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### **DIAGNOSIS AND REPAIR WORKFLOW**

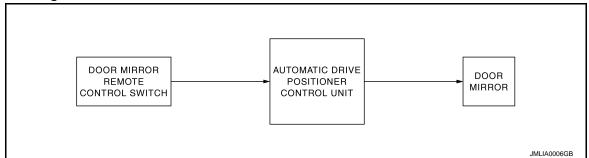
[WITH ADP] < BASIC INSPECTION > **BASIC INSPECTION** Α DIAGNOSIS AND REPAIR WORKFLOW Work Flow INFOID:0000000002993833 **DETAILED FLOW** 1. OBTAIN INFORMATION ABOUT SYMPTOM Interview the customer to obtain the malfunction information (conditions and environment when the malfunction occurred) as much as possible when the customer brings the vehicle in. D >> GO TO 2. 2. CHECK DTC Е Perform self-diagnosis for automatic drive positioner (ADP) with CONSULT-III. Is any DTC detected? F YES >> Refer to MIR-27, "DTC Index" NO >> GO TO 3.  $3.\mathsf{REPRODUCE}$  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. Н >> GO TO 4. f 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.  ${f 5}.$ IDENTIFY MALFUNCTIONING PARTS WITH "COMPONENT DIAGNOSIS" Perform the diagnosis with "Component diagnosis" of the applicable system. >> GO TO 6. MIR 6.REPAIR OR REPLACE THE MALFUNCTIONING PARTS Repair or replace the specified malfunctioning parts. M >> GO TO 7. 7. FINAL CHECK Ν 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. Р

# SYSTEM DESCRIPTION

### DOOR MIRROR SYSTEM

### System Diagram

INFOID:0000000002993834



# System Description

INFOID:0000000002993835

### Automatic drive positioner linked operation

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

Refer to ADP-17, "AUTOMATIC DRIVE POSITIONER SYSTEM: System Description".

#### Manual operation

- Door mirror system is composed of automatic drive positioner (ADP), door mirror remote control switch and door mirror.
- Automatic drive positioner (ADP) control unit controls door mirror.
- Automatic drive positioner (ADP) 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.

#### INPUT/OUTPUT SIGNAL CHART

Switch	Input signal to ADP	ADP function	Acutuator
Mirror switch	Mirror switch signal	Door mirror motor control	Door mirror motor
Changeover switch	Changeover switch signal	Door militor motor control	Door militor motor

# **Component Parts Location**

INFOID:0000000002993836

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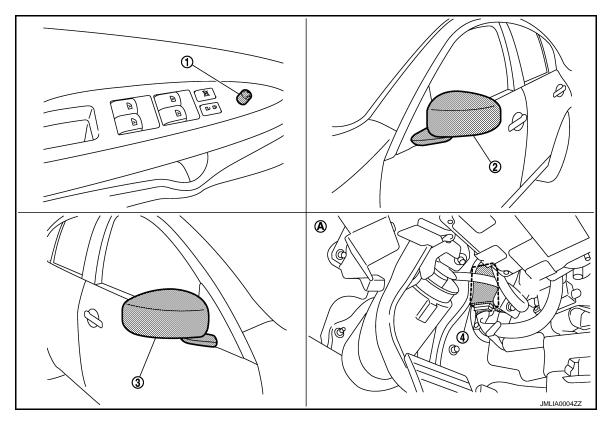
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- Door mirror remote control switch D17
- 4. Automatic drive positioner control unit M51, M52
- View with instrument driver lower panel removed
- 2. Door mirror (driver side) D3
- 3. Door mirror (passenger side) D33

# **Component Description**

INFOID:0000000002993837

Component	Function
Automatic drive positioner control unit	Door mirror is supplied with power after receiving the input of the MIRROR SWITCH and CHANGEOVER SWITCH.
Mirror switch	It transmits mirror face adjust operation to AUTOMATIC DRIVE POSITIONER CONTROL UNIT.
Changeover switch	It transmits the LH/RH control of door mirror that supplies power to AUTOMATIC DRIVE PO- SITIONER CONTROL UNIT.
Door mirror	It makes mirror face operate from side to side and up and down via integrated motor.

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### **INSIDE MIRROR SYSTEM**

< SYSTEM DESCRIPTION >

[WITH ADP]

# **INSIDE MIRROR SYSTEM**

# System Description

INFOID:0000000002993838

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:0000000002993839

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.

# **DIAGNOSIS SYSTEM (DRIVER SEAT C/U)**

< SYSTEM DESCRIPTION >

[WITH ADP]

# DIAGNOSIS SYSTEM (DRIVER SEAT C/U)

# **Diagnosis Description**

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

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

# **CONSULT-III Function**

INFOID:0000000003034971

SELF-DIAGNOSIS RESULTS Refer to <u>ADP-152</u>, "DTC Index".

**DATA MONITOR** 

Н

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

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Monitor Item	Unit	Main Signals	Selection From Menu	Contents
MIR CHNG SW-R	"ON/OFF"	×	×	ON/OFF status judged from the door mirror remote control switch (switching to right) signal.
MIR CHNG SW-L	"ON/OFF"	×	×	ON/OFF status judged from the door mirror remote control switch (switching to left) signal.
TILT SW-UP	"ON/OFF"	×	×	ON/OFF status judged from the tilt switch (up) signal.
TILT SW-DOWN	"ON/OFF"	×	×	ON/OFF status judged from the tilt switch (down) signal.
TELESCO SW-FR	"ON/OFF"	×	×	ON/OFF status judged from the telescoping switch (forward) signal.
TELESCO SW-RR	"ON/OFF"	×	×	ON/OFF status judged from the telescoping switch (backward) signal.
DETENT SW*1	"ON/OFF"	×	×	The selector lever position "OFF (P position) / ON (other than P position)" judged from the detention switch signal.
PARK BRAKE SW*2	"ON/OFF"	×	×	The parking brake condition "ON (applied) / OFF (release)" judged from the parking brake switch signal.
STARTER SW	"ON/OFF"	×	×	Ignition key switch ON (START, ON) /OFF (ACC, OFF) status judged from the ignition switch signal.
SLIDE PULSE	_	_	×	Value (32768) when battery connections are standard. If it moves backward, the value increases. If it moves forward, the value decreases.
RECLN PULSE	_	-	×	Value (32768) when battery connections are standard. If it moves backward, the value increases. If it moves forward, the value decreases.
LIFT FR PULSE	_	-	×	Value (32768) when battery connections are standard. If it moves DOWN, the value increases. If it moves UP, the value decreases.
LIFT RR PULSE	_	_	×	Value (32768) when battery connections are standard. If it moves DOWN, the value increases. If it moves UP, the value decreases.
MIR/SEN RH U-D	"V"	_	×	Voltage input from door mirror sensor (passenger side) up/down is displayed.
MIR/SEN RH R-L	"V"	_	×	Voltage input from door mirror sensor (passenger side) left/right is displayed.
MIR/SEN LH U-D	"V"	-	×	Voltage input from door mirror sensor (driver side) up/down is displayed.
MIR/SEN LH R-L	" <b>V</b> "	-	×	Voltage input from door mirror sensor (driver side) left/right is displayed.
TILT SEN	"V"	_	×	Voltage input from tilt sensor is displayed.
TELESCO SEN	"V"	_	×	Voltage input from telescopic sensor is displayed.

<sup>\*1:</sup>Only for AT models.

## **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.

<sup>\*2:</sup>Only for MT models.

# DIAGNOSIS SYSTEM (DRIVER SEAT C/U)

## < SYSTEM DESCRIPTION >

[WITH ADP]

Test item	Description
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**

# NOTE:

This mode is only for AT model.

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

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# DTC/CIRCUIT DIAGNOSIS

### MIRROR SWITCH

Description INFOID:000000002993842

It operates angle of the door mirror face.

It transmits mirror face adjust operation to AUTOMATIC DRIVE POSITIONER CONTROL UNIT.

### Component Function Check

INFOID:0000000002993843

## 1. CHECK MIRROR SWITCH FUNCTION

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

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

#### Is the inspection result normal?

YES >> Mirror switch function is OK.

NO >> Refer to MIR-10, "Diagnosis Procedure".

### Diagnosis Procedure

INFOID:0000000002993844

# 1. CHECK MIRROR SWITCH INPUT SIGNAL

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

	(+)		V 16 0.0	
Door mirror re	Door mirror remote control switch		Voltage (V) (Approx.)	
Connector	Terminal		(· .FP.O///	
	4			
D17	12	Ground	5	
ווט	13	Ground	5	
	15	-		

### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

# 2. CHECK MIRROR SWITCH CIRCUIT

- Turn ignition switch OFF.
- 2. 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	Automatic drive positioner control unit		Door mirror remote control switch	
Connector	Terminal	Connector	Terminal	Continuity
	3	D17	15	
M51	4		13	Existed
I CIVI	19		12	Existed
	20		4	

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

Automatic drive positioner control unit			Continuity	
Connector	Terminal		Continuity	
	3	Ground		
M51	4		Not existed	
	19		Not existed	
	20	1		

#### Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to ADP-226, "Removal and Installation".

NO >> Repair or replace harness between automatic drive positioner control unit and door mirror remote control switch.

# ${f 3.}$ CHECK DOOR MIRROR REMOTE CONTROL SWITCH GROUND CIRCUIT

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

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

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness between door mirror remote control switch and ground.

### 4. CHECK MIRROR SWITCH

Check mirror switch.

Refer to MIR-11, "Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace door mirror remote control switch. Refer to MIR-50, "Removal and Installation".

# 5. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-39, "Intermittent Incident".

#### >> INSPECTION END

### Component Inspection

## 1. CHECK MIRROR SWITCH

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

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INFOID:0000000002993845

Revision: 2008 September MIR-11 2008 G35 Sedan

Teri	minal		
	ror remote I switch	Mirror switch condition	Continuity
4	4 13 7 15	RIGHT	Existed
4		Other than above	Not existed
12		LEFT	Existed
13		Other than above	Not existed
45		UP	Existed
15		Other than above	Not existed
12		DOWN	Existed
12		Other than above	Not existed

## Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace door mirror remote control switch. Refer to MIR-50, "Removal and Installation".

[WITH ADP]

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### CHANGEOVER SWITCH

Description INFOID:0000000002993846

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.

## 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-III.

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

#### Is the inspection result normal?

YES >> Changeover switch function is OK.

NO >> Refer to MIR-13, "Diagnosis Procedure".

## Diagnosis Procedure

1. CHECK CHANGEOVER SWITCH INPUT SIGNAL

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

	(+)  Door mirror remote control switch		Voltage (V) (Approx.)	
Connector	Terminal		( 11)	
D17	10	Ground	5	
J17	11	- Ground	5	

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

# 2.check changeover switch circuit

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

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

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

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

**MIR-13** Revision: 2008 September 2008 G35 Sedan

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### **CHANGEOVER SWITCH**

#### < DTC/CIRCUIT DIAGNOSIS >

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#### Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to <u>ADP-226, "Removal and Installation"</u>.

NO >> Repair or replace harness automatic drive positioner control unit and door mirror remote control switch.

# 3. Check door mirror remote control switch ground circuit

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

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

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness door mirror remote control switch and ground.

# 4. CHECK CHANGEOVER SWITCH

#### Check changeover switch.

Refer to MIR-14, "Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace door mirror remote control switch. Refer to MIR-50. "Removal and Installation".

### 5. CHECK INTERMITTENT INCIDENT

#### Check intermittent incident.

Refer to GI-39, "Intermittent Incident".

#### >> INSPECTION END

# Component Inspection

INFOID:0000000002993849

# 1. CHECK CHANGEOVER SWITCH

- Turn ignition switch OFF.
- Disconnect door mirror remote control switch.
- 3. Check door mirror remote control switch.

Terminal  Door mirror remote control switch		Change overswitch condition	Continuity	
		Change overswitch condition		
10	10	LEFT	Existed	
10	7	Other than above	Not existed	
11	11	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-50, "Removal and Installation".

### **AUTO ANTI-DAZZLING INSIDE MIRROR SYSTEM**

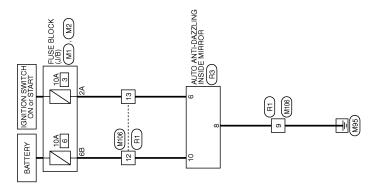
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# **AUTO ANTI-DAZZLING INSIDE MIRROR SYSTEM**

Wiring Diagram - INSIDE MIRROR SYSTEM -

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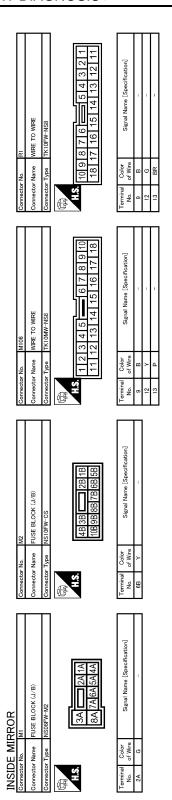
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INSIDE MIRROR



R3	AUTO ANTI-DAZZLING INSIDE MIRROR	TH10FB-NH	10 9 8 7 6	Signal Name [Specification]	IGN	GND	BAT
Γ				Color of Wire	BR	m	g
Connector No.	Connector Name	Connector Type	H.S.	Terminal No.	9	80	01

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# **ECU DIAGNOSIS INFORMATION**

# DRIVER SEAT CONTROL UNIT

Reference Value

### VALUES ON THE DIAGNOSIS TOOL

CONSULT-III MONITOR ITEM

Monitor Item	Condit	ion	Value/Status
SET SW	Set switch	Push	ON
3E1 3W	Set Switch	Release	OFF
MEMORY CWA	Mamany quitab 1	Push	ON
MEMORY SW1	Memory switch 1	Release	OFF
MEMORY CWO	Mamany quitab 2	Push	ON
MEMORY SW2	Memory switch 2	Release	OFF
CLIDE CW ED	Cliding quitab (frant)	Operate	ON
SLIDE SW-FR	Sliding switch (front)	Release	OFF
CLIDE CW DD	Olidina quitab (roos)	Operate	ON
SLIDE SW-RR	Sliding switch (rear)	Release	OFF
DECLN OW ED	De clinica e evitale (forest)	Operate	ON
RECLN SW-FR	Reclining switch (front)	Release	OFF
DECLN CW DD	Declining quittle ()	Operate	ON
RECLN SW-RR	Reclining switch (rear)	Release	OFF
LIFT FR SW-UP	Lifting quiteb front ()	Operate	ON
	Lifting switch front (up)	Release	OFF
LIFT FR SW-DN	Lifting switch front (down)	Operate	ON
		Release	OFF
LIFT RR SW-UP	Lifting quitab roor (up)	Operate	ON
LIFT RR SW-UP	Lifting switch rear (up)	Release	OFF
LIET DD CW DN	Lifting quitab roor (down)	Operate	ON
LIFT RR SW-DN	Lifting switch rear (down)	Release	OFF
MIR CON SW-UP	Mirror switch	Up	ON
WIR CON SW-UP	WIITOI SWILCTI	Other than above	OFF
MIR CON SW-DN	Mirror quitab	Down	ON
WIR CON SW-DIN	Mirror switch	Other than above	OFF
MIR CON SW-RH	Mirror switch	Right	ON
WIR CON SW-RH	WIIITOI SWILCIT	Other than above	OFF
MIR CON SW-LH	Mirror switch	Left	ON
WIIIX COIN SVV-LIT	WILLIAM SWILCH	Other than above	OFF
MID CHNC SW B	Changeover switch	Right	ON
MIR CHNG SW-R	Changeover switch	Other than above	OFF
MIR CHNG SW-L	Changeover switch	Left	ON
WIIIX CHING 3VV-L	Changeover switch	Other than above	OFF
TILT SW-UP	Tilt switch	Up	ON
TILI SVV-UP	THE SWILCH	Other than above	OFF
TILT SW-DOWN	Tilt switch	Down	ON
TILI SVV-DOVVIN	THE SWILCH	Other than above	OFF

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### < ECU DIAGNOSIS INFORMATION >

Monitor Item	Cond	dition	Value/Status
TELESCO SW-FR	Talagania awitah	Forward	ON
TELESCO SW-FR	Telescopic switch	Other than above	OFF
TELESCO SW-RR	Tilt switch	Backward	ON
	THE SWILCH	Other than above	OFF
DETENT SW*1	AT selector lever	P position	OFF
DETENT SW	711 Scicotor level	Other than above	ON
PARK BRAKE SW <sup>*2</sup>	Parking brake	Applied	ON
- ANN BRAKE OW	T diking brake	Release	OFF
STARTER SW	Ignition position	Cranking	ON
	iginaen peelaen	Other than above	OFF
		Forward	The numeral value decreases *3
SLIDE PULSE	Seat sliding	Backward	The numeral value increases *3
		Other than above	No change to numeral value*3
		Forward	The numeral value decreases *3
RECLN PULSE	Seat reclining	Backward	The numeral value increases *3
		Other than above	No change to numeral value*3
		Up	The numeral value decreases *3
LIFT FR PULSE	Seat lifter (front)	Down	The numeral value increases *3
		Other than above	No change to numeral value*3
		Up	The numeral value decreases *3
LIFT RR PULSE	Seat lifter (rear)	Down	The numeral value increases *3
		Other than above	No change to numeral value*3
MIR/SEN RH U-D	Door mirror (passenger si	ide)	Change between 3.4 (close to peak) 0.6 (close to valley)
MIR/SEN RH R-L	Door mirror (passenger s	ide)	Change between 3.4 (close to left edge) 0.6 (close to right edge)
MIR/SEN LH U-D	Door mirror (driver side)		Change between 3.4 (close to peak) 0.6 (close to valley)
MIR/SEN LH R-L	Door mirror (driver side)		Change between 0.6 (close to left edge) 3.4 (close to right edge)
TILT SEN	Tilt position		Change between 1.2 (close to top) 3.4 (close to bottom)
TELESCO SEN	Telescopic position		Change between 3.4 (close to top) 0.8 (close to bottom)

<sup>\*1:</sup> Only for AT model

<sup>\*2:</sup> Only for MT model

<sup>\*3:</sup> The value at the position attained when the battery is connected is regarded as 32768.

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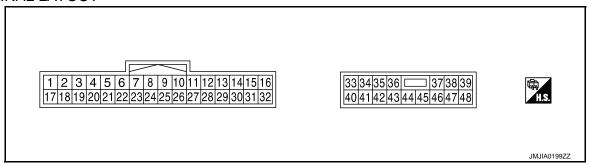
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### TERMINAL LAYOUT



#### PHYSICAL VALUES

Term	ninal No.	Wire	Description				Valtage (V)
+	-	color	Signal name	Input/ Output	Condition	n	Voltage (V) (Approx)
1	Ground	L/W	UART communication (RX)	Input	Ignition switch ON		2mSec/div 2mSec/div 2V/div JMJIA0118ZZ
3	_	R/Y	CAN-H	_	_		_
8 <sup>*1</sup>	Ground	LG	Parking brake switch	Input	Parking brake	Applied	0
	Oroana		signal	трас	r anding brane	Release	Battery voltage
9	Ground	W/G	Reclining sensor signal	Input	Seat reclining	Operate	10mSec/div
						Stop	0 or 5
10	Ground	P/B	Lifting sensor (rear) signal	Input	Seat lifting (rear)	Operate	10mSec/div 2V/div JMJIA0119ZZ
						Stop	0 or 5
11	Ground	BR	Sliding switch back- ward signal	Input	Sliding switch	Operate (back- ward)	0
						Release	Battery voltage
12	Ground	SB	Reclining switch back- ward signal	Input	Reclining switch Operate (backward)		0
						Release	Battery voltage

Revision: 2008 September

	ninal No.		Description				
+	-	Wire color	Signal name	Input/ Output	Condition	า	Voltage (V) (Approx)
13	Ground	LG/R	Lifting switch (front) down signal	Input	Lifting switch (front)	Operate (down)	0
			down signal		(Horit)	Release	Battery voltage
14	Ground	GB	Lifting switch (rear) down signal	Input	Lifting switch (rear)	Operate (down)	0
				0		Release	Battery voltage
16	Ground	0	Sensor power supply	Output	_		5
17	Ground	Y/R	UART communication (TX)	Output	Ignition switch ON		10mSec/div 10mSec/div 2V/div JMJIA0121ZZ
19		V	CAN-L				_
						P position	0
21 <sup>*2</sup>	Ground	L/Y	Detention switch	Input	A/T selector lever	Except P position	20mSec/div  MMMMMMM  5V/div  JMJIA0120ZZ
24	Ground	R	Sliding sensor signal	Input	Seat sliding	Operate Stop	10mSec/div 2V/div JMJIA0119ZZ
25	Ground	Y/B	Lifting sensor (front) signal	Input	Seat lifting (front)	Operate	10mSec/div 2V/div JMJIA0119ZZ
						Stop Operate	
26	Ground	Υ	Sliding switch forward signal	Input	Sliding switch	(forward)	0  Battery voltage
						Operate	
27	Ground	R/G	Reclining switch for- ward signal	Input	Reclining switch	(forward)	0  Battery voltage
		141/5	Lifting switch (front) up	Levi	Seat lifting switch	Operate (up)	0
28	Ground	W/B	signal	Input	(front)	Release	Battery voltage

## **DRIVER SEAT CONTROL UNIT**

## < ECU DIAGNOSIS INFORMATION >

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_	Term	ninal No.	Wire	Description				Voltage (V)
_	+	-	color	Signal name	Input/ Output	Condition	1	(Approx)
	29	Ground	P/L	Lifting switch (rear) up signal	Input	Seat lifting switch (rear)	Operate (up)	0
				Signal		(lear)	Release	Battery voltage
	31	Ground	GR	Sensor ground	_	_		0
	32	Ground	B/W	Ground (signal)	_	_		0
	33	Ground	R	Power source (C/B)	Input	_		Battery voltage
	35	Ground	W/R	Sliding motor forward output signal	Output	Seat sliding	Operate (forward)	Battery voltage
							Release	0
	36	Ground	G/Y	Reclining motor for- ward output signal	Output	Seat reclining	Operate (forward)	Battery voltage
				ward output signal			Release	0
	37	Ground	G/W	Lifting motor (front) down output signal	Output	Output Seat lifting (front)		Battery voltage
				down output signal			Stop	0
	38	Ground	L/Y	Lifting motor (rear) up output signal	Output	Seat lifting (rear)	Operate (up)	Battery voltage
				output signal			Stop	0
	39	Ground	R/B	Lifting motor (rear) down output signal	Output	Seat lifting (rear)	Operate (down)	Battery voltage
				down output signal			Stop	0
	40	Ground	R/W	Power source (Fuse)	Input	_		Battery voltage
	42	Ground	W/B	Sliding motor back- ward output signal	Output	Seat sliding	Operate (back- ward)	Battery voltage
							Stop	0
	44	Ground	Р	Reclining motor back- ward output signal	Output	Seat reclining	Operate (back- ward)	Battery voltage
							Stop	0
	45	Ground	L/R	Lifting motor (front) up output signal	Output	Seat lifting (front)	Operate (up)	Battery voltage
				output signal		Stop	0	
	48	Ground	В	Ground (power)	_	_		0

<sup>\*1:</sup> Only for MT models

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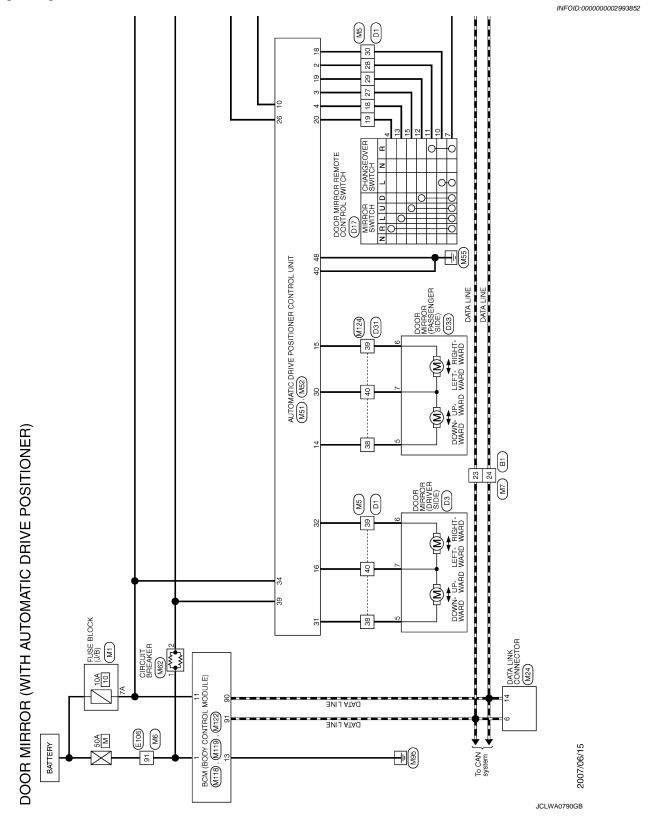
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<sup>\*2:</sup> Only for AT models

Wiring Diagram - AUTOMATIC DRIVE POSITIONER CONTROL SYSTEM -



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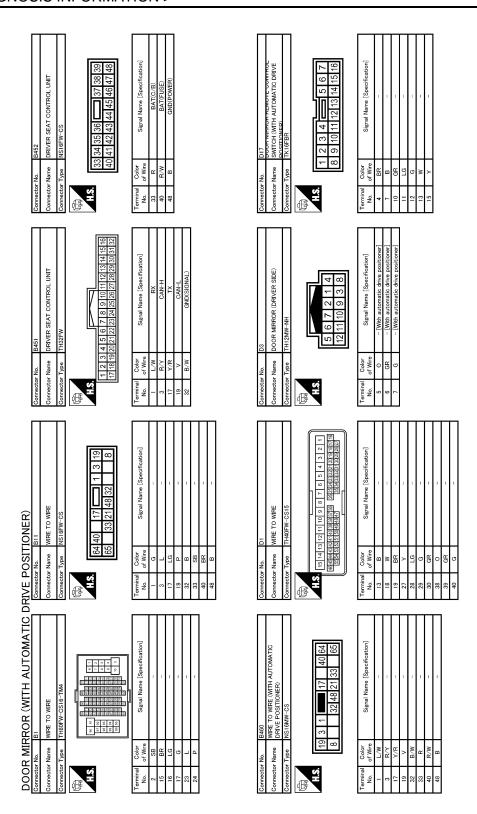
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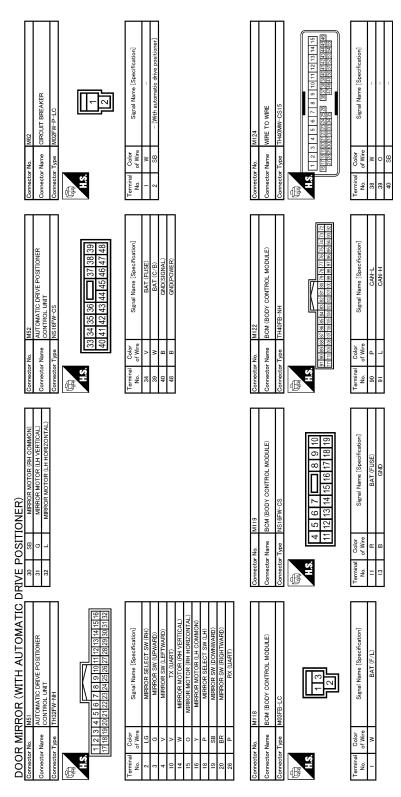
\*: This connector is not shown in "Harness Layout".

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JCLWA0792GB

Cornector No. MI Connector Name FUSE BLOCK (J/B) Connector Type NS06FW-M2  ALS  SAMINE Signal Name [Specification]  No. of Wire  Signal Name [Specification]	Connector No.   M24	A B C
Connector No. E106 Connector Name WIRE TO WIRE Connector Type TH80FW-CS16-TM4  WHAS WAR TO WIRE TEACH TO WIRE WAS TH80FW-CS16-TM4  WHAS WAS Signal Name [Specification]  91 W. W. Signal Name [Specification]	Connector No. M7 Connector Name WRE TO WRE Connector Type TH80MV-CS16-TM4  Terminal Color Signal Name [Specification] 17 19 19 19 19 19 19 19 19 19 19 19 19 19	E F G
DRIVE POSITIONER)  Connector Name DOOR MIRROR (PASSENGER SIDE)  Connector Type ITHI2MM-NH  Terminal Color  No. of Wire Signal Name (Specification)  No. of Wire Signal Name (Specification)  To the automatic drive positioner  To the automatic drive positioner	Connector No. Mile Connector Name Wife TO WIFE  Connector Type TH80MV-CSI6-TMA  Terminal Color Title The Terminal Color T	J K
Connector Name	Connector No.   Mis	MIR  M  N  O



Fail Safe

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

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### **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-52
	Tilt sensor	B2118	ADP-55
Only manual functions operate normally.	Telescopic sensor	B2119	ADP-58
	Detent switch	B2126	<u>ADP-61</u>
	Parking brake switch	B2127	ADP-63
Only manual functions, except door mirror, operate normally.	UART communication	B2128	ADP-65
Only manual functions, except seat sliding, operate normally.	Seat sliding output	B2112	ADP-53
Only manual functions, except seat reclining, operate normally.	Seat reclining output	B2113	ADP-54

DTC Index

CONSULT-III	Tim	ing <sup>*1</sup>		
display	Current mal- function	Previous mal- function	Item	Reference page
CAN COMM CIRCUIT [U1000]	0	1-39	CAN communication	ADP-52
SEAT SLIDE [B2112]	0	1-39	Seat slide motor output	ADP-53
SEAT RECLINING [B2113]	0	1-39	Seat reclining motor output	ADP-54
TILT SENSOR [B2118]	0	1-39	Tilt sensor input	ADP-55
TELESCO SENSOR [B2119]	0	1-39	Telescopic sensor input	ADP-58
DETENT SW [B2126]	0	1-39	Detention switch condition	ADP-61
PARKING BRAKE [B2127]	0	1-39	Parking brake switch condition	ADP-63
UART COMM [B2128]	0	1-39	UART communication	ADP-65

<sup>\*1:</sup> 

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<sup>• 0:</sup> Current malfunction is present

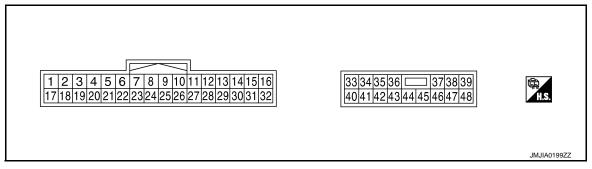
<sup>• 1-39:</sup> Displayed if any previous malfunction is present when current condition is normal. The numeral value increases by one at each IGN ON to OFF cycle from 1 to 39. The counter remains at 39 even if the number of cycles exceeds it. However, the counter is reset to 1 if any malfunction is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

[WITH ADP]

# AUTOMATIC DRIVE POSITIONER CONTROL UNIT

Reference Value

#### **TERMINAL LAYOUT**



#### PHYSICAL VALUES

Terr	minal No.		Description				
+	-	Wire color	Signal name	Input/ Out- put	Conditi	on	Voltage (V) (Approx.)
	0	V	Tile and the land of the land	la a t	Tile accident	Operate (up)	0
1	Ground	Y	Tilt switch up signal	Input	Tilt switch	Other than above	5
			Changeover switch RH		Changeover	RH	0
2	Ground	LG	signal	Input	switch position	Neutral or LH	5
3	Ground	G	Mirror switch up signal	Input	Mirror switch	Operated (up)	0
3	Ground	G	will of switch up signal	IIIput	WIIITOI SWILCIT	Other than above	5
4	Ground	V	Mirror switch left signal	lanut	Mirror switch	Operated (left)	0
4	Ground	V	will of switch left signal	Input	WIIITOI SWILCIT	Other than above	5
5	Ground	R	Door mirror sensor (RH) up/down signal	Input	Door mirror RH po	osition	Change between 3.4 (close to peak) 0.6 (close to valley)
6	Ground	GR	Door mirror sensor (LH) up/down signal	Input	Door mirror LH po	osition	Change between 3.4 (close to peak) 0.6 (close to valley)
7	Ground	0	Tilt sensor signal	Input	Tilt position		Change between 1.2 (close to top) 3.4 (close to bottom)
						Push	0
9	Ground	L	Memory switch 1 signal	Input	Memory switch 1	Other than above	5
10	Ground	V	UART communication (TX)	Out- put	Ignition switch ON		2mSec/div 2W/div JMJIA0118ZZ

# < ECU DIAGNOSIS INFORMATION >

[WITH ADP]

Ter	minal No.		Description				
+	-	Wire color	Signal name	Input/ Out- put	Conditi	on	Voltage (V) (Approx.)
11	Ground	GR	Telescopic switch for-	Input	Telescopic	Operate (forward)	0
•	Orodina	Oit	ward signal	mput	switch	Other than above	5
				Out-	Memory indictor	Illuminate	0
12	Ground	0	Memory indictor 1 signal	put	1	Other than above	Battery voltage
				Out-	Memory indictor	Illuminate	0
13	Ground	Р	Memory indictor 2 signal	put	2	Other than above	Battery voltage
14	Ground	W	Door mirror motor (RH)	Out-	Door mirror RH	Operate (up)	Battery voltage
	Ground	V V	up output signal	put	Door Hillion Kill	Other than above	0
15	Ground	GR <sup>*1</sup>	Door mirror motor (RH)	Out-	Door mirror RH	Operate (left)	Battery voltage
.0	Cround	G*2	left output signal	put	Soci minor (C)	Other than above	0
			Door mirror motor (LH)			Operate (down)	Battery voltage
16	Ground	Y	down output signal	Out-	ut- Door mirror (LH)	Other than above	0
10	Ground	'	Door mirror motor (LH)	put	Door Hillion (E11)	Operate (right)	Battery voltage
			right output signal			Other than above	0
17	Ground	W	Tilt switch down signal	Input	Tilt switch	Operate (down)	0
''	Ground	**	The switch down signal	трис	THE SWILOTT	Other than above	5
_			Changeover switch LH		Changeover	LH	0
18	Ground	Р	signal	Input	switch position	Neutral or RH	5
19	Ground	SB	Mirror switch down sig-	Input	Mirror switch	Operate (down)	0
13	Ground	OD	nal	πραι	WIIITOI SWILGIT	Other than above	5
20	Ground	BR	Mirror switch right signal	Input	Mirror switch	Operate (right)	0
20	Ground	DΚ	wiitor switch right signal	Input	IVIIITOI SWILCTI	Other than above	5
21	Ground	L	Door mirror sensor (RH) left/right signal	Input	Door mirror RH po	osition	Change between 3.4 (close to left edge) 0.6 (close to right edge)
22	Ground	G	Door mirror sensor (LH) left/right signal	Input	Door mirror LH po	osition	Change between 0.6 (close to left edge) 3.4 (close to right edge)
23	Ground	Р	Telescopic sensor signal	Input	Telescopic position	n	Change between 0.8 (close to top) 3.4 (close to bottom)

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< ECU DIAGNOSIS INFORMATION >

[WITH ADP]

			INFORMATION >							
ler	minal No.	Wire	Description				Voltage (V)			
+	-	color	Signal name	Input/ Out- put	Conditi	on	(Approx.)			
						Push	0			
24	Ground	R	Set switch signal	Input	Set switch	Other than above	5			
						Push	0			
25	Ground	SB	Memory switch 2 signal	Input	Memory switch 2	Other than above	5			
26	Ground	Y	UART communication (RX)	Input	Ignition switch ON	I	10mSec/div 2V/div JMJIA0121ZZ			
27	Ground	G	Telescopic switch back- ward signal	Input	Telescopic switch	Operate (back- ward)	0			
			ward signal		SWIGH	Other than above	5			
			Door mirror motor (RH)			Operate (down)	Battery voltage			
30	Ground	G <sup>*1</sup>	down output signal	Out-	Door mirror (RH)	Other than above	0			
30	Giodila	R*2	Door mirror motor (RH)	put	put	put	put	Door militor (IXTI)	Operate (right)	Battery voltage
			right output signal			Other than above	0			
31	Ground	LG	Door mirror motor (LH)	Out-	Door mirror (LH)	Operate (up)	Battery voltage			
	Ground	LO	up output signal	put	Door Hillion (ELT)	Other than above	0			
32	Ground	L	Door mirror motor (LH)	Out-	Door mirror (LH)	Operate (left)	Battery voltage			
	Ground	_	left output signal	put	Door Hillion (ELT)	Other than above	0			
33	Ground	R	Sensor power supply	Input	_		5			
34	Ground	R	Power source (Fuse)	Input	_		Battery voltage			
35	Ground	L	Tilt motor up output sig-	Out-	Steering tilt	Operate (up)	Battery voltage			
	C. Juliu	<u>-</u>	nal	put		Other than above	0			
36	Ground	GR	Telescopic motor for-	Out-	Steering tele-	Operate (forward)	Battery voltage			
	Cidana	<u> </u>	ward output signal	put	scopic	Other than above	0			
39	Ground	W	Power source (C/B)		_		Battery voltage			
40	Ground	В	Ground	_	_		0			
41	Ground	R	Sensor ground	_	_		0			

## < ECU DIAGNOSIS INFORMATION >

[WITH ADP]

Terr	minal No.		Description					
+	-	Wire color	Signal name	Input/ Out- put	Condition		Voltage (V) (Approx.)	
42	Ground	0	Tilt motor down output	Out-	Stooring tilt	Operate (down)	Battery voltage	
42	Giodila	O	signal	put	Steering tilt	Other than above	0	
44	Ground	G	Telescopic motor back- ward output signal	Out-	Steering tele-	•	Operate (back- ward)	Battery voltage
			waru output Signal	put	scopic	Other than above	0	
48	Ground	В	Ground	_	_		0	

<sup>\*1:</sup> For AT models

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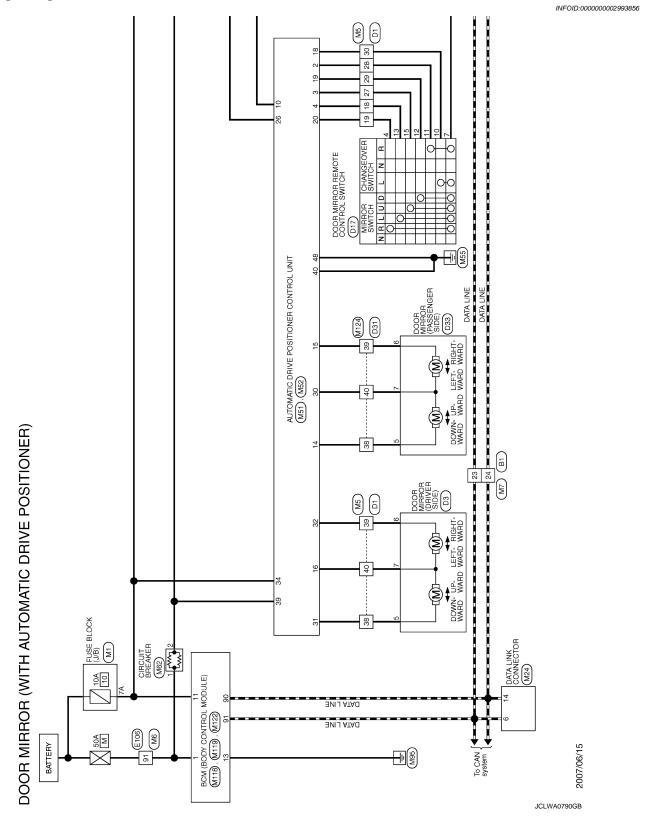
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<sup>\*2:</sup> For MT models

Wiring Diagram - AUTOMATIC DRIVE POSITIONER CONTROL SYSTEM -



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(B45). (B45)

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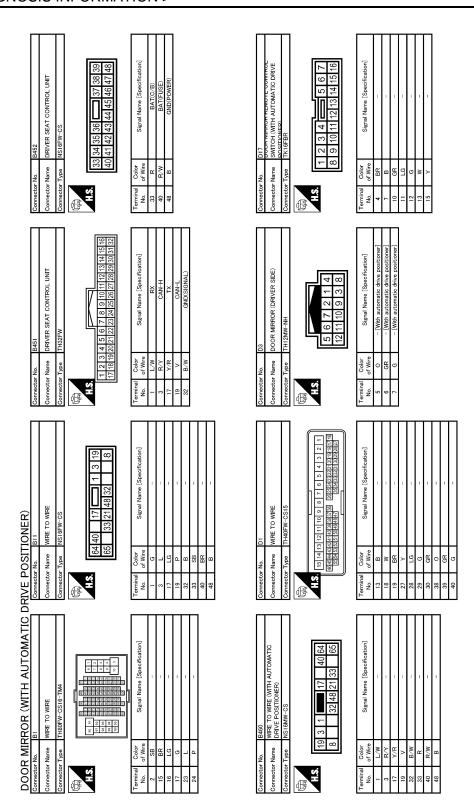
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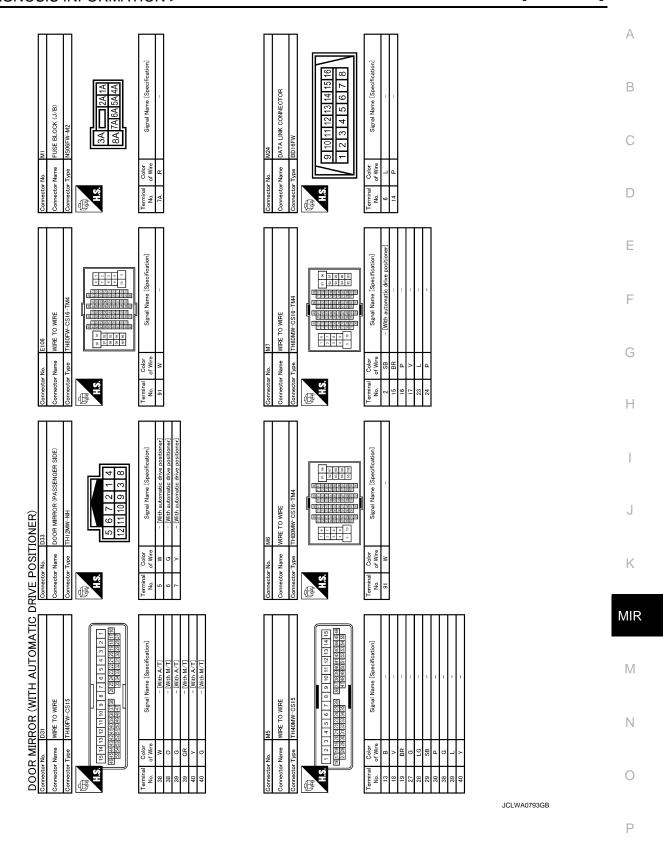
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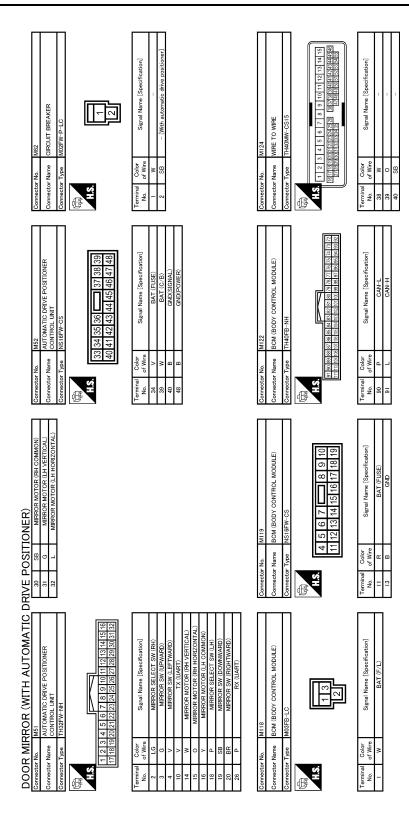


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Revision: 2008 September MIR-35 2008 G35 Sedan



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## DOOR MIRROR DOES NOT OPERATE

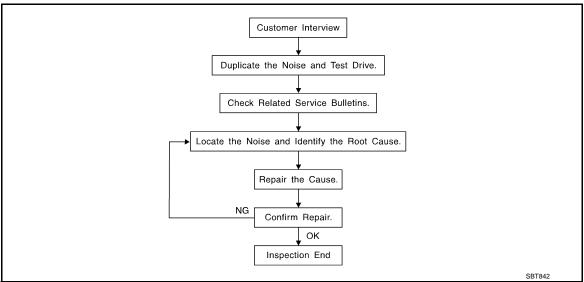
[WITH ADP] < SYMPTOM DIAGNOSIS > SYMPTOM DIAGNOSIS Α DOOR MIRROR DOES NOT OPERATE Diagnosis Procedure INFOID:0000000002993857  ${f 1}$  .CHECK AUTOMATIC DRIVE POSITIONER SYSTEM Check door mirror operate with automatic drive positioner system. Is the inspection result normal? YES >> GO TO 2. NO >> Check automatic drive positioner system operation. Refer to ADP-16, "AUTOMATIC DRIVE D POSITIONER SYSTEM: System Diagram" 2. CHECK MIRROR SWITCH Check mirror switch. Refer to MIR-10, "Component Function Check" Is the inspection result normal? F YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts. 3.CHECK CHANGEOVER SWITCH Check changeover switch. Refer to MIR-13, "Component Function Check" Is the inspection result normal? Н 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-39, "Intermittent Incident" NO >> GO TO 1. K MIR

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[WITH ADP]

## 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 <a href="MIR-42">MIR-42</a>, "Diagnostic Worksheet". This information is necessary to duplicate the conditions that exist when the noise occurs.

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

### DUPLICATE THE NOISE AND TEST DRIVE

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

#### [WITH ADP] < SYMPTOM DIAGNOSIS >

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

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

### CHECK RELATED SERVICE BULLETINS

After verifying the customer concern or symptom, check ASIST for Technical Service Bulletins (TSBs) related to that concern or symptom.

If a TSB relates to the symptom, follow the procedure to repair the noise.

## LOCATE THE NOISE AND IDENTIFY THE ROOT CAUSE

- 1. Narrow down the noise to a general area. To help pinpoint the source of the noise, use a listening tool (Chassis Ear: J-39570, Engine Ear and mechanics stethoscope).
- 2. Narrow down the noise to a more specific area and identify the cause of the noise by:
- removing the components in the area that you suspect the noise is coming from.

Do not use too much force when removing clips and fasteners, otherwise clips and fastener can be broken or lost during the repair, resulting in the creation of new noise.

- tapping or pushing/pulling the component that you suspect is causing the noise.
  - Do not tap or push/pull the component with excessive force, otherwise the noise will be eliminated only tem-
- 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-40, "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.

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

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,  $50 \times 50$  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

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

68370-4B000:  $15 \times 25$  mm (0.59  $\times$  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

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#### < SYMPTOM DIAGNOSIS >

[WITH ADP]

Insulates where slight movement is present. Ideal for instrument panel applications.

SILICONE GREASE

Used in place of UHMW tape that will be visible or not fit. Will only last a few months.

SILICONE SPRAY

Use when grease cannot be applied.

DUCT TAPE

Use to eliminate movement.

#### CONFIRM THE REPAIR

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

## Inspection Procedure

INFOID:0000000002993859

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

#### **INSTRUMENT PANEL**

Most incidents are caused by contact and movement between:

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

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

#### **CAUTION:**

Do not use silicone spray to isolate a squeak or rattle. If you saturate the area with silicone, you will not be able to recheck the repair.

### **CENTER CONSOLE**

Components to pay attention to include:

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

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

#### **DOORS**

Pay attention to the:

- 1. Finisher and inner panel making a slapping noise
- Inside handle escutcheon to door finisher
- 3. 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:

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

# < SYMPTOM DIAGNOSIS >

[WITH ADP]

Most of these incidents can be repaired by adjusting, securing or insulatingthe 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 knockingnoise
- 2. Sunvisor shaft shaking in the holder
- Front or rear windshield touching headlining and squeaking

Again, pressing on the components to stop the noise while duplicatingthe 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 conditionsshould be duplicated when verifying and isolating the cause of the noise.

Cause of seat noise include:

- 1. Headrest rods and holder
- 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 1.
- 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

INFOID:0000000002993860



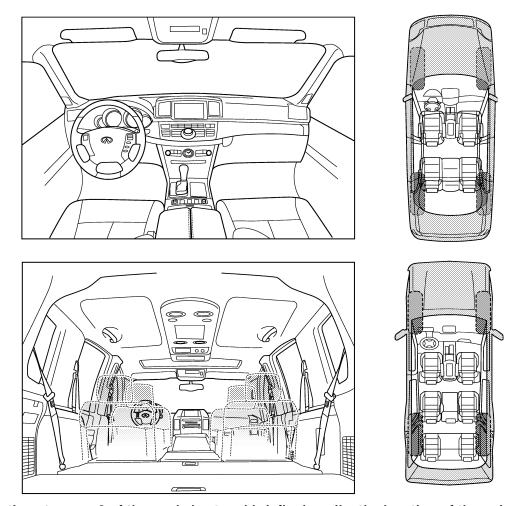
# SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

#### Dear Infiniti Customer:

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

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

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



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

< SYMPTOM DIAGNOSIS >

[WITH ADP]

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)	<ul><li>☐ thump (heavy, muffled knock noise)</li><li>☐ buzz (like a bumble bee)</li></ul>	
☐ with passengers or cargo	Duzz (like a bullible bee)	
other:		
☐ after driving miles or m	- ninutes	
TO DE COMBI ETED DV DEM EDOU	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	

## **PRECAUTIONS**

< PRECAUTION > [WITH ADP]

## **PRECAUTION**

## **PRECAUTIONS**

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:**

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the "SRS AIR BAG".
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

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

#### **WARNING:**

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.

## **PREPARATION**

< PREPARATION > [WITH ADP]

# **PREPARATION**

## **PREPARATION**

Commercial Service Tools

Tool name		Description
Remover tool	JMKIA3050ZZ	Removes the clips, pawls and metal clips

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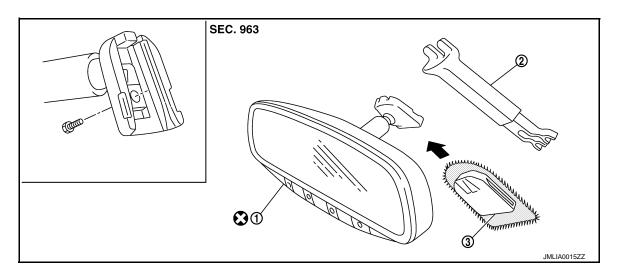
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# REMOVAL AND INSTALLATION

## **INSIDE MIRROR**

Exploded View



- 1. Inside mirror
- 2. Inside mirror finisher (if equipped)
- 3. Mirror base

Refer to GI-4, "Components" for symbols in the figure.

## Removal and Installation

INFOID:0000000002993864

## **REMOVAL**

- 1. Remove inside mirror finisher.
- 2. Remove nut of mirror base.
- 3. Slide the mirror upward to remove.
- 4. Disconnect the connector.

Revision: 2008 September

### **INSTALLATION**

Install in the reverse order of removal.

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## **OUTSIDE MIRROR**

DOOR MIRROR ASSEMBLY

DOOR MIRROR ASSEMBLY: Exploded View

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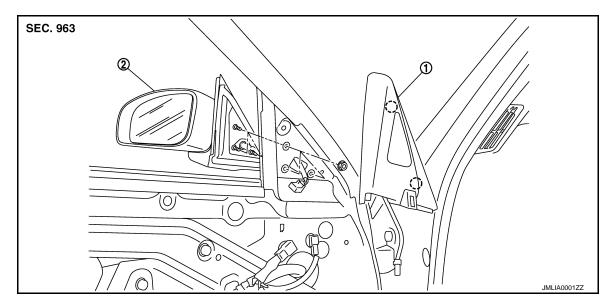
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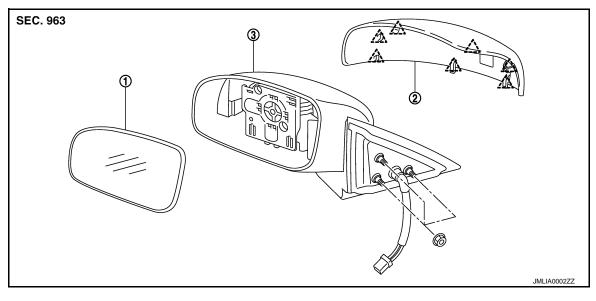
### **REMOVAL**



- Corner cover
- :Clip

Door mirror assembly

## DISASSEMBLY



Glass mirror ^ :Pawl

Mirror cover

Mirror assembly

## DOOR MIRROR ASSEMBLY: Removal and Installation

## **REMOVAL**

- Remove the front door finisher. Refer to INT-11, "Removal and Installation".
- Remove the corner cover.

Revision: 2008 September

**MIR-47** 

INFOID:0000000002993866

INFOID:0000000002993868

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- Disconnect the door mirror harness connector.
- Remove the door mirror mounting nuts, and remove the door mirror assembly.

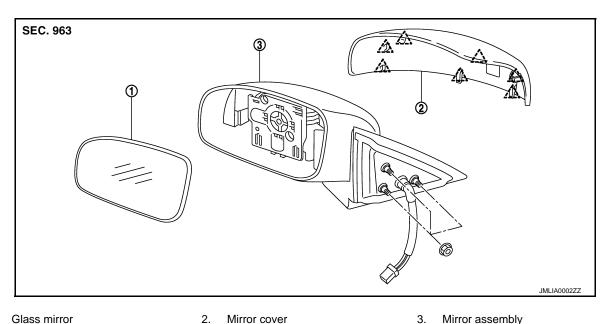
#### INSTALLATION

Install in the reverse order of removal.

## **GLASS MIRROR**

## GLASS MIRROR: Exploded View

## DISASSEMBLY



Glass mirror

Mirror assembly

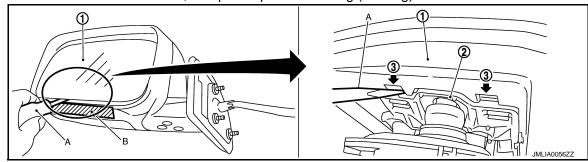


## GLASS MIRROR: Disassembly and Assembly

### DISASSEMBLY

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

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



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

### NOTE:

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

## **OUTSIDE MIRROR**

### < REMOVAL AND INSTALLATION >

[WITH ADP]

**ASSEMBLY** 

Assemble in the reverse order of disassemble.

**CAUTION:** 

After installation, visually check that pawls are securely engaged.

DOOR MIRROR COVER

DOOR MIRROR COVER: Exploded View

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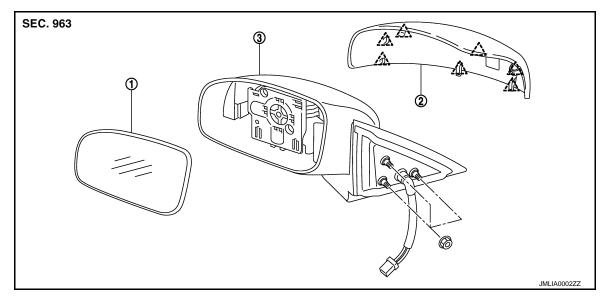
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## DISASSEMBLY



Glass mirror
 Pawl

Mirror cover

Mirror assembly

DOOR MIRROR COVER: Disassembly and Assembly

INFOID:0000000002993871

## **CAUTION:**

Do not damage the mirror bodies.

## DISASSEMBLY

- 1. Remove the glass mirror. Refer to MIR-48, "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.

#### **CAUTION:**

After installation, visually check that pawls are securely engaged.

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## DOOR MIRROR REMOTE CONTROL SWITCH

< REMOVAL AND INSTALLATION >

[WITH ADP]

## DOOR MIRROR REMOTE CONTROL SWITCH

Exploded View

Refer to INT-11, "Exploded View"

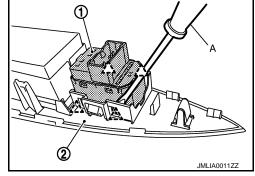
## Removal and Installation

#### INFOID:0000000002993873

## **REMOVAL**

- Remove the power window main switch finisher (2). Refer to <u>PWC-114, "Removal and Installation"</u>
- 2. Remove door mirror remote control switch (1) from power window main switch finisher (2) using screwdriver (A).





### **INSTALLATION**

Install in the reverse order of removal.

## **DOOR MIRROR SYSTEM**

< SYSTEM DESCRIPTION >

[WITHOUT ADP]

INFOID:0000000002993874

# SYSTEM DESCRIPTION

## DOOR MIRROR SYSTEM

## **Component Description**

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

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## **INSIDE MIRROR SYSTEM**

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## **INSIDE MIRROR SYSTEM**

## System Description

INFOID:0000000002993875

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:0000000002993876

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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# DTC/CIRCUIT DIAGNOSIS

## **DOOR MIRROR**

Wiring Diagram - DOOR MIRROR SYSTEM -

INFOID:0000000002993877 В C DOOR MIRROR (PASSENGER SIDE) D # HIGHTWARD

| LETTWARD | LETTWAR ↑ ARIGHTWARD

↑ LEFTWARD

↑ DWARD

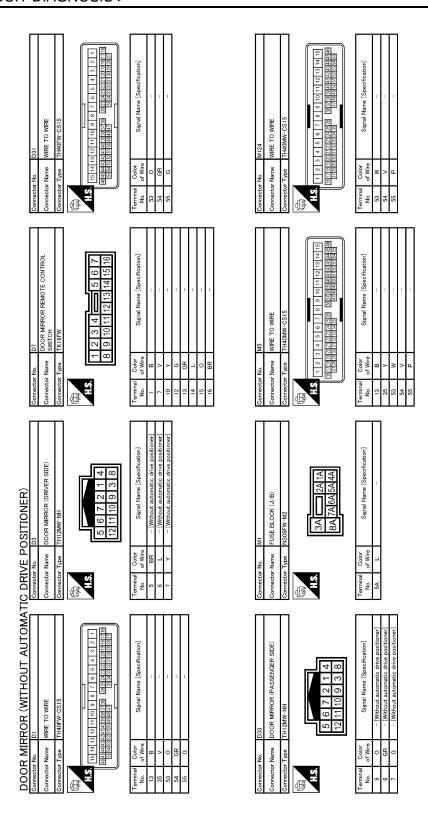
↑ DOWNWARD Е F (D31) 55 G 54 (M5) . [22] .... Н J K DOOR MIRROR REMOTE CONTROL SWITCH MIRROR SWITCH MIR M Ν 0 2007/06/15 Р

DOOR MIRROR (WITHOUT AUTOMATIC DRIVE POSITIONER)

FUSE BLOCK (J/B) (M1)

IGNITION SWITCH ACC or ON ā

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## **AUTO ANTI-DAZZLING INSIDE MIRROR SYSTEM**

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT ADP]

## **AUTO ANTI-DAZZLING INSIDE MIRROR SYSTEM**

Wiring Diagram - INSIDE MIRROR SYSTEM -

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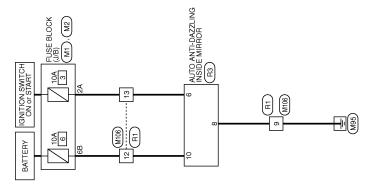
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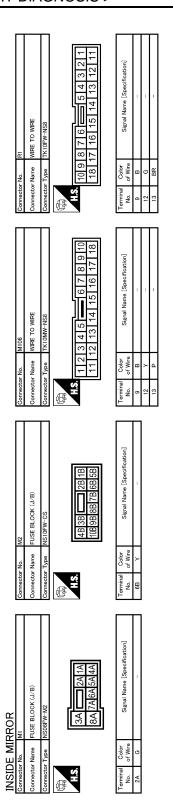
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INSIDE MIRROR



R3	AUTO ANTI-DAZZLING INSIDE MIRROR	TH10FB-NH	10 9 8 7 6	Signal Name [Specification]	IGN	GND	BAT
No.	r Name	Type		Color of Wire	BR	ш	G
Connector No.	Connector Name	Connector Type	E H.S.	Terminal No.	9	8	10

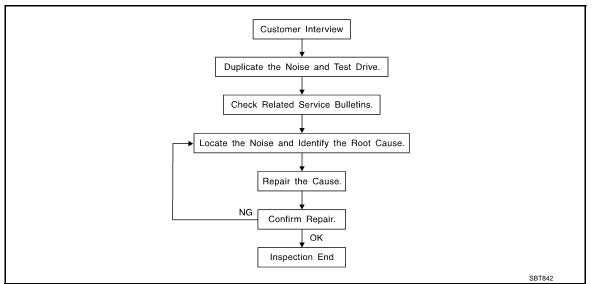
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## SYMPTOM DIAGNOSIS

## 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 <a href="MIR-42">MIR-42</a>, "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 below to riching in place below a good in a factor of the control o
  - 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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Revision: 2008 September MIR-57 2008 G35 Sedan

## < SYMPTOM DIAGNOSIS >

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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-40, "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,  $50 \times 50$  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

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

< SYMPTOM DIAGNOSIS > [WITHOUT ADP]	
68370-4B000: 15 $\times$ 25 mm (0.59 $\times$ 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.	А
SILICONE GREASE Used in place of UHMW tape that will be visible or not fit. Will only last a few months. SILICONE SPRAY	В
Use when grease cannot be applied. DUCT TAPE Use to eliminate movement.	С
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.	, D
Inspection Procedure	о <sub>Е</sub>
Refer to Table of Contents for specific component removal and installationinformation.	
INSTRUMENT PANEL	_
Most incidents are caused by contact and movement between:  1. The cluster lid A and instrument panel	F
<ol> <li>Acrylic lens and combination meter housing</li> <li>Instrument panel to front pillar garnish</li> </ol>	G
4. Instrument panel to windshield	Н
<ul><li>5. Instrument panel mounting pins</li><li>6. Wiring harnesses behind the combination meter</li></ul>	11
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.	/ e
CAUTION:	J
Do not use silicone spray to isolate a squeak or rattle. If you saturatethe area with silicone, you will not be able to recheck the repair.	J
CENTER CONSOLE	K
Components to pay attention to include:	
Shifter assembly cover to finisher	MIF
2. A/C control unit and cluster lid C	
3. Wiring harnesses behind audio and A/C control unit	
The instrument panel repair and isolation procedures also apply to thecenter console.	M
DOORS	
Pay attention to the:	Ν
<ol> <li>Finisher and inner panel making a slapping noise</li> <li>Inside handle escutcheon to door finisher</li> </ol>	IN
3. Wiring harnesses tapping	0
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:

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

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[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) 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 knockingnoise
- 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 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:

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

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

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

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

Diagnostic Worksheet

INFOID:0000000002993881



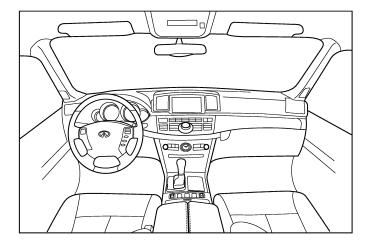
# SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

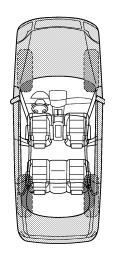
#### Dear Infiniti Customer:

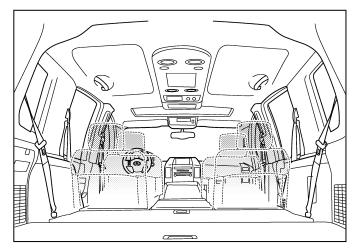
We are concerned about your satisfaction with your Infiniti vehicle. Repairing a squeak or rattle sometimes can be very difficult. To help us fix your Infiniti right the first time, please take a moment to note the area of the vehicle where the squeak or rattle occurs and under what conditions. You may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

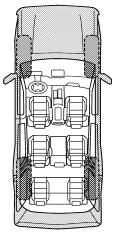
I. WHERE DOES THE NOISE COME FROM? (circle the area of the vehicle)

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









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

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,	noise occurs:		
II. WHEN DOES IT OCCUR? (please	check the boxes that ap	ply)	
<ul><li>□ anytime</li><li>□ 1st time in the morning</li><li>□ only when it is cold outside</li><li>□ only when it is hot outside</li></ul>	<ul><li>□ after sitting out in the rain</li><li>□ when it is raining or wet</li><li>□ dry or dusty conditions</li><li>□ other:</li></ul>		
III. WHEN DRIVING:	IV. WHAT TYPE	OF NOIS	E
<ul> <li>□ through driveways</li> <li>□ over rough roads</li> <li>□ over speed bumps</li> <li>□ only about mph</li> <li>□ on acceleration</li> <li>□ coming to a stop</li> <li>□ on turns: left, right or either (circle)</li> <li>□ with passengers or cargo</li> <li>□ other:</li> </ul>	squeak (like tennis shoes on a clean floor) creak (like walking on an old wooden floor) rattle (like shaking a baby rattle) knock (like a knock at the door) tick (like a clock second hand) thump (heavy, muffled knock noise) buzz (like a bumble bee)		
after driving miles or	minutes		
after driving miles or TO BE COMPLETED BY DEALERSH			
		NO	Initials of person performing
☐ after driving miles or TO BE COMPLETED BY DEALERSH	YES	NO	Initials of person performing

## **PRECAUTIONS**

< PRECAUTION > [WITHOUT ADP]

## **PRECAUTION**

## **PRECAUTIONS**

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:**

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal
  injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag
  Module, see the "SRS AIR BAG".
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

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

#### **WARNING:**

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.

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< PREPARATION > [WITHOUT ADP]

# **PREPARATION**

## **PREPARATION**

Commercial Service Tools

INFOID:0000000002993883

Tool name		Description
Remover tool	JMKIA3050ZZ	Removes the clips, pawls and metal clips

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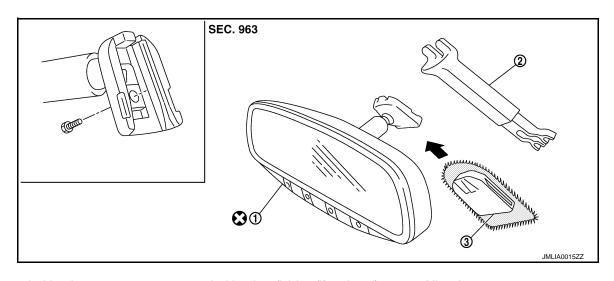
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# REMOVAL AND INSTALLATION

## **INSIDE MIRROR**

**Exploded View** 



- 1. Inside mirror
- 2. Inside mirror finisher (if equipped)
- 3. Mirror base

Refer to GI-4, "Components" for symbols in the figure.

## Removal and Installation

**REMOVAL** 

- 1. Remove inside mirror finisher.
- 2. Remove nut of mirror base.
- 3. Slide the mirror upward to remove.
- 4. Disconnect the connector.

### **INSTALLATION**

Install in the reverse order of removal.

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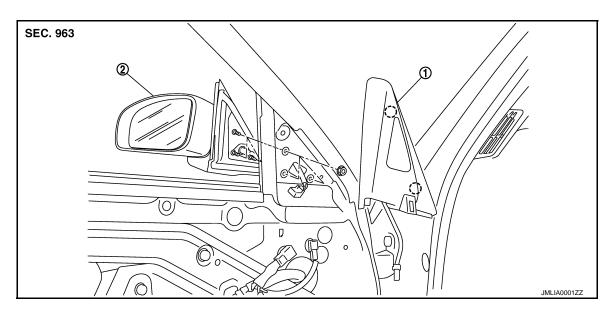
## **OUTSIDE MIRROR**

## DOOR MIRROR ASSEMBLY

DOOR MIRROR ASSEMBLY: Exploded View

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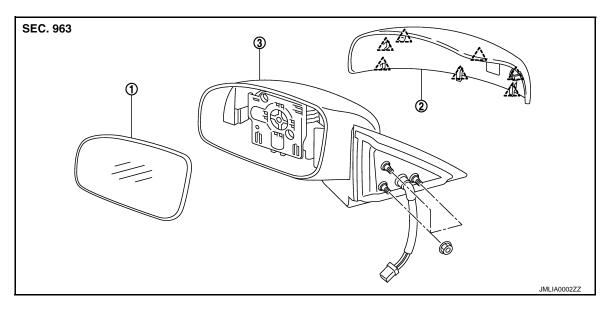
## **REMOVAL**



- 1. Corner cover
- (^) :Clip

2. Door mirror assembly

## **DISASSEMBLY**



Glass mirror
 Pawl

2. Mirror cover

Mirror assembly

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## DOOR MIRROR ASSEMBLY: Removal and Installation

## **REMOVAL**

- 1. Remove the front door finisher. Refer to INT-11, "Removal and Installation".
- Remove the corner cover.

[WITHOUT ADP]

- 3. Disconnect the door mirror harness connector.
- 4. 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

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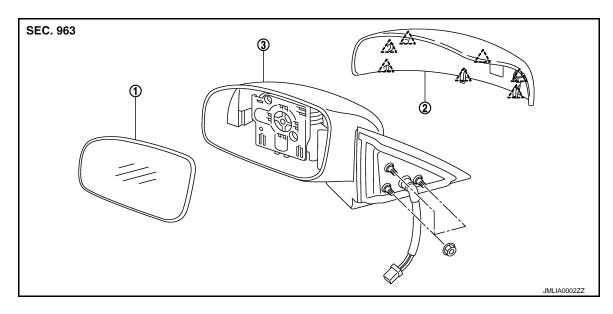
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### DISASSEMBLY



Glass mirror

Mirror cover

Mirror assembly

^` :Pawl

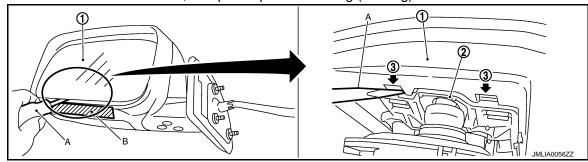
## GLASS MIRROR: Disassembly and Assembly

### DISASSEMBLY

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

  NOTE:

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



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

### NOTE:

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

go... ... oo...o. o. ...... o. o. bao.. o.ao o. g.aoo ...... o.

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**ASSEMBLY** 

Assemble in the reverse order of disassemble.

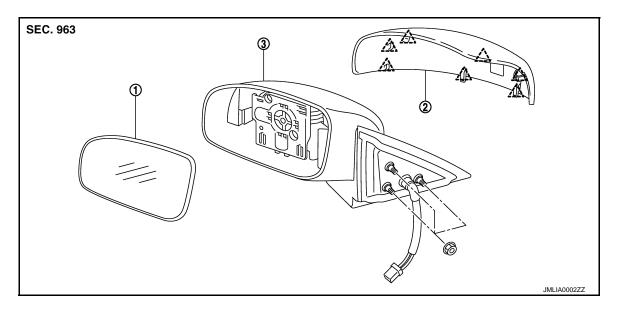
**CAUTION:** 

After installation, visually check that pawls are securely engaged.

DOOR MIRROR COVER

DOOR MIRROR COVER: Exploded View

### DISASSEMBLY



1. Glass mirror

. Pawl

Mirror cover

Mirror assembly

DOOR MIRROR COVER: Disassembly and Assembly

#### **CAUTION:**

Do not damage the mirror bodies.

## **DISASSEMBLY**

- 1. Remove the glass mirror. Refer to MIR-67, "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.

### **CAUTION:**

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

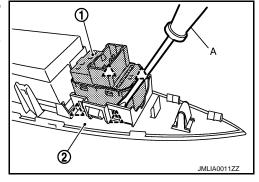
Refer to INT-11, "Exploded View"

## Removal and Installation

## **REMOVAL**

- 1. Remove the power window main switch finisher (2). Refer to PWC-114, "Removal and Installation"
- 2. Remove door mirror remote control switch (1) from power window main switch finisher (2) using screwdriver (A).





### **INSTALLATION**

Install in the reverse order of removal.

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