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< BASIC INSPECTION > [WITH ADP]

BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow (INFOID:000000008455754

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.

Is any DTC detected?

YES >> Refer to ADP-127, "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 "DTC/CIRCUIT DIAGNOSIS"

Perform the diagnosis with "DTC/CIRCUIT 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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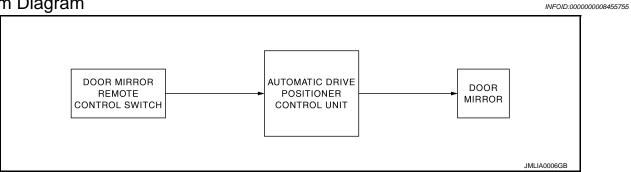
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SYSTEM DESCRIPTION

DOOR MIRROR SYSTEM

System Diagram



System Description

INFOID:0000000008455756

MANUAL FUNCTION

- Door mirror system is composed of automatic drive positioner, door mirror remote control switch and door mirror.
- Automatic drive positioner control unit controls door mirror.
- Automatic drive positioner control unit receives changeover switch signal and perform the LH/RH control of door mirror motor that supplies electric power when changeover switch is operated.
- Automatic drive positioner control unit receives mirror switch signal and supplies electric power to door mirror motor when mirror switch is operated.
- The door mirrors can be operated manually when ignition switch is in either ACC or ON position. 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.

AUTOMATIC DRIVE POSITIONER SYSTEM LINKED OPERATION

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

Refer to ADP-13, "AUTOMATIC DRIVE POSITIONER SYSTEM: System Description".

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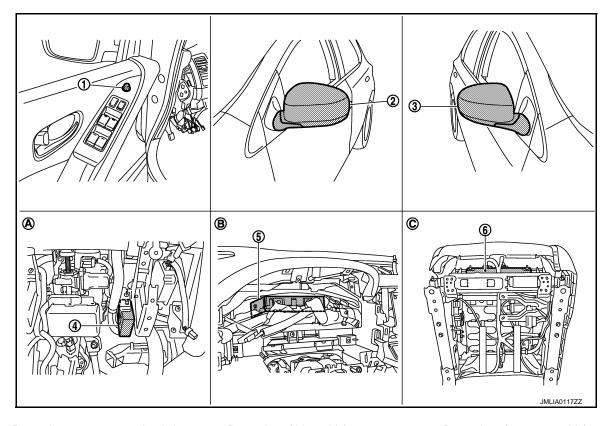
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Component Parts Location

INFOID:0000000008455757



- 1. Door mirror remote control switch
- 4. Automatic drive positioner control unit
- A. View with instrument driver lower pane removed
- 2. Door mirror (driver side)
- 5. BCM
- B. Behind the combination meter
- 3. Door mirror (passenger side)
- 6. Driver seat control unit
- C. Backside of the seat cushion

Component Description

INFOID:0000000008455758

Component Automatic drive positioner control unit		Function
		Door mirror is supplied with power after receiving the input of the MIRROR SWITCH and CHANGEOVER SWITCH.
Door mirror remote control switch	Mirror switch	It transmits mirror face adjust operation to AUTOMATIC DRIVE POSITIONER CONTROL UNIT.
SWILCH	Changeover switch	It transmits the LH/RH control of door mirror that supplies power to AUTO-MATIC 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.

INSIDE MIRROR SYSTEM

< SYSTEM DESCRIPTION > [WITH ADP]

INSIDE MIRROR SYSTEM

System Description

INFOID:0000000008455759

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

Component Description

INFOID:0000000008455760

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)

< SYSTEM DESCRIPTION >

[WITH ADP]

DIAGNOSIS SYSTEM (DRIVER SEAT CONTROL UNIT)

Diagnosis Description

INFOID:0000000008840916

The auto drive positioner system can be checked and diagnosed for component operation with CONSULT. 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 IDENTIFICATION	Displays part numbers of driver seat control unit parts.	

CONSULT Function

INFOID:0000000008840917

SELF-DIAGNOSIS RESULTS

Refer to ADP-127, "DTC Index".

DATA MONITOR

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

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.

DIAGNOSIS SYSTEM (DRIVER SEAT CONTROL UNIT)

< SYSTEM DESCRIPTION >

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Monitor Item	Unit	Main Signals	Selection From Menu	Contents
MIR CON SW-RH	"ON/OFF"	×	×	ON/OFF status judged from the door mirror remote contro switch (passenger side) signal.
MIR CON SW-LH	"ON/OFF"	×	×	ON/OFF status judged from the door mirror remote contro switch (driver side) signal.
MIR CHNG SW-R	"ON/OFF"	×	×	ON/OFF status judged from the door mirror remote contro switch (switching to right) signal.
MIR CHNG SW-L	"ON/OFF"	×	×	ON/OFF status judged from the door mirror remote contro 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) lef right is displayed.
MIR/SEN LH U-D	"V"	_	×	Voltage input from door mirror sensor (driver side) up/dowr is displayed.
MIR/SEN LH R-L	"V"	_	×	Voltage input from door mirror sensor (driver side) left/righ is displayed.
TILT PULSE	_	_	×	Value (32768) when battery connections are standard. If it moves DOWN, the value increases. If it moves UP, the value decreases.
TELESCO PULSE	_	_	×	Value (32768) when battery connections are standard. If it moves backward, the value increases. If it moves forward the value decreases.
VEHICLE SPEED	_	×	×	Display the vehicle speed signal received from combination meter by numerical value [km/h].
P RANG SW CAN	"ON/OFF"	×	×	ON/OFF status judged from the P range switch signal.
R RANGE (CAN)	"ON/OFF"	×	×	ON/OFF status judged from the R range switch signal.
DOOR SW-FL	"ON/OFF"	×	×	ON/OFF status judged from the door switch (front driver side) signal.

Revision: 2012 September MIR-9 2013 MURANO

DIAGNOSIS SYSTEM (DRIVER SEAT CONTROL UNIT)

< SYSTEM DESCRIPTION >

[WITH ADP]

Monitor Item	Unit	Main Signals	Selection From Menu	Contents	
IGN ON SW	"ON/OFF"	×	×	ON/OFF status judged from the ignition switch signal.	
ACC ON SW	"ON/OFF"	×	×	ON/OFF status judged from the ACC switch signal.	
KEY ON SW	"ON/OFF"	×	×	ON/OFF status judged from the key on switch signal.	
KEYLESS ID	_	×	×	Key ID status judged from the key ID signal.	
KYLS DR UNLK	"ON/OFF"	×	×	ON/OFF status judged from the driver side door unlock act tuator output switch signal.	
VHCL SPEED (ABS)	"ON/OFF"	×	×	ON/OFF status judged from vehicle speed signal.	
HANDLE	"RHD/LHD"	×	×	RHD/LHD status judged from handle position signal.	
TRANSMISSION	"AT or CVT/ MT"	×	×	AT or CVT/MT status judged from transmission.	
STEERING STATUS	NOTE: This item is disp	olayed, but ca	annot monito	red	

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).
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
		40 mm
SEAT SLIDE VOLUME SET	The amount of seat sliding for entry/exit assist can be selected from 3 items.	80 mm
	The field of the f	150 mm
EXIT THE SELLING	Entry/exit assist (steering column) can be selected:	ON
	ON (operated) – OFF (not operated)	OFF
EXIT SEAT SLIDE SETTING	Entry/exit assist (seat) can be selected:	ON
	ON (operated) – OFF (not operated)	OFF

DOOR MIRROR REMOTE CONTROL SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH ADP]

DTC/CIRCUIT DIAGNOSIS

DOOR MIRROR REMOTE CONTROL SWITCH MIRROR SWITCH

MIRROR SWITCH: Description

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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:0000000008455764

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.

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

Is the inspection result normal?

YES >> Mirror switch function is OK.

>> Refer to MIR-11, "MIRROR SWITCH: Diagnosis Procedure". NO

MIRROR SWITCH: Diagnosis Procedure

INFOID:0000000008455765

1. CHECK MIRROR SWITCH INPUT SIGNAL

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

·	(+) Door mirror remote control switch		Voltage (V) (Approx.)	
Connector	Terminal		,	
	4			
D14	12	Ground	5	
D14	13	Ground	5	
	15			

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK MIRROR SWITCH CIRCUIT

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

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Automatic drive po	ositioner control unit	Door mirror remote control switch		Continuity
Connector	Terminal	Connector	Terminal	Continuity
	3		15	
MZE	4	D14	13	Eviated
M75	15		12	Existed
	16		4	

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

Automatic drive positioner control unit			Continuity
Connector	Terminal		Continuity
M75	3	Ground	
	4	Giodila	Not existed
	15		Not existed
	16		

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to ADP-182, "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			Continuity
Connector	Connector Terminal		Continuity
D14	7		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-49, "Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-45, "Intermittent Incident".

>> INSPECTION END

MIRROR SWITCH: Component Inspection

INFOID:0000000008455766

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		Condition		Continuity	
Connector	Terminal			Oridition	Continuity
	4			RIGHT	Existed
	4			Other than above	Not existed
	42	7	LEFT	Existed	
D14	D14 15		Mirror switch	Other than above	Not existed
D14			Will Of Switch	UP	Existed
				Other than above	Not existed
12			DOWN	Existed	
			Other than above	Not existed	

Is the inspection result normal?

YFS >> INSPECTION END

NO >> Replace door mirror remote control switch. Refer to MIR-49, "Removal and Installation".

CHANGEOVER SWITCH

CHANGEOVER SWITCH: Description

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

1. CHECK CHANGEOVER SWITCH FUNCTION

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

Monitor item	Condition		
MIR CHNG SW-R/L	When operating the changeover toward the right or left side.	: ON	
WIII OF ING SW-IVE	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

1. CHECK CHANGEOVER SWITCH INPUT SIGNAL

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

(+)			N 16 0 0
Door mirror remote control switch		(–)	Voltage (V) (Approx.)
Connector	Terminal		(, 44, 2,)
D14	10	Ground	5
D14	11	Giodila	3

Is the inspection result normal?

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

2.CHECK CHANGEOVER SWITCH CIRCUIT

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DOOR MIRROR REMOTE CONTROL SWITCH

< DTC/CIRCUIT DIAGNOSIS > [WITH ADP]

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

Automatic drive po	ositioner control unit	Door mirror remote control switch		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M75	2	D14	11	Existed
IVI75	14	D14	10	LXISIEU

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

Automatic drive po	sitioner control unit		Continuity
Connector	ctor Terminal		Continuity
M75	2	Ground	Not existed
1017 3	14		NOT GYISTER

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to <u>ADP-182, "Removal and Installation"</u>.

NO >> Repair or replace harness.

${f 3.}$ 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			Continuity
Connector	Connector Terminal		Continuity
D14	7		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK CHANGEOVER SWITCH

Check door mirror remote control switch (changeover switch).

Refer to MIR-14, "CHANGEOVER SWITCH: Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace door mirror remote control switch (changeover switch). Refer to MIR-49, "Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-45, "Intermittent Incident".

>> INSPECTION END

CHANGEOVER SWITCH: Component Inspection

INFOID:0000000008455770

1. CHECK CHANGEOVER SWITCH

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

DOOR MIRROR REMOTE CONTROL SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH ADP]

Door	Door mirror remote control switch		Condition		Continuity
Connector Terminal		Condition		Continuity	
	10			LEFT	Existed
D14		7	Change over quitab	Other than above	Not existed
D14	11	,	Changeover switch	RIGHT	Existed
	11		,	Other than above	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace door mirror remote control switch. Refer to MIR-49. "Removal and Installation".

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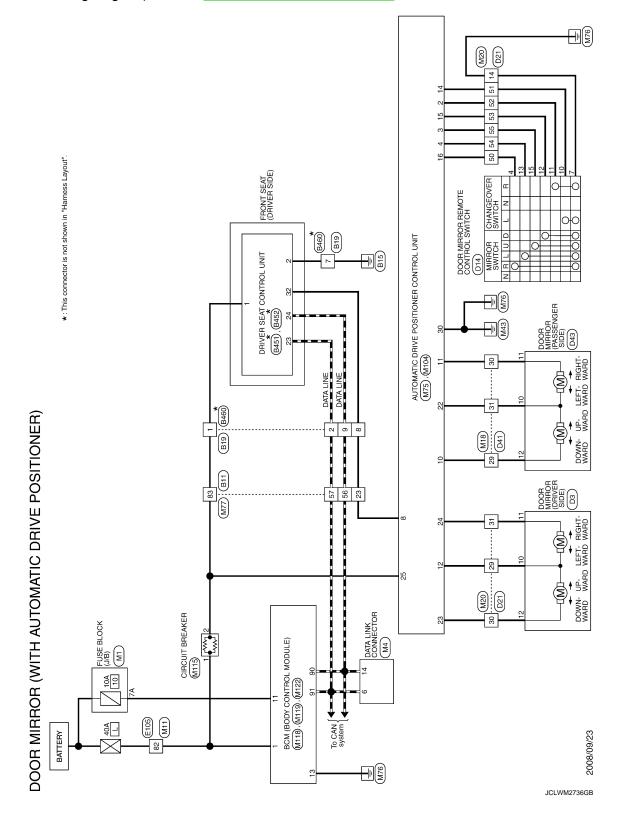
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DOOR MIRROR

Wiring Diagram - DOOR MIRROR SYSTEM (WITH AUTOMATIC DRIVE POSITION-ER) -

For connector terminal arrangements, harness layouts, and alphabets in a \bigcirc (option abbreviation; if not described in wiring diagram), refer to GI-12, "Connector Information".



AUTO ANTI-DAZZLING INSIDE MIRROR SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

[WITH ADP]

AUTO ANTI-DAZZLING INSIDE MIRROR SYSTEM

Wiring Diagram - INSIDE MIRROR SYSTEM -

INFOID:0000000008455772

For connector terminal arrangements, harness layouts, and alphabets in a \bigcirc (option abbreviation; if not described in wiring diagram), refer to GI-12, "Connector Information".

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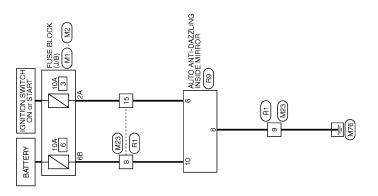
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INSIDE MIRROR

ECU DIAGNOSIS INFORMATION

DRIVER SEAT CONTROL UNIT

Reference Value

VALUES ON THE DIAGNOSIS TOOL

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

CONSULT MONITOR ITEM

Monitor Item	Condi	tion	Value/Status
SET SW	Set switch	Push	ON
SE1 3W	Set Switch	Release	OFF
MEMORY CWA	Marragra quitale 4	Push	ON
MEMORY SW1	Memory switch 1	Release	OFF
MEMORY SWO	Momory quitab 2	Push	ON
MEMORY SW2	Memory switch 2	Release	OFF
SLIDE SW-FR	Sliding switch (forward)	Operate	ON
SLIDE SW-FR	Silding Switch (forward)	Release	OFF
SLIDE SW-RR	Cliding switch (hadayard)	Operate	ON
SLIDE SW-KK	Sliding switch (backward)	Release	OFF
RECLN SW-FR	Declining quitab (forward)	Operate	ON
RECLIN SW-FR	Reclining switch (forward)	Release	OFF
RECLN SW-RR	Reclining switch (back-	Operate	ON
RECLIN SW-RR	ward)	Release	OFF
LIET ED OW LID	Lifting awitch front (up)	Operate	ON
LIFT FR SW-UP	Lifting switch front (up)	Release	OFF
LIET ED OW DN	Lifting quitch front (down)	Operate	ON
LIFT FR SW-DN	Lifting switch front (down)	Release	OFF
LIFT RR SW-UP	Lifting switch rear (up)	Operate	ON
LII I KK SW-OF	Litting Switch real (up)	Release	OFF
LIFT RR SW-DN	Lifting switch rear (down)	Operate	ON
LII I KK SW-DN	Litting Switch real (down)	Release	OFF
MIR CON SW-UP	Mirror switch	Up	ON
WIIN CON SW-OI	WIIITOI SWITCH	Other than above	OFF
MIR CON SW-DN	Mirror switch	Down	ON
WIIN CON 3W-DIN	WIIITOI SWILCII	Other than above	OFF
MIR CON SW-RH	Mirror switch	Right	ON
WIIN CON SW-NII	WIIITOI SWILCII	Other than above	OFF
MIR CON SW-LH	Mirror switch	Left	ON
WIIIX COIN SVV-LIT	WILLOL SWITCH	Other than above	OFF
MIR CHNG SW-R	Changeover switch	Right	ON
WIIN CHING SW-N	Changeover Switch	Other than above	OFF
MIR CHNG SW-L	Changeover switch	Left	ON
WIII OF ING SVV-L	Changeover Switch	Other than above	OFF

DRIVER SEAT CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[WITH ADP]

Monitor Item	Cor	ndition	Value/Status
TILT SW-UP	Tilt switch	Upward	ON
TILI SVV-UP	THE SWILCTI	Other than above	OFF
TILT SW-DOWN	Tilt switch	Downward	ON
TIET OW-DOWN	THE SWILOTT	Other than above	OFF
TELESCO SW-FR	Telescopic switch	Forward	ON
TELEGOO OW TR	Telescopie switch	Other than above	OFF
TELESCO SW-RR	Telescopic switch	Backward	ON
	Tologopio ovikon	Other than above	OFF
DETENT SW	Selector lever	P position	OFF
		Other than above	ON
STARTER SW	Ignition position	Cranking	ON
		Other than above	OFF
		Forward	The numeral value decreases *
SLIDE PULSE	Seat sliding	Backward	The numeral value increases*
		Other than above	No change to numeral value*
		Forward	The numeral value decreases*
RECLN PULSE	Seat reclining	Backward	The numeral value increases *
		Other than above	No change to numeral value*
	Seat lifter (front)	Up	The numeral value decreases *
LIFT FR PULSE		Down	The numeral value increases *
		Other than above	No change to numeral value*
	Seat lifter (rear)	Up	The numeral value decreases *
LIFT RR PULSE		Down	The numeral value increases *
		Other than above	No change to numeral value*
MIR/SEN RH U-D	Door mirror (passenger s	side)	Change between 3.4 (close to peak) 0.6 (close to valley)
MIR/SEN RH R-L	Door mirror (passenger s	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)
		Upward	The numeral value decreases *
TILT PULSE	Tilt position	Downward	The numeral value increases *
		Other than above	No change to numeral value*
		Forward	The numeral value decreases *
TELESCO PULSE	Telescopic position	Backward	The numeral value increases *
		Other than above	No change to numeral value*
STEERING STATUS	NOTE: This item is displayed, but	ut cannot be monitored	
VEHICLE SPEED	The condition of vehicle	speed is displayed	km/h
P RANG SW CAN	Selector lever	P position	ON
I NAING GVV CAIN	OGIGOLOI IGVEI	Other than above	OFF

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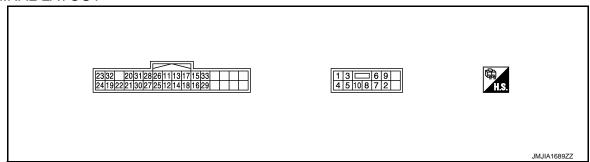
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Monitor Item	Cond	ition	Value/Status
D DANCE (CAN)	Selector lever	R position	ON
R RANGE (CAN)	Selector level	Other than above	OFF
DOOR SW-FL	Driver door	Open	ON
DOOR SW-FL	Driver door	Close	OFF
DOOR SW-FR	Doggonger door	Open	ON
DOOR SW-FR	Passenger door	Close	OFF
IGN ON SW	Ignition quitab	ON position	ON
IGN ON SW	Ignition switch	Other than above	OFF
ACC ON SW	Ignition switch	ACC or ON position	ON
ACC ON 3W		Other than above	OFF
KEY ON SW	Intelligent Key	Inserted is key slot	ON
KET ON SW		Inserted is not key slot	OFF
KEYLESS ID	UNLOCK button of Intellige	ent Key is pressed	1,2,3,4or5
KYLS DR UNLK	Intelligent Key or driver	ON	ON
KTLS DR UNLK	side door request switch	OFF	OFF
VHCL SPEED (ABS)	Can signal from ABS	Received	ON
VHCL SPEED (ABS)	Call Signal Holli ABS	Not received	OFF
HANDLE	The PCM for handle positi	on is displayed	LHD
HANDLE	The BCM for handle position	on is displayed	RHD
TRANSMISSION	Transmission type is displa	nyod	AT or CVT
INAINSIVIISSION	Transmission type is displa	iyeu -	MT

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

TERMINAL LAYOUT



PHYSICAL VALUES

	nal No. color)	Description		Condition		Condition		Voltage (V)
+	-	Signal name	Input/ Output	Condition		(Approx)		
1 (R)	Ground	Power source	Input	_		Battery voltage		
2 (B)	Ground	Ground (power)	_	_		0		
3	Ground	Sliding motor backward output signal	Output	Seat sliding	Operate (backward)	Battery voltage		
(G)		output signal			Stop	0		

DRIVER SEAT CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

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	nal No. color)	Description		•		Voltage (V)
+	-	Signal name	Input/ Output	Cond	lition	(Approx)
4 (G/R)	Ground	Sliding motor forward output signal	Output	Seat sliding	Operate (forward)	Battery voltage
					Release	0
5 (V)	Ground	Reclining motor backward output signal	Output	Seat reclining	Operate (backward)	Battery voltage
(-)		output oigna.			Stop	0
6 (R/L)	Ground	Reclining motor forward output signal	Output	Seat reclining	Operate (forward)	Battery voltage
(102)		output signal			Release	0
7 (L)	Ground	Lifting motor (rear) down output signal	Output	Seat lifting (rear)	Operate (down)	Battery voltage
(L)		output signal			Stop	0
8 (L/W)	Ground	Lifting motor (rear) up out- put signal	Output	Seat lifting (rear)	Operate (up)	Battery voltage
(L/VV)		put signal			Stop	0
9 (L/R)	Ground	Lifting motor (front) down output signal	Output	Seat lifting (front)	Operate (down)	Battery voltage
(L/K)		output signal			Stop	0
10	Ground	Lifting motor (front) up out-	Output	Seat lifting (front)	Operate (up)	Battery voltage
(L/B)		put signal			Stop	0
11 (C/B)	Ground	Sliding switch backward	Input	Sliding switch	Operate (backward)	0
(G/B)		signal		_	Release	Battery voltage
12 (G/W)	Ground	Sliding switch forward signal	Input	Sliding switch	Operate (forward)	0
(G/VV)		Hai			Release	Battery voltage
13 (R/G)	Ground	Reclining switch backward	Input	Reclining switch	Operate (backward)	0
(R/G)		signal			Release	Battery voltage
14 (R/W)	Ground	Reclining switch forward signal	Input	Reclining switch	Operate (forward)	0
(17///)		Signal			Release	Battery voltage
15 (Y/B)	Ground	Lifting switch (rear) down	Input	Lifting switch	Operate (down)	0
(1/0)		signal		(rear)	Release	Battery voltage
16 (Y/R)	Ground	Lifting switch (rear) up sig-	Input	Seat lifting switch (rear)	Operate (up)	0
(1/13)				(1001)	Release	Battery voltage
17 (LG/B)	Ground	Lifting switch (front) down signal	Input	Lifting switch (front)	Operate (down)	0
(oigilai		(HOIR)	Release	Battery voltage
18 (LG/R)	Ground	Lifting switch (front) up sig-	Input	Seat lifting switch	Operate (up)	0
(LG/K)		nal		(front)	Release	Battery voltage

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Termin	nal No.	Description				Voltage (V)
+	-	Signal name	Input/ Output	Condition		(Approx)
19 (G/Y)	Ground	Sliding sensor signal	Input	Seat sliding	Operate	10mSec/div 2V/div JMJIA0119ZZ
					Stop	0 or 5
20 (R/Y)	Ground	Reclining sensor signal	Input	Seat reclining	Operate	10mSec/div 2V/div JMJIA0119ZZ
					Stop	0 or 5
21 (L/Y)	Ground	Lifting sensor (rear) signal	Input	Seat lifting (rear)	Operate	10mSec/div 2V/div JMJIA0119ZZ
					Stop	0 or 5
22 (BR/Y)	Ground	Lifting sensor (front) signal	Input	Seat lifting (front)	Operate	10mSec/div 2V/div JMJIA0119ZZ
					Stop	0 or 5
23 (P)	_	CAN-H	_	_	_	_
24 (P/L)	_	CAN-L	_	_	_	_
25 (G/O)	Ground	Memory indictor 1 signal	Output	Memory indictor 1	Illuminate Other than above	1 Battery voltage
26					Illuminate	1
(L/O)	Ground	Memory indictor 2 signal	Output	Memory indictor 2	Other than above	Battery voltage
27	Ground	Memory switch 1 signal	Input	Memory switch 1	Press	0
(V)			•	•	Other than above	5
28 (V/W)	Ground	Memory switch 2 signal	Input	Memory switch 2	Press Other than above	<u> </u>
29	_				Press	0
(O/L)	Ground	Set switch signal	Input	Set switch	Other than above	5

DRIVER SEAT CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

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	nal No. color)	Description		Condition		Voltage (V)
+	-	Signal name	Input/ Output			(Approx)
30 (BR)	Ground	Tilt sensor signal	Input	Tilt	Operate	10mSec/div
					Other than above	0 or 5
31	Ground	Telescopic sensor signal	Input	Telescopic	Operate	
(BR/W)	Glodila	relescopic serisor signal	Input	relescopic	Other than above	0 or 5
32 (W/L)	Ground	UART communication (TX/RX)	Input	Ignition switch ON		10msec/div
33 (W)	Ground	Sensor power supply	Output	_		Battery voltage

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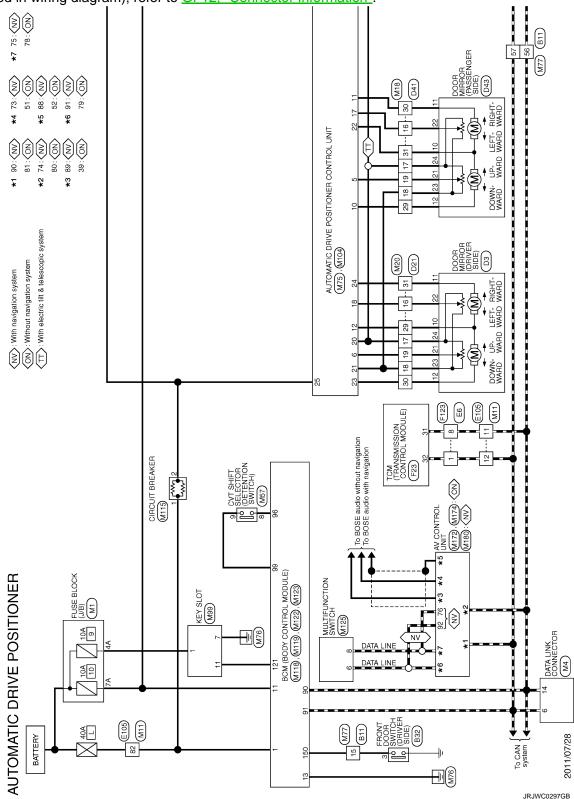
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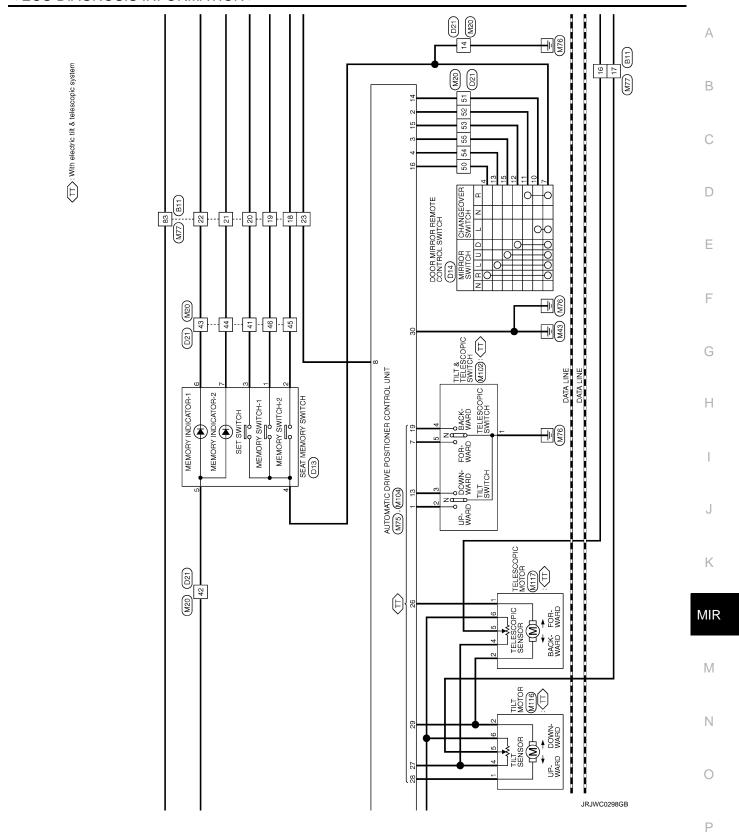
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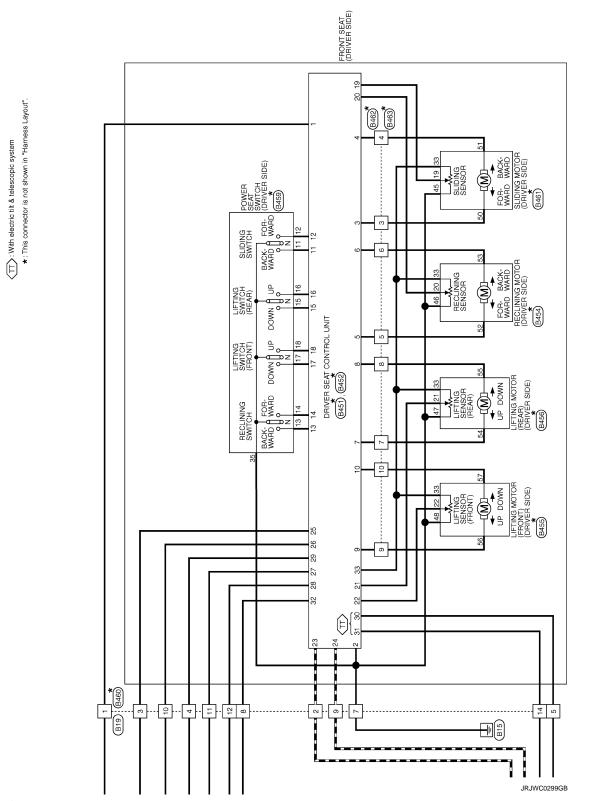
Wiring Diagram - AUTOMATIC DRIVE POSITIONER CONTROL SYSTEM -

NFOID:0000000008840911

For connector terminal arrangements, harness layouts, and alphabets in a \bigcirc (option abbreviation; if not described in wiring diagram), refer to GI-12, "Connector Information".







Fail Safe

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

DRIVER SEAT CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

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Operating in fail-safe mode	Malfunction Item	Related DTC	Diagnosis
	CAN communication	U1000	ADP-44
Only manual functions operate normally.	CONTROL UNIT	U1010	ADP-45
	EEPROM	B2130	ADP-46
Only manual functions, except door mirror, operate normally.	UART communication	B2128	<u>ADP-53</u>
Only manual functions, except seat sliding, operate normally.	Seat sliding output	B2112	ADP-47
Only manual functions, except seat reclining, operate normally.	Seat reclining output	B2113	ADP-49
Only manual functions, except steering tilt, operate normally.	Steering column tilt output	B2116	ADP-51

DTC Index

CONSULT	Tim	ing ^{*1}			
display			Item	Reference page	
CAN COMM CIRCUIT [U1000]	0	1-39	CAN communication	ADP-44	
CONTROL UNIT [U1010]	0	1-39	Control unit	ADP-45	
SEAT SLIDE [B2112]	0	1-39	Seat slide motor output	ADP-47	
SEAT RECLINING [B2113]	0	1-39	Seat reclining motor output	ADP-49	
STEERING TILT [B2116]	0	1-39	Tilt motor output	ADP-51	
UART COMM [B2128]	0	1-39	UART communication	ADP-53	
EEPROM [B2130]	0	1-39	EEPROM	ADP-46	

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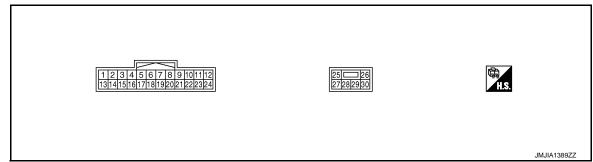
^{• 0:} Current malfunction is present

^{• 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.

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

Reference Value

TERMINAL LAYOUT



PHYSICAL VALUES

	nal No. color)	Description		Condition		Voltage (V)
+	-	Signal name	Input/ Output			(Approx.)
1	Ground	Tilt switch up signal	Input	Tilt switch	Operate (up)	0
(Y)	Giodila	Till Switch up Signal	input		Other than above	5
-		Change aver switch DII		Changesian	RH	0
2 (GR)	Ground	Changeover switch RH signal	Input	Changeover switch position	Neutral or LH	5
3	Ground	Mirror switch up signal	Input	Mirror switch	Operated (up)	0
(SB)	Ground	will of switch up signal	Прис	WIITOI SWILCIT	Other than above	5
4	Ground	Mirror switch left signal	Input	Mirror switch	Operated (left)	0
(LG)	Glound	minor switch left signal input without switch	Will of Switch	Other than above	5	
5 (R)	Ground	Door mirror sensor (pas- senger side) up/down signal	Input	Door mirror RH position		Change between 3.4 (close to peak) 0.6 (close to valley)
6 (Y)	Ground	Door mirror sensor (driver side) up/down signal	Input	Door mirror LH po	osition	Change between 3.4 (close to peak) 0.6 (close to valley)
7	Ground	Telescopic switch for-	Input	Telescopic	Operate (forward)	0
(P)	Cround	ward signal	прас	switch	Other than above	5
8 (LG)	Ground	UART communication (TX/RX)	Output	Ignition switch ON		10msec/div 5V/div JMJIA1391ZZ

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

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	inal No. color)	Description		Conditi	on	Voltage (V)
+	-	Signal name	Input/ Output	Condition		(Approx.)
10	Ground	Door mirror motor (passenger side) up output	Output	Door mirror RH	Operate (up)	Battery voltage
(GR)	Ground	signal	Output	Door Hillion Kin	Other than above	0
11	Ground	Door mirror motor (passenger side) left output	Output	Door mirror RH	Operate (left)	Battery voltage
(G)	Cround	signal	Output	Door Hillion Tall	Other than above	0
		Door mirror motor (driver side) down output sig-			Operate (down)	Battery voltage
12	Ground	nal	Output	Door mirror (LH)	Other than above	0
(R)	Giodila	Door mirror motor (driver side) right output sig-	Output	Door million (LM)	Operate (right)	Battery voltage
		nal			Other than above	0
13	Ground	Tilt switch down signal	Input	Tilt switch	Operate (down)	0
(LG)	Glound	Till Switch down signal	mpat	The Switch	Other than above	5
14 Group	Ground	d Changeover switch LH signal	Input	Input Changeover switch position	LH	0
(BG)	Ground		mpar		Neutral or RH	5
15	Ground	Mirror switch down sig-	Input	Mirror switch	Operate (down)	0
(L)	Cround	nal	mput	Will of Switch	Other than above	5
16	Ground	Mirror switch right signal	Input	Mirror switch	Operate (right)	0
(V)	Ground	Will of Switch right Signal	mput	Will Tol Switch	Other than above	5
17 (W)	Ground	Door mirror sensor (passenger side) left/right signal	Input	Door mirror RH po	osition	Change between 3.4 (close to left edge) 0.6 (close to right edge)
18 (L)	Ground	Door mirror sensor (driver side) left/right signal	Input	Door mirror LH po	osition	Change between 0.6 (close to left edge) 3.4 (close to right edge)
19 (G)	Ground	Telescopic switch back- ward signal	Input	Telescopic switch	Operate (back- ward)	0
(0)		mara digital		- CWILOIT	Other than above	5
20 (Y)	Ground	Ground	_	_		0
21 (W)	Ground	Door mirror motor sen- sor power supply	Input	_		5

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AUTOMATIC DRIVE POSITIONER CONTROL UNIT

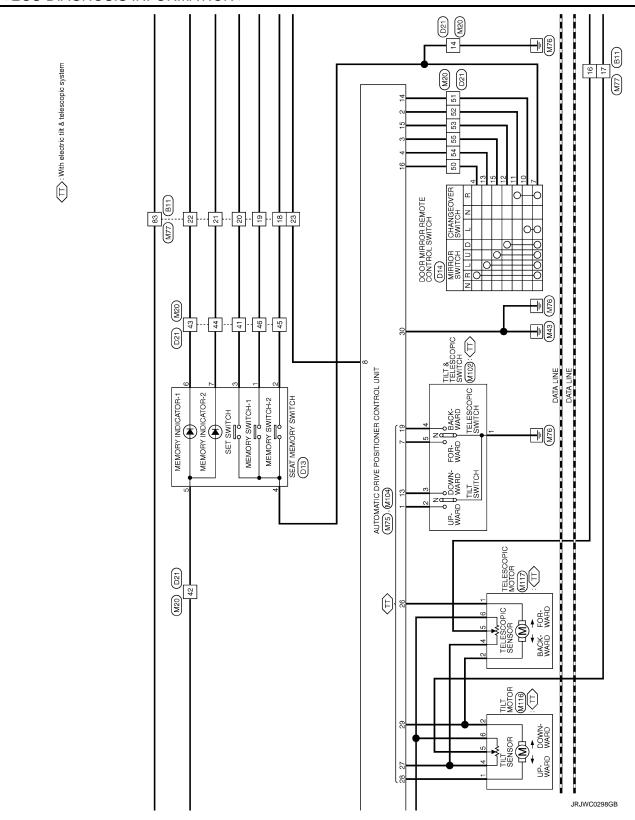
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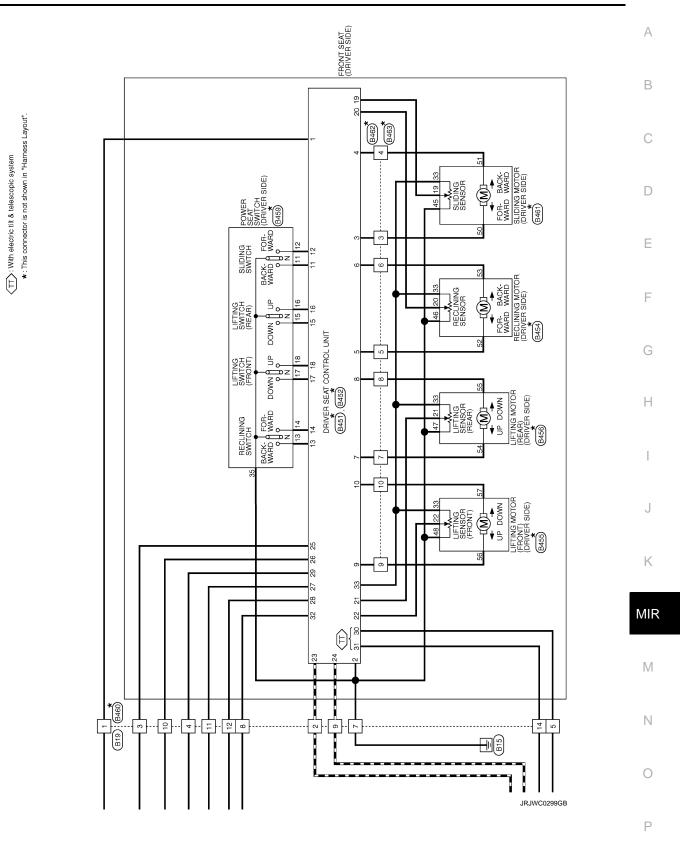
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	nal No. color)	Description		Condition		Voltage (V)
+	-	Signal name	Input/ Output			(Approx.)
		Door mirror motor (passenger side) down out-			Operate (down)	Battery voltage
22	Ground	put signal	Output	Door mirror (RH)	Other than above	0
(V)	Cround	Door mirror motor (passenger side) right output	Output	Boot minor (ran)	Operate (right)	Battery voltage
		signal			Other than above	0
23	Ground	Door mirror motor (driv-	Output	Door mirror (LH)	Operate (up)	Battery voltage
(L)	Ground	er side)up output signal	Output	Door Himtor (E.1)	Other than above	0
24	Ground	Door mirror motor (driv-	Output	Door mirror (LH)	Operate (left)	Battery voltage
(SB)		er side)left output signal	2 2 4 2 2		Other than above	0
25 (W)	Ground	Power source	Input	_		Battery voltage
26 (L)	Ground	ound Telescopic motor back- ward output signal	Output	Steering tele- scopic	Operate (back- ward)	Battery voltage
(L)				Зобрю	Other than above	0
27 (P)	Ground	Tilt&telescopic motor power source		_		Battery voltage
28	Ground	Tilt motor down output	Output	Steering tilt	Operate (down)	Battery voltage
(G)	Ground	signal	Output	Otoering till	Other than above	0
		Tilt motor up output sig-		Steering tilt	Operate (up)	Battery voltage
29	Ground	nal	Output	Otoering till	Other than above	0
(LG)	Giodila	Telescopic motor for-	Output	Steering tele-	Operate (forward)	Battery voltage
		ward output signal		scopic		0
30 (B)	Ground	Ground	_	_		0

JRJWC0297GB

Wiring Diagram - AUTOMATIC DRIVE POSITIONER CONTROL SYSTEM -For connector terminal arrangements, harness layouts, and alphabets in a (option abbreviation; if not described in wiring diagram), refer to GI-12, "Connector Information". В 75 : 87 (SON) ***** C **232323** M18 D AUTOMATIC DRIVE POSITIONER CONTROL UNIT (M75). (M104) Е F With electric tilt & telescopic system : Without navigation system : With navigation system Н 19 48 J To BOSE audio without navigation To BOSE audio with navigation CIRCUIT BREAKER (M115) K MIR FUSE BLOCK (J/B) (M1) BCM (BODY CONTROL MODULE) (M113), (M123), (M123) **AUTOMATIC DRIVE POSITIONER** MULTIFUNCTION SWITCH (M125) M KEY SLOT % \{\sqrt{2}\}{\sqrt{2}\} Ν 0 FRONT DOOR SWITCH (DRIVER SIDE) M11 (B11) 2011/07/28 BATTERY Ρ





SYMPTOM DIAGNOSIS

DOOR MIRROR DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000008455779

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 <u>ADP-13, "AUTOMATIC DRIVE POSITIONER SYSTEM: System Description".</u>

2. CHECK MIRROR SWITCH

Check door mirror remote control switch (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 CHANGEOVER SWITCH

Check door mirror remote control switch (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-45, "Intermittent Incident".

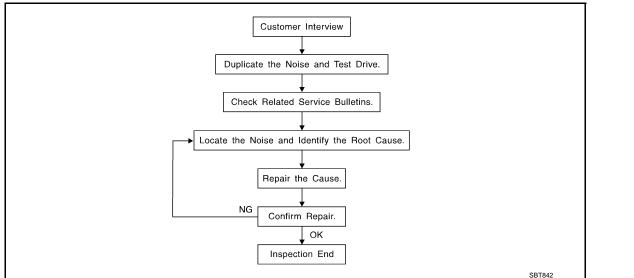
NO >> GO TO 1.

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SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow



CUSTOMER INTERVIEW

Interview the customer if possible, to determine the conditions that exist when the noise occurs. Use the Diagnostic Worksheet during the interview to document the facts and conditions when the noise occurs and any of customer's comments; refer to MIR-39, "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 a technician
 may judge as acceptable may be very irritating to the customer.
- Weather conditions, especially humidity and temperature, may have a great effect on noise level.

DUPLICATE THE NOISE AND TEST DRIVE

If possible, drive the vehicle with the customer until the noise is duplicated. Note any additional information on the Diagnostic Worksheet regarding the conditions or location of the noise. This information can be used to duplicate the same conditions when the repair is reconfirmed.

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SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

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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 is are suspected to be the cause of the noise.
 Do not use too much force when removing clips and fasteners, otherwise clips and fastener can be broken or lost during the repair, resulting in the creation of new noise.
- Tapping or pushing/pulling the component that is are suspected to be the cause of the noise.
 Do not tap or push/pull the component with excessive force, otherwise the noise will be eliminated only temporarily.
- Feeling for a vibration by hand by touching the component(s) that is are suspected to be the cause of the noise.
- Placing a piece of paper between components that are suspected to be the cause of the noise.
- Looking for loose components and contact marks. Refer to MIR-37, "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 the authorized Nissan Parts Department.

CAUTION:

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

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 $(3.94 \times 5.31$ in)/76884-71L01: 60×85 mm $(2.36 \times 3.35$ in)/76884-

71L02:15 \times 25 mm (0.59 \times 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 \times 1.97 in)/73982-

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

INSULATOR (Light foam block)

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

FELT CLOTHTAPE

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

 $68370-4B000: 15 \times 25 \text{ mm} (0.59 \times 0.98 \text{ in}) \text{ pad/}68239-13E00: 5 \text{ mm} (0.20 \text{ in}) \text{ wide tape roll}$

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

UHMW (TEFLON) TAPE

[WITH ADP] < SYMPTOM DIAGNOSIS > Insulates where slight movement is present. Ideal for instrument panel applications. SILICONE GREASE Α Used in place of UHMW tape that is be visible or does not fit. Will only last a few months. SILICONE SPRAY Used when grease cannot be applied. В **DUCT TAPE** Used to eliminate movement. CONFIRM THE REPAIR Confirm that the cause of a noise is repaired by test driving the vehicle. Operate the vehicle under the same conditions as when the noise originally occurred. Refer to the notes on the Diagnostic Worksheet. Inspection Procedure D INFOID:0000000008455781 Refer to Table of Contents for specific component removal and installation information. INSTRUMENT PANEL Е Most incidents are caused by contact and movement between: 1. The cluster lid A and instrument panel F Acrylic lens and combination meter housing Instrument panel to front pillar garnish Instrument panel to windshield Instrument panel mounting pins Wiring harnesses behind the combination meter 7. A/C defroster duct and duct joint These incidents can usually be located by tapping or moving the components to duplicate the noise or by pressing on the components while driving to stop the noise. Most of these incidents can be repaired by applying felt cloth tape or silicon spray (in hard to reach areas). Urethane pads can be used to insulate wiring harness. CAUTION: Never use silicone spray to isolate a squeak or rattle. If the area is saturated with silicone, the recheck of repair becomes impossible. CENTER CONSOLE Components to pay attention to include: K 1. Shifter assembly cover to finisher A/C control unit and cluster lid C Wiring harnesses behind audio and A/C control unit MIR The instrument panel repair and isolation procedures also apply to the center console. DOORS Pay attention to the following: Finisher and inner panel making a slapping noise Inside handle escutcheon to door finisher N Wiring harnesses tapping 4. Door striker out of alignment causing a popping noise on starts and stops Tapping or moving the components or pressing on them while driving to duplicate the conditions can isolate many of these incidents. The areas can usually be insulated with felt cloth tape or insulator foam blocks from the Nissan Squeak and Rattle Kit (J-43980) to repair the noise. TRUNK Р Trunk noises are often caused by a loose jack or loose items put into the trunk by the customer. In addition look for the following: 1. Trunk lid dumpers out of adjustment

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2. Trunk lid striker out of adjustment

4. A loose license plate or bracket

3. The trunk lid torsion bars knocking together

< SYMPTOM DIAGNOSIS >

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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:

- 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 seats in and the load placed on the seat when the noise occurs. These conditions should be duplicated when verifying and isolating the cause of the noise. Cause of seat noise include:

- Headrest rods and holder
- 2. A squeak between the seat pad cushion and frame
- 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
- Engine wall mounts and connectors
- 4. Loose radiator mounting pins
- 5. Hood bumpers out of adjustment
- Hood striker out of adjustment

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

Diagnostic Worksheet

INFOID:0000000008455782

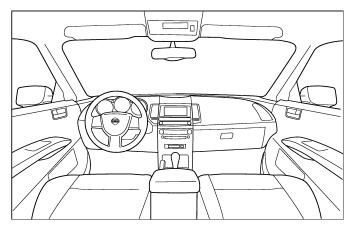


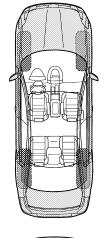
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

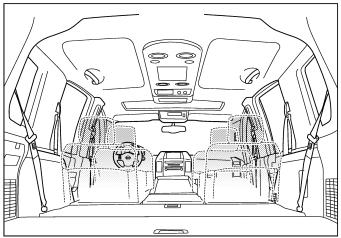
Dear Nissan Customer:

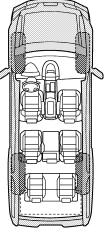
We are concerned about your satisfaction with your Nissan vehicle. Repairing a squeak or rattle sometimes can be very difficult. To help us fix your Nissan right the first time, please take a moment to note the area of the vehicle where the squeak or rattle occurs and under what conditions. You may be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

I. WHERE DOES THE NOISE COME FROM? (circle the area of the vehicle)
The illustrations are for reference only, and may not reflect the actual configuration of your vehicle.









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

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Briefly describe the location where the nois	se occurs:			
II. WHEN DOES IT OCCUR? (please chec	ck the box	es that ap	ply)	
□ anytime□ 1st time in the morning□ only when it is cold outside□ only when it is hot outside	whe	sitting oun it is rain or dusty con r:	ing or we	
III. WHEN DRIVING:	IV. WHA	AT TYPE	OF NOIS	E
 □ 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: miles or mineral 	crea	k (like wa e (like sha ck (like a k (like a cloc	lking on a king a ba knock at th ck second , muffled l	ne door) I hand) knock noise)
TO BE COMPLETED BY DEALERSHIP I Test Drive Notes:	PERSON	NEL		
		YES	NO	Initials of person performing
Vehicle test driven with customer - Noise verified on test drive - Noise source located and repaired - Follow up test drive performed to confirm	n repair			
VIN:				
W.O.#	Date	e:		

< PRECAUTION > [WITH ADP]

PRECAUTION

PRECAUTIONS FOR USA AND CANADA

FOR USA AND CANADA: Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

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 AIR BAG" and "SEAT BELT" of this Service Manual.

WARNING:

Always observe the following items for preventing accidental activation.

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see "SRS AIR BAG".
- Never use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

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

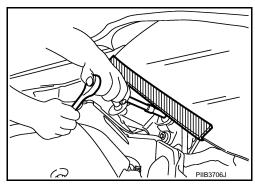
WARNING:

Always observe the following items for preventing accidental activation.

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

FOR USA AND CANADA: Precaution for Procedure without Cowl Top Cover

When performing the procedure after removing cowl top cover, cover the lower end of windshield with urethane, etc to prevent damage to windshield.



FOR USA AND CANADA: Precaution for Work

- After removing and installing the opening/closing parts, be sure to carry out fitting adjustments to check their operation.
- Check the lubrication level, damage, and wear of each part. If necessary, grease or replace it.

FOR MEXICO

FOR MEXICO: Precaution for Supplemental Restraint System (SRS) "AIR BAG" and

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"SEAT BELT PRE-TENSIONER"

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The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. Information necessary to service the system safely is included in the "SRS AIR BAG" and "SEAT BELT" of this Service Manual.

WARNING:

Always observe the following items for preventing accidental activation.

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see "SRS AIR BAG".
- Never use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

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

WARNING:

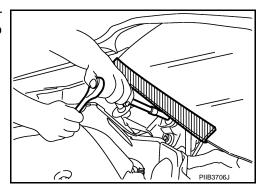
Always observe the following items for preventing accidental activation.

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

FOR MEXICO: Precaution for Procedure without Cowl Top Cover

INFOID:0000000008455787

When performing the procedure after removing cowl top cover, cover the lower end of windshield with urethane, etc to prevent damage to windshield.



FOR MEXICO: Precaution for Work

INFOID:0000000008455788

- After removing and installing the opening/closing parts, be sure to carry out fitting adjustments to check their operation.
- Check the lubrication level, damage, and wear of each part. If necessary, grease or replace it.

< PREPARATION > [WITH ADP]

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PREPARATION

PREPARATION

Special Service Tools

The actual shapes of Kent-Moore tools may differ from those of special service tools illustrated here.

(Ke	ool number nt-Moore No.) Tool name	Description
(J-39570) Chassis ear	SIIA0993E	Locates the noise
(J-43980) NISSAN Squeak and Rat- tle Kit	SIIA0994E	Repairs the cause of noise

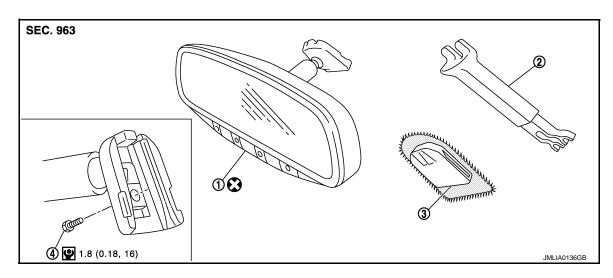
Commercial Service Tools

	Tool name	Description	-
Engine ear	SIIA0995E	Locates the noise	
Remover tool	JMKIA3050ZZ	Removes the clips, pawls, and metal clips	-
Power tool			-
	PIIB1407E		

REMOVAL AND INSTALLATION

INSIDE MIRROR

Exploded View



- 1. Inside mirror
- 2. Inside mirror cover
- 3. Mirror base

- 4. TORX bolt
- : Always replace after every disassembly.
- : N·m (kg-m, in-lb)

Removal and Installation

INFOID:0000000008455792

CAUTION:

Never reuse the inside mirror disassembled from mirror base.

REMOVAL

- 1. Remove the inside mirror cover.
- 2. Remove TORX bolt.
- 3. 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

DOOR MIRROR ASSEMBLY

DOOR MIRROR ASSEMBLY: Exploded View

INFOID:0000000008455793

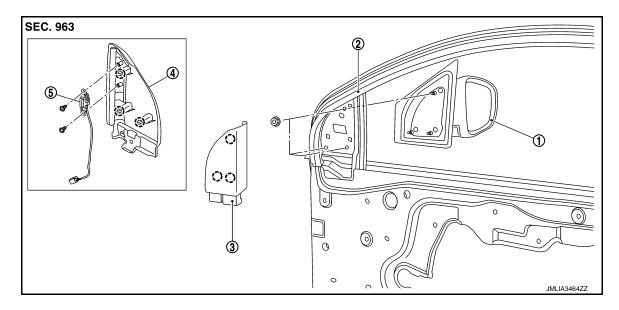
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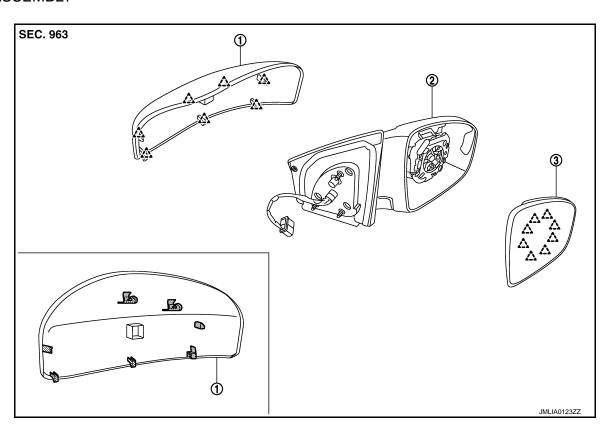
REMOVAL



- 1. Door mirror assembly
- 4. Door mirror corner cover (with BSW indicator)
- () : Clip

- 2. Front door assembly
- 5. BSW indicator assembly
- B. Door mirror corner cover

DISASSEMBLY



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- 1. Door mirror cover
- Door mirror assembly
- 3. Glass mirror



DOOR MIRROR ASSEMBLY: Removal and Installation

INFOID:0000000008455794

INFOID:0000000008455795

CAUTION:

Never damage the mirror bodies.

REMOVAL

- 1. Remove the front door finisher. Refer to INT-12, "FRONT DOOR FINISHER: Removal and Installation".
- Disconnect BSW indicator harness connector (with BSW indicator models).
- 3. Disengage the fixing clips and remove the door mirror corner cover.
- 4. Disconnect the door mirror harness connector.
- 5. Remove the door mirror mounting nuts, and remove the door mirror assembly.

INSTALLATION

Install in the reverse order of removal.

GLASS MIRROR

GLASS MIRROR: Exploded View

SEC. 963

- Door mirror cover
- 2. Door mirror assembly
- 3. Glass mirror



GLASS MIRROR: Disassembly and Assembly

INFOID:0000000008455796

CAUTION:

Never damage the mirror bodies.

DISASSEMBLY

OUTSIDE MIRROR

< REMOVAL AND INSTALLATION >

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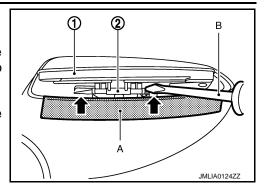
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- 1. Place the glass mirror upward.
- 2. Put a strip of protective tape (A) on the housing.
- 3. Insert flat-bladed screwdriver (B) into the recess at lower side between glass mirror (1) and actuator (2), and push up pawls to remove glass mirror lower side.

NOTE:

Insert a small slotted screwdriver into recess, and push up while rotating (twist) to make work easier.

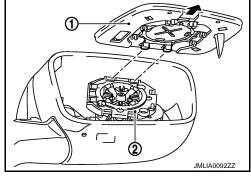


4. Insert flat-bladed screwdriver at RH/LH side between glass mirror and actuator, and push up pawls to remove glass mirror RH/LH side.

NOTE:

Insert flat-bladed screwdriver into recesses, and push up while rotating (twist) to make work easier.

- Remove two terminals of mirror heater attachment. (With heater mirror model)
- 6. Pull glass mirror as shown in the figure in order to disengage both upper pawls, and then remove glass mirror.
 - 1. Glass mirror
 - 2. Actuator



ASSEMBLY

Install in the reverse order of removal.

CAUTION:

After installation, visually check that pawls are securely engaged.

DOOR MIRROR COVER

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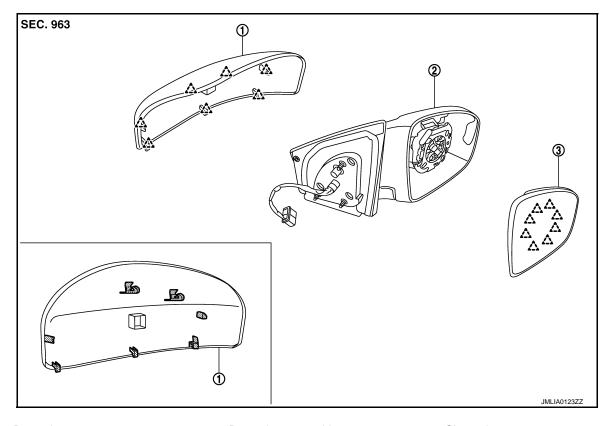
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DOOR MIRROR COVER: Exploded View

INFOID:0000000008455797



1. Door mirror cover

2. Door mirror assembly

3. Glass mirror

ےٰے: Pawl

DOOR MIRROR COVER: Disassembly and Assembly

INFOID:0000000008455798

CAUTION:

Never damage the mirror bodies.

DISASSEMBLY

- 1. Remove the glass mirror. Refer to MIR-46, "GLASS MIRROR: Disassembly and Assembly".
- 2. Remove the pawls, and disassemble the door mirror cover from the mirror assembly.

ASSEMBLY

Install in the reverse order of removal.

NOTE:

After installation, visually check that pawls are securely engaged.

DOOR MIRROR REMOTE CONTROL SWITCH

< REMOVAL AND INSTALLATION >

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DOOR MIRROR REMOTE CONTROL SWITCH

Exploded View

Refer to INT-12, "FRONT DOOR FINISHER: Exploded View".

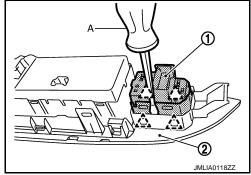
Removal and Installation

DVal and Installation INFOID:000000008455800

REMOVAL

- 1. Remove the power window main switch finisher (2). Refer to PWC-92, "Removal and Installation".
- 2. Remove door mirror remote control switch (1) from power window main switch finisher (2) using remover tool (A).





INSTALLATION

Install in the reverse order of removal.

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SYSTEM DESCRIPTION

DOOR MIRROR SYSTEM

Component Description

INFOID:0000000008455801

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.

INSIDE MIRROR SYSTEM

< SYSTEM DESCRIPTION >

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INSIDE MIRROR SYSTEM

System Description

INFOID:0000000008455802

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

Component Description

INFOID:0000000008455803

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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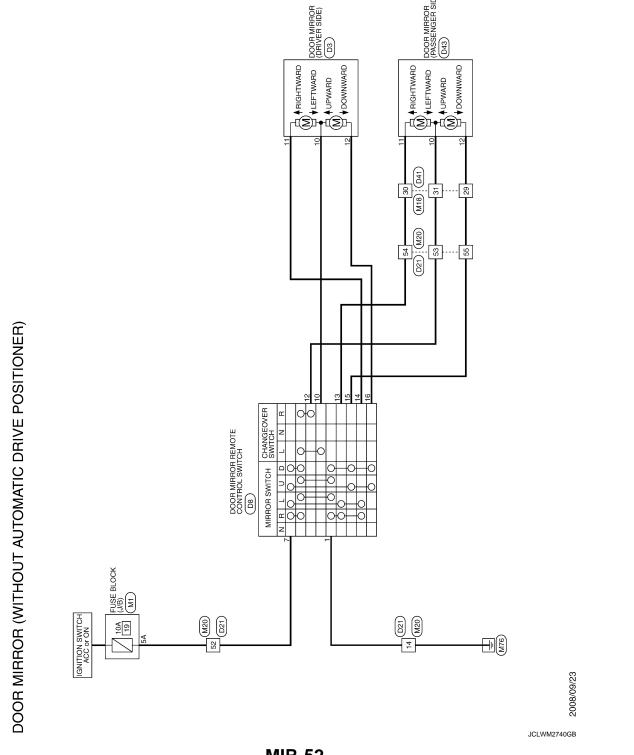
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DTC/CIRCUIT DIAGNOSIS

DOOR MIRROR

Wiring Diagram - DOOR MIRROR SYSTEM (WITHOUT AUTOMATIC DRIVE POSITIONER) -

For connector terminal arrangements, harness layouts, and alphabets in a \bigcirc (option abbreviation; if not described in wiring diagram), refer to GI-12, "Connector Information".



AUTO ANTI-DAZZLING INSIDE MIRROR SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

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AUTO ANTI-DAZZLING INSIDE MIRROR SYSTEM

Wiring Diagram - INSIDE MIRROR SYSTEM -

INFOID:0000000008455805

For connector terminal arrangements, harness layouts, and alphabets in a \bigcirc (option abbreviation; if not described in wiring diagram), refer to GI-12, "Connector Information".

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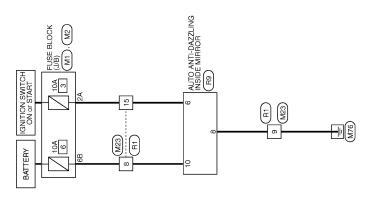
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INSIDE MIRROR

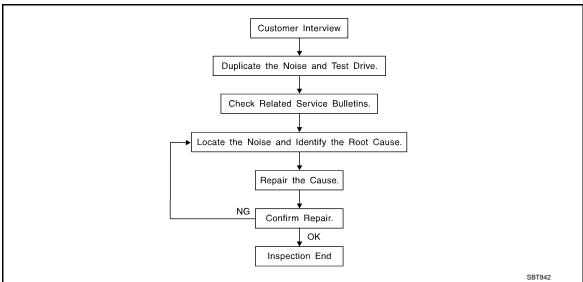
Revision: 2012 September

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SYMPTOM DIAGNOSIS

SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow



CUSTOMER INTERVIEW

Interview the customer if possible, to determine the conditions that exist when the noise occurs. Use the Diagnostic Worksheet during the interview to document the facts and conditions when the noise occurs and any of customer's comments; refer to MIR-58, "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

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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-56, "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 \times 135 mm (3.94 \times 5.31 in)/76884-71L01: 60 \times 85 mm (2.36 \times 3.35 in)/76884-

71L02:15 \times 25 mm (0.59 \times 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 \times 1.97 in)/73982-

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

INSULATOR (Light foam block)

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

FELT CLOTHTAPE

Revision: 2012 September

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

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68370-4B000: 15 imes 25 mm (0.59 imes 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

NEOID:000000000845580

Refer to Table of Contents for specific component removal and installationinformation.

INSTRUMENT PANEL

Most incidents are caused by contact and movement between:

- The cluster lid A and instrument panel
- 2. Acrylic lens and combination meter housing
- 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:

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

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

DOORS

Pay attention to the:

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

- Trunk lid dumpers out of adjustment
- 2. Trunk lid striker out of adjustment

[WITHOUT ADP] < SYMPTOM DIAGNOSIS > The trunk lid torsion bars knocking together A loose license plate or bracket Most of these incidents can be repaired by adjusting, securing or insulating the item(s) or component(s) caus-

SUNROOF/HEADLINING

ing the noise.

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

- Sunroof lid, rail, linkage or seals making a rattle or light knockingnoise
- 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 consistof insulating with felt cloth tape.

SEATS

When isolating seat noise it's important to note the position the seatis 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:

- Headrest rods and holder
- 2. A squeak between the seat pad cushion and frame
- 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 orapplying urethane tape to the contact area.

UNDERHOOD

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

Causes of transmitted underhood noise include:

- Any component mounted to the engine wall
- 2. Components that pass through the engine wall
- Engine wall mounts and connectors
- Loose radiator mounting pins
- Hood bumpers out of adjustment
- 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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Diagnostic Worksheet

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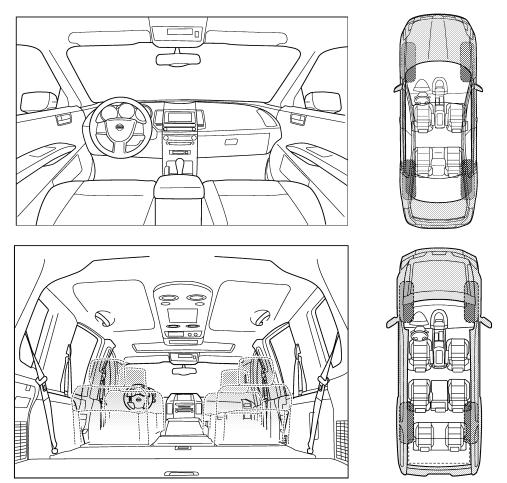
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

Dear Nissan Customer:

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

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

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



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

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II. WHEN DOES IT OCCUR? (please cl	heck the boxes that apply)	
anytime	after sitting out in the rain	
1st time in the morning	when it is raining or wet	
only when it is cold outside	dry or dusty conditions	
only when it is hot outside	other:	
III. WHEN DRIVING:	IV. WHAT TYPE OF NOISE	
through driveways	squeak (like tennis shoes on a clean floor)	
over rough roads	creak (like walking on an old wooden floor)	
over speed bumps	rattle (like shaking a baby rattle)	
only about mph	knock (like a knock at the door)	
on acceleration	tick (like a clock second hand)	
☐ coming to a stop☐ on turns: left, right or either (circle)	☐ thump (heavy, muffled knock noise)☐ buzz (like a bumble bee)	
☐ with passengers or cargo	Duzz (like a bullible bee)	
other:		
☐ after driving miles or m	- ninutes	
TO DE COMBI ETED DV DE M EDOLU	D DEDOCUME!	
	PPERSONNEL	
	PPERSONNEL	
	P PERSONNEL	
	PPERSONNEL	
	YES NO Initials of person performing	
Test Drive Notes:	YES NO Initials of person	
Test Drive Notes:	YES NO Initials of person	
Test Drive Notes: Vehicle test driven with customer	YES NO Initials of person	
Vehicle test driven with customer - Noise verified on test drive	YES NO Initials of person performing	
Vehicle test driven with customer - Noise verified on test drive - Noise source located and repaired - Follow up test drive performed to confi	YES NO Initials of person performing U U U U U U U U U U U U U U U U U U U	
Vehicle test driven with customer - Noise verified on test drive - Noise source located and repaired - Follow up test drive performed to confi	YES NO Initials of person performing	
Vehicle test driven with customer - Noise verified on test drive - Noise source located and repaired - Follow up test drive performed to confi	YES NO Initials of person performing	
- Noise source located and repaired - Follow up test drive performed to confi VIN:	YES NO Initials of person performing	

< PRECAUTION > [WITHOUT ADP]

PRECAUTION

PRECAUTIONS FOR USA AND CANADA

FOR USA AND CANADA: Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

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 AIR BAG" and "SEAT BELT" of this Service Manual.

WARNING:

Always observe the following items for preventing accidental activation.

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see "SRS AIR BAG".
- Never use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

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

WARNING:

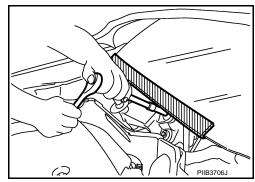
Always observe the following items for preventing accidental activation.

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

FOR USA AND CANADA: Precaution for Procedure without Cowl Top Cover

INFOID:0000000008455810

When performing the procedure after removing cowl top cover, cover the lower end of windshield with urethane, etc to prevent damage to windshield.



FOR USA AND CANADA: Precaution for Work

INFOID:0000000008455811

- After removing and installing the opening/closing parts, be sure to carry out fitting adjustments to check their operation.
- Check the lubrication level, damage, and wear of each part. If necessary, grease or replace it.

FOR MEXICO

FOR MEXICO: Precaution for Supplemental Restraint System (SRS) "AIR BAG" and

< PRECAUTION > [WITHOUT ADP]

"SEAT BELT PRE-TENSIONER"

INFOID:0000000008455812

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. Information necessary to service the system safely is included in the "SRS AIR BAG" and "SEAT BELT" of this Service Manual.

WARNING:

Always observe the following items for preventing accidental activation.

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal
 injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag
 Module, see "SRS AIR BAG".
- Never use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

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

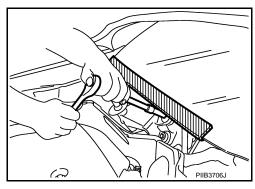
WARNING:

Always observe the following items for preventing accidental activation.

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

FOR MEXICO: Precaution for Procedure without Cowl Top Cover

When performing the procedure after removing cowl top cover, cover the lower end of windshield with urethane, etc to prevent damage to windshield.



FOR MEXICO: Precaution for Work

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- After removing and installing the opening/closing parts, be sure to carry out fitting adjustments to check their operation.
- · Check the lubrication level, damage, and wear of each part. If necessary, grease or replace it.

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Special Service Tools

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The actual shapes of Kent-Moore tools may differ from those of special service tools illustrated here.

Tool number (Kent-Moore No.) Tool name		Description
(J-39570) Chassis ear	SIIAO993E	Location the noise
(J-43980) NISSAN Squeak and Rattle Kit	SIIA0994E	Repairing the cause of noise

Commercial Service Tools

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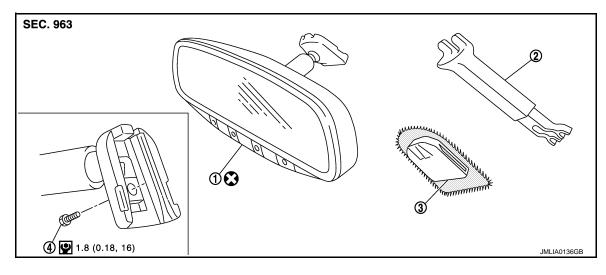
Tool name		Description
Engine ear	SIIA0995E	Locating the noise
Remover tool	PIIB7923J	Remove clips, pawls, metal clips
Power tool	PIIB1407E	

INFOID:0000000008455817

REMOVAL AND INSTALLATION

INSIDE MIRROR

Exploded View



- 1. Inside mirror
- 2. Inside mirror cover
- Mirror base

- 4. TORX bolt
- : Always replace after every disassembly.
- : N·m (kg-m, in-lb)

Removal and Installation

Never reuse the inside mirror disassembled from mirror base.

REMOVAL

CAUTION:

- 1. Remove the inside mirror cover.
- 2. Remove TORX bolt.
- 3. 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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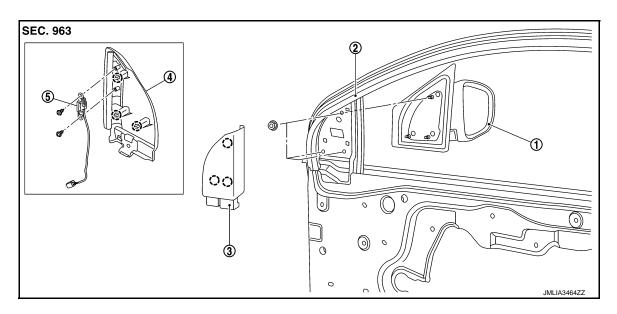
OUTSIDE MIRROR

DOOR MIRROR ASSEMBLY

DOOR MIRROR ASSEMBLY: Exploded View

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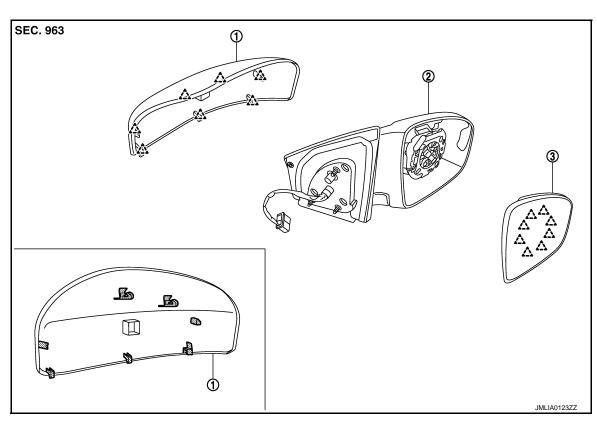
REMOVAL



- 1. Door mirror assembly
- Door mirror corner cover (with BSW indicator)
- (_) : Clip

- Front door assembly
- 5. BSW indicator assembly
- 3. Door mirror corner cover

DISASSEMBLY



- Door mirror cover
- 2. Door mirror assembly
- 3. Glass mirror

^`_ : Pawl

DOOR MIRROR ASSEMBLY: Removal and Installation

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CAUTION:

Never damage the mirror bodies.

REMOVAL

- 1. Remove the front door finisher. Refer to INT-12, "FRONT DOOR FINISHER: Removal and Installation".
- Disconnect BSW indicator harness connector (with BSW indicator models).
- 3. Disengage the fixing clips and remove the door mirror corner cover.
- 4. Disconnect the door mirror harness connector.
- 5. Remove the door mirror mounting nuts, and remove the door mirror assembly.

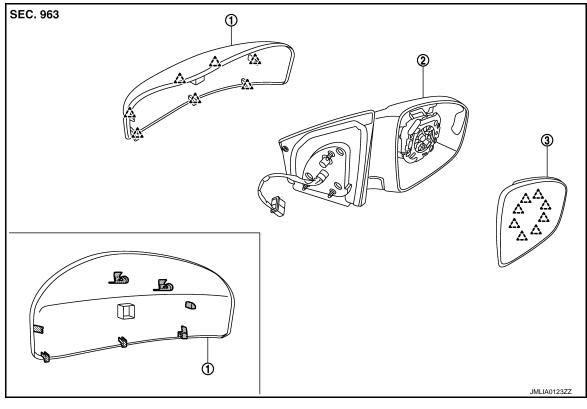
INSTALLATION

Install in the reverse order of removal.

GLASS MIRROR

GLASS MIRROR: Exploded View

INFOID:000000000845582



- . Door mirror cover
- 2. Door mirror assembly
- 3. Glass mirror

: Pawl

GLASS MIRROR: Disassembly and Assembly

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CAUTION:

Never damage the mirror bodies.

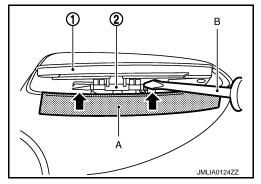
DISASSEMBLY

< REMOVAL AND INSTALLATION >

- 1. Place the glass mirror upward.
- 2. Put a strip of protective tape (A) on the housing.
- Insert flat-bladed screwdriver (B) into the recess at lower side between glass mirror (1) and actuator (2), and push up pawls to remove glass mirror lower side.

NOTE:

Insert a small slotted screwdriver into recess, and push up while rotating (twist) to make work easier.

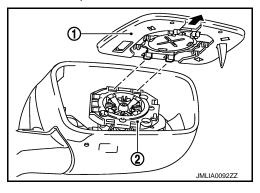


Insert flat-bladed screwdriver at RH/LH side between glass mirror and actuator, and push up pawls to remove glass mirror RH/LH side.

NOTE:

Insert flat-bladed screwdriver into recesses, and push up while rotating (twist) to make work easier.

- 5. Remove two terminals of mirror heater attachment. (With heater mirror model)
- 6. Pull glass mirror as shown in the figure in order to disengage both upper pawls, and then remove glass mirror.
 - 1. Glass mirror
 - 2. Actuator



ASSEMBLY

Install in the reverse order of removal.

CAUTION:

After installation, visually check that pawls are securely engaged.

DOOR MIRROR COVER

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DOOR MIRROR COVER: Exploded View

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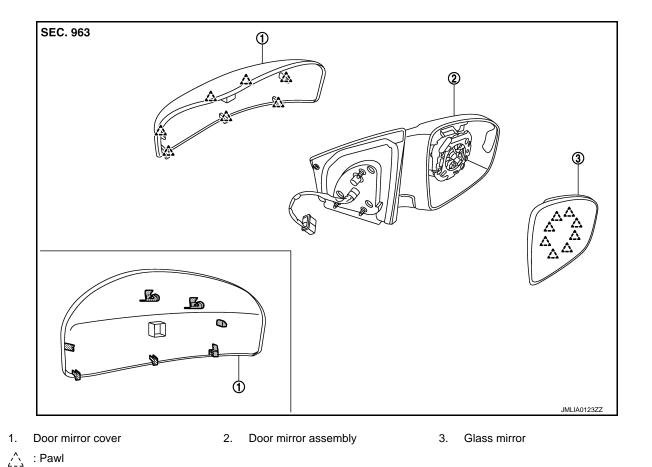
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DOOR MIRROR COVER: Disassembly and Assembly

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CAUTION:

Never damage the mirror bodies.

DISASSEMBLY

- Remove the glass mirror. Refer to MIR-65, "GLASS MIRROR: Disassembly and Assembly".
- Remove the pawls, and disassemble the door mirror cover from the mirror assembly.

ASSEMBLY

Install in the reverse order of removal.

NOTE:

After installation, visually check that pawls are securely engaged.

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DOOR MIRROR REMOTE CONTROL SWITCH

< REMOVAL AND INSTALLATION >

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DOOR MIRROR REMOTE CONTROL SWITCH

Exploded View

Refer to INT-12, "FRONT DOOR FINISHER: Exploded View".

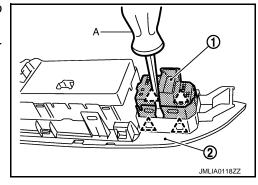
Removal and Installation

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REMOVAL

- 1. Remove the power window main switch finisher (2). Refer to PWC-92, "Removal and Installation".
- 2. Remove door mirror remote control switch (1) from power window main switch finisher (2) using remover tool (A).





INSTALLATION

Install in the reverse order of removal.