLASS MIRROR : Exploded View

INFOID:000000003777992



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|--|---|-----------------|
| 1. Door mirror cover | 2. Mirror assembly | 3. Glass mirror |
| 4. Side camera assembly (with side camera model) | 5. Side camera finisher assembly (with side camera model) | 6. Base cover |
| 7. Puddle lamp | 8. Corner cover | |

- : Clip
△ : Pawl

GLASS MIRROR : Disassembly and Assembly

INFOID:000000003777993

DISASSEMBLY

1. Place the glass mirror upward.
2. Put a strip of protective tape (B) on housing assembly.
3. As shown in the figure, insert a small slotted screwdriver (A) into the recess between glass mirror (1) and actuator (2). Push up both pawls (3) simultaneously to remove glass mirror lower half side.

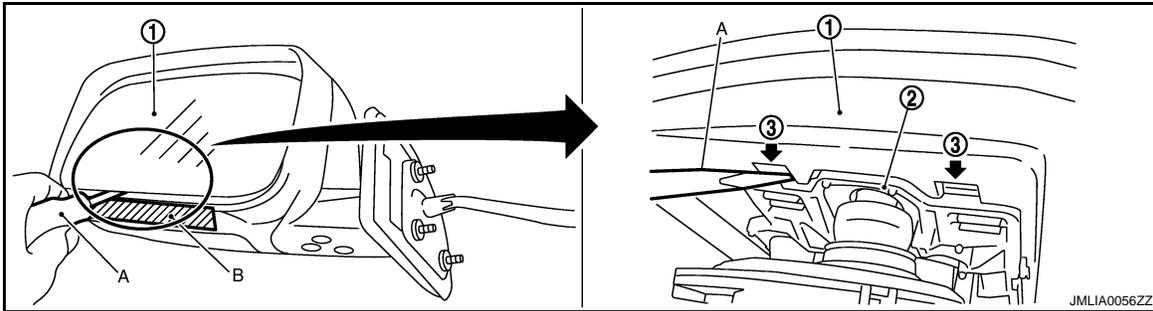
NOTE:

OUTSIDE MIRROR

< ON-VEHICLE REPAIR >

[WITHOUT ADP]

Insert screwdriver into recesses, and push up while rotating (twisting) to make work easier.



4. Remove two terminals of mirror heater attachment.
5. Lightly lift up lower side of glass mirror, and detach both pawls of upper side as if pulling it out. Disassemble glass mirror from actuator.

NOTE:

Be certain not to allow grease on sealing agent in center of mirror or back side of glass mirror.

ASSEMBLY

Assemble in the reverse order of disassemble.

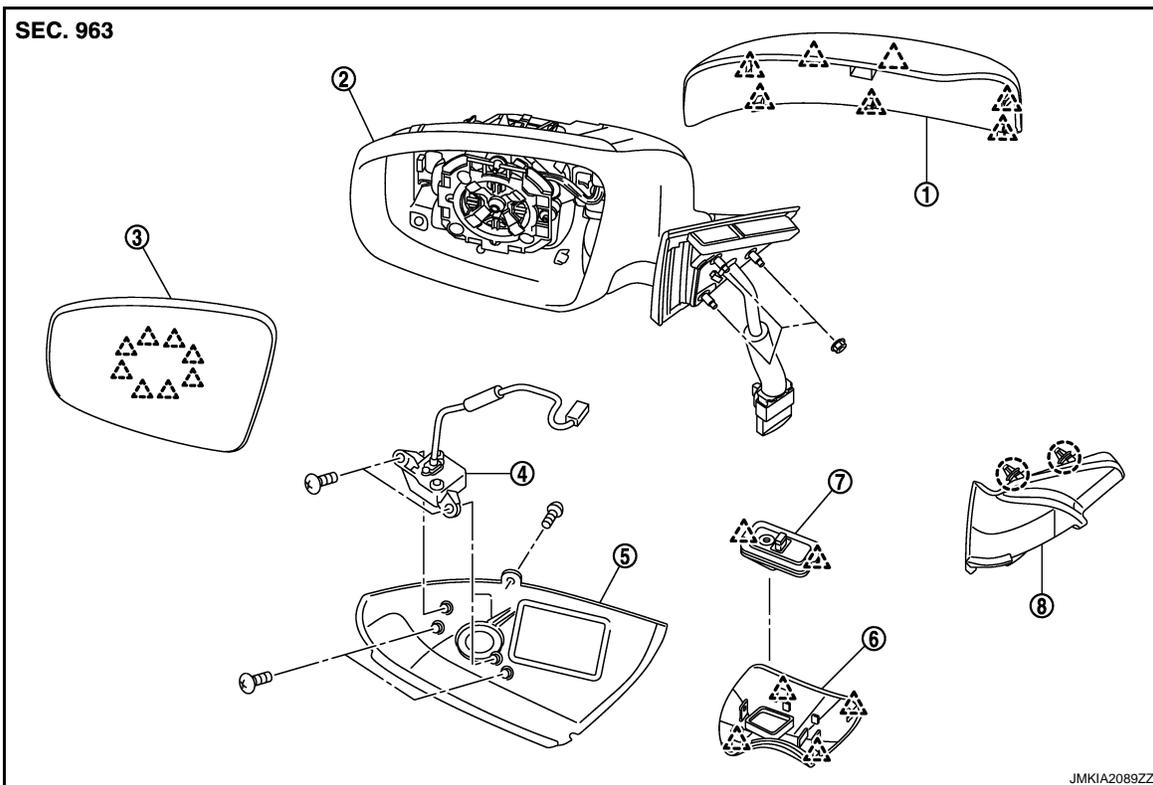
CAUTION:

After installation, visually check that pawls are securely engaged.

DOOR MIRROR COVER

DOOR MIRROR COVER : Exploded View

INFOID:000000003777994



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|--|---|-----------------|
| 1. Door mirror cover | 2. Mirror assembly | 3. Glass mirror |
| 4. Side camera assembly (with side camera model) | 5. Side camera finisher assembly (with side camera model) | 6. Base cover |
| 7. Puddle lamp | 8. Corner cover | |

- : Clip
- △ : Pawl

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MIR

OUTSIDE MIRROR

< ON-VEHICLE REPAIR >

[WITHOUT ADP]

DOOR MIRROR COVER : Disassembly and Assembly

INFOID:000000003777995

CAUTION:

Do not damage the mirror bodies.

DISASSEMBLY

1. Remove the glass mirror. Refer to [MIR-74, "GLASS MIRROR : Disassembly and Assembly"](#).
2. Remove the pawls, and disassemble the door mirror cover from the mirror assembly.

ASSEMBLY

Assemble in the reverse order of disassemble.

CAUTION:

After installation, visually check that pawls are securely engaged.

DOOR MIRROR REMOTE CONTROL SWITCH

< ON-VEHICLE REPAIR >

[WITHOUT ADP]

DOOR MIRROR REMOTE CONTROL SWITCH

Exploded View

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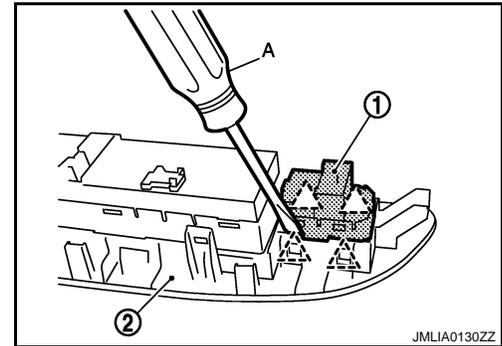
Refer to [INT-17, "Exploded View"](#)

Removal and Installation

INFOID:000000003136579

REMOVAL

1. Remove the power window main switch finisher (2). Refer to [INT-11, "DRIVER SIDE : Exploded View"](#).
2. Remove door mirror remote control switch (1) from power window main switch finisher (2) using screwdriver (A).



 : Pawl

INSTALLATION

Install in the reverse order of removal.

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