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< BASIC INSPECTION > [WITH ADP]

BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

DETAILED FLOW

1. OBTAIN INFORMATION ABOUT SYMPTOM

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

>> GO TO 2.

2.CHECK DTC

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

Is any DTC detected?

YES >> Refer to ADP-136, "DTC Index"

NO >> GO TO 3.

3.reproduce the malfunction information

Check the malfunction on the vehicle that the customer describes.

Inspect the relation of the symptoms and the condition when the symptoms occur.

>> GO TO 4.

4. IDENTIFY THE MALFUNCTIONING SYSTEM WITH "SYMPTOM DIAGNOSIS"

Use "Symptom diagnosis" from the symptom inspection result in step 3. Then identify where to start performing the diagnosis based on possible causes and symptoms.

>> GO TO 5.

5. IDENTIFY MALFUNCTIONING PARTS WITH "COMPONENT DIAGNOSIS"

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

>> GO TO 6.

6.REPAIR OR REPLACE THE MALFUNCTIONING PARTS

Repair or replace the specified malfunctioning parts.

>> GO TO 7.

7. FINAL CHECK

Check that malfunctions are not reproduced when obtaining the malfunction information from the customer, referring to the symptom inspection result in step 3.

Are all malfunctions corrected?

YES >> INSPECTION END

NO >> GO TO 4.

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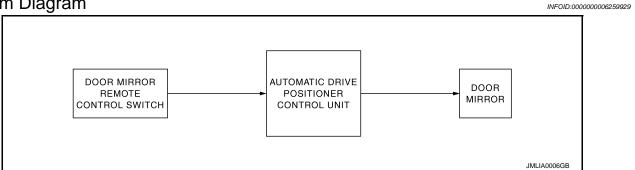
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SYSTEM DESCRIPTION

DOOR MIRROR SYSTEM

System Diagram



System Description

INFOID:0000000006259930

MANUAL FUNCTION

- Door mirror system is composed of automatic drive positioner, door mirror remote control switch and door
- 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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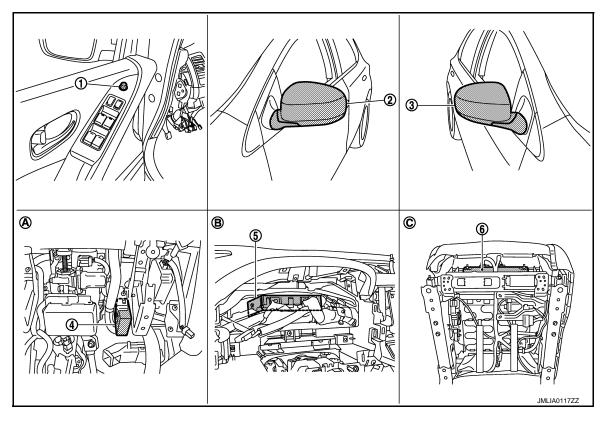
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Component Parts Location

INFOID:0000000006259931



- Door mirror remote control switch D14
- 4. Automatic drive positioner control unit M75, M104
- A. View with instrument driver lower pane removed
- 2. Door mirror (driver side) D3
- 5. BCM M118,M119,M122,M123
- B. Behind the combination meter
- 3. Door mirror (passenger side) D43
- 6. Driver seat control unit B451,B452
- C. Backside of the seat cushion

Component Description

INFOID:0000000006259932

Component		Function	
Automatic drive positioner co	ontrol unit	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:0000000006259933

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:0000000006259934

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:0000000006259935

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 IDENTIFICATION	Displays part numbers of driver seat control unit parts.

CONSULT-III Function

INFOID:0000000006259936

SELF-DIAGNOSIS RESULTS Refer to <u>ADP-136</u>, "DTC <u>Index"</u>.

DATA MONITOR

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

DIAGNOSIS SYSTEM (DRIVER SEAT CONTROL UNIT)

< SYSTEM DESCRIPTION >

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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	"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	"√"	-	×	Voltage input from door mirror sensor (passenger side 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/right 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.	
DOOR SW-FR	"ON/OFF"	×	×	ON/OFF status judged from the door switch (front passenger side) signal.	
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.	

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DIAGNOSIS SYSTEM (DRIVER SEAT CONTROL UNIT)

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Monitor Item	Unit	Main Signals	Selection From Menu	Contents
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 actuator 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	"LOCK/UN- LOCK"	×	×	LOCK/UNLOCK status judged from steering lock unit.

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
		150 mm
EXIT TILT SETTING	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 >

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DTC/CIRCUIT DIAGNOSIS

DOOR MIRROR REMOTE CONTROL SWITCH MIRROR SWITCH

MIRROR SWITCH: Description

INFOID:0000000006259937

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:0000000006259938

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/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-RH/LH	Other than above.	: OFF

Is the inspection result normal?

YES >> Mirror switch function is OK.

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

MIRROR SWITCH: Diagnosis Procedure

INFOID:0000000006259939

1. CHECK MIRROR SWITCH INPUT SIGNAL

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

Door mirror rer	(+) note control switch	(-) Voltage (V) (Approx.)	
Connector	Terminal		(, 4, 1, 2,)
	4		
D14	12	Ground	E
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.
- 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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DOOR MIRROR REMOTE CONTROL SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH ADP]

Automatic drive po	ositioner control unit	Door mirror remote control switch		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
	3		15		
M75	4	D14	13	Existed	
IVI75	15	D14	12	Existed	
	16		4		

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

Automatic drive po	ositioner control unit		Continuity
Connector	Terminal		Continuity
	3	Ground	
M75	4	Ground	Not existed
IVI7 S	15		Not existed
	16		

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to ADP-202, "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 rem	ote control switch		Continuity
Connector	Terminal	Ground	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-74, "Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-44, "Intermittent Incident".

>> INSPECTION END

MIRROR SWITCH: Component Inspection

INFOID:0000000006259940

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.

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INFOID:0000000006259942

INFOID:0000000006259943

Doo	r mirror remote control	switch	0	ondition	Continuity
Connector	Teri	minal		oridition	Continuity
	4			RIGHT	Existed
	4			Other than above	Not existed
	13			LEFT	Existed
D14	13	7	Mirror switch	Other than above	Not existed
D14	15		WIIITOI SWILCIT	UP	Existed
	15			Other than above	Not existed
	10			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-74, "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 CONSULT-III.

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.
- 4. Check voltage between door mirror remote control switch harness connector and ground.

(+)	Voltage (V)		
Door mirror rem	ote control switch	(–)	Voltage (V) (Approx.)	
Connector	Terminal		(11 - 7	
	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 p	ositioner control unit	Door mirror remote control switch		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
M75	2	D14	11	Existed	
IVI7 5	14	D14	10	LXISIGU	

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

Automatic drive po	sitioner control unit		Continuity
Connector	Terminal	Ground	Continuity
M75	2	Ground	Not existed
IVITS	14		NOT EXISTED

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to ADP-202, "Removal and Installation".

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 rem	ote control switch	Continuity	
Connector	Terminal	Ground	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-74, "Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-44, "Intermittent Incident".

>> INSPECTION END

CHANGEOVER SWITCH: Component Inspection

INFOID:0000000006259944

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	mirror remote control	switch	Con	dition	Continuity
Connector	Terr	ninal	Con	uition	Continuity
	10			LEFT	Existed
D14	10	7	Changeaver awitch	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-74, "Removal and Installation".

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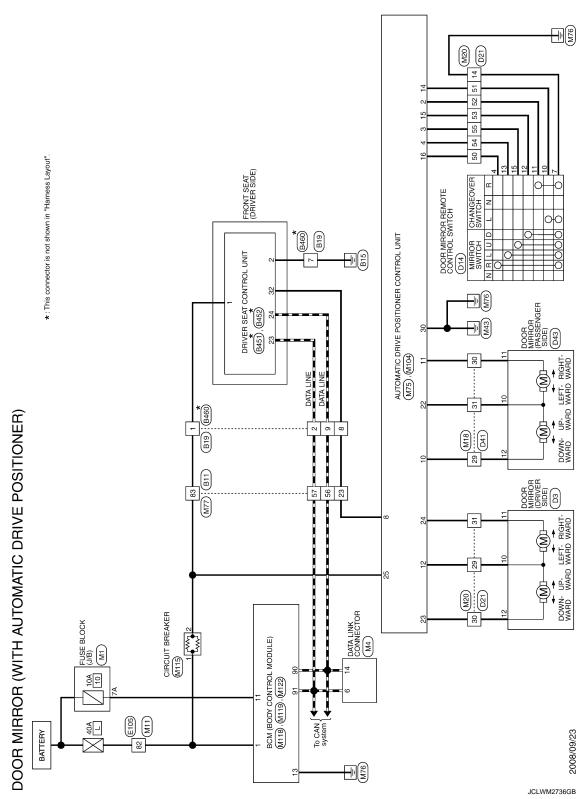
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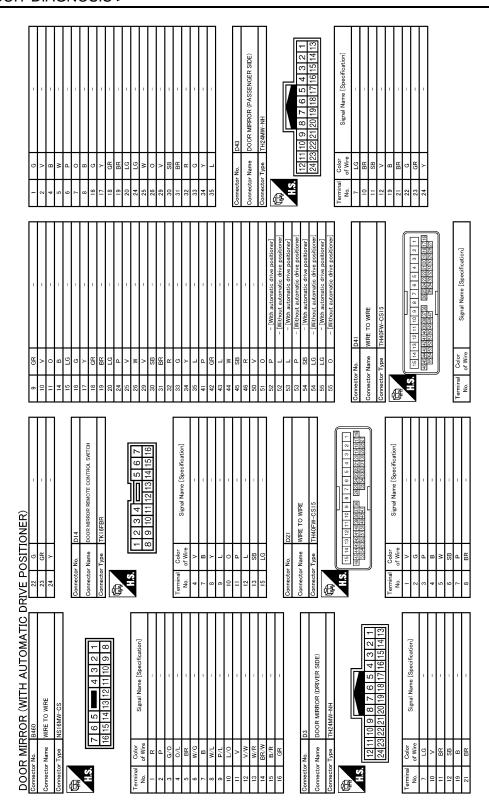
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DOOR MIRROR

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



Convention Number Conv	NSI NSI
A SB A A A A A A A A A	Connecton Conn
	44 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
Signal Name [Specification]	
	WINE TO WINE THEOMW-CS19 Signal Name (Specification)

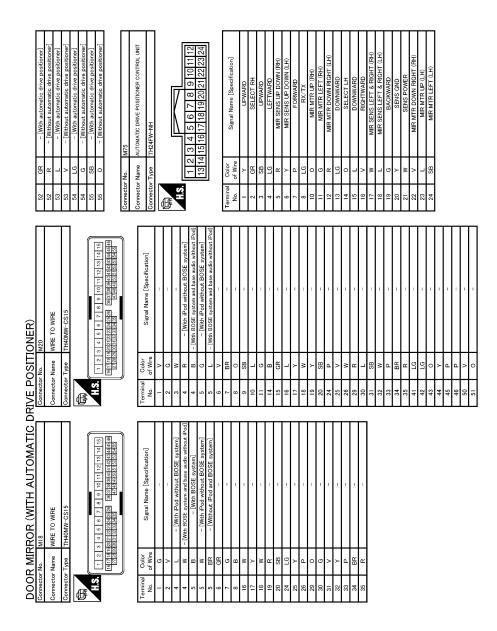


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Revision: 2011 November

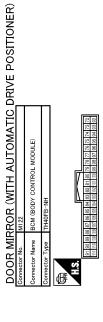
	А
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55 60 61 61 63 63 64 64 73 73 73 73 74 75 76 88 89 80 80 80 80 80 80 80 80 80 80	D
Specification]	Е
Signal Name [Specification] MII WRE TO WRE TH70FW-CSIO-M3 Signal Name [Specification] Signal Name [Specification]	F
Terminal Color No. 14 P P P P P P P P P P P P P P P P P P	G
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NER	I
10NER)	J
DRIVE POSITIONER 72	K
	MIR
Connector Name First Townsector Name Cannector Name Cannector Name Cannector Name Cannector Name Cannector Type Th/10M/-CS10-M3 Th/10M/-CS10	M
RROR (WI WIRE TO WIRE TH70MW-CS10	Ν
Connector No. Connector No. Connector No. Connector No. Connector Type Connecto	0
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MIR-19 2011 MURANO



JCLWM6094GB

- 1	Connector No. M118 Connector Name BCM (BODY CONTROL MODULE)	П	4	The state of the s	S. T.		2]	- 0	Signal Name [Specification] No. of Wire		POWER WINDO	3 L POWER WINDOW POWER SUPPLY (RAP)		- N	Τ	Connector Name BCM (BODY CONTROL MODULE)	Connector Type NS16FW-CS		彦		4567 89	11 12 13 14 15 16 17 18 19			Color	No. of Wire Signal Name [Specification]	4 P INTERIOR ROOM LAMP POWER SUPPLY	5 G PASSENGER DOOR UNLOCK OUTPUT		8 V ALL DOOR, FUEL LID LOCK OUTPUT	9 G DRIVER DOOR, FUEL LID UNLOCK OUTPUT	10 P REAR DOOR UNLOCK OUTPUT	11 LG BAT (FUSE)	В	O PUSH-BU	+	5 E	18 BR IONN SIGNAL LH	-																	E	A 3 C
	- X 66	Connector No. M104	<u> </u>	Т				25 26	27 28 29 30	1		Terminal Color Signal Name [Consideration]	of Wire	*	_	1 0	5 51	30 B GND			Connector No. M115	Connector Name CIRCUIT BREAKER	Connector Type MA02EM-D-1 C	7			<u></u>		2			Terminal Color Signal Name [Specification]	of Wire	- w -	2 W -																						F	= = 3
IONER)	1 1	1 1	1	1 1	1	-	1	I	1			1	1	1	1			1		1	1				1	1	1	-	-	 [With automatic drive positioner] 	- [Without automatic drive positioner]	1	ı	1	ı	1	1	1	I	1					1													J
DRIVE PO	\$	49 R 50 LG	Н	52 B 53 BR	╁	Н	Н	T	SS SB	╅	3 19	Н	63 0	4	> ::	> 00 29	Т	69 SHIELD	П	+	+	73	+	5/ 92	77 BB	92 B	┝	81 LG	Н	Н	83 GR	\dashv	85 ^	\dashv	+	+	+	+	5 6	+	200	> C	+	╀	57 86	1											M	(
DOOR MIRROR (WITH AUTOMATIC	M77 WIRE TO WIRE	TH80FW-CS19				2	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			Signal Name [Specification]		-	1	1			1	-	1	1					1	1	1	1	-	-	-	1	1	1	-	1	1		1					,	1													/
DOOR MIRROF	Connector No. M77 Connector Name WIRE T	\neg	ą		S.			<i>-</i>		No. of Wire		2 B	3 W	Α.	> 3	0 1	8 SHELD	Г	H	\perp	+	5 2	+	g a	╁	╀	H	20 LG	Н	Н	23 LG	24 SB	25 Y	\dashv	28 R	+	+	32 BK	74 ×	T	2 >	+	Ŧ	╀	46 LG	$\frac{1}{2}$											(0
																																															J	JCL	.WI	M60	095	GE	3				F)



Terminal	Color	
No.	of Wire	Signal Name [Specification]
72	В	ROOM ANT 2-
73	Α	ROOM ANT 2+
74	٨	PASSENGER DOOR ANT-
75	57	PASSENGER DOOR ANT+
9/	^	DRIVER DOOR ANT-
77	Ь	DRIVER DOOR ANT+
80	SB	IMMOBI ANTENNA CONTROL
81	0	IMMOBI ANTENNA SIGNAL
82	BR	IGN RELAY (F/B) CONT
83	Ь	KEYLESS ENTRY RECEIVER SIGNAL
87	ч	COMBI SW INPUT 5
88	GR	COMBI SW INPUT 3
06	Ь	CAN-L
91	٦	CAN-H
95	ď	KEY SLOT ILL
93	Ь	ON IND
96	٦	ACC RELAY CONT
96	Υ	CVT SHIFT SELECTOR POWER SUPPLY
66	۸	SHIFT P
100	Д	PASSENGER DOOR REQUEST SW
101	М	DRIVER DOOR REQUEST SW
102	Υ	BLOWER FAN MOTOR RELAY CONT
103	٦	KEYLESS ENTRY RECEIVER POWER SUPPLY
107	0	COMBI SW INPUT 1
108	Д	COMBI SW INPUT 4
109	SB	COMBI SW INPUT 2
110	5	HAZARD SW

JCLWM6096GB

AUTO ANTI-DAZZLING INSIDE MIRROR SYSTEM

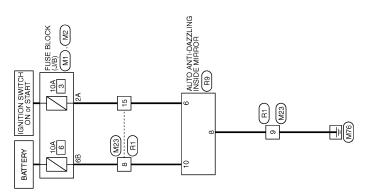
< DTC/CIRCUIT DIAGNOSIS >

[WITH ADP]

AUTO ANTI-DAZZLING INSIDE MIRROR SYSTEM

Wiring Diagram - INSIDE MIRROR SYSTEM -

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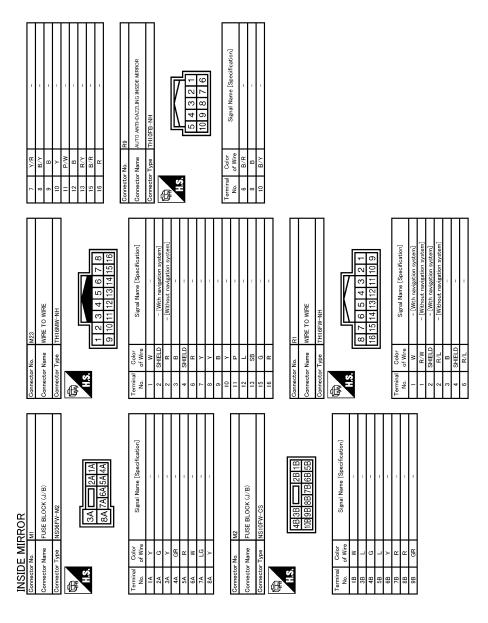
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JCLWM6099GB

2010/09/06

INSIDE MIRROR



JCLWM6100GB

[WITH ADP]

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ECU DIAGNOSIS INFORMATION

DRIVER SEAT CONTROL UNIT

Reference Value

VALUES ON THE DIAGNOSIS TOOL

CONSULT-III MONITOR ITEM

Monitor Item	Condi	tion	Value/Status
SET SW	Set switch	Push	ON
OLI OVV	Set Switch	Release	OFF
MEMORY SW1	Maman, quitab 1	Push	ON
WEWORY SWI	Memory switch 1	Release	OFF
MEMORY CWO	Maman, quitab 0	Push	ON
MEMORY SW2	Memory switch 2	Release	OFF
CLIDE CW ED	Cliding quitab (famuard)	Operate	ON
SLIDE SW-FR	Sliding switch (forward)	Release	OFF
CLIDE OW DD	Cliding quitab (backgrad)	Operate	ON
SLIDE SW-RR	Sliding switch (backward)	Release	OFF
DECINI CW ED	Declining with the terms of	Operate	ON
RECLN SW-FR	Reclining switch (forward)	Release	OFF
DECIN OW DO	Reclining switch (back-	Operate	ON
RECLN SW-RR	ward)	Release	OFF
LIET ED OW LID	Lifting quitch front (.m)	Operate	ON
LIFT FR SW-UP	Lifting switch front (up)	Release	OFF
LIFT FR SW-DN	Lifting quitch front (days)	Operate	ON
LIFT FK SW-DN	Lifting switch front (down)	Release	OFF
LIFT RR SW-UP	Lifting quitab roor (up)	Operate	ON
LIFT KK SW-UP	Lifting switch rear (up)	Release	OFF
LIET DD CW DN	Lifting quitab room (down)	Operate	ON
LIFT RR SW-DN	Lifting switch rear (down)	Release	OFF
MID CON SW LID	Mirror quitab	Up	ON
MIR CON SW-UP	Mirror switch	Other than above	OFF
MIR CON SW-DN	Mirror switch	Down	ON
WIR CON SW-DIN	WIITOI SWILCTI	Other than above	OFF
MIR CON SW-RH	Mirror switch	Right	ON
IVIIIX CON SVV-KIT	WILLOU SWILCH	Other than above	OFF
MID CON SWALL	Mirror quitch	Left	ON
MIR CON SW-LH	Mirror switch	Other than above	OFF
MID CHNC CW D	Changeover switch	Right	ON
MIR CHNG SW-R	Changeover switch	Other than above	OFF
MID CHNC CW I	Changeover switch	Left	ON
MIR CHNG SW-L	Changeover switch	Other than above	OFF
TILT C\\\/ LID	Tilt owitch	Upward	ON
TILT SW-UP	Tilt switch	Other than above	OFF
TILT CM/ DOMAN	Tilt awitab	Downward	ON
TILT SW-DOWN	Tilt switch	Other than above	OFF

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< ECU DIAGNOSIS INFORMATION >

Monitor Item	Cor	ndition	Value/Status
TEL 5000 0W 5D		Forward	ON
TELESCO SW-FR	Telescopic switch	Other than above	OFF
TELESCO SW DD	Talagania awitah	Backward	ON
TELESCO SW-RR	Telescopic switch	Other than above	OFF
DETENT SW	A/T selector lever	P position	OFF
DETENT SW	A/ I Selector lever	Other than above	ON
STARTER SW	Ignition position	Cranking	ON
STAINTENSW	ignition position	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*
		Up	The numeral value decreases *
LIFT FR PULSE	Seat lifter (front)	Down	The numeral value increases *
		Other than above	No change to numeral value*
		Up	The numeral value decreases *
LIFT RR PULSE	Seat lifter (rear)	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
D DANG OW CAN	A/T polaritarily	P position	ON
P RANG SW CAN	A/T selector lever	Other than above	OFF
D DANGE (CAN')	A/T location l	R position	ON
R RANGE (CAN)	A/T selector lever	Other than above	OFF
DOOR SW EI	Driver deer	Open	ON
DOOR SW-FL	Driver door	Close	OFF

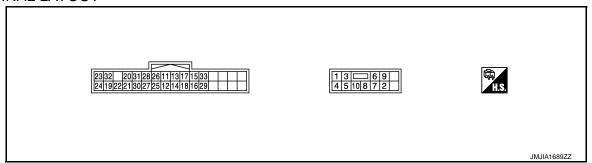
< ECU DIAGNOSIS INFORMATION >

[WITH ADP]

Monitor Item	Cond	ition	Value/Status				
DOOR SW-FR	December door	Open	ON				
DOOK SW-FK	Passenger door	Close	OFF				
IGN ON SW	Ignition switch	ON position	ON				
IGIN OIN SW	ignition switch	Other than above	OFF				
ACC ON SW	Ignition quitch	ACC or ON position	ON				
ACC ON SW	Ignition switch	Other than above	OFF				
KEY ON SW	Intelligent Koy	Inserted is key slot	ON				
KEY ON SW	Intelligent Key	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				
KILS DK ONLK	side door request switch	OFF	OFF				
VHCL SPEED (ABS)	Can aignal from ABC	Received	ON				
VHCL SPEED (ABS)	Can signal from ABS	Not received	OFF				
HANDLE	The BCM for handle position	an in diaplayed	LHD				
HANDLE	The BCM for handle position	on is displayed	RHD				
TRANSMISSION	Transmission type is displa	wod	AT or CVT				
INAMOMIOSION	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

Termina (wire d		Description		000	dition	Voltage (V)
+	-	Signal name	Input/ Output			(Approx)
1 (R)	Ground	Power source	Input			Battery voltage
2 (B)	Ground	Ground (power)	_	-	_	0
3 (G)	Ground	Sliding motor backward output signal	Output	Seat sliding	Operate (backward)	Battery voltage
(0)		Julput Signal		 	Stop	0
4 (G/R)	Ground	Sliding motor forward output signal	Output	Seat sliding	Operate (forward)	Battery voltage
(3/14)		put signal		 	Release	0
5	Ground	Reclining motor backward	Output	Seat reclining	Operate (backward)	Battery voltage
(V)		output signal		ı	Stop	0

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[WITH ADP]

	nal No. color)	Description				Voltage (V)
+	-	Signal name	Input/ Output	Cond	dition	(Approx)
6 (R/L)	Ground	Reclining motor forward output signal	Output	Seat reclining	Operate (forward)	Battery voltage
(11/L)		output signal			Release	0
7 (L)	Ground	Lifting motor (rear) down output signal	Output	Seat lifting (rear)	Operate (down)	Battery voltage
(=)		output digital			Stop	0
8 (L/W)	Ground	Lifting motor (rear) up out- put signal	Output	Seat lifting (rear)	Operate (up)	Battery voltage
(2, **)		put digital			Stop	0
9 (L/R)	Ground	Lifting motor (front) down output signal	Output	Seat lifting (front)	Operate (down)	Battery voltage
(L/11)		output signal			Stop	0
10 (L/B)	Ground	Lifting motor (front) up out- put signal	Output	Seat lifting (front)	Operate (up)	Battery voltage
()		par o.g.ra.			Stop	0
11 (G/B)	Ground	Sliding switch backward signal	Input	Sliding switch	Operate (backward)	0
(0,2)		oigna.			Release	Battery voltage
12 (G/W)	Ground	Sliding switch forward signal	Input	Sliding switch	Operate (forward)	0
					Release	Battery voltage
13 (R/G)	Ground	Reclining switch backward signal	Input	Reclining switch	Operate (backward)	0
		<u> </u>			Release	Battery voltage
14 (R/W)	Ground	Reclining switch forward signal	Input	Reclining switch	Operate (forward)	0
-					Release	Battery voltage
15 (Y/B)	Ground	Lifting switch (rear) down signal	Input	Lifting switch (rear)	Operate (down)	0
				, ,	Release	Battery voltage
16 (Y/R)	Ground	Lifting switch (rear) up signal	Input	Seat lifting switch (rear)	Operate (up)	0
-					Release	Battery voltage
17 (LG/B)	Ground	Lifting switch (front) down signal	Input	Lifting switch (front)	Operate (down)	0
					Release	Battery voltage
18 (LG/R)	Ground	Lifting switch (front) up signal	Input	Seat lifting switch (front)	Operate (up)	0
					Release	Battery voltage
19 (G/Y)	Ground	Sliding sensor signal	Input	Seat sliding	Operate	10mSec/div 2V/div JMJIA0119ZZ
					Stop	0 or 5

< ECU DIAGNOSIS INFORMATION >

[WITH ADP]

	nal No. color)	Description		_	Dec.	Voltage (V)
+	-	Signal name	Input/ Output	Cond	dition	(Approx)
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)	2.00110	, 5 oignai			Other than above	5
28 (V/W)	Ground	Memory switch 2 signal	Input	Memory switch 2	Press Other than above	<u> </u>
29 (O/L)	Ground	Set switch signal	Input	Set switch	Press Other than above	<u>0</u> 5
30 (BR)	Ground	Tilt sensor signal	Input	Tilt	Operate	10mSec/div 2V/div JMJIA0119ZZ
					Other than above	0 or 5

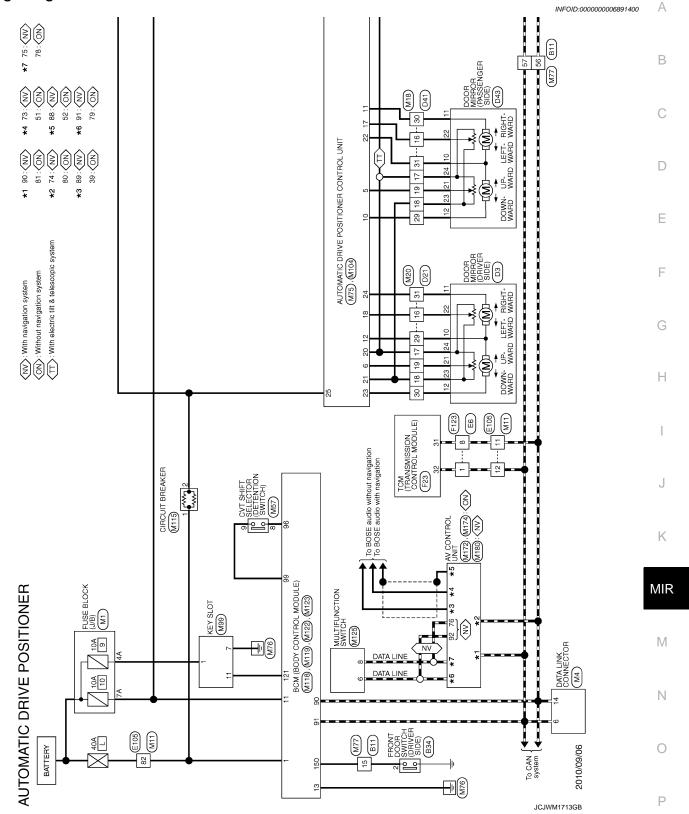
< ECU DIAGNOSIS INFORMATION >

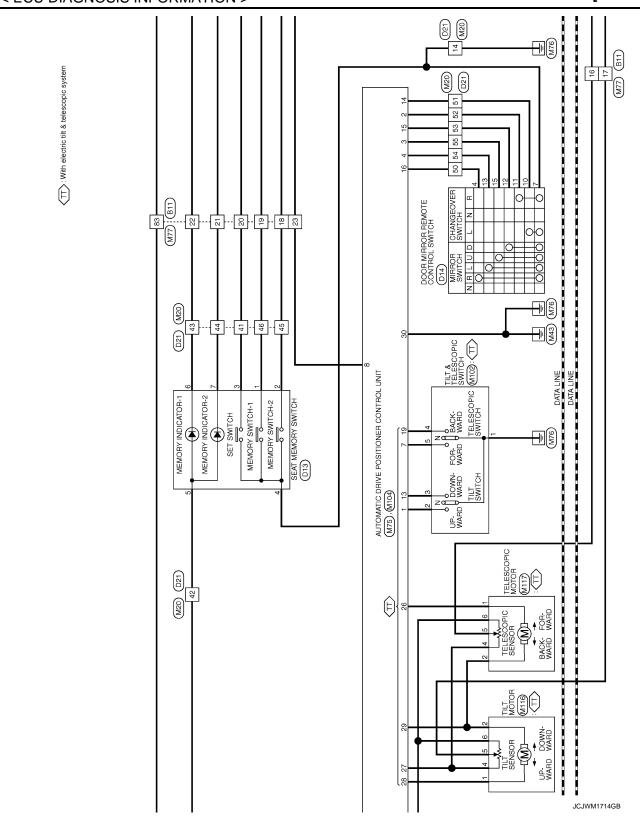
[WITH ADP]

	nal No. color)	Description		Cond	dition	Voltage (V)				
+	-	Signal name	Input/ Output	Conc	dition	(Approx)				
31	Ground	Telescopic sensor signal	Input	Telescopic	Operate					
(BR/W)	Ground	relescopic serisor signal	Input	relescopic	Other than above	0 or 5				
32 (W/L)	Ground	UART communication (TX/RX)	Input	Ignition s	witch ON	10msec/div 5V/div JMJIA1391ZZ				
33 (W)	Ground	Sensor power supply	Output	_	_	Battery voltage				

[WITH ADP]

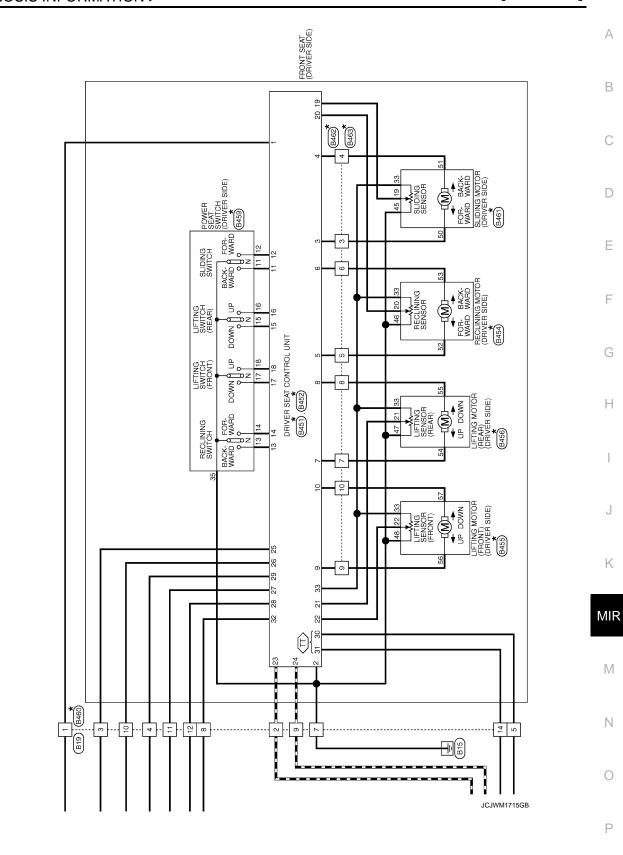
Wiring Diagram - AUTOMATIC DRIVE POSITIONER CONTROL SYSTEM -





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

TT>: With electric tilt & telescopic system



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AUT	TAMC	AUTOMATIC DRIVE POSITIONER									
Connector No.	or No.	B11	47	SB	-	Connector No.	Ш	B19	Connector No.	B451	_
Connector Name		WIRE TO WIRE	48	SHELD	- T	Connect	Connector Name	WIRE TO WIRE	Connector Name	DRIVER SEAT CONTROL UNIT	
Connector Type	П	TH80MW-CS19	20	Н		Connect	Connector Type	NS16FW-CS	Connector Type	B NS12FW-CS	
Q.		Ū	15	7	-	4			d.		ı
手			52	n >		事			主		
Š			54	╀		Y S	Ŀ	0 3 4 - 15 6 7	S. T	13 2	
			22	Н	-		- α	0 10 11 10 13 14 15		α 0 0	
			26	۵	1		□	9 10 11		2 10 0 7	
			57	<u> </u>							
			8 8	T		ŀ	-				_
l erminal No.	Color of Wire	Signal Name [Specification]	6 O9	B 8		lerminal No.	of Wire	Signal Name [Specification]	No. of Wire	or Signal Name [Specification]	
-	SHIELD	-	19	F	1	-	띪	1	-	1	_
2	В	-	62	R/W		2	7	-	2 B	-	
8	R/L	1	63	LG	_	3	Μ	-	3 G	_	
4	R/W	1	64	>	1	4	۵	ı	4 G/R		
5	SB	1	69	HH.	1	2	>	1	2	1	
9	۵	1	99	┞	,	9	æ	1	6 R/L		_
_	>	1	29	SR	1	7	8	1	7	1	
œ	SHIELD	1	89	~	1	8	>	1	8 L/W	- M	
6	BR/L	1	69	SHIELD	- Q	6	۵	ı	9 L/R	1	_
10	5/A	1	70	Н		10	57	1	10 L/B		
=	J/Y	1	7.1	B/R	1	1	α	1			
12	M/L	1	72	Н	-	12	SB	1			
13	7	1	73	57	1	13	0	1			
14	BR	1	74	H	-	14	æ	I			
12	SB	1	75	L	1	15	9	1			
91	BR	1	9/	9	-	16	B/W	1			
17	۸	1	77	۳	1						
18	SB	1	79	L	1						
19	۳	1	80	H	-	Connector No.	П	B34			
20	Ь	-	81	ď	-	00000	June Name	(BOIN BOOM SWITCH (DBIVED SIDE)			
21	FIG	-	82	7	-			NOW DOOK SMICH (DIANE)			
22	W	-	83	BR	-	Connect	Connector Type /	A03FW			
23	Υ	-	84	0	-	þ					
24	GR	-	82	Н	-	F		E			
22	Υ	-	98	SB	-	, E					
27	>	1	87	~	ı		-	•			
78	M/L	1	88	H	1			- 0			
90	۵	,	68	æ	1			7			
31	٥	1	6	┝	1			3			
32	8		16	0]			
34	S		92	æ		Termina	_				
32	SHELD		93	G		Š	of Wire	Signal Name [Specification]			
98	0/		94	╀	1	٥	g,	1			
3 5	2 -		, a	- 8		4	33				
9	3 >		96	╀							
41	B		6	╀	1						
64	5 67		8	╀							
46	5		66	0							
				┨							

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< ECU DIAGNOSIS INFORMATION >

[WITH ADP]

B461	АВ
14 BR/W 15 BR/W 15 BR/W 16 BR/W 16 BR/W B461 Connector Name Signa B462 Connector Type F0098-0344 Signa G/Y Signa G/Y Signa G/Y Signa G/Y Signa G/Y Signa G/W Signa G/W	C
Signal Name [Specification] Sign	E
Name	G
Commetto	Н
Signal Name [Specification]	I .
Terminal Color No. 67 Wire No. 67 Wire Sign W 4 Sign W 4 Sign W 7 Sign W 8 Sign W 8 Sign W 8 Sign W 8 Sign W 9	J K
	MIR
Colorector Name B442	M
Name B452 Name B452 Name B452 Name B452 Name B452 Name B452 Name B454 Name B654 Name Name B654 Name	Ν
Connector No. Connector No	0
JCJWMITTGB	Р

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AUTOMATIC DRIVE POSITIONER Connector No. B463	Connector No. D13	Connector No.	D21	\mathbb{H}	\mathbb{H}	
Connector Name WIRE TO WIRE	Connector Name SEAT MEMORY SWITCH	Connector Name	WIRE TO WIRE	53 P	[Without automatic drive positioner] Mith automatic drive positioner]	
Connector Type NS10FW-CS	Connector Type A08FW	Connector Type	TH40FW-CS15	╁	<u> </u>	
1	4	修		Н	Н	
		ν <u>i</u>	15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	Connector No.	D41	
5 6 3 4 9 10	35 67214		SS 54 58 52 51 50 48 48 47 5 58 54 58 52 51 50 28 52 7 5	Connector Name	1	
				Connector Type	TH40FW-CS15	
Terminal Color Signal Name [Specification] No. of Wire	Terminal Color Signal Name [Specification]	Terminal Color No. of Wire	Signal Name [Specification]	1		
- 5	Н	Н	1	<u></u>		
G/R –	2 SB –	2 G	-		15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	
- 1		S 4		404	555453525150494847 353439323130292827	
	GR	╀	1	J		
	H	H	-			
	7 W -	Н	1	Terminal Color	or Signal Name [Specification]	
- R		x 0	1 1	+	ı	
	Connector No. D14	+		- 2		
	Т	╀	1	4		
		H	-	2 M	-	
Connector No. D3	Connector Type TK16FBR	Н	1	9	1	
Connector Name DOOR MIRROR (DRIVER SIDE)	4	16 G	-	+		
т	Atto	<u>-</u> 5	1 1	ω <u>τ</u>	1 1	
1 ype I nzamw-wn	HS. [4191914] [419191]	╀		+		
	4 6 7	╁	1	18 GR		
	10 11 12 13 14	24 P	1	19 BR	-	
121111000767		_	ı		1	
7 7 7	L	+	Í	1		
24 25 25 21 20 13 10 10 11 10 15 15 25 25 25	Signal Name [Specification]	+	1	+		
	t	31 28	1 1	20 00		
Terminal Color	╁	╁	1	30 SB		
	> 8	┞	1	H	1	
TG	6	L	ı	H	1	
>	- 0 01	35 L	ı	33 G	1	
BR -	11 P -	41 P	1	34 →	1	
	12 L –	42 GR	1	35 L	1	
	13 SB -	43 L	-			
BR -	Н	Н	ı			
		4	ı			
~		\dashv	1			
Υ		20 ^	ı			
		+				
		52 P	- [With automatic drive positioner]			
		52 L	 [Without automatic drive positioner] 			

JCJWM1718GB

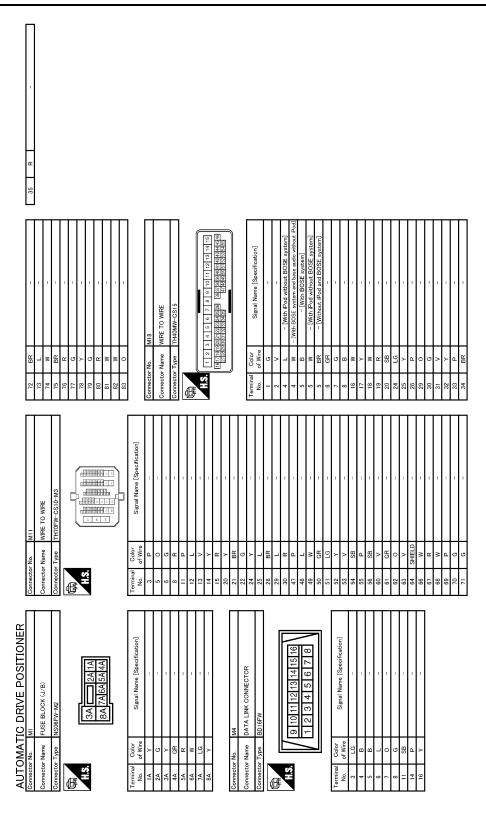
DRIVER SEAT CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[WITH ADP]

8 8 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	А
SEC SPEED SENOR SEC SPEED SENOR LU 8 SEL INRAR SOL SEC-INRAR SOL OND SEC-INRAR SOL OND SEC-INRAR SOL SECTINE SECTION OND VIGN VIGN Signal Name [Specification]	В
C C C C C C C C C C	С
1 1 1 1 1 1 1 1 1 1	D
on system] avigation system] avigation system] (A 2 46 (A 1 42 (A 1 43 (A 1 42 (A 1 43 (A 1 43 (A 1 43 (A 1 44 (A 1 42 (A 1 43 (A 1 43	Е
Color Colo	F
	G
73 73 74 74 77 77 77 77 77 77 77 77 77 88 88 88 88	Н
Signal Name (Specification)	1
WIRE TO WIRE THYOMW-CS10-M3 Signal Name	J
Connector No. 6 Connector Name W Connector Type 1 Color 1 Co	К
	MIR
AUTOMATIC DRIVE POSITIONER Connector No. D43	M
MATIC DRIVE Pub Pu	N
Connector Name Connector Name Connector Name Connector Type Connector Type Connector Type Connector Name Connector Name Connector Name Connector Name Connector Type Connector Name Connector Type Conn	0
	JCJWM1719GB

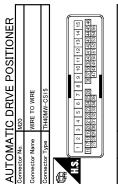
Revision: 2011 November MIR-37 2011 MURANO



JCJWM1720GB

FORWARD	RX/TX	MIR MTR UP (RH)	MIR MTR LEFT (RH)	MIR MTR DOWN RIGHT (LH)	DOWNWARD	SELECT LH	DOWNWARD	RIGHTWARD	MIR SENS LEFT & RIGHT (RH)	MIR SENS LEFT & RIGHT (LH)	BACKWARD	SENS GND	SENS POWER	MIR MTR DOWN RIGHT (RH)	MIR MTR UP (LH)	MIR MTR LEFT (LH)
Ь	D7	0	5	Я	57	0	٦ .	۸	M	1	g	Υ	۸	۸	7	SB
7	8	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

- [With automatic drive positioner]	 [Without automatic drive positioner.] 	- [With automatic drive positioner]	 [Without automatic drive positioner] 	- [With automatic drive positioner]	 [Without automatic drive positioner. 	- [With automatic drive positioner]	- [Without automatic drive positioner.	
GR	В	7	۸	٦d	9	SB	0	
52	52	53	53	54	54	55	55	



TO LOUIS POPULA	13 7 9 2 4 5 6 8	Signal Name [Specification]	1	-	-	_	-	1
т		Color of Wire	PΠ	В	Р	В	Υ	^
	是 H.S.	Terminal No.	1	4	9	7	8	6

Connector Name	r Name	AUTOMATIC DRIVE POSITIONER CONTROL UNIT
Connector Type	r Type	TH24FW-NH
E E		
E L		
	1 2 13 14	3 4 5 6 7 8 9 10 11 12 15 16 17 18 19 20 21 22 23 24
Terminal No.	Color of Wire	Signal Name [Specification]
-	>	UPWARD
2	GR	SELECT RH
3	SB	UPWARD
4	57	LEFTWARD
2	2	MIR SENS UP DOWN (RH)
9	Υ	MIR SENS UP DOWN (LH)

	-		ı	1	1	1	1	1	1	-			1		1	1	Т	-	=	-	1	1	1	1	1	1	-	_
С	SB	٦	5	В	GR	٦	У	W	У	SB	Ь	۸	W	۳	7	SB	×	۵	BR	~	5 T	ΒŢ	0	>	-	-	>	0
œ	6	10	=	14	12	91	17	18	19	20	24	25	56	59	30	31	32	33	34	35	41	42	43	44	45	46	50	51

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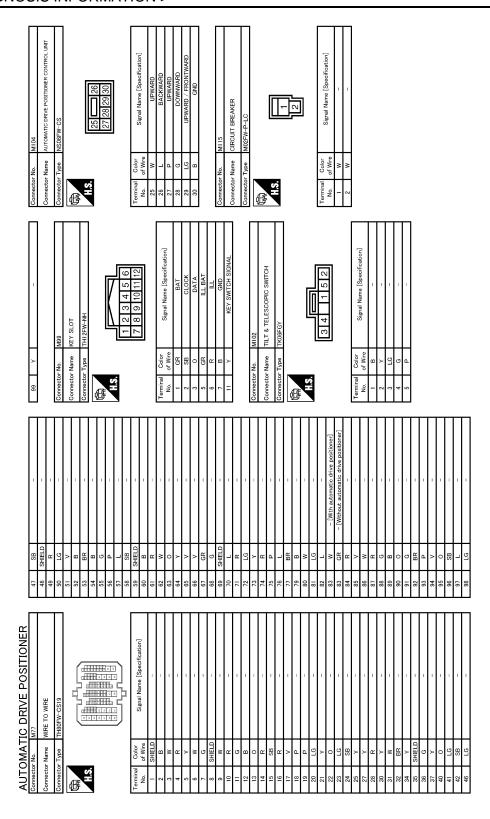
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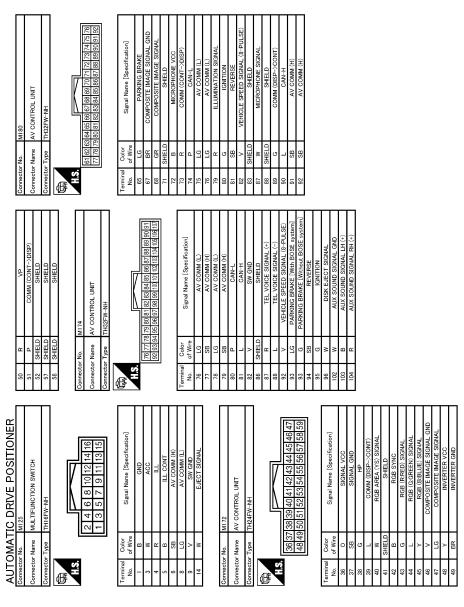


JCJWM1722GB

DRIVER SEAT CONTROL UNIT

[WITH ADP]

M123 TH40FG-NH TH40FG-NH TH40FG-NH TH40FG-NH	Signal Name (Specification) RAIN SENSOR SERRIAL LINK OPTICAL, SERSOR FUSE CHECK STOP LAME SW REX SLOT SW (RM YS, LOT SW (LOK MW) (COMEI SW OUTPUT 1 (COMEI SW OUTPUT 2 (COMEI SW OUTPUT 1 (COMEI SW OUTPUT 2 (COMEI SW OUTPUT 3 (COMEI SW OUTPUT		АВ
Connector No. M173 Connector Name BCM (BODY C Connector Type TH40FG-NH H.S. TESS CONNECTOR C THANK CONNECTOR C	Terminal Color No. Signa		C
MI22 BCM (BODY CONTROL MODULE) TH40FB-NH CONTROL MODULE) CONTROL MODULE)	Signal Mame [Specification] ROOM ANT 2- ROOM ANT 2- ROOM ANT 2- PASSENGER DOOR ANT- DRIVER DOOR ANT- DRIVER DOOR ANT- DRIVER DOOR ANT- DRIVER DOOR ANT- INAMOBIL ANTERNA CONTROL IMMOBIL ANTERNA CONTROL IMMOBIL ANTERNA CONTROL IMMOBIL ANTERNA SIGNAL COMBIS WINPUT 3 COMBIS SIGNAL COMBIS WINPUT 3 COMBIS SIGNAL COMBIS		E F
Connector No. M122 Connector Name BCM (BODY Connector Type TH40FB-NH M.S. THE GOOD THE CONTENT OF T	Terminal Color Sign No. PAS 73		G
MITIB BCM (BODY CONTROL MODULE) MOSFB-LC	Signal Name [Specification] POWER WINDOW POWER SUPPLY (RAV) POWER WINDOW POWER SUPPLY (RAV) M119 BOM (BODY CONTROL MODULE) NATIBROPH CONTROL MODULE) Signal Name [Specification] Signal Name [Specification] NATERIOR POOR UALOR OUTPUT ALL DOOR FUEL LID LOCK OUTPUT FEASTER DOOR UNLOCK OUTPUT BAT TURN SIGNAL RH		J
Connector No. M118 Connector Name BCM Connector Type M03F	Terminal Color No. Of Wire Of Wi		K
/E POSITIONER	Signal Name (Specification) PPIC MOTOR CS Signal Name [Specification]		MIR M
CICC No. MIII6 COLOR No. MIII6 COLOR No. MIII6 COLOR Type INSOFTW-CS S.S. M.	of Wire of Color of Wire of Color of Wire of Color of Wire of Color of Color of Color of Wire of Color of Wire		N O
A Commo	Temmon On	JCJWM1723GB	Р



JCJWM1724GB

Fail Safe

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

DRIVER SEAT CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[WITH ADP]

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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	<u>ADP-45</u>
	EEPROM	B2130	<u>ADP-46</u>
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	<u>ADP-47</u>
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-III	Tim	ing ^{*1}		
display	Current mal- function	Previous mal- function	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

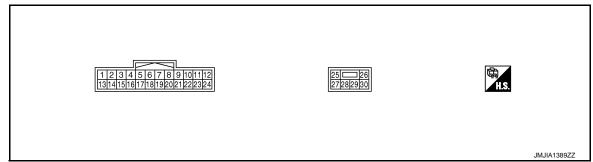
^{• 1-39:} Displayed if any previous malfunction is present when current condition is normal. The numeral value increases by one at each IGN ON to OFF cycle from 1 to 39. The counter remains at 39 even if the number of cycles exceeds it. However, the counter is reset to 1 if any malfunction is detected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

[WITH ADP]

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

Reference Value

TERMINAL LAYOUT



PHYSICAL VALUES

	nal No. color)	Description		Conditi	on	Voltage (V)
+	-	Signal name	Input/ Output	Conditi	OII	(Approx.)
1	Ground	Tilt quitab un aignal	lanut	Tilt switch	Operate (up)	0
(Y)	Giouna	Tilt switch up signal	Input	Till Switch	Other than above	5
2		Changeover switch RH		Changeover	RH	0
(GR)	Ground	signal	Input	switch position	Neutral or LH	5
3	Ground	Mirror switch up signal	Input	Mirror switch	Operated (up)	0
(SB)	Giodila	will of switch up signal	При	WIIITOI SWILCII	Other than above	5
4	Ground	Mirror quitab left aignal	lanut	Mirror quitab	Operated (left)	0
(LG)	Giouna	Mirror switch left signal	Input Mirror switch		Other than above	5
5 (R)	Ground	Door mirror sensor (pas- senger side) up/down signal	Input	Door mirror RH po	osition	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)	Glound	ward signal	При	switch	Other than above	5
8 (LG)	Ground	UART communication (TX/RX)	Output	Ignition switch ON	N	10msec/div 5V/div JMJIA1391ZZ

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[WITH ADP]

Terminal No. (wire color)		Description		Condit	on	Voltage (V)
+	-	Signal name	Input/ Output	Conditi	UII	(Approx.)
10	Ground	Door mirror motor (passenger side) up output	Output	Door mirror RH	Operate (up)	Battery voltage
(O)	Ground	signal	Output	Boot millor tar	Other than above	0
11	Ground	Door mirror motor (pas- senger side) left output	Output	Door mirror RH	Operate (left)	Battery voltage
(G)	Giodila	signal	Output	Door million Kiri	Other than above	0
		Door mirror motor (driv-			Operate (down)	Battery voltage
12		er side) down output sig- nal	0.4.4	D	Other than above	0
(R)	Ground	Door mirror motor (driv-	Output	Door mirror (LH)	Operate (right)	Battery voltage
		er side) right output sig- nal			Other than above	0
13					Operate (down)	0
(LG)	Ground	Tilt switch down signal	Input	Tilt switch	Other than above	5
4.4		Change aver aveitab III		Changeauar	LH	0
14 (O)	Ground	Changeover switch LH signal	Input	Changeover switch position	Neutral or RH	5
15	0	Mirror switch down sig-	lt	Naimen annitale	Operate (down)	0
(L)	Ground	nal	Input	Mirror switch	Other than above	5
16		M	1	NAT	Operate (right)	0
(V)	Ground	Mirror switch right signal	Input	Mirror 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 lef edge) 0.6 (close to right edge)
18 (L)	Ground	Door mirror sensor (driver side) left/right signal	Input	Operate (back-		Change between 0.6 (close to lef edge) 3.4 (close to right edge)
19 (G)	Ground	Telescopic switch back- ward signal	Input			0
(0)		waru siyilal				5
20 (Y)	Ground	Ground	_	_	1	0
21 (W)	Ground	Door mirror motor sen- sor power supply	Input	_		5

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AUTOMATIC DRIVE POSITIONER CONTROL UNIT

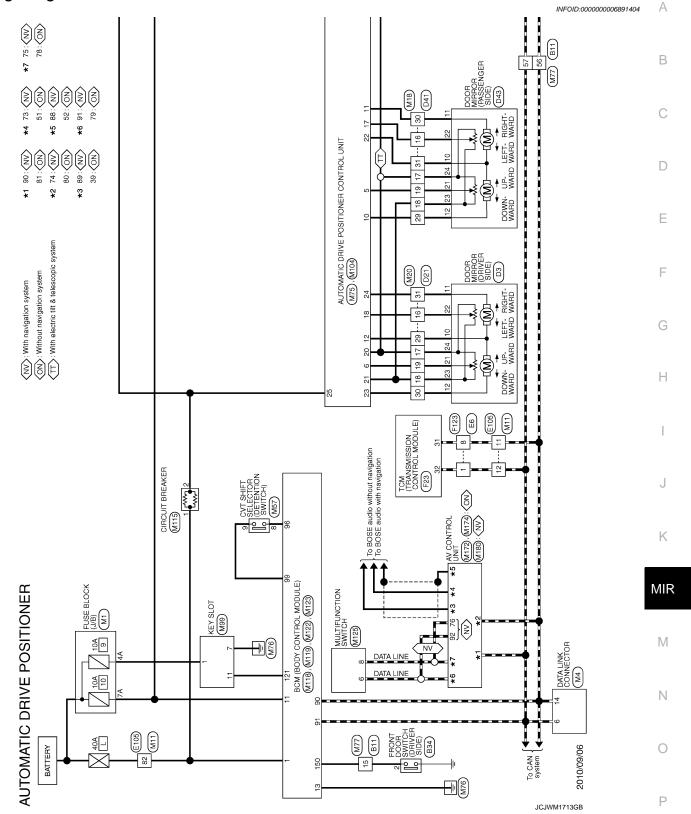
< ECU DIAGNOSIS INFORMATION >

[WITH ADP]

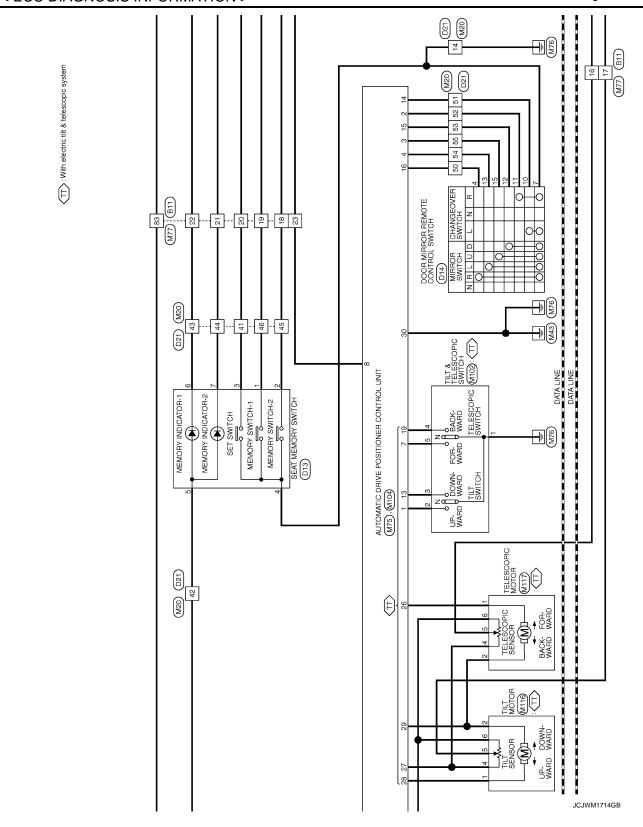
	nal No. color)	Description		0		Voltage (V)
+	-	Signal name	Input/ Output	Conditi	on	(Approx.)
		Door mirror motor (passenger side) down out-			Operate (down)	Battery voltage
22	Ground	put signal	Output	Door mirror (RH)	Other than above	0
(V)	Ground	Door mirror motor (passenger side) right output	Output	Door million (1411)	Operate (right)	Battery voltage
		signal			Other than above	0
23	Ground	Door mirror motor (driv-	Output	Door mirror (LH)	Operate (up)	Battery voltage
(L)	0.04.14	er side)up output signal	- Cuipui	2001	Other than above	0
24	Ground	Door mirror motor (driv-	Output	Door mirror (LH)	Operate (left)	Battery voltage
(SB)		er side)left output signal		(= ,	Other than above	0
25 (W)	Ground	Power source	Input	_		Battery voltage
26 (L)	Ground	Telescopic motor back- ward output signal	Output	Steering tele- scopic	Operate (back- ward)	Battery voltage
(=)		ward odiput signal		ЗСОРІС	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)	Cround	signal	Output	Clooning till	Other than above	0
		Tilt motor up output sig-		Steering tilt	Operate (up)	Battery voltage
29	Ground	nal	Output	Oldering till	Other than above	0
(LG)	Giodila	Telescopic motor for-	Output	Steering tele-	Operate (forward)	Battery voltage
		ward output signal		scopic	Other than above	0
30 (B)	Ground	Ground	_	_		0

[WITH ADP]

Wiring Diagram - AUTOMATIC DRIVE POSITIONER CONTROL SYSTEM -

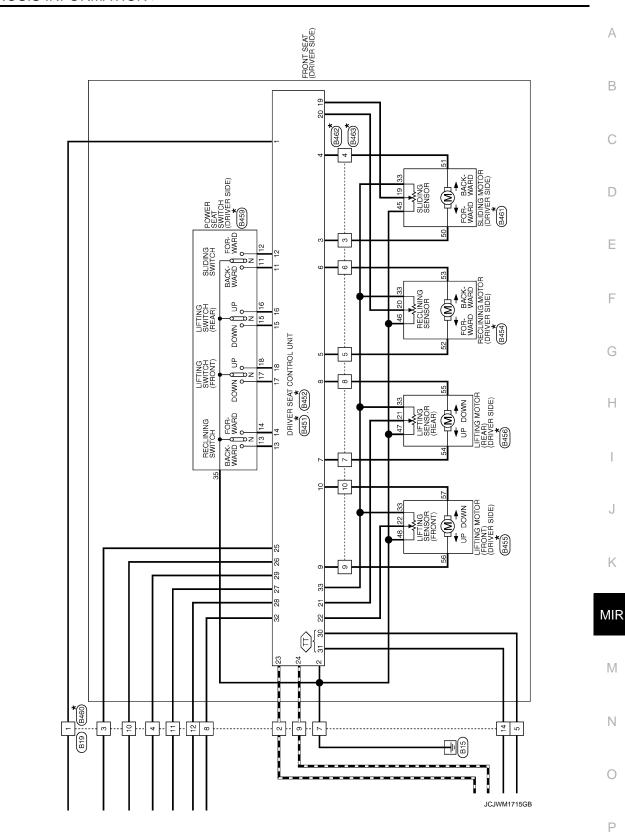


[WITH ADP]



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

TT>: With electric tilt & telescopic system



Revision: 2011 November MIR-49 2011 MURANO

Commentor No 18451	0	Connector Type NS12FW-CS		修	o.	1 3	4 5 10 8 7 2			Terminal Color		- C		9 0	£ >	- BZ		8	9 L/R																												
Connector No 1819	9	Connector Type NS 16FW-CS	1	10000000000000000000000000000000000000	6	1 2 3 4	8 9 10 11 12 13 14 15 16			Terminal Color	_	1 BR –	7 3	× 0	+	→ B						12 SB –	13 0 -	14 BR –	Н	16 B/W –		- 1	_	Connector Name FRONT DOOR SWITCH (DRIVER SIDE)	Connector Type A03FW		E	~		0	7	8	9	Terminal Color Simal Name [Specification]		2 SB –					
8.	SHIELD -	1 1 M/M	R/L –	- B			HH 0		- C	SHIELD -	- 8	R/L –	R/W	1 7				1	SHIELD -		B/R -	Υ -	57	SB	T	- 5			3 €	- 1	BR =	- 0	- 9	- as	1	- D	GR –	-	- 9	BR -	- B	_	BR -	GR –		57	
47	48	50	51	52	53	54	55	3 5	28	99	09	91	62	3 3	ŧ 8	8 9	29	89	69	20	71	72	73	74	75	9/	77	79	g 7	88	83	84	82	98	83	88	88	06	91	92	93	94	96	96	97	98	6
AUTOMATIC DRIVE POSITIONER	WIRE TO WIRE	TH80MW-CS19		[[Signal Name [Specification]			1						,	-	-	-	-	-	1	1		1		1	-	-	-	1	1	-	-	-	-	1	1	1	1	1	1	_
OMA	Connector Name	Connector Type								⊢	_	SHIELD	a 2	1 N	2 0	3 a	>	SHELD	BR/L	5/X	Y/L	M/L	٦	BR	SB	æ	>	gg (2 0	_ 9	*	>	GR	>	>	W/L	Ь	0	BR	SB	SHIELD	2	P.	>	æ	SB	
AUTOM	Connect	Connects		厚	S					Terminal	No.	-	2 0	,,,	ŧ u	9	,	æ	6	10	11	12	13	14	15	91	17	82 9	<u> </u>	2 12	22	23	24	25	27	28	30	31	32	34	32	36	37	40	41	45	91/

JCJWM1716GB

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[WITH ADP]

B461	АВ
14 BR/W 15 BR/W 15 BR/W 16 BR/W 16 BR/W B461 Connector Name Signa B462 Connector Type F0098-0344 Signa G/Y Signa G/Y Signa G/Y Signa G/Y Signa G/Y Signa G/W Signa G/W	C
Signal Name [Specification] Sign	E
Name	G
Commetto	Н
Signal Name [Specification]	I .
Terminal Color No. 67 Wire No. 67 Wire Sign W 4 Sign W 4 Sign W 7 Sign W 8 Sign W 8 Sign W 8 Sign W 8 Sign W 9	J K
	MIR
Colorector Name B442	M
Name B452 Name B452 Name B452 Name B452 Name DRIVER SEA TH32FW Type TH32FW	Ν
Connector No. Connector No	0
JCJWMITTGB	Р

Revision: 2011 November MIR-51 2011 MURANO

AUTOMATIC DRIVE POSITIONER				
Connector No. B463	Connector No. D13	Connector No.	D21	٦
Connector Name WIRE TO WIRE	Connector Name SEAT MEMORY SWITCH	Connector Name	e WIRE TO WIRE	53 P – [Without automatic drive positioner] 54 SR – [With automatic drive positioner]
Connector Type NSI0FW-CS	Connector Type A08FW	Connector Type	TH40FW-CS15	97
1	#	€		9
<u></u>		٧		- - -
39 38 7 7		- 4	15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 46454444848424140(38)38(38)37(38) 26(25(24)23(22)21(20)19181716	Connector No. D41
5 6 3 4 9 10	33 10 / 2 4		54 58 52 51 50 48 48 47 25 34 33 28 28 31 30 29 28 27	Connector Name WIRE TO WIRE
				Connector Type TH40FW-CS15
la la	le l	-ea	or Signal Name [Specification]	q
ē	No. of Wire	No. of Wire		Ath
- 4 G/R	2 SB	- 2	1	15 14 13 12 11 10 9 8 7 6 5 4 3 2 1
>	- C	8	ı	46454443424140393837738 [2625242322120131817716
6 R/L -	4 B	4 B	ı	55 54 63 62 51 60 48 47 35 34 39 32 31 30 29 28 27
L	5 GR –	9 M	1	
8 L/W	9	e SB		
Н	7 W –	7 P	1	-ea
┨		8 BR	1	No. of Wire
38 Y/W –	- 1	9 GR		- 5
39 ∀ –	Connector No. D14	10 V	1	2 v –
	Connector Name DOOR MIRROR REMOTE CONTROL SWITCH	\dashv	1	4 B -
ı	П	\dashv	1	M
Connector No. D3	Connector Type TK16FBR	4	1	- Д 9
Connector Name DOOR MIRROR (DRIVER SIDE)	q	+	1	+
	陆	+		В
Connector Type TH24MW-NH		18 GR		5
₫.	1 2	+	-	+
金	8 9 10 11 12 13 14 15 16	20 LG		12 SI
		+		20
1211110 9 8 7 6 5 4 3 2 1		╀		ł
24 23 22 21 20 19 18 17 16 15 14 13	Terminal Color	╀	1	ł
11	_	30 SB	-	H
	+	31 BR	-	29 V –
lal	7 B –	32 R	_	30 SB –
е	- × 8	33 G	1	\dashv
7 LG -	- T 6	34 Y	ı	32 R –
+	0 01	35 L	1	33 G –
		\dashv	1	34 Y ==
Н	Н	42 GR		36 L –
19 B -	13 SB –	43 L	-	
\dashv	Н	\dashv	1	
\dashv		4		
+		4	ı	
24 Y –		\dashv	1	
		+	4	
		52 P	+	
		52 L	 [Without automatic drive positioner] 	

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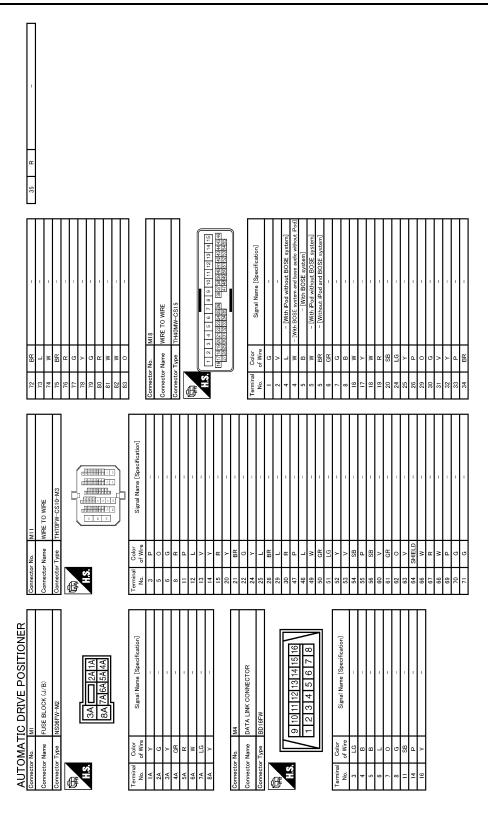
AUTOMATIC DRIVE POSITIONER CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[WITH ADP]

8 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	А
PRI SPEED SENSOR	В
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10 10 10 10 10 10 10 10	D
Apple Appl	Е
Control Cont	F
1	G
72 Y 74 74 74 74 74 74 74	Н
Signal Name [Specification]	I
WIRE TO WIRE THYOMM-OSIO-N Signal N	J
	K
Connector No Conne	
DNER [16] [16] [16] [16] [16] [16] [16] [16]	MIR
RROR (PASSENGER SIDE) RROR (PASSENGER SIDE) NHR Signal Name [Specification] Signal Name [Specification] Signal Name [Specification]	M
IC DRIVE POSITION D43 D000 MIRROR (PASSENGER SIDE) TH24MW-NH TH24MW-NH Signal Name [Specification] Signal Name [Specification] Signal Name [Specification] Signal Name [Specification]	N
Name	
Connector Conn	JCJWM1719GB
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Revision: 2011 November MIR-53 2011 MURANO

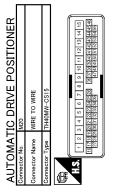


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[WITH ADP]

FORWARD	RX/TX	MIR MTR UP (RH)	MIR MTR LEFT (RH)	MIR MTR DOWN RIGHT (LH)	DOWNWARD	SELECT LH	DOWNWARD	RIGHTWARD	MIR SENS LEFT & RIGHT (RH)	MIR SENS LEFT & RIGHT (LH)	BACKWARD	SENS GND	SENS POWER	MIR MTR DOWN RIGHT (RH)	MIR MTR UP (LH)	MIR MTR LEFT (LH)
Ь	ÐΠ	0	5	Я	57	0	٦	۸	М	٦	9	Υ	W	۸	7	SB
7	8	10	1.1	12	13	14	15	16	17	18	19	20	21	22	23	24

- [With automatic drive positioner]	- [Without automatic drive positioner]	 [With automatic drive positioner] 	- [Without automatic drive positioner]	 [With automatic drive positioner] 	- [Without automatic drive positioner]	 [With automatic drive positioner] 	- [Without automatic drive positioner]	
GR	ч	٦	۸	٦d	9	SB	0	
52	52	53	53	54	54	22	22	



WD)	CVT SHIFT SELECTOR	TK10FW	13 79 24568
Collifered No.	Connector Name	Connector Type	H.S.

Connector No.	. No.	M57
Connector Name	. Name	CVT SHIFT SELECTOR
Connector Type	. Type	TK10FW
图 H.S.		13 7 9 2 4 5 6 8
Terminal No.	Color of Wire	Signal Name [Specification]
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4	В	1
9	Ь	-
7	В	-
8	Υ	-
6	^	-
Connector No.	. No.	M75
Connector Name	· Name	AUTOMATIC DRIVE POSITIONER CONTROL UNIT
Connector Type	. Type	TH24FW-NH

Signal Name [Specification]	1	-	_	1	1	1
Color of Wire	ΡΠ	В	Ь	В	Υ	۸
Terminal No.	1	4	9	- 4	8	6

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47 SSB	47 58
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48 SHELD - Connector No. M99 Connector No. C	47 SB
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48 SHELD - Connector No. M99 Connector To. C	47 SB
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AUTOMATIC DRIVE POSITIONER CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[WITH ADP]

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vor Module)	Signal Name [Specification] BAT (F/L) BAT (F/L) STATE B 9 10 The power is a proper to the power is a proper is a p		I
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Connector No.	or No.	M125	20	œ	VΡ	Connector No.		M180
Connect	Connector Name	MULTIFUNCTION SWITCH	51	Б	COMM (CONT->DISP)	Connector Name	. Name	AV CONTROL UNIT
Connect	Connector Type	TH16EW-NH	52	SHIELD	SHIELD	Connector Type	Tvne	TH32EW-NH
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		0 / 0	Connector Type	П	TH32FW-NH			
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lerminal No.	of Wire	Signal Name [Specification]	事			lerminal No.	Color of Wire	Signal Name [Specification]
-	8	GND	2		7	65	PC	PARKING BRAKE
3	Μ	AGC		76 77 78	80 81 82 83 84 85 86 87 88 89 90	67	BR	COMPOSITE IMAGE SIGNAL GND
4	œ	ILL		92 93 94 95	95 96 97 98 99 100 101 102 103 104 105 106 107	89	GR	COMPOSITE IMAGE SIGNAL
2	В	ILL CONT				7.1	SHIELD	SHIELD
9	SB	AV COMM (H)				72	В	MICROPHONE VCC
80	g	AV COMM (L)	Terminal		Signal Name [Specification]	73	œ	COMM (CONT->DISP)
6	>	SW GND	No.	of Wire	100000000000000000000000000000000000000	74	Ь	CAN-L
14	Α	EJECT SIGNAL	9/	ار ا	AV COMM (L)	75	ГG	AV COMM (L)
			77	SB	AV COMM (H)	9/	ΓG	AV COMM (L)
			78	LG	AV COMM (L)	79	В	ILLUMINATION SIGNAL
Connector No.	or No.	M172	79	SB	AV COMM (H)	80	G	IGNITION
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Contine	or Name	AV CONTROL ON!	81	٦	CAN-H	82	۸	VEHICLE SPEED SIGNAL (8-PULSE)
Connect	Connector Type	TH24FW-NH	82	۸	SW GND	83	SHIELD	SHIELD
٥	_		98	SHIELD	SHIELD	87	W	MICROPHONE SIGNAL
B			87	Я	TEL VOICE SIGNAL (+)	88	SHIELD	SHIELD
Ę		7	88	7	TEL VOICE SIGNAL (-)	68	9	COMM (DISP->CONT)
			95	>	VEHICLE SPEED SIGNAL (8-PULSE)	06	٦	CAN-H
	36 37	41 42 43	93	57	PARKING BRAKE [With BOSE system]	16	SB	AV COMM (H)
	48 4	48 49 50 51 52 53 54 55 56 57 58 59	93	9	PARKING BRAKE [Without BOSE system]	92	SB	AV COMM (H)
			94	SB	REVERSE			
			92	9	IGNITION			
Terminal	_	Simal Name [Specification]	96	W	DISK EJECT SIGNAL			
No.	of Wire		102	W	AUX SOUND SIGNAL GND			
36	0	SIGNAL VCC	103	В	AUX SOUND SIGNAL LH (+)			
37	SB	SIGNAL GND	104	ч	AUX SOUND SIGNAL RH (+)			
88	g	웊						
38	_	COMM (DISP->CONT)						
40	×	RGB AREA (YS) SIGNAL						
14	SHELD							
45	<u></u>							
43	g	RGB (R:RED) SIGNAL						
44	_	RGB (G:GREEN) SIGNAL						
42	>	RGB (B:BLUE) SIGNAL						
46	>	COMPOSITE IMAGE SIGNAL GND						
47	. 9	COMPOSITE IMAGE SIGNAL						
84	>	INVERTER VCC						
49	BR	INVERTER GND						

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DOOR MIRROR DOES NOT OPERATE

[WITH ADP] < SYMPTOM DIAGNOSIS > SYMPTOM DIAGNOSIS Α DOOR MIRROR DOES NOT OPERATE Diagnosis Procedure INFOID:0000000006259953 ${f 1}$.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-13, "AUTOMATIC DRIVE D POSITIONER SYSTEM: System Description" 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? F 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? 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-44, "Intermittent Incident" NO >> GO TO 1. K MIR

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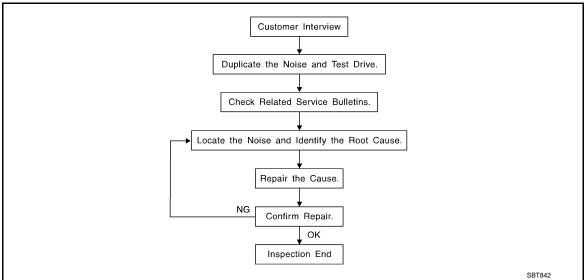
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[WITH ADP]

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 MIR-64, "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.

[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 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 tem-
- 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-62, "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 $(3.94 \times 5.31 \text{ in})/76884-71L01$: 60×85 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, 50×50 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: 15×25 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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Insulates where slight movement is present. Ideal for instrument panel applications.

SILICONE GREASE

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

SILICONE SPRAY

Used when grease cannot be applied.

DUCT TAPE

Used to eliminate movement.

CONFIRM THE REPAIR

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

Inspection Procedure

INFOID:0000000006259955

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

INSTRUMENT PANEL

Most incidents are caused by contact and movement between:

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

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

CAUTION:

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

CENTER CONSOLE

Components to pay attention to include:

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

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

DOORS

Pay attention to the following:

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

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

< 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
- 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.

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:

- 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 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:

- Any component mounted to the engine wall 1.
- 2. Components that pass through the engine wall
- 3. Engine wall mounts and connectors
- 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.

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Diagnostic Worksheet

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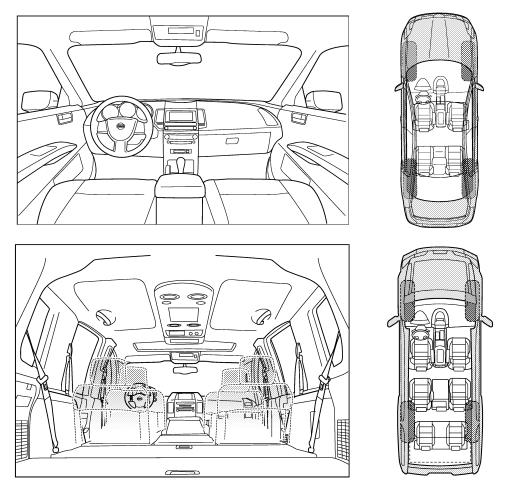
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

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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< SYMPTOM DIAGNOSIS >

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II. WHEN DOES IT OCCUR? (please ch	neck 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☐ coming to a stop	☐ tick (like a clock second hand)☐ thump (heavy, muffled knock noise)	
on turns: left, right or either (circle)	buzz (like a bumble bee)	
with passengers or cargo	Duzz (line a bullible bee)	
other:		
after driving miles or m	inutes	
	P PERSONNEL	
	P PERSONNEL	
	P PERSONNEL	
		ı
	P PERSONNEL 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	
- Noise source located and repaired	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	
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	

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< 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:

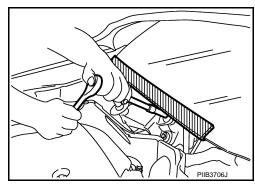
Always observe the following items for preventing accidental activation.

- 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

INFOID:0000000006259958

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:0000000006259960

- 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 > [WITH ADP]

"SEAT BELT PRE-TENSIONER"

INFOID:0000000006259961

INFOID:0000000006259962

INFOID:0000000006259964

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.

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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

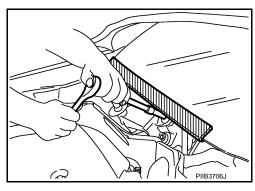
WARNING:

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.



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FOR MEXICO: 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.

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< PREPARATION > [WITH ADP]

PREPARATION

PREPARATION

Special Service Tools

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

(Ken	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

INFOID:0000000006259966

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

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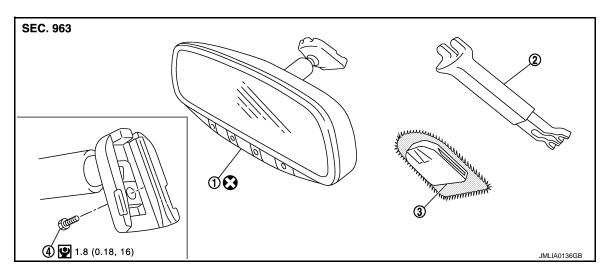
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REMOVAL AND INSTALLATION

INSIDE MIRROR

Exploded View



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

4. TORX bolt

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

Removal and Installation

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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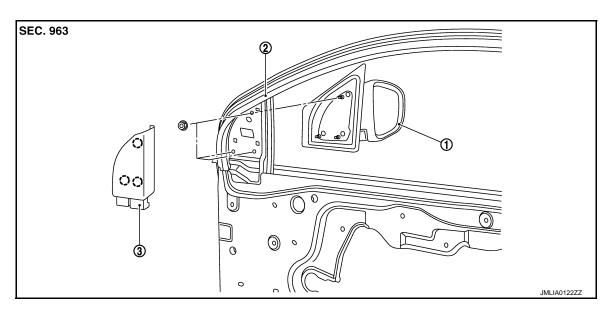
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OUTSIDE MIRROR

DOOR MIRROR ASSEMBLY

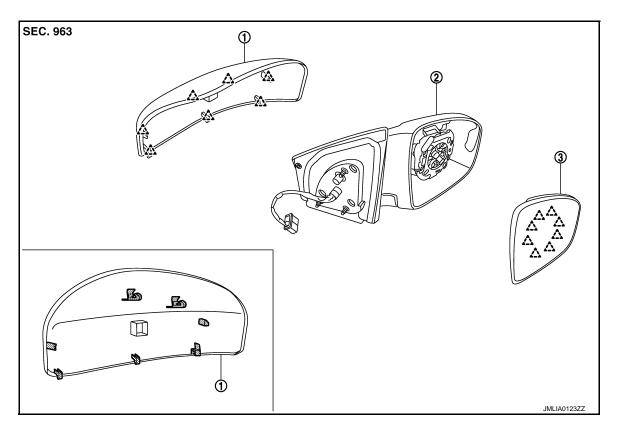
DOOR MIRROR ASSEMBLY: Exploded View

REMOVAL



- 1. Door mirror assembly
- (_) : Clip
- 2. Front door 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".
- 2. Remove the door mirror corner cover.
- 3. Disconnect the door mirror harness connector.
- 4. Remove the door mirror mounting nuts, and remove the door mirror assembly.

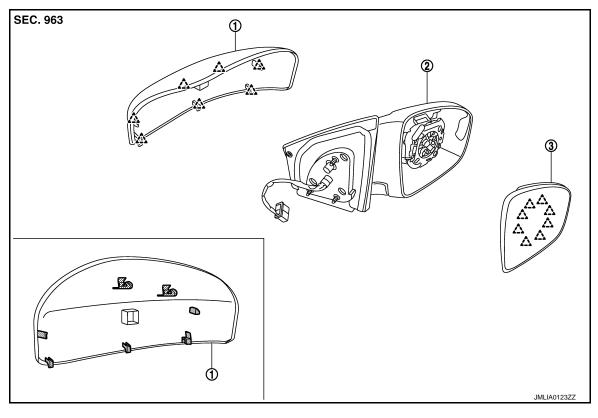
INSTALLATION

Install in the reverse order of removal.

GLASS MIRROR

GLASS MIRROR: Exploded View

INFOID:0000000006259971



- Door mirror cover
- Door mirror assembly
- Glass mirror

___`: Pawl

GLASS MIRROR: Disassembly and Assembly

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CAUTION:

Never damage the mirror bodies.

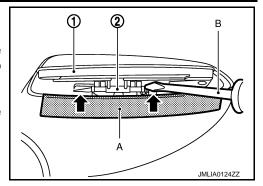
DISASSEMBLY

< REMOVAL AND INSTALLATION >

- 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.

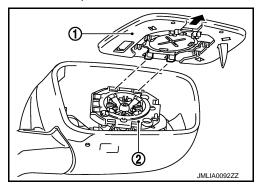


Insert flat-bladed screwdriver at RH/LH side between glass mirror and actuator, and push up pawls to remove glass mirror RH/LH side.

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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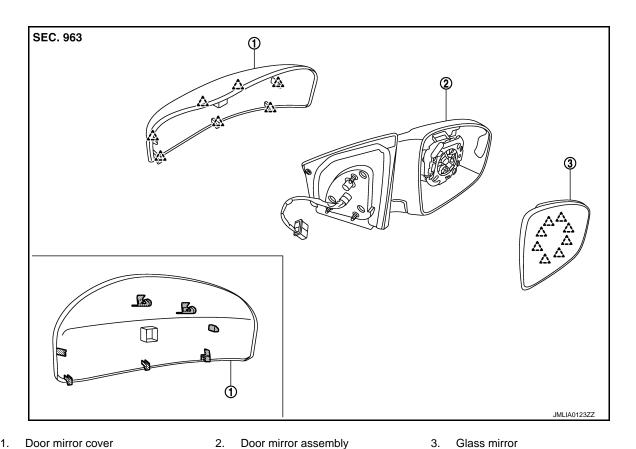
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DOOR MIRROR COVER: Exploded View



DOOR MIRROR COVER: Disassembly and Assembly

CAUTION:

∠^\ : Pawl

Never damage the mirror bodies.

DISASSEMBLY

- Remove the glass mirror. Refer to MIR-71, "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 >

[WITH ADP]

DOOR MIRROR REMOTE CONTROL SWITCH

Exploded View

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

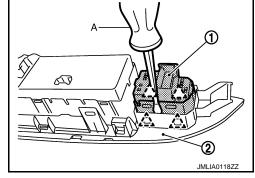
Removal and Installation

INFOID:0000000006259976

REMOVAL

- 1. Remove the power window main switch finisher (2). Refer to PWC-109, "Removal and Installation"
- 2. Remove door mirror remote control switch (1) from power window main switch finisher (2) using flat-bladed screwdriver (A).





INSTALLATION

Install in the reverse order of removal.

DOOR MIRROR SYSTEM

< SYSTEM DESCRIPTION >

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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

< SYSTEM DESCRIPTION >

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INSIDE MIRROR SYSTEM

System Description

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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:0000000006259979

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.

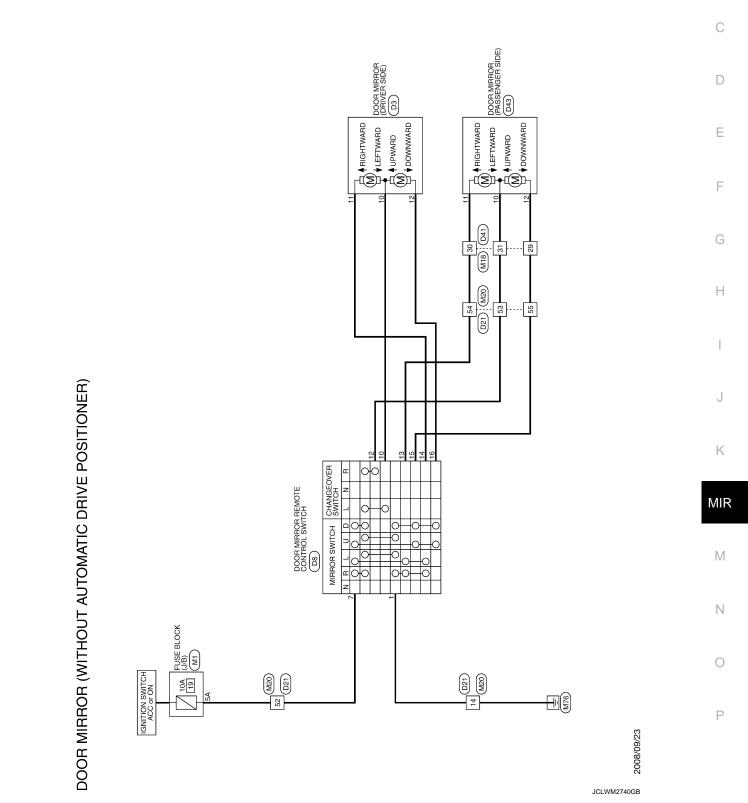
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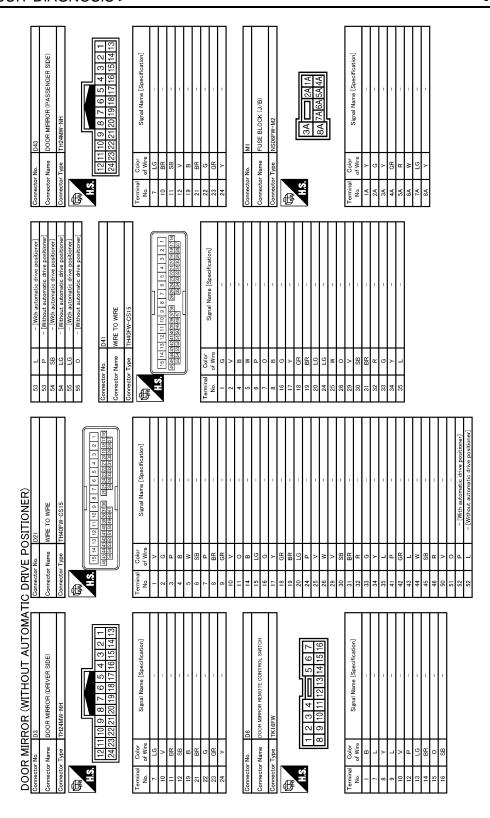
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DTC/CIRCUIT DIAGNOSIS

DOOR MIRROR

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





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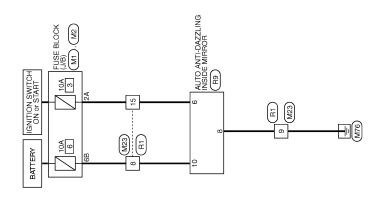
- [With automatic drive positioner] - [With automatic drive positioner] - [Without automatic drive positioner]		
52 R B S B C C C C C C C C C C C C C C C C C		
No. M20	Signal Name (Specification) - [With #Dod without BOSE eystem] - [With BOSE system and base audio without BOSI Likely Bod without BOSE system and base audio without BOSI Likely BOSE system and base audio without Bod Likely Bod	
Connector Nan Connector Nan Connector Type H.S.	Terminal Color No. 1	
DOOR MIRROR (WITHOUT AUTOMATIC DRIVE POSITIONER)	Terminal Color Sigral Name [Specification]	

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AUTO ANTI-DAZZLING INSIDE MIRROR SYSTEM

Wiring Diagram - INSIDE MIRROR SYSTEM -

INFOID:0000000006882344



INSIDE MIRROR

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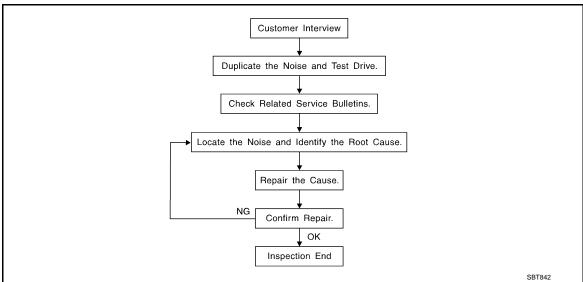
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MIR-81 Revision: 2011 November 2011 MURANO

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-86, "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 had 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-84, "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

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

NFOID:000000000625998

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
- 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:

- 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) 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
- Sunvisor shaft shaking in the holder
- 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

INFOID:0000000006259984



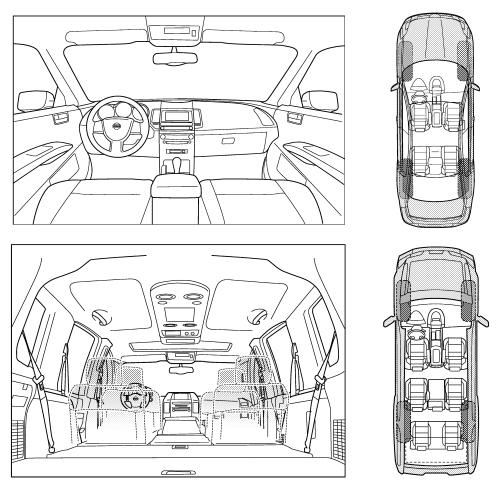
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

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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< SYMPTOM DIAGNOSIS >

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II. WHEN DOES IT OCCUR? (please	e check the boxes that apply)	
☐ anytime	after sitting out in the rain	
1st time in the morning	when it is raining or wet	
only when it is cold outside	dry or dusty conditions	
only when it is hot outside	other:	
III. WHEN DRIVING:	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	J Duzz (line a bullible bee)	
other:		
after driving miles or		
TO BE COMPLETED BY DEALERS	HIP PERSONNEL	
	YES NO Initials of person performing	
TO BE COMPLETED BY DEALERS Test Drive Notes: Vehicle test driven with customer	YES NO Initials of person	
Test Drive Notes:	YES NO Initials of person	
Vehicle test driven with customer - Noise verified on test drive	YES NO Initials of person	
Test Drive Notes: Vehicle test driven with customer	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 co	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	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 co	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 co	YES NO Initials of person performing	

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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:

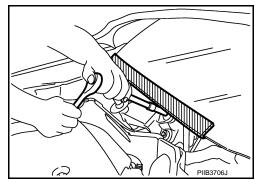
Always observe the following items for preventing accidental activation.

- 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:0000000006259986

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

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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.

FOR MEXICO

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

< PRECAUTION > [WITHOUT ADP]

"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. 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

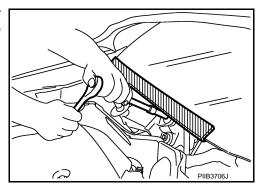
WARNING:

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

 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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PREPARATION

PREPARATION

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

INFOID:0000000006259994

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

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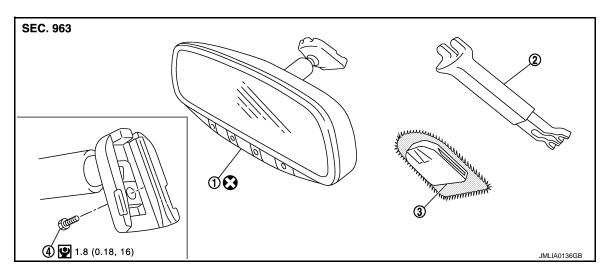
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REMOVAL AND INSTALLATION

INSIDE MIRROR

Exploded View



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

4. TORX bolt

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

Removal and Installation

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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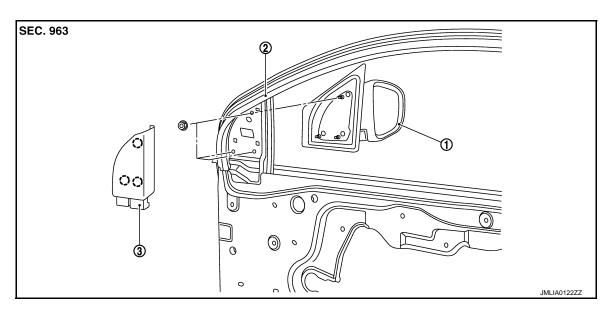
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OUTSIDE MIRROR

DOOR MIRROR ASSEMBLY

DOOR MIRROR ASSEMBLY: Exploded View

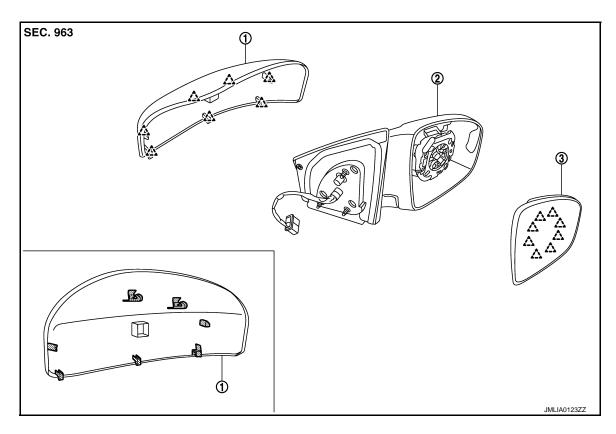
REMOVAL



- 1. Door mirror assembly
- () : Clip

- 2. Front door assembly
- 3. Door mirror corner cover

DISASSEMBLY



- 1. 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".
- Remove the door mirror corner cover.
- Disconnect the door mirror harness connector.
- Remove the door mirror mounting nuts, and remove the door mirror assembly.

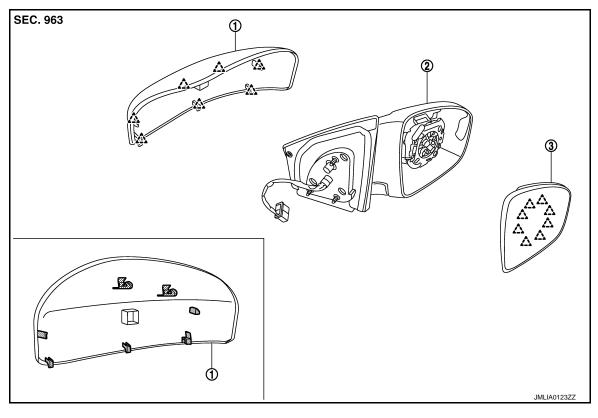
INSTALLATION

Install in the reverse order of removal.

GLASS MIRROR

GLASS MIRROR: Exploded View

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



∴ : Pawl

GLASS MIRROR: Disassembly and Assembly

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CAUTION:

Never damage the mirror bodies.

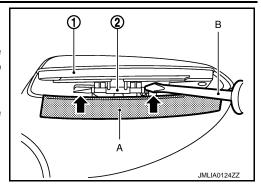
DISASSEMBLY

< REMOVAL AND INSTALLATION >

- 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.

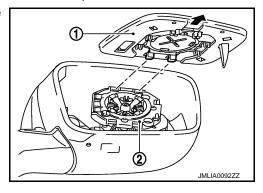


Insert flat-bladed screwdriver at RH/LH side between glass mirror and actuator, and push up pawls to remove glass mirror RH/LH side.

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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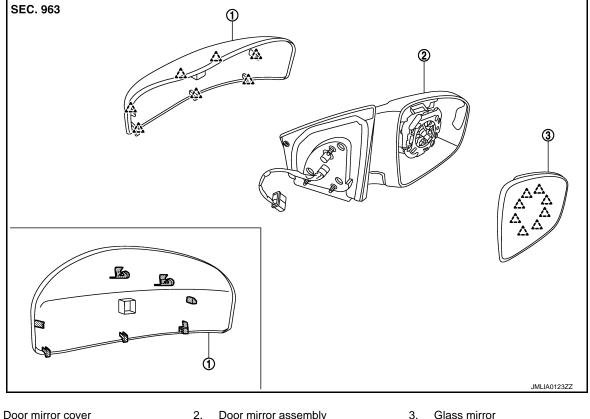
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DOOR MIRROR COVER: Exploded View



∠^\ : Pawl

Door mirror assembly

Glass mirror

DOOR MIRROR COVER: Disassembly and Assembly

CAUTION:

Never damage the mirror bodies.

DISASSEMBLY

- Remove the glass mirror. Refer to MIR-93, "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"

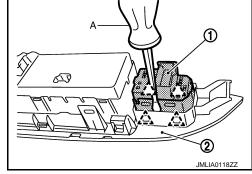
Removal and Installation

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REMOVAL

- 1. Remove the power window main switch finisher (2). Refer to PWC-109, "Removal and Installation"
- 2. Remove door mirror remote control switch (1) from power window main switch finisher (2) using flat-bladed screwdriver (A).





INSTALLATION

Install in the reverse order of removal.