

D

Е

# **CONTENTS**

WITH ADP	DOOR MIRROR16
BASIC INSPECTION4	Wiring Diagram - DOOR MIRROR SYSTEM (WITH AUTOMATIC DRIVE POSITIONER)16
DIAGNOSIS AND REPAIR WORKFLOW 4 Work Flow4	AUTO ANTI-DAZZLING INSIDE MIRROR SYSTEM23
SYSTEM DESCRIPTION5	Wiring Diagram - INSIDE MIRROR SYSTEM23
DOOR MIRROR SYSTEM5	ECU DIAGNOSIS INFORMATION25
System Diagram	DRIVER SEAT CONTROL UNIT
INSIDE MIRROR SYSTEM7	Fail Safe42
System Description	AUTOMATIC DRIVE POSITIONER CON-
DIAGNOSIS SYSTEM (DRIVER SEAT CONTROL UNIT)	Reference Value
DTC/CIRCUIT DIAGNOSIS11	SYMPTOM DIAGNOSIS59
DOOR MIRROR REMOTE CONTROL SWITCH11	DOOR MIRROR DOES NOT OPERATE59 Diagnosis Procedure59
MIRROR SWITCH11	SQUEAK AND RATTLE TROUBLE DIAG-
MIRROR SWITCH: Description	Work Flow
CHANGEOVER SWITCH13	PRECAUTION66
CHANGEOVER SWITCH: Description13 CHANGEOVER SWITCH: Component Function	PRECAUTIONS66
Check	FOR USA AND CANADA66 FOR USA AND CANADA: Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

FOR USA AND CANADA: Precaution for Proce-		DOOR MIRROR	. 78
dure without Cowl Top Cover	. 66	Wiring Diagram - DOOR MIRROR SYSTEM	
FOR USA AND CANADA: Precaution Necessary		(WITHOUT AUTOMATIC DRIVE POSITIONER)	. 78
for Steering Wheel Rotation after Battery Discon-			
nect		AUTO ANTI-DAZZLING INSIDE MIRROR	
FOR USA AND CANADA: Precaution for Work	. 67	SYSTEM	
FOR MEXICO	67	Wiring Diagram - INSIDE MIRROR SYSTEM	. 81
FOR MEXICO : Precaution for Supplemental Re-	. 07	SYMPTOM DIAGNOSIS	02
straint System (SRS) "AIR BAG" and "SEAT BELT		OTHER TOWN DIAGRACIA	03
PRE-TENSIONER"	67	SQUEAK AND RATTLE TROUBLE DIAG-	
FOR MEXICO : Precaution for Procedure without	. 01	NOSES	. 83
Cowl Top Cover	. 68	Work Flow	. 83
FOR MEXICO : Precaution Necessary for Steer-		Inspection Procedure	
ing Wheel Rotation after Battery Disconnect	. 68	Diagnostic Worksheet	
FOR MEXICO : Precaution for Work		-	
DDED A D A TION		PRECAUTION	89
PREPARATION	. 69	PRECAUTIONS	80
PREPARATION	60	TILOAUTIONO	03
Special Service Tools		FOR USA AND CANADA	. 89
Commercial Service Tools		FOR USA AND CANADA: Precaution for Supple-	
Confinercial Service 10015	. 09	mental Restraint System (SRS) "AIR BAG" and	
REMOVAL AND INSTALLATION	. 70	"SEAT BELT PRE-TENSIONER"	. 89
		FOR USA AND CANADA: Precaution for Proce-	
INSIDE MIRROR		dure without Cowl Top Cover	. 89
Exploded View		FOR USA AND CANADA: Precaution Necessary	
Removal and Installation	. 70	for Steering Wheel Rotation after Battery Discon-	
OUTSIDE MIRROR	74	nect	
OUTSIDE WIIRROR	. / 1	FOR USA AND CANADA: Precaution for Work	. 90
DOOR MIRROR ASSEMBLY	. 71	FOR MEXICO	- 90
DOOR MIRROR ASSEMBLY: Exploded View	. 71	FOR MEXICO : Precaution for Supplemental Re-	
DOOR MIRROR ASSEMBLY: Removal and In-		straint System (SRS) "AIR BAG" and "SEAT BELT	
stallation	. 72	PRE-TENSIONER"	. 90
GLASS MIRROR	72	FOR MEXICO: Precaution for Procedure without	
GLASS MIRROR : Exploded View		Cowl Top Cover	. 91
GLASS MIRROR: Disassembly and Assembly		FOR MEXICO: Precaution Necessary for Steer-	
OLAGO WITKINGTY	. 12	ing Wheel Rotation after Battery Disconnect	
DOOR MIRROR COVER	. 73	FOR MEXICO : Precaution for Work	. 91
DOOR MIRROR COVER : Exploded View	. 74	DDEDARATION	
DOOR MIRROR COVER : Disassembly and As-		PREPARATION	92
sembly	. 74	PREPARATION	92
DOOR MIRROR REMOTE CONTROL		Special Service Tools	
SWITCH	75	Commercial Service Tools	
Exploded View			
Removal and Installation		REMOVAL AND INSTALLATION	93
WITHOUT ADP	. 75	INCIDE MIDDOD	
WITHOUT ADP		INSIDE MIRROR	
SYSTEM DESCRIPTION	. 76	Exploded ViewRemoval and Installation	
		Removal and installation	. 93
DOOR MIRROR SYSTEM	. 76	OUTSIDE MIRROR	. 94
Component Description	. 76		
INCIDE MIDDOD EVETEM	77	DOOR MIRROR ASSEMBLY	
INSIDE MIRROR SYSTEM		DOOR MIRROR ASSEMBLY: Exploded View	. 94
System Description		DOOR MIRROR ASSEMBLY : Removal and In-	
Component Description	. //	stallation	. 95
DTC/CIRCUIT DIAGNOSIS	. 78	GLASS MIRROR	. 95
-	•	GLASS MIRROR : Exploded View	

GLASS MIRROR: Disassembly and Assembly95	DOOR MIRROR REMOTE CONTROL	
·	SWITCH	98
DOOR MIRROR COVER96	Exploded View	
DOOR MIRROR COVER : Exploded View97	Removal and Installation	
DOOR MIRROR COVER : Disassembly and As-		
sembly97		

MIR

Α

В

С

D

Е

F

G

Н

J

Κ

 $\mathbb{N}$ 

Ν

0

< 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-133, "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.

2010 Murano

[WITH ADP]

Α

В

D

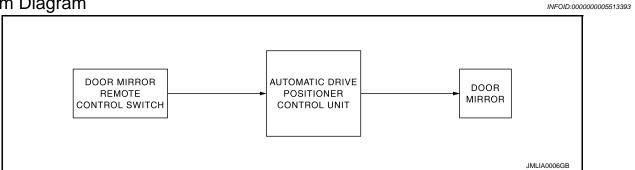
Е

F

## SYSTEM DESCRIPTION

## DOOR MIRROR SYSTEM

System Diagram



#### System Description

INFOID:0000000005513394

#### MANUAL FUNCTION

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

#### AUTOMATIC DRIVE POSITIONER SYSTEM LINKED OPERATION

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

Refer to ADP-14, "AUTOMATIC DRIVE POSITIONER SYSTEM: System Description".

MIR

K

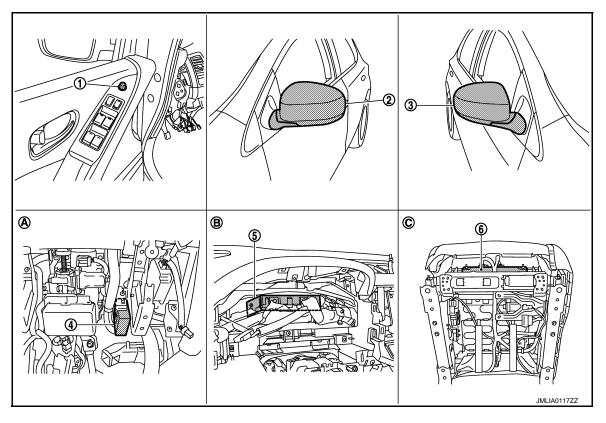
N/I

Ν

0

## **Component Parts Location**

INFOID:0000000005513395



- 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:0000000005513396

2010 Murano

Component		Function
Automatic drive positioner control unit		Door mirror is supplied with power after receiving the input of the MIRROR SWITCH and CHANGEOVER SWITCH.
Door mirror remote control	Mirror switch	It transmits mirror face adjust operation to AUTOMATIC DRIVE POSITIONER CONTROL UNIT.
switch	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:0000000005513397

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:0000000005513398

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.

Е

D

Α

F

G

Н

0

K

MIR

M

Ν

0

## **DIAGNOSIS SYSTEM (DRIVER SEAT CONTROL UNIT)**

< SYSTEM DESCRIPTION >

[WITH ADP]

# DIAGNOSIS SYSTEM (DRIVER SEAT CONTROL UNIT)

## **Diagnosis Description**

INFOID:0000000005513399

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:0000000005513400

SELF-DIAGNOSIS RESULTS Refer to <u>ADP-133</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 >

[WITH ADP]

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

Revision: 2009 September MIR-9 2010 Murano

С

В

Α

D

Е

F

G

Н

.

K

MIR

 $\mathbb{N}$ 

Ν

0

# **DIAGNOSIS SYSTEM (DRIVER SEAT CONTROL UNIT)**

#### < SYSTEM DESCRIPTION >

[WITH ADP]

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 >

[WITH ADP]

Α

В

D

Е

F

Н

## DTC/CIRCUIT DIAGNOSIS

# DOOR MIRROR REMOTE CONTROL SWITCH MIRROR SWITCH

MIRROR SWITCH: Description

INFOID:0000000005513401

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:0000000005513402

## 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-OP/DN	Other than above.	: OFF
MIR CON SW-RH/LH	When operating the mirror switch toward the right or left side.	: ON
MIR 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:0000000005513403

# 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.

MIR

K

M

N

2010 Murano

#### < DTC/CIRCUIT DIAGNOSIS >

Automatic drive po	ositioner control unit	Door mirror rem	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	Giodila	Not existed
IVI73	15		Not existed
	16		

#### Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to ADP-210, "Removal and Installation".

NO >> Repair or replace harness.

# 3.check door mirror remote control switch ground circuit

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

Door mirror 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-75, "Removal and Installation".

## 5. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-39, "Intermittent Incident".

#### >> INSPECTION END

#### MIRROR SWITCH: Component Inspection

INFOID:0000000005513404

## 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.

[WITH ADP]

Door	mirror remote control	switch	0	Continuity					
Connector	Teri	minal		ondition	Continuity				
	4			RIGHT	Existed				
	4			Other than above	Not existed				
	12			LEFT	Existed				
D14	13	7	Mirror switch	Other than above	Not existed				
D14	15		WIIITOI SWILCTI	UP	Existed				
	15			Other than above	Not existed				
	40			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-75, "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
WIIIX OF ING SW-TV/L	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.

(	+)		\/alka == (\) (\)
Door mirror rem	ote control switch	(–)	Voltage (V) (Approx.)
Connector	Terminal		(11 /
	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

Е

F

D

Α

В

INFOID:0000000005513405

INFOID:0000000005513406

INFOID:0000000005513407

MIR

M

Ν

. .

#### DOOR MIRROR REMOTE CONTROL SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH ADP]

- 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.

Automatic drive p	ositioner control unit	Door mirror remo	Continuity	
Connector	Terminal	Connector	Terminal	Continuity
M75	2	D14	11	Existed
IVI75	14	014	10	LAISIEU

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-210, "Removal and Installation".

NO >> Repair or replace harness.

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

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

Door mirror reme	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-75, "Removal and Installation".

## 5. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-39, "Intermittent Incident".

#### >> INSPECTION END

## **CHANGEOVER SWITCH: Component Inspection**

INFOID:0000000005513408

# 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	Cone	Continuity	
Connector	Terr	minal	Con	Continuity	
	10			LEFT	Existed
D14	10	7	Changeover switch	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-75, "Removal and Installation".

Α

В

С

D

Е

F

G

Н

1

Κ

MIR

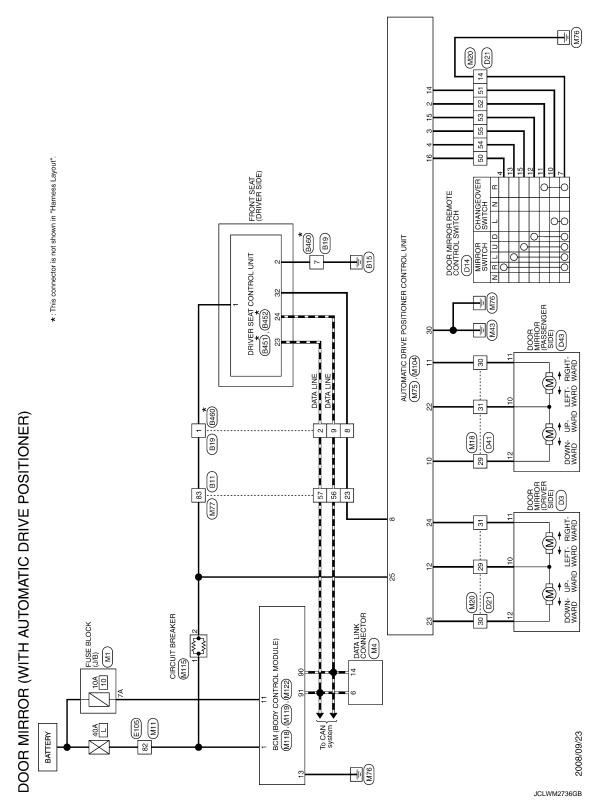
M

Ν

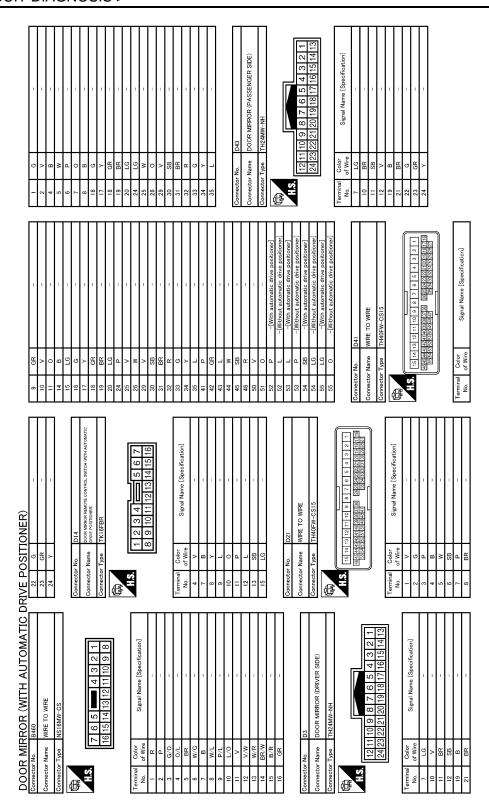
0

## **DOOR MIRROR**

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

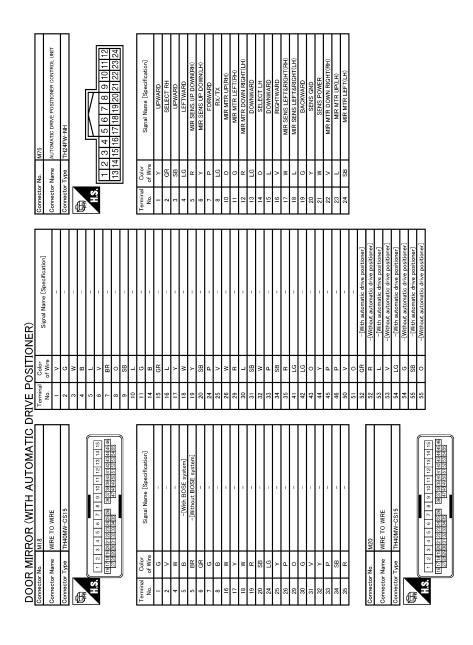


																1			ſ	[u.						T	T								1			T	Ī			]													Α
	1 1	1 1	1			1	1			DDIVED SEAT CONTROL LINIT	TI CONTROL UNIT					26 11 13 17 15 33	12 14 18			Signal Name [Specification]	1	-	1	1	1	1			ı	1	1	1	1	ı	1	1																			В
-	ВВ	0 8/8	>	R/L	L/W	L/R	L/B		No. B452	Т	Т	Type TH32FW				23 32 20 31 28 26	22 21		L	of Wire	g/B	M/9	R/G	R/W	Y/B	Y/R	16/B	10/N	R/Y	7	BR/Y	Ь	P/L	0/0	I/0	>	W/V	0/L	DD 041	M/W	M.L.														С
_	2	8 4	2	9 ~	- &	6	01		Connector No.	Oceanor Mama	Connector	Connector Type	Œ	季	ź	201	<u> </u>		Tomission	N ON	Ξ	12		П	Т	т	Т	Т	Т	П	22	П	Н	┪	┥	+	+	+	+	+	+	1													D
										2 9	14 15 16	2			cification																		INIT					Ē	<u></u>		ī			scincation]											Е
	1 1	1 1			WIRE TO WIRE		NS16FW-CS			3 4 7 5	10 11 12 13	21 11 21			Signal Name [Specification]	1	1	1		1	1	-	1	1	1	ı	1	ı	1				TINIT IUBINUD TARS BENIBU		NS12FW-CS				3	5 10 8 7 2			3	Signal Name [Specification]											F
<u> </u>	F &	57 0		or No.	9	Т	1			1 2	. α	Ш		_	of Wire	BR	7	м	1 >	) a	<u> </u>	<b>&gt;</b>	Ь	FG	œ	SS &	0 8	<u> </u>	B/W	1		or No. B451	۰		Connector Type NS12F			Ŀ	-	4			Il Color	of Wire											G
[	96 97	86		Connector No.	Connect		Connector Type	<b>€</b>	事	Ą.				Tormina	Š	-	2	es	4 4	9	7	8	6	10	= :	12	2 2	± 15	91			Connector No.	Connect		Connect	qĮ	季	HS.					Termina	No.											Н
	1 1	1 1	-[With rear view camera and telephone]	-[With rear view camera without telephone]	-	1	1			1	1	1			1	1		-			1	_	1	1	1	1				1	1	1	1	1	1	1								1											I
ONER)			-[With rear view o	-[With rear view car																																																			J
DRIVE POSITIONER)	L BR	AB >	GR.	# >	SHIELD	8	n ;		2 W	۵	_	<u>د</u> ا	SHELD	2 2	R/W	ΡC	Υ.	æ,	9 0	SHE D	W/R	B/R	Υ	υ	gg .	، ا	5 0	SHELD	В	*	œ	_	BR	0	g	gg ,	<u>~</u> (	9 5	5 >	- 0	9 8	<u> </u>	>	BR											K
RIVE	44	46	48	48	20	51	52	2 2	55	26	23	28	80	8 5	62	63	64	99	/9	8 9	02	71	72	73	74	72	2 10	78	79	8	18	82	83	84	82	98	28	8 8	80 8	9 5	6	3 8	98	92									ı		
ATIC D	T												T					T	I																		T	T	T	T	Ī	Ī												N	1IR
DOOR MIRROR (WITH AUTOMATIC		i 5	. [	E3	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	8 8	8 8			Signal Name [Specification]	1	I			1	-	1	1			1	-	1	1	1	1		1	1	1	1	1	1	1	1	1						1	1												M
ROR (M	MIRE TO WIRE	TH80MW-CS1		4		8 2	8 8		ة ا	Sign																																													Ν
N MIR	9	$\neg$	1		7					of Wire	SHIELD	a 2	1/A	ž 8	۵.	^	SHIELD	BR/L	5/4	M/1	_	BR	SB	æ	>	gg d	2 0	_ <u>_</u>	Α	>	æ	٨	٨	W/L	۵	0	¥ 8	3	SHIELL	3 -	3 >	. с	SB	g											
	Connector No.	Connect	4	季	Ź				Termin	No.	-	2 0	70	t r	9	7	89	<b>в</b> ;	2 :	12	13	14	15	91	7	<u>ω</u> 9	2 8	2 2	22	23	24	22	27	78	90	E :	32	8 8	S S	8 6	Ş Q	14	45	43		10.									0
																																														JCl	LWI	IVI41	135	ч					Р



JCLWM4136GB

	А
	В
	C
24 25 26 27 28 28 28 29 29 29 29 20 30 30 30 30 30 44 44 45 45 46 47 47 47 47 47 47 47 47 47 47 47 47 47	D
ceffe ation]	Е
MATA LINK CONNECTOR BD16FW  BD10FW  Signal Name (Specification)  Signal Name (Specification)  Signal Name (Specification)	F
	G
Connector No.	Н
00K (J/B)    1	I
MI  NS06FW-M2  NS06FW-M2  Signal Name (Specification of Specification of S	J
OSS	K
STATE   DOST	
Commercior Name   Color	MIR
WIRE CS10-M3 Signal Name [Specification]	M
Signal Name To WITH	NI
Name	N
Connector No.	0
	JCLWM4137GB
	P

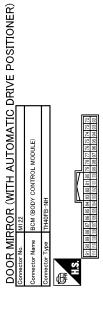


JCLWM4138GB

Revision: 2009 September

<u>o  o  [467</u>	Connector Name Connector Type	WIRE TO W		45 46 47 48 49	-	1 1 1 1 1 1 1		96 SB	1 1 1 1	Connector Name		BCM (BODY CONTROL MODULE) M03FB-LC	П
_	E S			52 53 54	2 ≥ a & a <			Connector No. M104 Connector Name AUTOM Connector Type NS06F	MI04 AUTOMATIC DRIVE POSITIONER CONTROL UNIT NSOGFW-CS		<u> </u>	<u>2</u>	
<u> </u>	Terminal Color  No. of Wire  1 SHIELD  2 B  3 W  4 R		Signal Name [Specification]	56 57 58 59 60 61	C C C SB SB SHIELD B B			E Lis	25 T 28 29 30	Terminal No.	Color Signal of Wire POWER WIND L POWER WIND	Signal Name [Specification] BAT (F/L) POWER WINDOW POWER SUPPLY (BAT) POWER WINDOW POWER SUPPLY (RAP)	BAT) RAP)
	9 Y G W Y G W S HIELD B B W W G W W G W W G W G W W G W G W G			62 63 64 64 66 67 68 69 70 71 71 71 72 72 73	× < C × C × C × C × C × C × C × C × C ×			Terminal Color No. of Wire 25 W 27 P 27 P 28 G 29 LG 30 B Connector No. MITS	Signal Name [Specification] UPWARD BACKWARD UPWARD UPWARD UPWARD UPWARD GND	Connector No. Connector Name Connector Type		MAI19 ROW (BODY CONTROL MODULE) INSIGNW-CS  1 5 6 7 8 9 10 1 12 13 14 15 16 17 18 19	ПП
	19			75 77 78 88 88 88 88 88 88 88 89 89 89 89 89 89	후 수 시 시 시 시 시 시 시 시 시 시 시 시 시 시 시 시 시 시		ioner] sat] de power seat] ide power seat]	Connector Name   CIRC	GIRCUIT BREAKER M02FW-P-LC    1	Torning 1	Color	Signal Name [Specification] INTERIOR ROOM LAMP POWER SUPPLY PASSENGER DOOR UNLOCK CUTPUT ALL DOOR, FUEL LD LOCK CUTPUT BRYCR DOOR, FUEL LD LOCK CUTPUT BRYCR DOOR, FUEL LD UNLOCK CUTPUT BRYCR DOOR FUEL LD UNLOCK CUTPUT BRY FUEL D UNLOCK CUTPUT ACC IND TURN SIGNAL EH TURN SIGNAL EH TURN SIGNAL LH ROOM LAMP TIMER CONTROL.	NOT THOU
			N										

MIR-21 2010 Murano



No.   of Wire   Signal Name Especingation]     No.   of Wire   Signal Name Especingation]     No.   No.   ROOM ANT?     No.   PASSENGER DOOR ANT     No.   DRAYER DOOR ANT     No.   DRAYER DOOR ANT     No.   DRAYER DOOR ANT     SE   IMMOBILANTENIAL CONTROL     No.   DRAYER DOOR ANT     SE   IMMOBILANTENIAL CONTROL     No.   SE   IMMOBILANTENIAL CONTROL     No.   SE   IMMOBILANTENIAL CONTROL     No.   COMBILS WINPUT     No.   CONT SHIFT SELECTOR POWER SUPPLY     No.   CONT SHIFT SELECTOR POWER SUPPLY     No.   CONT SHIFT SELECTOR POWER SUPPLY     No.   CONT SHIFT SELECTOR RELAY CONT     No.   CONTROL SHIPT NO.     No.   CONTROL SHIPT NO.     No.   CONTROL SHIPT NO.     No.   CONTROL SHIPT NO.     No.   COMBILS WINPUT     NO.   COMBILS W	Terminal	Color	3
B   ROOM ANT2-   V   PASSENGER DOOR ANT-   LG   PASSENGER DOOR ANT-   LG   PASSENGER DOOR ANT-   SB   IMMOBILANTENNA CONTROL   O   IMMOBILANTENNA CONTROL   O   IMMOBILANTENNA CONTROL   O   IMMOBILANTENNA CONTROL   O   COMBILSW INPUT 3     D   KEVLESS ENTRY RECEIVER SIGNA CONTROL   D   KEVLESS ENTRY RECEIVER SIGNA CONTROL   D   COMBILSW INPUT 3     D   SALE CONDITION 1     C   COMBILSW INPUT 3     D   COMBILSW INPUT 3     D   COMBILSW INPUT 4     D   COMBILSW INPUT 1     D   COMBILSW INPUT 1     D   COMBILSW INPUT 1     C   COMBILSW INPUT 2     C   COMBILSW INPUT 3     C   COMBILSW INPUT	Š.	of Wire	oignai Name [opecification]
W   PASSENGER DOOR ANT-   LG   PASSENGER DOOR ANT-   P   DBIVER DOOR ANT-   P   DBIVER DOOR ANT-   P   DBIVER DOOR ANT-   DBIVER DOOR BOOKE   COMBISS WIND-UT 3   DBIVER DOOR BOOKE   CAN-H   R   KEY SLOT ILL   D   COMBISS WIND-UT 3   CONTINUOR SIDENT-	72	В	ROOM ANT2-
Y	73	М	
LG	74	λ	ASSENGER DOOR,
V   DRIVER DOOR ANT-   P   DRIVER DOOR ANT-   SB   IMMOBI ANTENNA CONTROI   O   IMMOBI ANTENNA SIGNAL   BR   COMBI SW INPUT 5   CR   COMBI SW INPUT 5   CAN+1   P   CAN+1   CR   CR   CR   CR   CR     CR   CR	75	PC	SSENGER DOOR
P   DBWUER DOOR ANIT-   SB   IMMOBI ANTENNA SIGNAL,   D   IMMOBI ANTENNA SIGNAL,   D   IMMOBI ANTENNA SIGNAL,   D   IGNAL STANA SIGNAL,   P   KEYLESS BERTEY RECEIVER SIGNAL,   D   COMBI SW INPUT S BER   COMBI SW INPUT S BER     D   COMBI SW INPUT S BELECTOR POWER SIGNAL,   D   SALCONDITION 1     C   SALCONDITION 2     C   SALCONDITION 2     C   SALCONDITION 3     C   SALCONDITION 4     C   SALCONDITION 4     C   SALCONDITION 5     C   COMBI SW INPUT 1     C   COMBI SW INPUT 1     C   COMBI SW INPUT 2     C   C   COMBI SW INPUT 2     C   C   C   C   C     C   C   C   C	9/	۸	
O   IMMOBIL ANTENNA SIGNAL	11	Ь	DRIVER DOOR ANT+
O   IMMOBIL ANTERNA SIGNAL	80	SB	IMMOBI ANTENNA CONTROL
BR   ION RELAY (F.B) CONT	81	0	IMMOBI ANTENNA SIGNAL
P   KEVLESS BETHY RECEVER SIGN COMBI SW INPUT 5	82	BR	IGN RELAY (F/B) CONT
R   COMBI SWINPUT 5	83	Ь	SS ENTRY RECEIVER
GR   COMBISWINPUT 3	87	В	SW INPUT
BR   COMBH SW	88	GR	SW INPUT
P   CAN-L	68	BR	PUSH SW
L   KEY SLOT HIL   P   AGG RELAY DOWN TOON TOON TOON TOON TOON TOON TOON T	06	Ь	CAN-L
R	91	٦	CAN-H
P   ACC RELAY CONT	95	ď	KEY SLOT ILL
CVT SHITT SELECTOR POWER SI   O SAL CONDITION I   O SAL CONDITION I   V CVT SHITT SELECTOR POWER SI   V CONDITION I   V CANDER DOOR REQUEST SW   V BLOWER POWER SUPPLY I   KFLESS ENTRY RECEIVER POWER I   V COMBI SWINPUT I   P COMBI SWINPUT I   P COMBI SWINPUT I   P COMBI SWINPUT I   COMBI SWINPUT I	93	Ь	ON IND
Y   CVT SHIPT SELECTOR POWER SI,	98	٦	RELAY
CONDITION	96	Υ	VT SHIFT SELECTOR POWER:
L   S'L CONDITION 2   V   PASSENGER DOOR REQUEST SW   DRIVER DOOR REQUEST SW   C   C   C   C   C   C   C   C   C	- 6	0	
V   PASSENGER DOOR REQUEST SW	86	٦	CONDITION
P PASSENGER DOOR REQUEST   W DRIVER DOOR REQUEST SW   Y SWILL POWER SUBPLY     C SCHOOL SW INPUT     P COMBI SW INPUT     P COMBI SW INPUT     C COMBI SW	66	^	SHIFT P
W   DRIVER DOOR REQUEST SW	100	Ь	
X   BLOWER RELAYO.	101	W	DRIVER DOOR REQUEST SW
KEYLESS ENTRY RECEIVER POWER   Y   SOLIDADIL'S   O   COMBI SWI INPUT 1     P   COMBI SWI INPUT 1     SB   COMBI SWI INPUT 2     G   HAZBAR BUT 2     C   COMBI SWI INPUT 3     C   COMBI SWI INPUT 4     C   C   C   C   C     C   C   C   C	102	Υ	BLOWER FAN MOTOR RELAY CONT
Y   S./L DOWER SUPPL   O   COMBI SW INPUT   G   COMBI SW INPUT   G   COMBI SW INPUT   G   COMBI SW INPUT   G   COMBI SW INPUT   COMBI SW INPUT   C   COMBI SW INPUT   C   C   C   C   C   C   C   C   C   C	103	7	YLESS ENTRY RECEIVER POWER
O COMBI SW INPUT SB COMBI SW INPUT SB HAZARD SW G HAZARD SW LG S/L COMM	106	Υ	'L POWER
P   COMBI SW INPUT     SB   COMBI SW INPUT     G   HAZARD SW     LG   S/L COMM	107	0	
SB         COMBI SW INPUT           G         HAZARD SW           LG         S/L COMM	108	Ь	
D LG	109	SB	
T/S S/F	110	9	HAZARD SW
	111	ΓC	S/L COMM

JCLWM4140GB

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

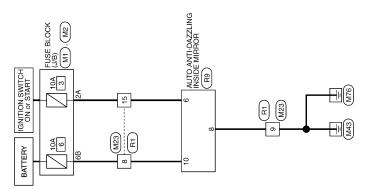
< DTC/CIRCUIT DIAGNOSIS >

[WITH ADP]

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

Wiring Diagram - INSIDE MIRROR SYSTEM -

INFOID:0000000005513410



D

Е

Α

В

C

F

G

Н

J

Κ

MIR

M

Ν

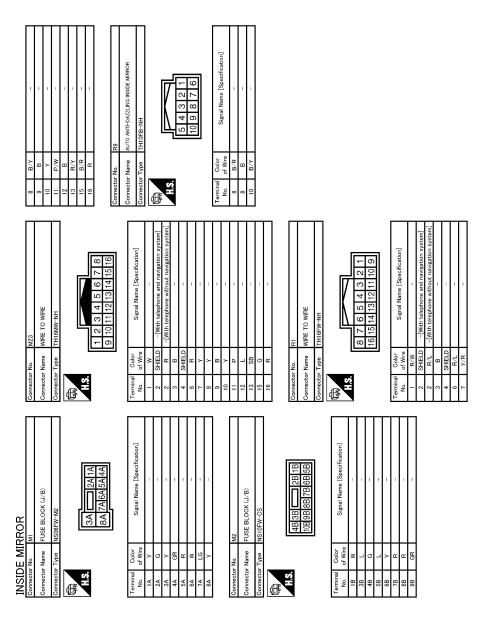
0

Р

JCLWM2742GB

2008/09/23

INSIDE MIRROR



JCLWM4143GB

[WITH ADP]

# **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
SE1 300	Set Switch	Release	OFF
MEMORY CWA	Maman avitale 4	Push	ON
MEMORY SW1	Memory switch 1	Release	OFF
MEMORY CWO	Managara suitab 0	Push	ON
MEMORY SW2	Memory switch 2	Release	OFF
01 105 014/ 50	01: 1:	Operate	ON
SLIDE SW-FR	Sliding switch (forward)	Release	OFF
	Oli li con cital di colo co li	Operate	ON
SLIDE SW-RR	Sliding switch (backward)	Release	OFF
DEOLIN OW ED	5 " ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	Operate	ON
RECLN SW-FR	Reclining switch (forward)	Release	OFF
	Reclining switch (back-	Operate	ON
RECLN SW-RR	ward)	Release	OFF
		Operate	ON
LIFT FR SW-UP	Lifting switch front (up)	Release	OFF
		Operate	ON
LIFT FR SW-DN	Lifting switch front (down)	Release	OFF
		Operate	ON
LIFT RR SW-UP	Lifting switch rear (up)	Release	OFF
		Operate	ON
LIFT RR SW-DN	Lifting switch rear (down)	Release	OFF
MID 00M 0M 11D		Up	ON
MIR CON SW-UP	Mirror switch	Other than above	OFF
		Down	ON
MIR CON SW-DN	Mirror switch	Other than above	OFF
MID 00M 0M DI		Right	ON
MIR CON SW-RH	Mirror switch	Other than above	OFF
MID 00M 0M 111		Left	ON
MIR CON SW-LH	Mirror switch	Other than above	OFF
MID OUNG OW 5		Right	ON
MIR CHNG SW-R	Changeover switch	Other than above	OFF
MID OURS OUT		Left	ON
MIR CHNG SW-L	Changeover switch	Other than above	OFF
		Upward	ON
TILT SW-UP	Tilt switch	Other than above	OFF
		Downward	ON
TILT SW-DOWN	Tilt switch	Other than above	OFF

Revision: 2009 September MIR-25 2010 Murano

В

Α

D

С

Е

F

Н

J

MIR

Κ

M

Ν

 $\circ$ 

Ρ

## < ECU DIAGNOSIS INFORMATION >

Monitor Item	Cond	dition	Value/Status						
TELESCO SW ED	Tologgopio switch	Forward	ON						
TELESCO SW-FR	Telescopic switch	Other than above	OFF						
TELESCO SW-RR	Telescopic switch	Backward	ON						
TELEGOO GW-KK	relescopic switch	Other than above	OFF						
DETENT SW	A/T selector lever	P position	OFF						
	741 00100101 10401	Other than above	ON						
STARTER SW	Ignition position	Cranking	ON						
	·g·····o·· pooliio··	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 si	de)	Change between 3.4 (close to peak) 0.6 (close to valley)						
MIR/SEN RH R-L	Door mirror (passenger si	de)	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*						
		LOCK	LOCK						
STEERING STATUS	Steering lock unit	unlock	UNLOCK						
VEHICLE SPEED	The condition of vehicle s	peed is displayed	km/h						
-		P position	ON						
P RANG SW CAN	A/T selector lever	Other than above	OFF						
		R position	ON						
R RANGE (CAN)	A/T selector lever	Other than above	OFF						
DOOR SW-FL	Driver door	Open	ON						
DOOK SW-FL	Driver door	Close	OFF						

#### **DRIVER SEAT CONTROL UNIT**

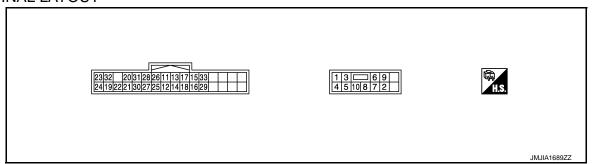
#### < ECU DIAGNOSIS INFORMATION >

[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

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

#### **TERMINAL LAYOUT**



## PHYSICAL VALUES

	nal No. color)	Description			dition	Voltage (V)
+	-	Signal name	Input/ Output	) Con	MILLOTT	(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)	1	Jaipar Signal		l I	Stop	0
4 (G/R)	Ground	Sliding motor forward output signal	Output	Seat sliding	Operate (forward)	Battery voltage
(3/14)		pat signal		l I	Release	0
5 (V)	Ground	Reclining motor backward output signal	Output	Seat reclining	Operate (backward)	Battery voltage
(v)	1	บนเหนเ อเซเาสเ		,	Stop	0

Revision: 2009 September MIR-27 2010 Murano

D

Α

В

Е

F

G

Н

J

Κ

MIR

M

Ν

0

## < ECU DIAGNOSIS INFORMATION >

	nal No. color)	Description		0.00	Jisi	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
(10/L)		output signal			Release	0
7 (L)	Ground	Lifting motor (rear) down output signal	Output	Seat lifting (rear)	Operate (down)	Battery voltage
					Stop	0
8 (L/W)	Ground	Lifting motor (rear) up out- put signal	Output	Seat lifting (rear)	Operate (up)	Battery voltage
					Stop	0
9 (L/R)	Ground	Lifting motor (front) down output signal	Output	Seat lifting (front)	Operate (down)	Battery voltage
					Stop	0
10 (L/B)	Ground	Lifting motor (front) up out- put signal	Output	Seat lifting (front)	Operate (up)	Battery voltage
		1 3			Stop	0
11 (G/B)	Ground	Sliding switch backward signal	Input	Sliding switch	Operate (backward)	0
					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
		Reclining switch forward signal Input Reclining switch (fee		Release	Battery voltage	
14 (R/W)	Ground			Reclining switch	Operate (forward)	0
		<b>5</b>			Release	Battery voltage
15 (Y/B)	Ground	Lifting switch (rear) down signal	Input	Lifting switch (rear)	Operate (down)	0
		3 3		( /	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)	Operate (down)	0
		3 3	Release	Battery voltage		
18 (LG/R)	Ground	nai (front)		0		
			Release	Battery voltage		
19 (G/Y)	Ground	d Sliding sensor signal Input		Seat sliding	Operate	10mSec/div
					Stop	0 or 5

## **DRIVER SEAT CONTROL UNIT**

## < 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	Press Other than above	0								
(V)	2.00110	, 5 oignai	5									
28 (V/W)	Ground	Memory switch 2 signal	<u> </u>									
29 (O/L)	Ground	Set switch signal	Input	Set switch	Other than above 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						

#### **DRIVER SEAT CONTROL UNIT**

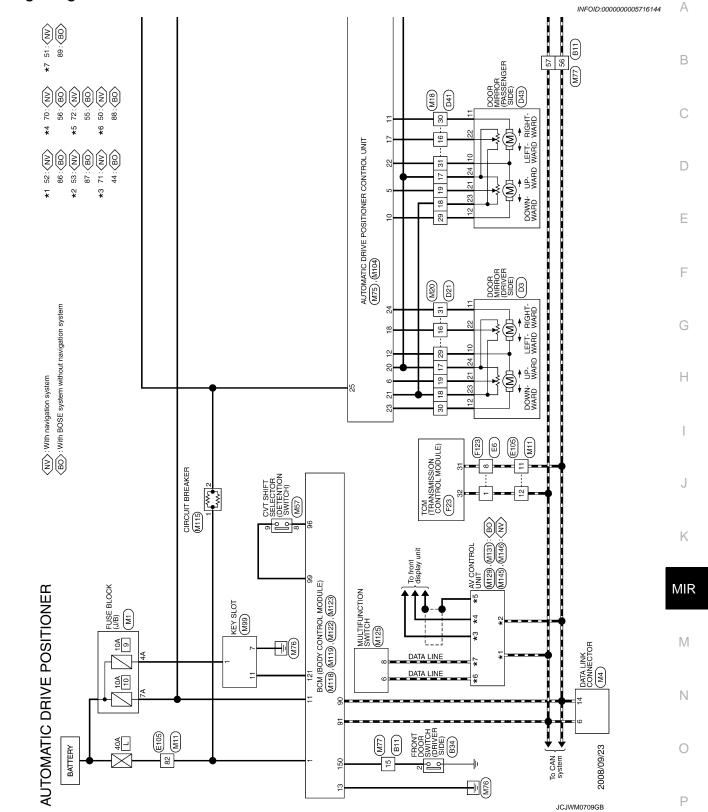
## < ECU DIAGNOSIS INFORMATION >

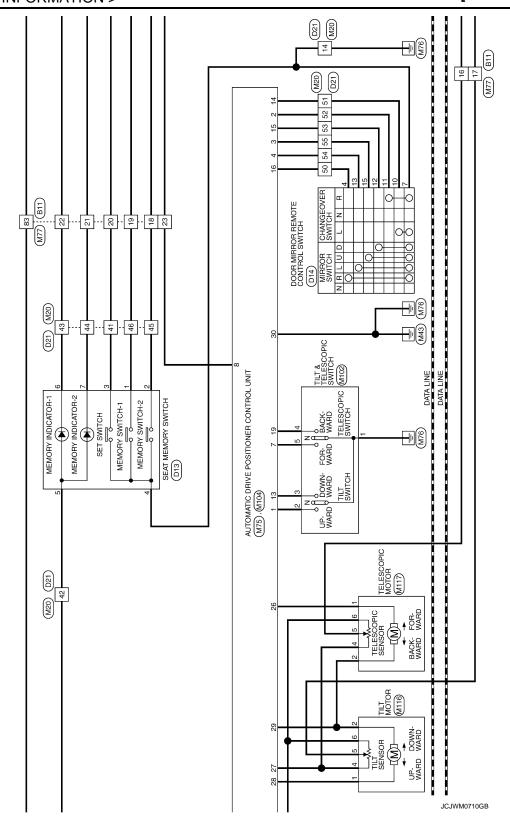
[WITH ADP]

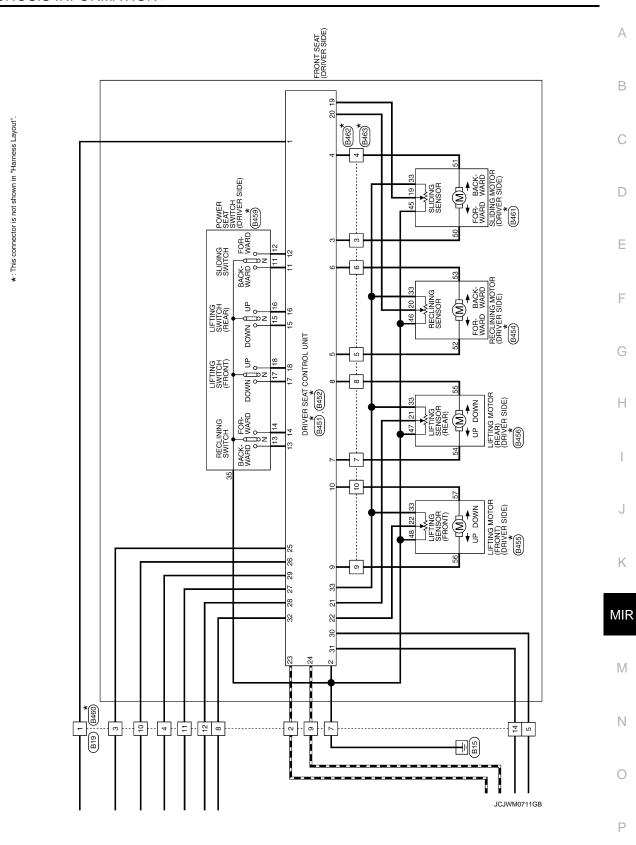
	nal No. color)	Description		Cond	dition	Voltage (V)
+	-	Signal name	Input/ Output	Conc	dition	(Approx)
31	Ground	Telescopic sensor signal	Input	Telescopic	Operate	
(BR/W)	Ground	relescopic serisor signal	Input	relescopic	Other than above	0 or 5
32 (W/L)	Ground	UART communication (TX/RX)	Input	Ignition 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 -







Revision: 2009 September MIR-33 2010 Murano

2 SB -		Connector No. B451	Connector Name DRIVER SEAT CONTROL UNIT	Connector Type NS12FW-CS	1			10 8 7	2 2 2		Terminal Color Simple Name [Security and			2 B –	g	7/50 4 4 ×	ľ	72	8	H					T							ũ		7							ſ	
	R LG -	- 0		B19	ne WIRE TO WIRE	e NS16FW-CS	1			2 3	8 9 10 11 12 13 14 15 16		-	Color Signal Name [Specification]	9			: a	-	GR	B	-			388		BR -		B/W		B34	FRONT DOOR SWITCH (DRIVER SIDE)	П	e A03FW		K	<u>x</u>	- <b> </b> c	v c	ଳ	]	***
96	$^{\rm H}$	66		Connector No.	Connector Name	Connector Type	ģ	修	H.S.				L	ja j	No. of V	- c	+	+	╀	9	7 E		+	+	T 2	╀	Н	+	16 B/		Connector No.	Connector Name		Connector Type	Œ	季	S F					Terminal Color
1	1 1	1	-[With rear view camera and telephone] -[With rear view camera without telephone]	-	1 1	1	1	1	1 1	1	1	1	1	1	1	1 1			1	,	1	1	1	-	1 1	1	1	1	1		-	1	I	-	1	1 1		1	1	-	-	
44 BR	45 L 46 GR	$\dashv$	48 GR 48 BR	П	50 SHIELD 51 B	╁	Н	Н	55 BR	╁	T	59 SHIELD	$\dashv$	61 R/L	+	64 V	- 00	╁	┞	69 SHIELD	Н	71 B/R	+	$\dashv$	74 SB	╀	Н	S	79 B	+	H	H	+	85 G	+	200	ľ	H	Н	92 BR	+	^
П	4		1						Signal Name [Specification]											9	_						_			0 0		8	8			0 0		6				6
AUTOMATIC DRIVE POSITIONER Connector No. B11		Type TH80MW-CS19			日本 日	2 S	3		Color Signal Name [					SB		VHE D				. M/L	7				> 8%				× >						0 6							85
AUTOM, Connector No.	Connector Name	Connector Type	<b>€</b>	V.	1			-	No. o.	+	2	3		2	9	, a	T	t	H	12	13	14	15	91	17	19	20	_	22	24	25	Н	+	30	5 3	35	t	36	37	40	+	42

JCJWM1023GB

## **DRIVER SEAT CONTROL UNIT**

[WITH ADP]

RIVER SIDE)  1950  1050	A B
NG MOTOR (D   NG -0344   NG -03	С
14   BR/W   16   GR     15   BA/R     16   GR     16   GR     17   BA/R     18   BA/R     19   Gomestor Name   Sulpi     19   GA/R     19   GA/R     19   GA/R     10   GA/R     10   GA/R     10   GA/R     10   GA/R     10   GA/R     11   GA/R     12   GA/R     13   GA/R     14   GA/R     15   GA/R     16   GA/R     17   GA/R     17   GA/R     18   GA/R     19   GA/R     10   GA/R     10   GA/R     10   GA/R     10   GA/R     11   GA/R     12   GA/R     13   GA/R     14   GA/R     15   GA/R     16   GA/R     17   GA/R     18   GA/R     19   GA/R     10	D
R SIDE)  aution]  aution]	Е
Signal Name   Specification	F
8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	G
Connector Name   Conn	Н
Signal Name [Specification]	I
	J
Terminal   Color   No.   Color   Color   Color   Color   Color   Color   Color   No.   Color   Color	К
	MIR
Connector Name   B452   Connector Name   Connector Name   Color Signal Name   Specification   Color Name   Color Signal Name   Specification   Color Name   Col	M
MATIC DRIVE   Mo.   B482   Mo.   B484   Mo	Ν
Connector Name   Conn	0
JCJWM1024GB	
	P

AUTOMATIC DRIVE POSITIONER								
Connector No. B463	Connector No. D13	Connector No.	. D21		53	٦	-[With automatic drive positioner]	
Connector Name WIRE TO WIRE	Connector Name SEAT MEMORY SWITCH	Connector Name	WIRE TO WIRE		53	Ь	-[Without automatic drive positioner]	
					54	SB	-[With automatic drive positioner]	
Connector Type NS10FW-CS	Connector Type A08FW	Connector Type	pe TH40FW-CS15		54	LG	-[Without automatic drive positioner]	
₫.	Œ.	4			22	g,	-[With automatic drive positioner]	
CENT	Atth	手	-		ŝ	5	-[Without automatic drive positioner]	
H.S.	<u> </u>	H.S.	8 7 6 5 4 3	-				
0 0 0	9 6 7 9 1 4		322212019	181716	Connec	Connector No.	D41	
0 0 4 9 10	7 0		251504948847 3534333	2827	Connec	Connector Name	WIRE TO WIRE	
		J		)	į	P	The Contract of the Contract o	
	-	⊢			Connec	Connector Type	TH40FW-CS15	
l erminal Color Signal Name [Specification]	l erminal Color Signal Name [Specification]	No. of	Color Signal Name [Specification]	~	<u>4</u>			
9	T	-	_					
4 G/R -	2 SB –	2	- 5		Ć.	_	15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	
>	۵	8	1			46 45 44 4	342/41/40/39/38/37/38 28/25/24/23/22/21/20/19/18/17/16	
R/L	L	4				55545	55 54 53 52 51 50 43 48 47 35 34 33 32 31 30 29 28 27	
		2						
	- J 9	9	SB					
9 L/R -	- M L	7			Terminal	II Color	Simpl Name [Secution]	
H		8	BR -		No.	of Wire	olgriai Ivame Lopecincationi	
38 Y/W –		6	GR -		-	g	-	
>	Connector No. D14	$\vdash$	>		2	>	1	
	DOOR MIRROR REMOTE CONTROL SWITCH (WITH AUTOMATIC	=	- 0		4	В	-	
	Connector Name DRIVE POSITIONER)	14			5	*	1	
Connector No. D3	Connector Type TK16FBR	15	5		ç	۵		
Π	1	16	5		_	. 0	1	
Connector Name DOOR MIRROR (DRIVER SIDE)		17	-		00	6	1	
Connector Type TH24MW-NH	À	+	GR		19	g	1	
	11001	╀	- 1		17	>	1	
	0 6 - 5 6 7	╁	- 10		18	GR	,	
	8 9 10 11 12 13 14 15 16	24	-		19	WB.	1	
		25	_ ^		20	P	1	
4 3 2		26			24	P	1	
24 23 22 21 20 19 18 17 16 15 14 13	lal	59	- ^		25	М	-	
	No. of Wire olginal Name Lopecinication	30	- BS		56	0	-	
	4 V	31	BR -		58	۸	-	
lal	7 B –	32			30	SB	-	
No. of Wire	- × 8	33	- D		31	BR	-	
- LG -	- T 6	34	- A		32	œ	-	
Н	L	35	1		33	5	-	
		41			34	٨	1	
12 SB –	12 L –	42	GR -		32	٦		
H	13 SB –	43	- 1					
21 BR –	15 LG -	44	- M					
H		45	SB					
Н		46						
24 Y –		20	- ^					
		51						
		52	P -[With automatic drive positioner]	oner]				
		52	L -[Without automatic drive positioner]	tioner]				

JCJWM1025GB

### **DRIVER SEAT CONTROL UNIT**

< ECU DIAGNOSIS INFORMATION >

[WITH ADP]

	А
S.M-B S.M-B S.M-A S.M-A S.M-A S.M-A S.M-A S.M-A S.M-A S.M-A S.M-B S.M-A S.M-B	В
	С
Colorector Name   Colorector	D
(E) (S) (S) (S) (S) (S) (S) (S) (S) (S) (S	E
R	_
F23	F
S   S   S   S   S   S   S   S   S   S	G
67 BR 68 SB 77 70 SB 87 77 77 88 87 77 77 69 89 77 77 60 77 77 77 77 77 77 77 77 77 77 77 77 77	Н
Signal Name (Specification)	I
	J
	K
Connector No.   Connector No.   Connector Name   Connector Type   Connec	T.
	MIR
IC DRIVE POSITION  D43  D00R MIRROR (PASSENGER SIDE)  THZAMW-NH    10 9 8 7 6 5 4 3 2 2   22   21   20   19   18   17   16   15   14   15   14   15   14   15   14   15   15	M
IC DRIVE PO D43 D00R MIRROR (PASSI THZAMW-NH  10 9 8 7 6 5 122 2120191811 Signal Name [ Signal Name [ Signal Name [ Signal Name [	
	N
AUTOMA  Connector No.  Connector Name    12    13    14    13    14    13    14    13    14    14    15    15    14    15    1	0
	JCJWM1026GB

AUTOMATIC DRIVE POSITIONER							
Connector No. M1	Conne	Connector No.	M11	49	ď	1	
Connector Name FUSE BLOCK (J/B)	Connec	Connector Name	WIRE TO WIRE	89	≥ 0	1.1	33 P
Connector Type NS06FW-M2	Conne	Connector Type	TH70FW-CS10-M3	07	. 0	1	3 &
₫.	Q.		Damed	71	5	1	
	手			72	꾧 .	1	
H.S.	H.S.	vá.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	74	<b>-</b> 8		
V V V V V V V V V V V V V V V V V V V				75	. W	1	
8A /AloAloAl4A				9/	۵	Т	
			2 0	77	ŋ	1	
		ŀ		78	>	1	
Terminal Color Signal Name [Specification]	Terminal	_	Signal Name [Specification]	79	9	-	
of Wire	ġ ď	of Wire		8 8	œ 3	1	
¥	.7	7	1	20	\$	_	
	က	۵	1	85	≥	ı	
*	4	0	1	83	0	1	
4	2	0	1				
4	9	g	1				
_	8	œ	_	Connector No.	tor No.	M18	
7A LG –	Ξ	۵	_	Janua	Connector Name	WIRE TO WIRE	
8A Y	12	٦	1		o lague		
	13	۸	-	Connec	Connector Type	TH40MW-CS15	
	14	>	1	_			
Connector No. M4	15	œ	1	B			
OCTORANIA OCUMENTOD	20	>	1	Ę			
	21	BR	-	Ĉ.	-	2 3 4 5 6 7 8 9 10 11 12 13 14 15	
Connector Type   BD16FW	22	9	-		16 17 18 1	16 17 18 19 20 21 22 23 24 25 26 36 37 38 39 40 41 42 43 44 45 46	
ą́	23	а.	1		2/2/2		
医	24	>	1				
v	25	_	1				
	26	_	1	Terminal		Signal Name [Specification]	
100111001	27	0	1	S	of Wire	Transport of the state of the s	
7 0 6 + 6 7	28	æ	1	-	g	1	
	29	_	1	2	>	1	
	30	œ	=	4	*	-	
Terminal Color Signal Name [Specification]	47	Ф	-	2	В	-[With BOSE system]	
of Wire	48	٦	_	2	BR	-[Without BOSE system]	
4 B -	49	Μ	1	9	GR		
5 B	20	GR	1	7	5	ı	
7	51	P	1	∞	В	1	
	25	>	1	16	>	1	
9	53	>	-	17	>-	1	
L	54	SB	1	18	*	1	
- × 91	22	۵	1	19	œ		
	26	SB	1	20	SB	ı	
	9	۸	-	24	ΓC	_	
	19	GR	1	25	٨	-	
	62	0	-	26	۵	1	
	63	>	1	29	0	1	
	9	SHELD		99	g	1	
	99	*		31	>	1	
				,			

JCJWM1027GB

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 I FET(I H)
0	9	Я	57	0	1	^	W	٦	9	А	W	۸	٦	as
9	11	12	13	14	12	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]	M57	CVT SHIFT SELECTOR
٦	۸	57	5	BS	0	r No.	r Name
53	23	54	54	22	22	Connector No.	Connector Name

-						
atic		OR			4	8
-[Without automatic of		ECT		_	ıIΠ	9
ut a		SELI			Ш	9
Vitho		FI			ε	4
수	7	CVT SHIFT SELECTOR	TK10FW		ŀ	7
	<b>19M</b>	S	ĽΚ			
0	r No.	r Name	r Type			
22	Connector No.	Connector Name	Connector Type	修	2	

2 4 5 6 8	Signal Name [Specifi	ı	1	-	-	-	1
	Color of Wire	FG	В	Ь	В	Υ	^
	Terminal No.	-	4	9	7	8	ь
_							

1	LG	-
4	В	1
9	Ь	-
7	В	-
8	Υ	_
6	۸	-
Connector No.	r No.	M75
Connector Name	r Name	AUTOMATIC DRIVE POSITIONER CONTROL UNIT
Connector	r Type	TH24FW-NH
E.S.	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]
-	Υ	UPWARD
2	GR	SELECT RH
3	SB	UPWARD
4	LG	LEFTWARD
5	ď	MIR SENS UP DOWN(RH)
9	Υ	MIR SENS UP DOWN(LH)
7	Ь	FORWARD
80	LG	RX/TX

3 4 5 6 7 8 9 10 11	15 16 17 18 19 20 21 22 23	Signal Name [Specification]	UPWARD	SELECT RH	UPWARD	LEFTWARD	MIR SENS UP DOWN(RH)	MIR SENS UP DOWN(LH)	FORWARD	RX/TX	
1	13 14	Color of Wire	>	GR	SB	LG	ď	Υ	Ь	LG	
		Terminal No.	-	2	3	4	5	9	7	8	

AUTOMATIC DRIVE POSITIONER	M20	WIRE TO WIRE	TH40MW-CS15	
AUTOMATI	Connector No.	Connector Name	Connector Type	H.S. [1 2 3 4

Signal Name [Specification]	1	-	ı	ı	1	-	-	-	1	-	-	-	-	_	-	-	-	-	1	_	_	1	-	_	-	_	_	_	_	_		-	-	-	1	_	-[With automatic drive positioner]	-[Without automatic drive positioner]
Color of Wire	>	ŋ	*	<u></u>	_	>	BR	0	SB	П	9	В	GR	٦	Υ	W	Υ	SB	Ь	^	W	œ	٦	SB	М	Ь	SB	œ	ΓC	ΓG	0	Υ	Ь	Ь	٨	0	GR	œ
Terminal No.	-	2	3	4	5	9	7	8	6	10	11	14	15	16	17	18	19	20	54	25	26	59	30	31	32	33	34	35	41	42	43	44	45	46	20	51	52	52

JCJWM1028GB

Α

В

С

D

Е

F

G

Н

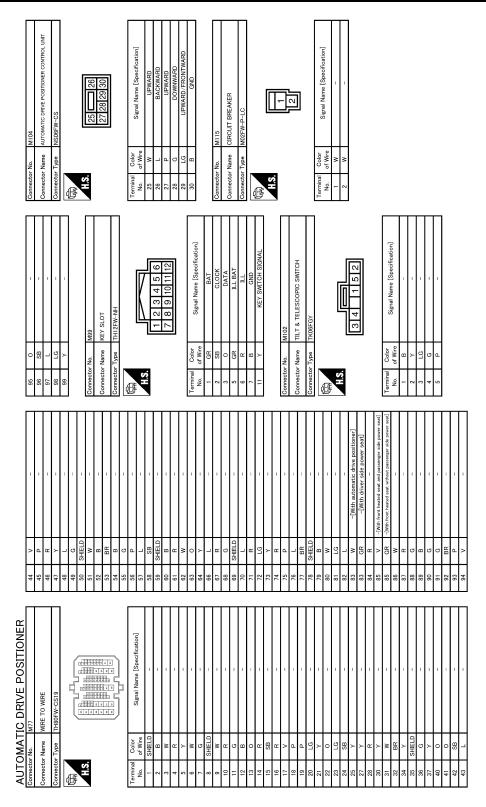
Κ

MIR

 $\mathbb{N}$ 

Ν

Ρ



JCJWM1029GB

LE)	L LINK R R R R R R R R R R SW SW SW SW SW SW SW SW SW CAND T T T T T T T T T T T T T T T T T T T	А
MI23 TH40FG-NH TH40FG-NH SECONTROL MODULE) SECONTROL MODULE) SECONTROL MODULE) SECONTROL MODULE) SECONTROL MODULE)	Signal Name [Speefication]  RANI SENSOR SERIAL LINK OPTICAL SENSOR FUSE CHECK STOP LAMP SW DR DOOR UNLOCK SENSOR KEY SLOT SW TREASENSER ROCK SW FEAR DEFORCER SW OWER WINDOW SW COMM THE PRESS RECEIVER SUPPLY COMEIS WOUTPUT 5 COMEIS SW OUTPUT 5 COMEIS SW OUTPUT 3 DERVER BOOR SW REAR WINDOW DEFORCER RELAY REAR WINDOW DEFORCER RELAY	В
129 121	$ \bigcirc \bigcirc$	С
Connector No. Connector Nam Connector Type H.S. ESSE	Terminal No. No. 112 113 113 113 113 113 113 113 113 113	D
MODULE)	Signal Name [Specification]  ROOM ANT2- ROOM ANT2- ROOM ANT7- PASSENGER DOOR ANT- DRIVER DOOR ANT- INMOBI ANTERINA CONTROL INMOBI ANTERINA CONTROL INMOBI ANTERINA CONTROL INMOBI ANTERINA CONTROL COMBI SWI INPUT 3 PUSH SW INPUT 3 COMBI SWI INPUT 3 ALC DONDITION 1 S'L CONDITION 1 S'L CONDITION 1 S'L CONDITION 1 S'L CONDITION 1 COMBI SWI INPUT 4 COMBI SWI INPUT 4 COMBI SWI INPUT 4 COMBI SWI INPUT 4 COMBI SWI INPUT 2 HAZARD SWI S'LL COMMIN	Е
M122 BCM (BODY CONTROL MODULE) TH40FB-NH TH40FB-NH BST 58 SE	Signal Name (Specification)  ROOM ANT2+ ROOM ANT2+ PASSEWIGER DOOR ANT+ DRIVER DOOR ANT+ DRIVER DOOR ANT+ DRIVER DOOR ANT- DRIVER DOOR ANT- INMOBIL ANTENNA, SIGNAL IGN RELAY (F-78) CONTROL IGN RELAY (F-78) CONTROL COMBI SW INPUT 3 COMBI SW INPUT 3 COMBI SW INPUT 3 CONBI SW INPUT 3 CONBI SW INPUT 3 CON IND ACC RELAY CONT ON IND ACC RELAY CONT S'L CONDITION I S'L CONDER SW INPUT 4 COMBI SW INPUT 2 INCARROL SW INPUT 4 COMBI SW INPUT 2 INCARROL SW INPUT 3 INCARROL S	F
ector No. ector Name ector Type    1   10   10   10   10   10   10   10	No.   Oldon   Oldo	G
Comm		Н
TROL MODULE)	Signal Name [Specification]  POWER WINDOW POWER SUPPLY (BAT)  MITS  BECK (BDDY CONTROL MODULE)  NS16FW-GS  Signal Name [Specification]  NTERIOR ROOM LAMP POWER SUPPLY  Signal Name [Specification]  NTERIOR ROOM LAMP OUTPUT  ALL DOOR, FUEL LID LOCK OUTPUT  STEP LAMP OUTPUT  ALL DOOR, FUEL LID LOCK OUTPUT  BAT (ELISE)  PASSENGER DOOR UNLOCK OUTPUT  ALL DOOR, FUEL LID LOCK OUTPUT  THAN SIGNAL LH  TURN SIGNAL LH  TU	I
MITIS BCM (BODY CONTROL MODULE) MOSFB-LC  113	Signal Name (Specification	J
Connector No. Connector Name Connector Type	Terminal   Color   No. of Wire   2   CAR	К
<b>E</b>		MIR
AUTOMATIC DRIVE POSITIONER Connector No. MIII Connector Name TILT MOTOR Connector Type NSOBFW-CS  ARS.  E	Signal Name [Specification]	M
MII6 MII6 MII6 NILT MOTOR NS06FW-CS C	NSOGEW.	N
AUTOMA: Connector Name Connector Type H.S.	Connector No.   Connector No	0
		JCJWM1030GB

Revision: 2009 September MIR-41 2010 Murano

R) D DOB (G-GBEN) STONA!	2 3	SHIELD	8	SHIELD	W RGB ARE	B	œ	70 R COMM (CONT->DISP)	1 G COMM (DISP->CONT)	72 SHIELD SHIELD																																									
Mids	WITHOUTH THE PROPERTY OF THE MACHINES OF THE PROPERTY OF THE P	AV CONTROL UNIT (WITH NAVIGATION STSTEM)	TH40FW-NH	99	67		7	24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60	23 25 27 29 31 33 35 37	2		Color Signal Name [Specification]		GND	À	GND	'A'		B MICROPHONE VCC	CD CD	W MICROPHONE SIGNAL		G PARKING BRAKE	SB REVERSE		CON	B CONTROL SIGNAL	B CONTROL SIGNAL	G AV COMM (H)		R AV COMM (H)	L AV COMM (L)		P CAN-L			o. M146	ame AV CONTROL UNIT (WITH NAVIGATION SYSTEM)	П	ype TH12FW-NH			7		62 64 66 68 70 72	61 63 65 67 69 71			Color Simal Nama [Specification]	of Wire Signal Name [Specification]	
Connector No	Company of the control of the contro	Connector IN	Connector Type	1	季	<u> </u>	_ 5	22			ŀ	la	1	12	22	52	24	22	56	┪	28	32	36	Ш			ayer] 42	43	48	49	20	21	52	23			Connector No.	er] Connector Name		er] Connector Type	_	唐	۴			_	Γ		a l		
CHIELD	COMM (CONT->DISP)	ΛÞ	INVERTER GND	INVERTER VCC			M131	AV CONTROL UNIT (WITH BOSE SYSTEM WITHOUT	NAVIGATION SYSTEM)	TH32FW-NH				7	30 89 88 87 86 83 84 83 82 81 80 79 78 77 76	102   U   100   39   30   31   30   34   30			Signal Name [Specification]	0	TEL VOICE SIGNAL (-)	TEL VOICE SIGNAL (+)	SHIELD	SOUND SIGNAL RH (-)[With DVD player]	iPod SOUND SIGNAL RH (-)[Without DVD player	SOUND SIGNAL RH (+)[With DVD player]	iPod SOUND SIGNAL RH (+)[Without DVD player	GND	CAN-H	CAN-L	AV COMM (H)	AV COMM (L)	AV COMM (H)	AV COMM (L)	AUX SOUND SIGNAL RH (+)	AUX SOUND SIGNAL LH (+)	AUX SOUND SIGNAL GND	SOUND SIGNAL LH (-)[With DVD player]	iPod SOUND SIGNAL LH (-)[Without DVD player	SOUND SIGNAL LH (+)[With DVD player]	iPod SOUND SIGNAL LH (+)[Without DVD player.	SHIELD[With DVD player]	SHIELD[Without DVD player]	SW GND	EJECT SIGNAL	IGNITION	REVERSE	PARKING BRAKE	VEHICLE SPEED (8-PULSE)		
SK CHIELD	$\dagger$	57 R	58 BR	. ∀			Connector No.	Connector Name	Colliforcial Indillo	Connector Type	Q	事	SI.		90 80 80	10011001			ja j	No. of Wire	79 L	T	81 SHIELD	82 W	$\dashv$	Н	83 R	85 B	_	4	88 R	89 L	90 G	_	95 R	+	+	98 G	+	+	99 BR	100 SHIELD	100 SHIELD	101 V	103 W	104 G	105 SB	106 G	107 V		
AUTOMATIC DRIVE POSITIONER	$\prod_{i}$		Connector Type TH16FW-NH		CHAT.	<u> </u>		2 4 6 8 10 12 14 16	1 3 5 7 9 11 13 15			Signal Name [Specification]	or wire	+	x (	×!	SB	6 R AV COMM (H)	<u> </u>	>	14 W EJECT SIGNAL			Connector No. M129	Connector Name AV CONTROL UNIT (WITH BOSE SYSTEM WITHOUT	П	Connector Type TH24FW-NH	d		<u> </u>	50 00 00 01 11 01 01 11 11 11 11 11 11	40 39 38 37	59 58 57 56 55 54 53 52 51 50 49 48			la l	ot Wire	٥ ا	<u>-</u>	>	39 L RGB (G:GREEN) SIGNAL	40 G RGB (R:RED) SIGNAL	41 B RGB SYNC	42 SHIELD SHIELD	W	g	5	46 LG SIGNAL GND	O SI	SHIELD	

JCJWM1031GB

Fail Safe

INFOID:0000000005712156

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

### **DRIVER SEAT CONTROL UNIT**

### < ECU DIAGNOSIS INFORMATION >

[WITH ADP]

Α

В

D

Е

F

Operating in fail-safe mode	Malfunction Item	Related DTC	Diagnosis
	CAN communication	U1000	ADP-41
Only manual functions operate normally.	CONTROL UNIT	U1010	ADP-42
	EEPROM	B2130	ADP-43
Only manual functions, except door mirror, operate normally.	UART communication	B2128	ADP-50
Only manual functions, except seat sliding, operate normally.	Seat sliding output	B2112	ADP-44
Only manual functions, except seat reclining, operate normally.	Seat reclining output	B2113	ADP-46
Only manual functions, except steering tilt, operate normally.	Steering column tilt output	B2116	ADP-48

DTC Index

CONSULT-III Timing*1				
display	Current mal- function	Previous mal- function	Item	Reference page
CAN COMM CIRCUIT [U1000]	0	1-39	CAN communication	ADP-41
CONTROL UNIT [U1010]	0	1-39	Control unit	ADP-42
SEAT SLIDE [B2112]	0	1-39	Seat slide motor output	ADP-44
SEAT RECLINING [B2113]	0	1-39	Seat reclining motor output	ADP-46
STEERING TILT [B2116]	0	1-39	Tilt motor output	ADP-48
UART COMM [B2128]	0	1-39	UART communication	ADP-50
EEPROM [B2130]	0	1-39	EEPROM	ADP-43

<sup>\*1.</sup> 

MIR

K

M

Ν

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

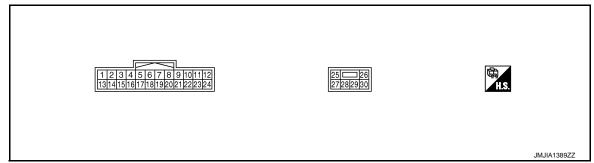
<sup>• 1-39:</sup> Displayed if any previous malfunction is present when current condition is normal. The numeral value increases by one at each IGN ON to OFF cycle from 1 to 39. The counter remains at 39 even if the number of cycles exceeds it. However, the counter is reset to 1 if any malfunction is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

[WITH ADP]

### AUTOMATIC DRIVE POSITIONER CONTROL UNIT

Reference Value

### **TERMINAL LAYOUT**



### PHYSICAL VALUES

	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 switch	Operated (left)	0
(LG)	Giouna	Mirror switch left signal	Input	WIIITOI SWILCTI	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 position		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]

	inal No. color)	Description		Conditi	on	Voltage (V)
+	-	Signal name	Input/ Output	Conditi	OII	(Approx.)
10	Ground	Door mirror motor (pas- senger side) up output	Output	Door mirror RH	Operate (up)	Battery voltage
(O)	Giodila	signal	Output	Door Hillion Kin	Other than above	0
11	Ground	Door mirror motor (pas- senger side) left output	Output	Door mirror RH	Operate (left)	Battery voltage
(G)	Ground	signal	Output	Door Hillion Kir	Other than above	0
		Door mirror motor (driver side) down output sig-			Operate (down)	Battery voltage
12	Ground	nal	Output	Output Door mirror (LH)	Other than above	0
(R)	Cround	Door mirror motor (driver side) right output sig-		Operate (right)	Battery voltage	
		nal		( 8		0
13	Ground	Tilt switch down signal	Input	Tilt switch	Operate (down)	0
(LG)	Giodila	The Switch down Signal	mput	THE SWILCH	Other than above	5
14	0	Changeover switch LH	1	Changeover	LH	0
(O)	Ground	signal	Input	switch position	Neutral or RH	5
15	Ground	Mirror switch down sig-	Input	Mirror switch	Operate (down)	0
(L)	Glound	nal	mpat	WIIITOI SWILCII	Other than above	5
16	Cround	Mirror quitab right aignal	lanut	Mirror quitab	Operate (right)	0
(V)	Ground	Mirror switch right signal	Input	Mirror switch Other than above		5
17 (W)	Ground	Door mirror sensor (pas- senger side) left/right signal	Input	Door mirror RH position		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	Door mirror LH position		Change between 0.6 (close to lef edge) 3.4 (close to right edge)
19 (G)	Ground	Telescopic switch back- ward signal	Input	Telescopic switch	Operate (back- ward)	0
(-)					Other than above	5
20 (Y)	Ground	Ground	_	_		0
21 (W)	Ground	Door mirror motor sen- sor power supply	Input	_		5

Revision: 2009 September MIR-45 2010 Murano

В

Α

С

D

Е

F

G

Н

1

Κ

MIR

 $\mathbb{N}$ 

Ν

0

### **AUTOMATIC DRIVE POSITIONER CONTROL UNIT**

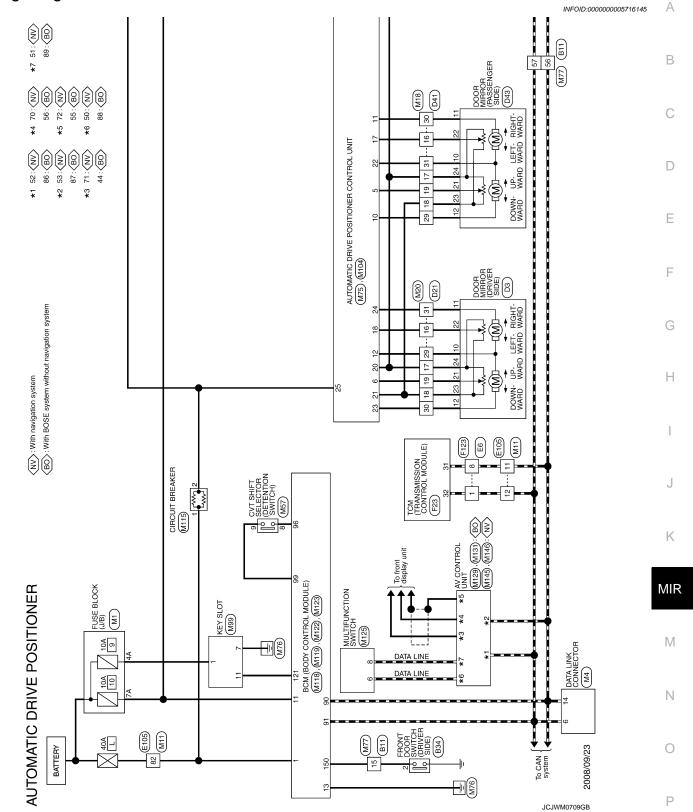
### < ECU DIAGNOSIS INFORMATION >

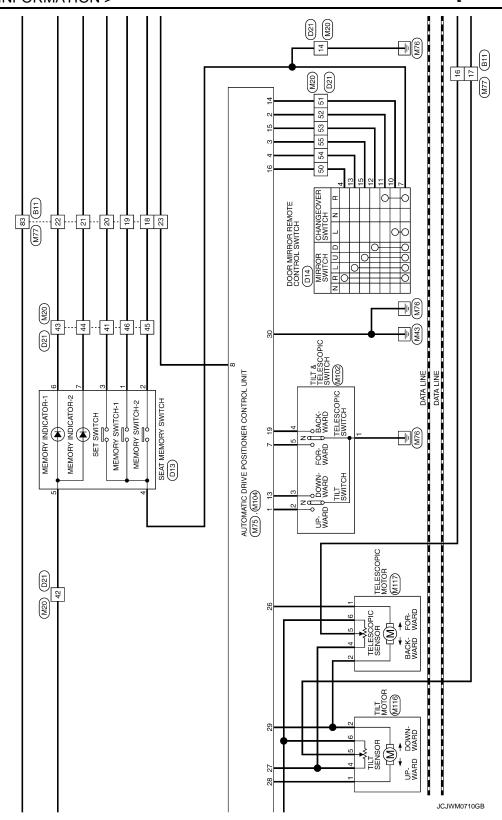
[WITH ADP]

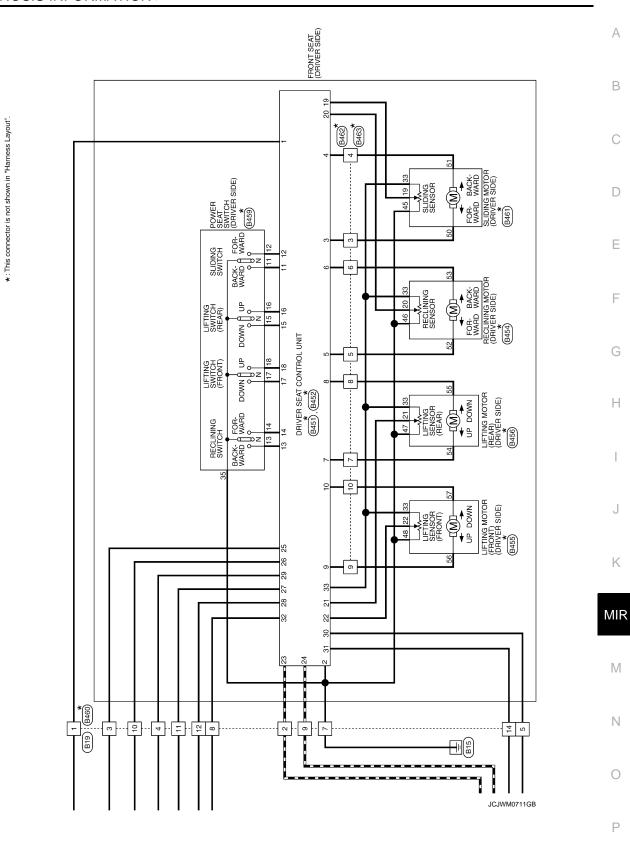
	nal No. color)	Description		Conditi		Voltage (V)
+	-	Signal name	Input/ Output	Conditi	on	(Approx.)
		Door mirror motor (passenger side) down out-			Operate (down)	Battery voltage
22	Ground	put signal	Output	Door mirror (RH)	Other than above	0
(V)	Cround	Door mirror motor (passenger side) right output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







Revision: 2009 September MIR-49 2010 Murano

AUT	OMAT	AUTOMATIC DRIVE POSITIONER						
Connector No.	or No.	B11	44	BR	1	96 GR	-	2 SB –
Connect	Connector Name	WIRE TO WIRE	46	J GR	1 1	97 R	1 1	
Connector Type	or Type	TH80MW-CS19	47	>	1	Н	1	Connector No. B451
1			84 84	BR GR	-[With rear view camera and telephone] -[With rear view camera without telephone]			Connector Name DRIVER SEAT CONTROL UNIT
			46	>		Connector No.	B19	Connector Type NS12FW-CS
		S S S S S S S S S S S S S S S S S S S	20	SHIELD	1	Connector Name	WIRE TO WIRE	<b>4</b>
		8 8 9 9 9 1 10 9 9 2 10 9 1 8 10 9 1 8 10 9 1 8 10 9	25	۵ ۵	1	Connector Type	NS16FW-CS	AHIT
			23	>	T	1	1	13 7 6 9
	- 1		24	57	-	修		1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0
Terminal	Color	Signal Name [Specification]	55	H G	1	S		0 0
- NO.	SHELD		96	1 -			2 3 4	
2	<u>a</u>		28	~	i		8 9 10 11 12 13 14 15 16	
က	R/L		29	SHIELD	1	•		No. of Wire Signal Name [Specification]
4	R/W	1	09	В	-			1 R
2	SB	-	19	R/L	1	Terminal Color	Simpl Nama [Spacification]	2 B -
9	۵	1	62	R/W	1	No. of Wir		3 G
7	>		63	ΓC	1	- BR	1	٥
ω .	SHIELD		9	>	1	+		> 1
6	BR/L		99	æ,	1	+	1	RVL
2 ;	5/2		9	. J		+		]
= !	۸/۲		8	¥ !		+		W
7	W/L		9	SHIELD	1	9	1	+
13	_	1	0	W/R	1	7 B	1	10 L/B -
14	BR		71	B/R	ı	$\dashv$	1	
12	SS S		72	+	1	+	1	
16	BR		73	$\dashv$	1	10 LG	1	
17	>	1	74	SB	I	$\dashv$	1	
82	SB.	-	72	4	ī	+	1	
19	~		76		i	+		
20	2 ح	1	/ 6	۲ آ	ī	14 BK	1	
- 66	2 3		0 02	Ť		ľ		
23	<b>=</b> >		8 08	2 ≥	1	1		
24	GR	,	8	œ	1			
22	>-	1	82	_	1	Connector No.	B34	
27	۸		83	BR	-	Connector Name	EBONT DOOR SWITCH (DRIVER SIDE)	
28	M/L	1	84	0	1		П	
30	۵	-	82	9	1	Connector Type	A03FW	
31	0	-	98	SB	Ī	ģ		
32	BR	1	87	۳	1	逐	E	
34	SB	1	88	5	1	Į.		
32	SHIELD	-	88	æ	ı	T T	<del>-</del>	
98	9	1	90	>	1		0	
37	57	1	91	ŋ	1		1 (	
40	>-	1	92	æ	1		9	
<del>1</del>	0	1	93	+			]	
45	BS	1	94	>	ī	Terminal Color	Signal Name [Specification]	
43	g		92	$\dashv$	_	No. of Wir		

JCJWM1023GB

### **AUTOMATIC DRIVE POSITIONER CONTROL UNIT**

< ECU DIAGNOSIS INFORMATION >

[WITH ADP]

E461	АВ
14   BR/W   15   BR/R   16   GR   BR/R   16   GR   B46    Gomestor Name   SLID    Gomestor Type   F000   Gomestor Name   Gom	C
Signal Name (Specification)  Signal Name (Specification)  Signal Name (Specification)  Signal Name (Specification)	Е
NSIGNWRE TO NISIGNAM	F
Connector No.   Connector No.   Connector Name   Connector Type   Connector Type   Connector Type   Connector No.   Connector No.   Connector No.   Connector Name   Connector	G H
Signal Name [Specification]	I
Signal Name [Specification	J
Terminal   Color   No.   GWIre   20   R/W   20   R/W   24   B/W   53   R/L   S/L	K
ITIONER Officiation of the Side of the Sid	MIR
C DRIVE POSITION    1842   DRIVER SEAT CONTROL UNIT   TH32FW     Signal Name   Specification	M
Connector Name   B452   Connector Name   B452   Connector Name   B422   Connector Name   B422   Connector Name   B422   Connector Name   Con	0
JCJWM1024GB	Р

Revision: 2009 September MIR-51 2010 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	me WIRE TO WIRE	53 P –[Without automatic drive positioner] 54 SR –[With automatic drive positioner]
Connector Type NS10FW-CS	Connector Type A08FW	Connector Type	De TH40FW-CS15	57
1		<b>€</b>		S C
8	\$ <del>1</del>	S	4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
39 38 7 8	351679114	_ 🖰		Connector No. D41
2 6 7	7 / 2		5515415454515445147 [551543532[31]34,29[28]27	Connector Name WIRE TO WIRE
				Connector Type TH40FW-CS15
Terminal Golor Signal Name [Specification]	Terminal Color Signal Name [Specification]	Terminal C	Color Signal Name [Specification]	<b>E</b>
2 9	╈	+		History
4 G/R -	2 SB -	2	- 5	15 14 13 12 11 10 9 8 7 6 5 4 3 2 1
>	3 b	3	d	46 45 44 43 42 41 40 39 38 37 38 26 25 24 23 22 21 20 19 18 17 16
6 R/L –	+	+		[2] SZ ISZ ISZ ISZ ISZ ISZ ISZ ISZ ISZ ISZ
	1	+		
M.,	ا م			L
8 L/K	M.		4 8	Signal Name   Specification   Name   Specification
8/1/2		+		+
30 V	Connector No D14	6 0		5 >
┨	Т	╀		$\frac{1}{1}$
	Connector Name DRIVE POSITIONER)	╀		0 ≥
Connector No. D3	Connector Type TK16FBR	╀	1	ŀ
Т	1	╀	- 9	+
Connector Name DOOK MIRROR (DRIVER SIDE)		-	-	
Connector Type TH24MW-NH		H	GR -	
ģ	1 2 3 4 5 6 7	Н	3R -	
医	10 11 12 13 14	$\dashv$	T	$\dashv$
	9 10 11 15 19 14 19	4		+
11011110087887		$\dashv$		re
ıĮ;	L	+		
[24[23[22[21]20]18[18[17]16[13]	Ja .	+		M
	re	+		0
-1-0	V 4	+	1 2	29 V 29
No of Wire Signal Name [Specification]	0 >	33	× 0	ge a
t	ł	╀		á
2 > 0	10	35		2 0
	╀	╀	1	+
SB		╀		
- E		╀	-	
BR	15 LG –	H		
22 G –		45	SB	
23 GR –		Н	R -	
		Н		
		Н	- 0	
		52	P -[With automatic drive positioner]	
		52	L -[Without automatic drive positioner]	

JCJWM1025GB

### **AUTOMATIC DRIVE POSITIONER CONTROL UNIT**

< ECU DIAGNOSIS INFORMATION >

[WITH ADP]

2010 Murano

	А
NSOR NSOR THE SOL THE	А
S.M-B S.M-B S.M-B S.M-A CAN-I	В
MWRE TO TKI 6 15 14 14 14 14 14 14 14 14 14 14 14 14 14	С
29 0.78 30 0.78 31 P P P 33 LG R 40 R V/R 42 B R V/R 48 P V R 48 P R 48 P V R 48 P R 48 P V R 48 P R 48	D
	-
	Е
Company   Comp	F
1	G
667 BR 688 V GR 71 SB 88 C GR 77 C GR	Н
Signal Name [Specification]	1
Signal Name	J
5.8	V
Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Color   Colo	K
	MIR
IGER SIDE)    Control   Co	2.4
IC DRIVE POSITION  Data  Doors MIRROR (PASSENGER SIDE)  THEAMW-NH  Signal Name [Specification]	M
MATIC DRIVE No. 1043 Name   DOOR MIRROR (P 121110 9 8 7 6 12423 22 21 20 19 11 10 15 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	N
CIT OF STATE	0
N   N   N   N   N   N   N   N   N   N	JCJWM1026GB
	Р

Connector No.	o. M11	67	~	1	H
Connector N	ame WIRE TO WIRE	99 8	+	1 1	33 P
Connector T	Т	T	+	1	8 &
q	1	-	Н	ı	
季			+	1	
H.S.	1   1   1   1   1   1   1   1   1   1	7 2	+	1 1	
			+	1	
		1	╁	ı	
	z g	7	Н	-	
		12	>- 12	1	
a		7	$\dashv$	ı	
┪		<u></u>	+	1	
7		» 	+	1	
3		···	+	1	
4		<sup>∞</sup> ]	$\dashv$	1	
5	0	_			
9					
8	- '	Conn	actor No.	M18	
11			actor Name	WIRE TO WIRE	
12	T				
13	۸ -	Conn	actor Type	TH40MW-CS15	
14	٠ -	4			
15			•		
$\dashv$		7	Ĺ,		
H	BR -	•	=	8 9 10 11 12 13 14	
22			1617181	39 20 21 22 23 24 25 26    36 37 38 39 40 41 42 43 44 45 46	
23		1	20717	Storio 154 55 55 55 55 55 55 55 55 55 55 55 55 5	
24					
62		Ļ	L		
26		era E		Signal Name [Specification]	
/7		 	+		
29		<u> </u>	+		
30			H	1	
47	-	5	_	-[With BOSE system]	
48	- 1	2		-[Without BOSE system]	
49	- M	ľ	H	ı	
20	GR -	_	5	1	
51	T	·	H	1	
52		-	H	1	
53	- ^	-	>	1	
54	SB	=	W	1	
22		-	H	1	
26	SB -	5(	Н	-	
09	- Λ	5,	57 1	1	
19	GR –		Н	ı	
62	- 0	Ž	$\dashv$	ı	
П	^	~ 	$\dashv$	1	
П	HELD	<u>~</u>	$\dashv$	ı	
┑		<u></u>	4	-	
	Connector Name   Conn	THYOPW-CS10-M33  THYOPW-CS10-M33  Signal Name  Signal Name	THYOFW-CS10-M8  THYOFW-CS10-M8  Signal Mame [Specification]	WIRE TO WIRE   68   69   71   72   73   73   74   74   74   74   74   74	THYOPW-CSSICHARS   1

JCJWM1027GB

### [WITH ADP]

: ا	-[With automatic drive positioner]
>	-[Without automatic drive positioner]
LG	-[With automatic drive positioner]
G	-[Without automatic drive positioner]
SB	-[With automatic drive positioner]
0	-[Without automatic drive positioner]

AUTOMATIC DRIVE POSITIONER

M57	CVT SHIFT SELECTOR	e TK10FW	13 7
Connector No.	Sonnector Name	Connector Type	任S.

Connector Name Connector Type	CVT SHIFT SELECTOR TK10FW
修	[
é	13 7 9
	2 4 5 6 8

	7	0 7	2 4 3		ä	oigna					
					Color	of Wire	ΓG	В	۵	В	
修					Terminal	Š.	-	4	9	7	ĺ
											ĺ

Signal Name [Specification]	1	-	-	1	-	1	-	-	-	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	_	-	1	1	1	-	-[With automatic drive positioner]	-[Without automatic drive positioner]
Color of Wire	>	ŋ	×	a	٦	>	BR	0	SB	7	ŋ	а	GR	٦	Υ	W	Υ	SB	Ь	۸	W	ď	٦	SB	W	Ь	SB	æ	ΓG	PΠ	0	γ	۵	۵	>	0	GR	œ
Terminal No.	-	2	3	4	5	9	7	8	6	10	Ξ	14	15	16	17	18	19	20	24	25	56	29	30	31	32	33	34	35	41	42	43	44	45	46	20	51	52	52

JCJWM1028GB

Α

В

С

D

Е

F

G

Н

Κ

MIR

 $\mathbb{N}$ 

Ν

0

AUTOMAT	AUTOMATIC DRIVE POSITIONER						
Connector No.	M77	44	Н	-	Н	1	Connector No. M104
Connector Name	WIRE TO WIRE	45	G 0	1	96 SB	1	Connector Name AUTOMATIC DRIVE POSITIONER CONTROL UNIT
Connector Type	TH80FW-CS19	47	╁		96 LG	1	Connector Type NS06FW-CS
ą		48	Н	1	Н	1	ó
唐		49	+				唐
H.S.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	21	N W	1 1	Connector No.	66W	H.S.
		52	H	-	2	Т	07 00 00 20
		53	H	ı	Connector Name		7/ 28/29/30
		25	$\dashv$	1	Connector Type	TH12FW-NH	
C. Indiana		55	5 0	1	4		1-0
No. of Wire	Signal Name [Specification]	ň lá	+		李		No. of Wire Signal Name [Specification]
t	1	28	- SB	1	H.S.	7	T
2 B	-	29	9 SHIELD	O		1 2 3 4 5 6	26 L BACKWARD
3 W	-	09	9 C			7 8 9 10 11 12	Ь
4 R	-	9	Н				В
$\dashv$	1	62	$\dashv$	1	ŀ		LG UPWARD
9	1	63	+	1	-a	Signal Name [Specification]	30 B GND
†	-	64	> . + .	1	No. of Wire		
ά	1	ĕ	+	1	- GR	BAI	I
+		9	+		+	CLOCK	Connector No. M115
+	-	89	7		+	DATA	Connector Name CIRCUIT BREAKER
+	-	69	SHIELD		+	ILL BAT	Т
+		0/	+	1	9	ILL	Connector Type M02FW-P-LC
+		F	+	1	7 B	GND	d
14 R		72	FG 2		11 Y	KEY SWITCH SIGNAL	生
15 SB	-	73	+	1			5
+	-	74	+	1		****	
+	1	2 5		1	Connector No.	M102	֚֚֚֚֚֚֚֚֚֚֚֚֚֚֓֞֞֜֓֓֓֓֓֓֓֓֓֓֓֓֡֓֡֓֡֓֜֓֡֓֡֓֡֓֡
8 5 T		6 5	7 6	1	Connector Name	TILT & TELESCOPIC SWITCH	7
2 6		7 0	-		Tactoreo	X 1907H	
╁		79	t		odillector lybe	INGGLGI	Terminal Color
-		8	ŀ	1	Œ		_
F	-	81	L	1			t
H	-	82	H	-	Ċ		2 W -
25 Y	-	83	$\dashv$	_		3 4 1 5 2	
+	-	83	-	-[With driver side power seat]			
28 R	1	84	$\dashv$	1			
-	-	38	$\dashv$	┪			
31 W	-	82	GR GR	-[With front heated seat without passenger side power seat]	nal	Signal Name [Specification]	
32 BR	1	98	$\dashv$	1	No. of Wire		
┪	1	87	۲ ۳	1	1 B	1	
35 SHIELD	1	88	+	1	+	-	
9g		ő	+		7	1	
3/		96	5 0		4 "		
+		6	╀		+		
42 SB		18	╀				
43		94	╀				
) )		1	$\frac{1}{2}$				

JCJWM1029GB

### **AUTOMATIC DRIVE POSITIONER CONTROL UNIT**

< ECU DIAGNOSIS INFORMATION >

[WITH ADP]

(E)	Tion I I I I I I I I I I I I I I I I I I I		А
M123 EOM (BODY CONTROL MODULE) TH40FG-NH EOM (BODY CONTROL MODULE)	Signal Name (Specification) RANI SENSOR ELISE CHECK STOP LANN SW DR DOOR UNLOOK SENSOR KEY SLOT SW FRAN BEFORGER SW POWER WINDOW SW COMM POWER WINDOW SW COMM POWER PRESS RECEIVER SIGNAL SHOUTPOUT OCNMEIS SW OUTPUT I COMEIS SW OUTPUT I COMEIS SW OUTPUT 3 COMEIS		В
	N		С
Connector No. Connector Name Connector Type H.S. EDERE	112 of forminal of		D
DL MODULE)	Cation]  FANT-  FANT-  NIT-  N		Е
CONTR(	Signal Name [Specification]  ROOM ANTZ- ROOM ANTZ- ROOM ANTZ- PASSENGER DOOR ANT- DRIVER DOOR ANT- IMMOBI ANTENNA SIGNAL COMBI SWI INPUT 3 S'LL CONDITION 1 S'LL CONDITION 1 S'LL CONDITION 2 S'LL CONDITION 1 S'LL CONDITION 1 S'LL CONDITION 1 S'LL CONDITION 1 COMBI SWI INPUT 2 HAZLARO SW S'LL COMM		F
80 80	Minder   Signary   Minder		G
Connector No. Connector Name Connector Type H.S. Elicities	Ne. no. of		Н
oule)	effection  3 SUPPLY (BAP) 3 SUPPLY (BAP) 1 SUPPLY (BAP) 1 SUPPLY (BAP) 1 SUPPLY 1 SU		I
M118 BOM (BODY CONTROL MODULE) M03/FB-LC	Name (Spe Mar (F))  Name (Spe Name (		J
Connector No. Connector Name Connector Type H.S.	Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector Type   Connector	ı	K
IONER	[cation]		MIR
NE POSITI	Signal Name (Specification)		M
AUTOMATIC DRIVE POSITIONER Connector No. MIII6 Connector Type NSOBFW-CS Connector Type NSOBFW-CS  ARS  E	MI177		N
AUTOMA Connector No Connector Type	Terminal   Color		0
		JCJWM1030GB	Р

Revision: 2009 September MIR-57 2010 Murano

AUTOMATIC	AUTOMATIC DRIVE POSITIONER Connector No. 1M125	r.	SHIFLD	QHIEI D	Connector No	M145	R 69	BOB (G-GREEN) SIGNAL	Г
Ī	24	56	2 2	COMM		Т	+	RGR (B-BLIF) SIGNAL	T
Connector Name M	MULTIFUNCTION SWITCH	57	: 02	NP NP	Connector Name	me AV CONTROL UNIT (WITH NAVIGATION SYSTEM)	Ϋ́	SHIELD	T
Connector Type TI	TH16FW-NH	58	HB	INVERTER GND	Connector Type	pe TH40FW-NH	T	RGB SYNC	Γ
		59	>	INVERTER VCC	þ		99 SHIELD	SHIELD	П
					厚		+	RGB AREA (YS) SIGNAL	T
S ±	<u>/</u>		,		S H		+	HP.	Т
_	1 .	Connector No.	or No.	M131	_ =	7	+	VP	T
·4 `	1 Q	Connector Name	or Name	AV CONTROL UNIT (VITH BOSE SYSTEM WITHOUT NAVIGATION SYSTEM)	21 2	24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 56 60 50 52 52 57 29 31 33 36 37 39 41 43 45 47 49 51 53 55 55 55 59	2 S	COMM (CONT->DISP)	Т
	3 5 7 9 11 13 15	Connector Type	or Type	TH32FW-NH			동	SHIELD	П
Terminal Color		4			Terminal	Color			
	Signal Name [Specification]	) <u> </u>			_	of Wire Signal Name [Specification]			
В	GND	115		7	21	B GND			
œ	AGC		91	85 84 83 82 81 80 79 78 77	H	/8			
œ	JLT.		107 106	107106[105]104[103]102[101[100]39[38[97]36[35]34[33]32]	$\dashv$	B GND			
SB	ILL CONT				$\dashv$	B)			
α	AV COMM (H)				22	R ACC			
٦	AV COMM (L)	Terminal	_	Signal Name [Specification]	26	B MICROPHONE VCC			
>	SW GND	Š.	of Wire		7	TD OT			
Μ	EJECT SIGNAL	79	_	TEL VOICE SIGNAL (-)	$\dashv$	W MICROPHONE SIGNAL			
		80	2	TEL VO	+				
۱		8 8	SHELD ::	4	+	Ž.			
Т	M129	82	≤ ≥	SOUND SIGNAL RH (-)[With DVD player]	3/	SB REVERSE  V VEHICLE SDEED (8-DILL SE)			
Connector Name	AV CONTROL DAIL (WITH BOSE STSTEM WITHOUT NAVIGATION SYSTEM)	20 00		Language Stories of (+) Matter DVO Science Colors	╀				
Connector Type TI	TH24FW-NH	83	: 02	iPod SOUND SIGNAL RH (+)[Without DVD player]	╀				
1		82	В	GND	L				
		86	_	CAN-H	-				
ě	[	87	Ь	CAN-L	49	L AV COMM (L)			
Ľ		88	œ	AV COMM (H)	_	R AV COMM (H)			
4/40	46 45 44 43 42 41 40 39 38 37 36	89	-	AV COMM (L)	51	L AV COMM (L)			
29 28 6	59 58 57 56 55 54 53 52 51 50 49 48	06	g	AV COMM (H)	52	L CAN-H			
		91	_	AV COMM (L)	53	P CAN-L			
		95	œ	AUX SOUND SIGNAL RH (+)					
Terminal Color	Signal Name [Specification]	96	В	AUX SOUND SIGNAL LH (+)					
ot Wire		97	>	AUX SOUND SIGNAL GND	Connector No.	. M146			
	COMPOSITE IMAGE SIGNAL	88	g .	SOUND SIGNAL LH (-)[With DVD player]	Connector Name	me AV CONTROL UNIT (WITH NAVIGATION SYSTEM)			
1 >	COMPOSITE IMAGE GND	88	١,	SOUND SIGNAL LH (=)[without DVD player]	Connector Type	TU135W-NIU	_		
-	RGB (G:GREEN) SIGNAL	66	- E	iPod SOLIND SIGNAL LH (+)[Without DVD player]		1	7		
J (5)	RGB (R:RED) SIGNAL	100	SHELD	-	Œ				
9 80	RGB SYNC	100	SHELD	ľ					
SHIELD	SHELD	101	>		Š	ŀ			
*	RGB AREA (YS) SIGNAL	103	*	EJECT SIGNAL		62 64 66 68 70 72			
ŋ	COMM (DISP->CONT)	104	g	IGNITION		61 63 65 67 69 71			
9	HP	105	SB	REVERSE		$\ $			
LG	SIGNAL GND	106	g	PARKING BRAKE					
0	SIGNAL VCC	107	>	VEHICLE SPEED (8-PULSE)	la	Color Signal Name [Specification]			
SHIELD	SHIELD				┪	e.			
SHIELD	SHIELD				- 61	G RGB (R:RED) SIGNAL			

JCJWM1031GB

### DOOR MIRROR DOES NOT OPERATE

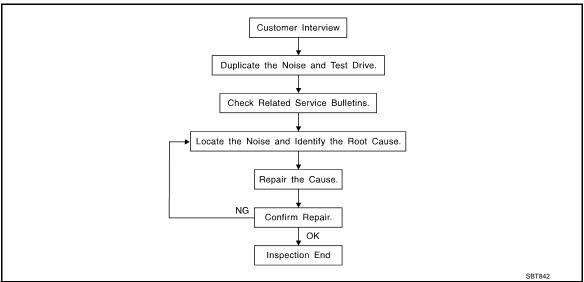
[WITH ADP] < SYMPTOM DIAGNOSIS > SYMPTOM DIAGNOSIS Α DOOR MIRROR DOES NOT OPERATE Diagnosis Procedure INFOID:0000000005513417  ${f 1}$  .CHECK AUTOMATIC DRIVE POSITIONER SYSTEM Check door mirror operate with automatic drive positioner system. Is the inspection result normal? YES >> GO TO 2. NO >> Check automatic drive positioner system operation. Refer to ADP-14, "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-39, "Intermittent Incident" NO >> GO TO 1. K MIR

Ν

[WITH ADP]

### SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow



### **CUSTOMER INTERVIEW**

Interview the customer if possible, to determine the conditions that exist when the noise occurs. Use the Diagnostic Worksheet during the interview to document the facts and conditions when the noise occurs and any of customer's comments; refer to <a href="MIR-64">MIR-64</a>, "Diagnostic Worksheet". This information is necessary to duplicate the conditions that exist when the noise occurs.

- The customer may not be able to provide a detailed description or the location of the noise. Attempt to obtain all the facts and conditions that exist when the noise occurs (or does not occur).
- If there is more than one noise in the vehicle, perform a diagnosis and repair the noise that the customer is concerned about. This can be accomplished by performing a cruise test on the vehicle with the customer.
- After identifying the type of noise, isolate the noise in terms of its characteristics. The noise characteristics
  are provided so the customer, service adviser and technician are all speaking the same language when
  defining the noise.
- Squeak (Like tennis shoes on a clean floor)
   Squeak characteristics include the light contact/fast movement/brought on by road conditions/hard surfaces
   higher pitch noise/softer surfaces = lower pitch noises/edge to surface = chirping
- Creak (Like walking on an old wooden floor)
   Creak characteristics include firm contact/slow movement/twisting with a rotational movement/pitch dependent on materials/often brought on by activity.
- Rattle (Like shaking a baby rattle)
   Rattle characteristics include the fast repeated contact/vibration or similar movement/loose parts/missing clip or fastener/incorrect clearance.
- Knock (Like a knock on a door)
  - Knock characteristics include hollow sounding/sometimes repeating/often brought on by driver action.
- Tick (Like a clock second hand)
   Tick characteristics include gentle contacting of light materials/loose components/can be caused by driver action or road conditions.
- Thump (Heavy, muffled knock noise)
   Thump characteristics include softer knock/dead sound often brought on by activity.
- Buzz (Like a bumblebee)
   Buzz characteristics include high frequency rattle/firm contact.
- Often the degree of acceptable noise level will vary depending up on the person. A noise that 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:  $100 \times 135$  mm  $(3.94 \times 5.31 \text{ in})/76884-71L01$ :  $60 \times 85$  mm  $(2.36 \times 3.35 \text{ in})/76884-71L01$ 

71L02:15  $\times$  25 mm (0.59  $\times$  0.98 in)

INSULATOR (Foam blocks)

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

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

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

INSULATOR (Light foam block)

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

FELT CLOTHTAPE

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

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

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

**UHMW (TEFLON) TAPE** 

MIR

K

Α

В

D

Е

N

Р

2010 Murano

#### < SYMPTOM DIAGNOSIS >

[WITH ADP]

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:0000000005513419

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

#### **INSTRUMENT PANEL**

Most incidents are caused by contact and movement between:

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

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

#### **CAUTION:**

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:

- 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
- 3. Wiring harnesses tapping
- 4. Door striker out of alignment causing a popping noise on starts and stops

Tapping or moving the components or pressing on them while driving to duplicate the conditions can isolate many of these incidents. 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:

- 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 >

[WITH ADP]

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.

Α

В

D

Е

F

Н

MIR

N

[WITH ADP]

Diagnostic Worksheet

INFOID:0000000005513420



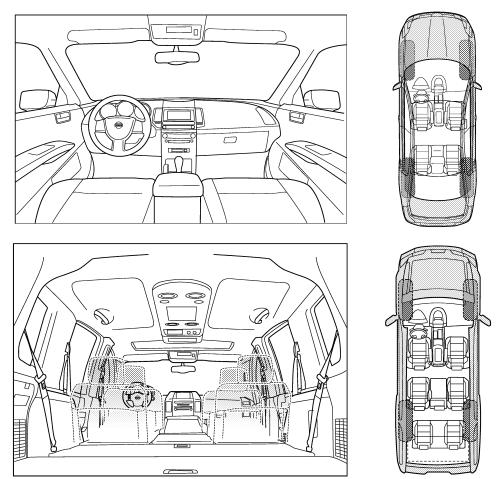
## SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

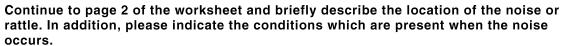
#### Dear Nissan Customer:

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 configurations.

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





PIIB8740E

[WITH ADP]

	noise occurs:	
I. WHEN DOES IT OCCUR? (please	check the boxes that apply)	
☐ anytime	after sitting out in the rain	
☐ 1st time in the morning	when it is raining or wet	
only when it is cold outside	dry or dusty conditions	
only when it is hot outside	other:	
III. WHEN DRIVING:	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	thump (heavy, muffled knock noise)	
on turns: left, right or either (circle)	☐ buzz (like a bumble bee)	
with passengers or cargo     other:		
□ other: miles or	— minutos	
i i aneronvino - miles or	minules	
	minutes	
-		
TO BE COMPLETED BY DEALERSH		
TO BE COMPLETED BY DEALERSH		
TO BE COMPLETED BY DEALERSH		
TO BE COMPLETED BY DEALERSH		
TO BE COMPLETED BY DEALERSH Test Drive Notes:	HIP PERSONNEL  YES NO Initials of person	
TO BE COMPLETED BY DEALERSH Test Drive Notes:	HIP PERSONNEL  YES NO Initials of person	
TO BE COMPLETED BY DEALERSH Test Drive Notes:  Vehicle test driven with customer - Noise verified on test drive	HIP PERSONNEL  YES NO Initials of person	
TO BE COMPLETED BY DEALERSH Test Drive Notes:  Vehicle test driven with customer	YES NO Initials of person performing	
TO BE COMPLETED BY DEALERSH Test Drive Notes:  Vehicle test driven with customer - Noise verified on test drive - Noise source located and repaired	YES NO Initials of person performing	
TO BE COMPLETED BY DEALERSH Test Drive Notes:  Vehicle test driven with customer - Noise verified on test drive - Noise source located and repaired - Follow up test drive performed to cor	YES NO Initials of person performing	
TO BE COMPLETED BY DEALERSH Test Drive Notes:  Vehicle test driven with customer - Noise verified on test drive - Noise source located and repaired - Follow up test drive performed to cor  VIN:	YES NO Initials of person performing	
TO BE COMPLETED BY DEALERSH Test Drive Notes:  Vehicle test driven with customer - Noise verified on test drive - Noise source located and repaired - Follow up test drive performed to cor  VIN:	YES NO Initials of person performing	

< 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:**

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

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

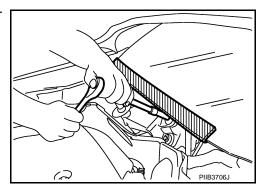
#### **WARNING:**

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

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

INFOID:0000000005716192

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



FOR USA AND CANADA: Precaution Necessary for Steering Wheel Rotation after Battery Disconnect

#### NOTE:

- Before removing and installing any control units, first turn the push-button ignition switch to the LOCK position, then disconnect both battery cables.
- After finishing work, confirm that all control unit connectors are connected properly, then re-connect both battery cables.
- Always use CONSULT-III to perform self-diagnosis as a part of each function inspection after finishing work.
   If a DTC is detected, perform trouble diagnosis according to self-diagnosis results.

**PRECAUTIONS** [WITH ADP] < PRECAUTION > For vehicle with steering lock unit, if the battery is disconnected or discharged, the steering wheel will lock and cannot be turned. Α If turning the steering wheel is required with the battery disconnected or discharged, follow the operation procedure below before starting the repair operation. OPERATION PROCEDURE В Connect both battery cables. NOTE: Supply power using jumper cables if battery is discharged. 2. Turn the push-button ignition switch to ACC position. (At this time, the steering lock will be released.) Disconnect both battery cables. The steering lock will remain released with both battery cables discon-D nected and the steering wheel can be turned. Perform the necessary repair operation. 5. When the repair work is completed, re-connect both battery cables. With the brake pedal released, turn Е the push-button ignition switch from ACC position to ON position, then to LOCK position. (The steering wheel will lock when the push-button ignition switch is turned to LOCK position.) Perform self-diagnosis check of all control units using CONSULT-III. F FOR USA AND CANADA: Precaution for Work INFOID:0000000005513424 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 Н FOR MEXICO: Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER" INFOID:0000000005716194 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. To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer. Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the "SRS AIR BAG". Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this M Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors. PRECAUTIONS WHEN USING POWER TOOLS (AIR OR ELECTRIC) AND HAMMERS WARNING:

 When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.

When using air or electric power tools or hammers, always switch the ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.

**MIR-67** Revision: 2009 September 2010 Murano

MIR

Ν

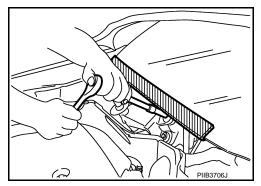
### **PRECAUTIONS**

< PRECAUTION > [WITH ADP]

### FOR MEXICO: Precaution for Procedure without Cowl Top Cover

INFOID:0000000005716195

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



# FOR MEXICO: Precaution Necessary for Steering Wheel Rotation after Battery Disconnect

#### NOTE:

- Before removing and installing any control units, first turn the push-button ignition switch to the LOCK position, then disconnect both battery cables.
- After finishing work, confirm that all control unit connectors are connected properly, then re-connect both battery cables.
- Always use CONSULT-III to perform self-diagnosis as a part of each function inspection after finishing work.
   If a DTC is detected, perform trouble diagnosis according to self-diagnosis results.

For vehicle with steering lock unit, if the battery is disconnected or discharged, the steering wheel will lock and cannot be turned.

If turning the steering wheel is required with the battery disconnected or discharged, follow the operation procedure below before starting the repair operation.

#### **OPERATION PROCEDURE**

Connect both battery cables.

### NOTE:

Supply power using jumper cables if battery is discharged.

- Turn the push-button ignition switch to ACC position. (At this time, the steering lock will be released.)
- Disconnect both battery cables. The steering lock will remain released with both battery cables disconnected and the steering wheel can be turned.
- 4. Perform the necessary repair operation.
- 5. When the repair work is completed, re-connect both battery cables. With the brake pedal released, turn the push-button ignition switch from ACC position to ON position, then to LOCK position. (The steering wheel will lock when the push-button ignition switch is turned to LOCK position.)
- 6. Perform self-diagnosis check of all control units using CONSULT-III.

### FOR MEXICO: Precaution for Work

INFOID:000000005716200

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

### **PREPARATION**

< PREPARATION > [WITH ADP]

Α

В

С

D

Е

Н

INFOID:0000000005513425

INFOID:0000000005513426

### **PREPARATION**

### **PREPARATION**

**Special Service Tools** 

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

(Ken	ol number t-Moore No.) ool name	Description
(J-39570) Chassis ear	SIIAO993E	Locates the noise
(J-43980) NISSAN Squeak and Rat- tle Kit	SIIA0994E	Repairs the cause of noise

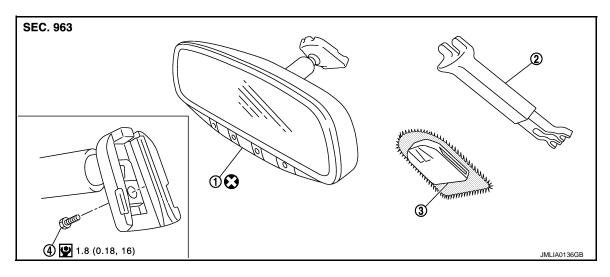
### **Commercial Service Tools**

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

## REMOVAL AND INSTALLATION

### **INSIDE MIRROR**

Exploded View



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

4. TORX bolt

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

### Removal and Installation

INFOID:0000000005513428

#### **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.

[WITH ADP]

### **OUTSIDE MIRROR**

DOOR MIRROR ASSEMBLY

DOOR MIRROR ASSEMBLY: Exploded View

INFOID:0000000005513429

Α

В

C

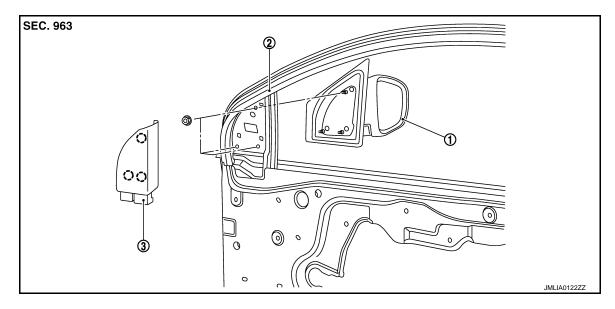
D

Е

F

G

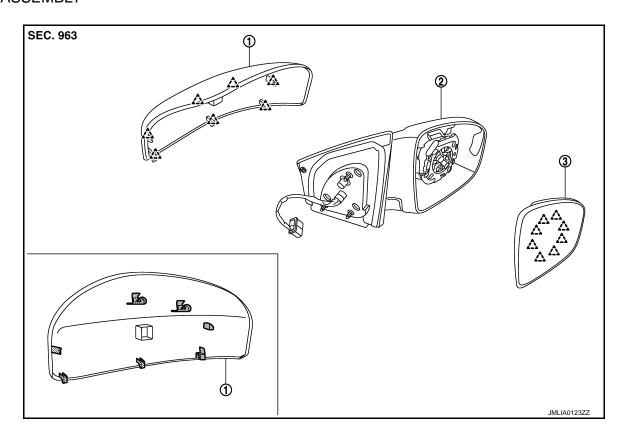
### **REMOVAL**



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

( ) : Clip

### **DISASSEMBLY**



**MIR-71** 

Revision: 2009 September

2010 Murano

Н

K

MIR

M

Ν

0

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

: Pawl

### DOOR MIRROR ASSEMBLY: Removal and Installation

INFOID:0000000005513430

INFOID:0000000005513431

#### **CAUTION:**

Never damage the mirror bodies.

### **REMOVAL**

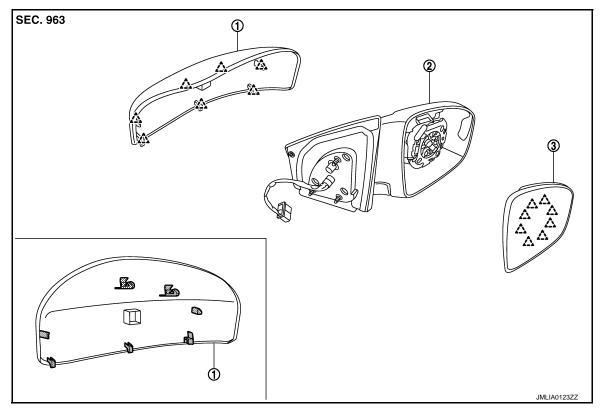
- 1. Remove the front door finisher. Refer to INT-12, "FRONT DOOR FINISHER: Removal and Installation".
- 2. Remove the door mirror corner cover.
- 3. Disconnect the door mirror harness connector.
- Remove the door mirror mounting nuts, and remove the door mirror assembly.

### **INSTALLATION**

Install in the reverse order of removal.

### **GLASS MIRROR**

### **GLASS MIRROR: Exploded View**



1. Door mirror cover

2. Door mirror assembly

3. Glass mirror

∠^`\_ : Pawl

### GLASS MIRROR: Disassembly and Assembly

INFOID:0000000005513432

#### **CAUTION:**

Never damage the mirror bodies.

DISASSEMBLY

# **OUTSIDE MIRROR**

# < REMOVAL AND INSTALLATION >

[WITH ADP]

Α

В

D

Е

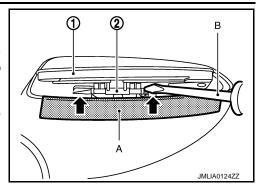
F

Н

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

#### NOTE:

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

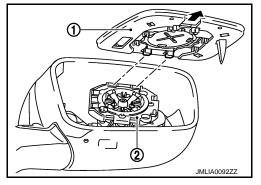


4. Insert flat-bladed screwdriver at RH/LH side between glass mirror and actuator, and push up pawls to remove glass mirror RH/LH side.

#### NOTE:

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

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



# **ASSEMBLY**

Install in the reverse order of removal.

#### **CAUTION:**

After installation, visually check that pawls are securely engaged.

DOOR MIRROR COVER

MIR

K

M

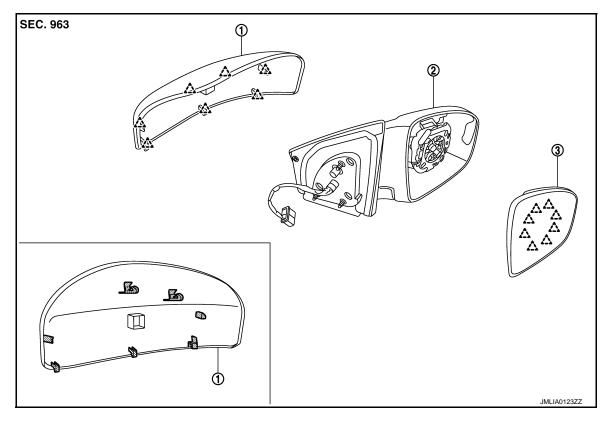
Ν

C

# DOOR MIRROR COVER: Exploded View

INFOID:0000000005513433

INFOID:0000000005513434



1. Door mirror cover

2. Door mirror assembly

3. Glass mirror



# DOOR MIRROR COVER: Disassembly and Assembly

#### **CAUTION:**

Never damage the mirror bodies.

# **DISASSEMBLY**

- Remove the glass mirror. Refer to MIR-72, "GLASS MIRROR: Disassembly and Assembly".
- 2. Remove the pawls, and disassemble the door mirror cover from the mirror assembly.

## **ASSEMBLY**

Install in the reverse order of removal.

#### NOTE:

After installation, visually check that pawls are securely engaged.

# DOOR MIRROR REMOTE CONTROL SWITCH

< REMOVAL AND INSTALLATION >

[WITH ADP]

# DOOR MIRROR REMOTE CONTROL SWITCH

Exploded View

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

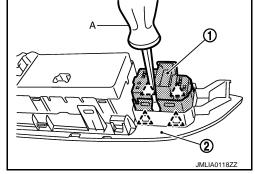
# Removal and Installation

#### INFOID:0000000005513436

# **REMOVAL**

- Remove the power window main switch finisher (2). Refer to PWC-119, "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.

Н

Α

В

D

Е

|

K

MIR

M

Ν

0

# SYSTEM DESCRIPTION

# DOOR MIRROR SYSTEM

# **Component Description**

INFOID:0000000005513437

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

# **INSIDE MIRROR SYSTEM**

< SYSTEM DESCRIPTION >

[WITHOUT ADP]

# **INSIDE MIRROR SYSTEM**

# System Description

INFOID:0000000005513438

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:0000000005513439

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.

Е

D

Α

F

G

Н

-

J

Κ

# MIR

M

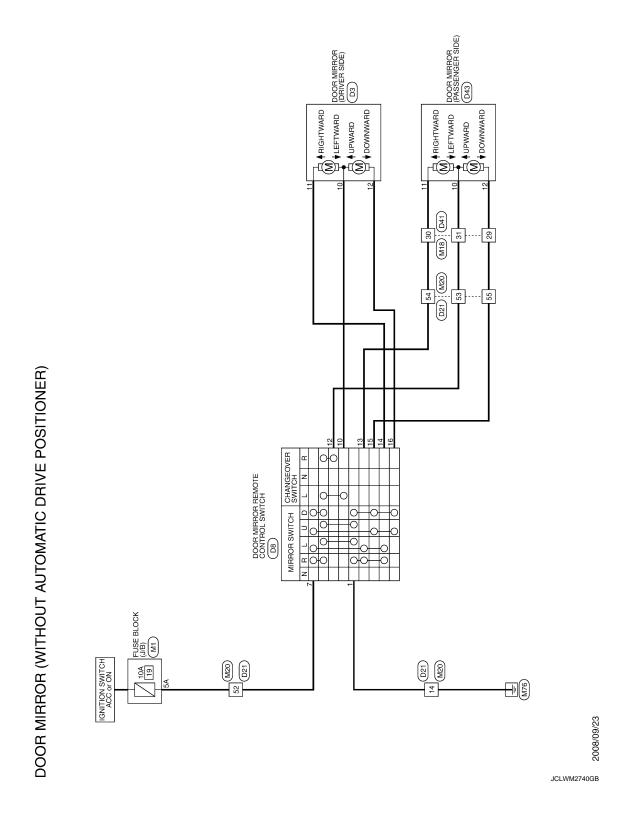
Ν

0

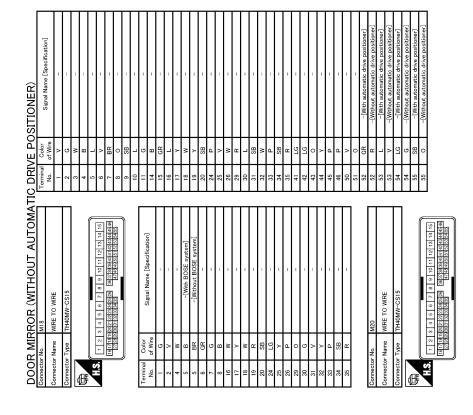
# DTC/CIRCUIT DIAGNOSIS

# **DOOR MIRROR**

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



				4 13	<u> </u>	- P					T			Γ		T	]							-				T																A	4
	DOOR MIRROR (PASSENGER SIDE)			7 6 5 4 3 2 1 19 18 17 16 15 14 13		Signal Name [Specification]	1 1	1	1 1	1	1 1	-			K (1/B)				V 1 V 0	7/6/6/4/	द्रा।			Signal Name [Specification]	-	-	1	1	1	1	1													E	3
D43		rpe TH24MW-NH		12 11 10 9 8 7 6 5 24 23 22 21 20 19 18 17		. ψ	LG RB	SB :	> @	BR	5 g	<u> </u>		MI		Т	7		₹	5 6	RA RA			of Wire	<b>*</b>	9	> 5	¥ 0	£ 8	. g	>													(	0
Connector No	Connector Name	Connector Type	售		-	Terminal C No. of	7	Н	19	Н	22	+		Connector No.	Connector Name	Connector		修	H.S.				Terminal		Υ	2A	+	+	+	A/	8A													[	)
positioner	ve positioner]	ve positioner]	ve positioner]				6 5 4 3 2 1	212019181716	( I all ad colored in the colored in		ification]																																	E	
	-[Without automatic drive positioner] -[With automatic drive positioner]	Ithout automatic dri	-[Without automatic drive positioner]	WIRE	-CS15		10 9 8 7 6 5	46454443424140382833738 262524222212019191716			Signal Name [Specification]	1	1		1	1 1	1 1	1	1 1	ı	ı	ı	1 1	1	1	1	ı	ı																F	=
-	₩	T -[W	Н	or No. D41			15 14 13 12 11 10 9 8 7	46 45 44 43 42 41 40 36	subolicatolicatori		Color of Wire	g	> 1	n 3	۵.	0 0	a 5	>	an de	re E	PT	× (	0 >	SB	BR	œ	g ;	<b>-</b> -																(	3
55	53	54	22	Connector No.	Connector Name	E	HS				Terminal No.	-	2	4 10	9	۷ م	91	17	<u>8</u> 2	20	24	22	26	8	31	32	33	34 ac	3															ŀ	-
				15 14 13 12 11 10 9 8 7 6 5 4 3 2 11 48454448424241443993333		Signal Name [Specification]	- 1	-	-	1	1 1	_	-	-	1			1	1 1	-	-	1		1	=	-	-				1	_	-	E 00 00 00	-[with automatic drive positioner] -[Without automatic drive positioner]										l
DOOR MIRROR (WITHOUT AUTOMATIC DRIVE POSITIONER)  Connector No. 103  Connector No. 103	WIRE TO WIRE	TH40FW-CS15		15 14 13 12 11 10 9 8 7 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6		Signal Nam																												-	-[Without automa									,	J
IVE PO	Connector Name	Connector Type	L.			ه ک	> 0	3 a i	æ ≥	SB	۵ g	GR	> (	0 00	PI	ت »	- 85	H	<u> </u>	. >	Μ	> 8	88 B	<u></u>	9	>	_ (	- E	<u> </u>	3	SB	œ	>	0 (	1 -									ŀ	<
TICDR	Connec	Connec	修			Terminal No.	- 0	1 E	4 10	9	r «	6	10	= 4	15	16	- 82	19	20	25	26	59	30	32	33	34	99	4 5	43	4	45	46	20	51	97 25								1		
UTOMA				2 1	]	ion]									HOUT				IL.	<u> </u>	<u></u>			[uoi																				M	IR
HOUT A	(SIVER SIDE)		7	5 4 3 3 17 16 15		Signal Name [Specification]	1 1			1	1 1	1			TROL SWITCH (WIT	New Oran				0 7	13 14 15			Signal Name [Specification]	1	1			ŀ		,		,												VI
ROR (WITH	DOOR MIRROR (DRIVER SIDE)	TH24MW-NH		1211110 9 8 7 6 5 4 3 2 2 24 23 22 21 20 19 18 17 16 15 14		Signal Nar								D8	DOOR MIRROR REMOTE CONTROL SWITCH (MITHOUT	AUTOMATIC DRIVE POSITIO	INIOPW				9 10 11 12			Signal Nar																				1	1
OR MIR	Connector Name	ector Type	E E		-	0	S >	Н	B SB	Н	5 g	+		Connector No.	9	т	accol Lybe	_	ķ	-1c	<u> </u>			of Wire		_	>	,	۵ ۵	╀	┝	0 9	Н											(	)
	Conn	Conn	Œ			Terminal No.	7		<u> </u>	2	22	2.2		Conn	Good	i i	3	侈	7				T	No.		-	ω (	s 5	<u> </u>	13	ľ	Ĩ				J	ICLV	VM4	1141	IGB					_
																																												F	)



JCLWM4142GB

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

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT ADP]

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

Wiring Diagram - INSIDE MIRROR SYSTEM -

INFOID:0000000005513441

Α

В

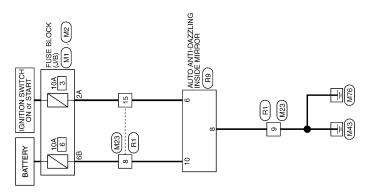
C

D

Е

F

Н



J

MIR

K

M

Ν

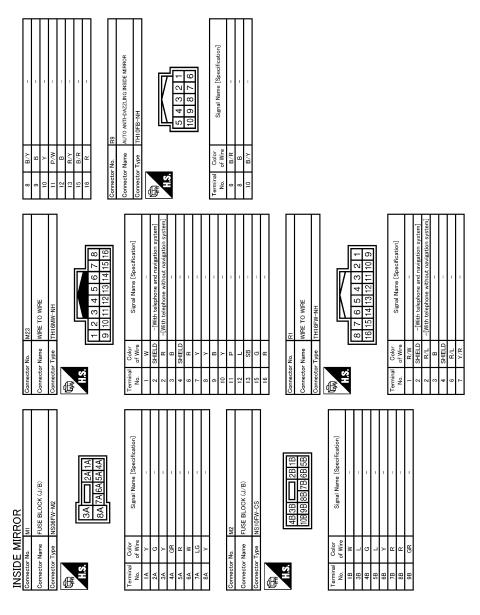
0

Р

JCLWM2742GB

2008/09/23

INSIDE MIRROR



JCLWM4143GB

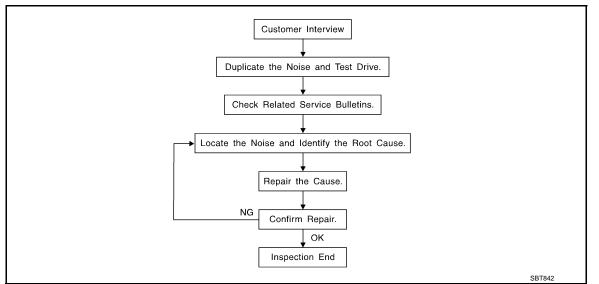
[WITHOUT ADP]

Α

# SYMPTOM DIAGNOSIS

# SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow INFOID:0000000005513442



# **CUSTOMER INTERVIEW**

Interview the customer if possible, to determine the conditions that exist when the noise occurs. Use the Diagnostic Worksheet during the interview to document the facts and conditions when the noise occurs and any of customer's comments; refer to <a href="MIR-87">MIR-87</a>, "Diagnostic Worksheet". This information is necessary to duplicate the conditions that exist when the noise occurs.

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

   Buzz (Like a bumblebee)
- Buzz characteristics include high frequency rattle/firm contact.
  Often the degree of acceptable noise level will vary depending up on the person. A noise that you may judge as acceptable may be very irritating to the customer.
- Weather conditions, especially humidity and temperature, may have a great effect on noise level.

#### DUPLICATE THE NOISE AND TEST DRIVE

MIR

. . .

N

0

## < SYMPTOM DIAGNOSIS >

[WITHOUT ADP]

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

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

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

#### CHECK RELATED SERVICE BULLETINS

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

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

## LOCATE THE NOISE AND IDENTIFY THE ROOT CAUSE

- 1. Narrow down the noise to a general area. To help pinpoint the source of the noise, use a listening tool (Chassis Ear: J-39570, Engine Ear and mechanics stethoscope).
- 2. Narrow down the noise to a more specific area and identify the cause of the noise by:
- Removing the components in the area that you suspect the noise is coming from.
   Do not use too much force when removing clips and fasteners, otherwise clips and fastener can be broken
  - or lost during the repair, resulting in the creation of new noise.
- Tapping or pushing/pulling the component that you suspect is causing the noise.
   Do not tap or push/pull the component with excessive force, otherwise the noise will be eliminated only temporarily.
- Feeling for a vibration with your hand by touching the component(s) that you suspect is (are) causing the noise.
- Placing a piece of paper between components that you suspect are causing the noise.
- Looking for loose components and contact marks. Refer to MIR-85, "Inspection Procedure".

#### REPAIR THE CAUSE

- If the cause is a loose component, tighten the component securely.
- If the cause is insufficient clearance between components:
- Separate components by repositioning or loosening and retightening the component, if possible.
- Insulate components with a suitable insulator such as urethane pads, foam blocks, felt cloth tape or urethane tape. A Nissan Squeak and Rattle Kit (J-43980) is available through your authorized Nissan Parts Department.

# **CAUTION:**

# Do not use excessive force as many components are constructed of plastic and may be damaged. NOTE:

Always check with the Parts Department for the latest parts information.

The following materials are contained in the Nissan Squeak and Rattle Kit (J-43980). Each item can be ordered separately as needed.

URETHANE PADS [1.5 mm (0.059 in) thick]

Insulates connectors, harness, etc.

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

INSULATOR (Foam blocks)

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

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

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

INSULATOR (Light foam block)

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

FELT CLOTHTAPE

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

< SYMPTOM DIAGNOSIS > [WITHOUT ADP]	
68370-4B000: 15 $\times$ 25 mm (0.59 $\times$ 0.98 in) pad/68239-13E00: 5 mm (0.20 in) wide tape roll The following materials, not found in the kit, can also be used to repair squeaks and rattles. UHMW (TEFLON) TAPE Insulates where slight movement is present. Ideal for instrument panel applications.	А
SILICONE GREASE Used in place of UHMW tape that will be visible or not fit. Will only last a few months. SILICONE SPRAY	В
Use when grease cannot be applied. DUCT TAPE Use to eliminate movement.	С
CONFIRM THE REPAIR  Confirm that the cause of a noise is repaired by test driving the vehicle. Operate the vehicle under the same conditions as when the noise originally occurred. Refer to the notes on the Diagnostic Worksheet.	, D
Inspection Procedure	3 —
	E
Refer to Table of Contents for specific component removal and installationinformation.	
INSTRUMENT PANEL	F
Most incidents are caused by contact and movement between:	
<ol> <li>The cluster lid A and instrument panel</li> <li>Acrylic lens and combination meter housing</li> </ol>	
<ol> <li>Acrylic lens and combination meter housing</li> <li>Instrument panel to front pillar garnish</li> </ol>	G
Instrument panel to windshield	
5. Instrument panel mounting pins	Н
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.	/ e
CAUTION:	J
Do not use silicone spray to isolate a squeak or rattle. If you saturatethe area with silicone, you	l
will not be able to recheck the repair.	K
CENTER CONSOLE	
Components to pay attention to include:	
1. Shifter assembly cover to finisher	MIF
2. A/C control unit and cluster lid C	
3. Wiring harnesses behind audio and A/C control unit	M
The instrument panel repair and isolation procedures also apply to thecenter console.	IVI
DOORS	
Pay attention to the:	Ν
<ol> <li>Finisher and inner panel making a slapping noise</li> <li>Inside handle escutcheon to door finisher</li> </ol>	
Wiring harnesses tapping	
<ol> <li>Willing Harriesses tapping</li> <li>Door striker out of alignment causing a popping noise on startsand stops</li> </ol>	0
Tapping or moving the components or pressing on them while driving to duplicate the conditions can isolate many of these incidents. You can usually insulate the areas with felt cloth tape or insulator foam blocks from the Nissan Squeak and Rattle Kit (J-43980) to repair the noise.	
TRUNK	

Trunk noises are often caused by a loose jack or loose items put into the trunk by the owner. In addition look for:

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

**MIR-85** Revision: 2009 September 2010 Murano

[WITHOUT ADP]

#### SQUEAK AND KATTLE TROUBLE DIAGNOSES

- The trunk lid torsion bars knocking together
- A loose license plate or bracket

< SYMPTOM DIAGNOSIS >

Most of these incidents can be repaired by adjusting, securing or insulating the item(s) or component(s) causing the noise.

#### SUNROOF/HEADLINING

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

- Sunroof lid, rail, linkage or seals making a rattle or light knockingnoise
- 2. Sunvisor shaft shaking in the holder
- 3. Front or rear windshield touching headlining and squeaking

Again, pressing on the components to stop the noise while duplicating the conditions can isolate most of these incidents. Repairs usually consist insulating with felt cloth tape.

## **SEATS**

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

Cause of seat noise include:

- 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:

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

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

**Diagnostic Worksheet** 

INFOID:0000000005513444

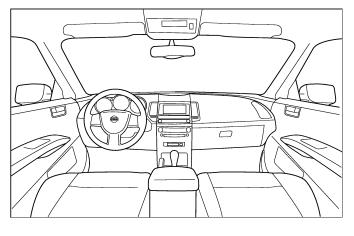


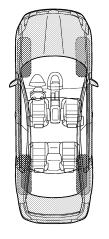
# SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

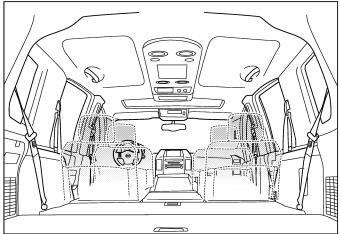
#### Dear Nissan Customer:

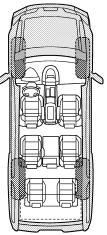
We are concerned about your satisfaction with your Nissan vehicle. Repairing a squeak or rattle sometimes can be very difficult. To help us fix your Nissan right the first time, please take a moment to note the area of the vehicle where the squeak or rattle occurs and under what conditions. You may be 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.

PIIB8740E

В

Α

C

D

Е

F

G

Н

J

K

MIR

M

Ν

0

[WITHOUT ADP]

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

This form must be attached to Work Order

PIIB8742E

< PRECAUTION > [WITHOUT ADP]

# **PRECAUTION**

# PRECAUTIONS FOR USA AND CANADA

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

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

#### **WARNING:**

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

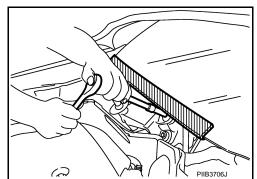
PRECAUTIONS WHEN USING POWER TOOLS (AIR OR ELECTRIC) AND HAMMERS

#### **WARNING:**

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

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

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



FOR USA AND CANADA: Precaution Necessary for Steering Wheel Rotation after Battery Disconnect

#### NOTE:

- Before removing and installing any control units, first turn the push-button ignition switch to the LOCK position, then disconnect both battery cables.
- After finishing work, confirm that all control unit connectors are connected properly, then re-connect both battery cables.
- Always use CONSULT-III to perform self-diagnosis as a part of each function inspection after finishing work.
   If a DTC is detected, perform trouble diagnosis according to self-diagnosis results.

Н

Α

D

Е

J

K

INFOID:0000000005716204

MIR

M

Ν

0

# **PRECAUTIONS**

< PRECAUTION > [WITHOUT ADP]

For vehicle with steering lock unit, if the battery is disconnected or discharged, the steering wheel will lock and cannot be turned.

If turning the steering wheel is required with the battery disconnected or discharged, follow the operation procedure below before starting the repair operation.

#### OPERATION PROCEDURE

1. Connect both battery cables.

#### NOTE:

Supply power using jumper cables if battery is discharged.

- 2. Turn the push-button ignition switch to ACC position. (At this time, the steering lock will be released.)
- 3. Disconnect both battery cables. The steering lock will remain released with both battery cables disconnected and the steering wheel can be turned.
- 4. Perform the necessary repair operation.
- 5. When the repair work is completed, re-connect both battery cables. With the brake pedal released, turn the push-button ignition switch from ACC position to ON position, then to LOCK position. (The steering wheel will lock when the push-button ignition switch is turned to LOCK position.)
- 6. Perform self-diagnosis check of all control units using CONSULT-III.

# FOR USA AND CANADA: Precaution for Work

INFOID:0000000005716206

- 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 "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:**

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

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

#### **WARNING:**

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

# **PRECAUTIONS**

< PRECAUTION > [WITHOUT ADP]

# FOR MEXICO: Precaution for Procedure without Cowl Top Cover

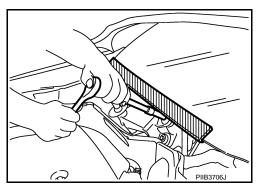
INFOID:0000000005716208

Α

D

Н

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



# FOR MEXICO: Precaution Necessary for Steering Wheel Rotation after Battery Disconnect

#### NOTE:

- Before removing and installing any control units, first turn the push-button ignition switch to the LOCK position, then disconnect both battery cables.
- After finishing work, confirm that all control unit connectors are connected properly, then re-connect both battery cables.
- Always use CONSULT-III to perform self-diagnosis as a part of each function inspection after finishing work.
   If a DTC is detected, perform trouble diagnosis according to self-diagnosis results.

For vehicle with steering lock unit, if the battery is disconnected or discharged, the steering wheel will lock and cannot be turned.

If turning the steering wheel is required with the battery disconnected or discharged, follow the operation procedure below before starting the repair operation.

#### **OPERATION PROCEDURE**

Connect both battery cables.

#### NOTE:

Supply power using jumper cables if battery is discharged.

- 2. Turn the push-button ignition switch to ACC position. (At this time, the steering lock will be released.)
- 3. Disconnect both battery cables. The steering lock will remain released with both battery cables disconnected and the steering wheel can be turned.
- 4. Perform the necessary repair operation.
- 5. When the repair work is completed, re-connect both battery cables. With the brake pedal released, turn the push-button ignition switch from ACC position to ON position, then to LOCK position. (The steering wheel will lock when the push-button ignition switch is turned to LOCK position.)
- 6. Perform self-diagnosis check of all control units using CONSULT-III.

# FOR MEXICO: Precaution for Work

INFOID:0000000005716210

- 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.

MIR

K

M

Ν

Р

Revision: 2009 September MIR-91 2010 Murano

< PREPARATION > [WITHOUT ADP]

# **PREPARATION**

# **PREPARATION**

# Special Service Tools

INFOID:0000000005513449

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:0000000005513450

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

[WITHOUT ADP]

INFOID:0000000005513451

INFOID:0000000005513452

Α

В

D

Е

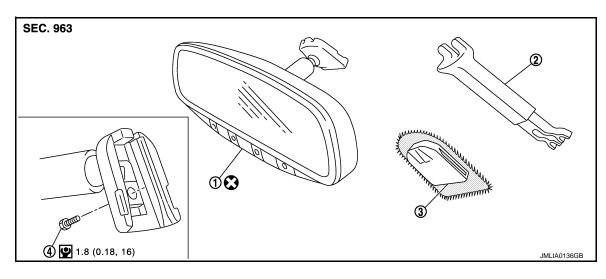
F

Н

# 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.

MIR

K

M

 $\cap$ 

Ν

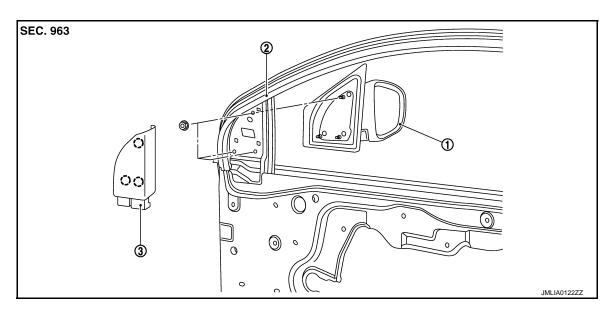
# **OUTSIDE MIRROR**

# DOOR MIRROR ASSEMBLY

DOOR MIRROR ASSEMBLY: Exploded View

INFOID:0000000005513453

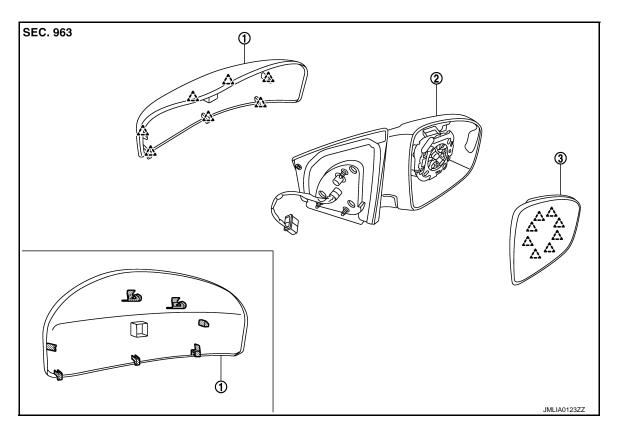
# **REMOVAL**



- 1. Door mirror assembly
- 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

INFOID:0000000005513454 В

Α

D

Е

Н

K

MIR

M

Ν

INFOID:0000000005513456

# **CAUTION:**

Never damage the mirror bodies.

# **REMOVAL**

- 1. Remove the front door finisher. Refer to <a href="INT-12">INT-12</a>, "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.

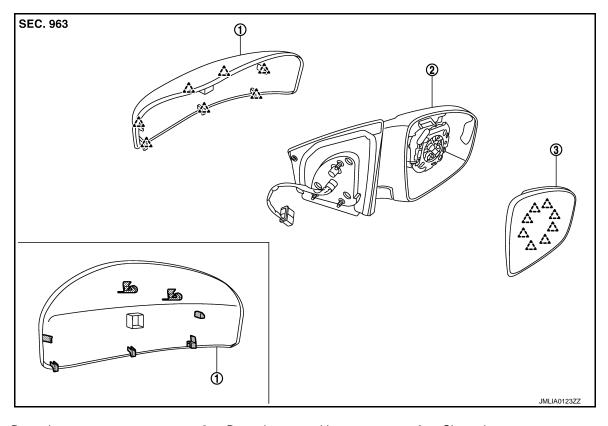
# **INSTALLATION**

Install in the reverse order of removal.

# **GLASS MIRROR**

GLASS MIRROR: Exploded View

INFOID:0000000005513455



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

∴ : Pawl

GLASS MIRROR: Disassembly and Assembly

#### **CAUTION:**

Never damage the mirror bodies.

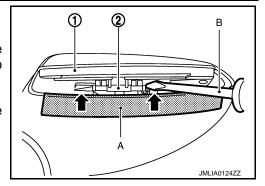
DISASSEMBLY

## < 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.

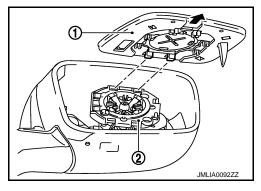


Insert flat-bladed screwdriver at RH/LH side between glass mirror and actuator, and push up pawls to remove glass mirror RH/LH side.

#### 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

[WITHOUT ADP]

# DOOR MIRROR COVER: Exploded View

INFOID:0000000005513457

Α

В

D

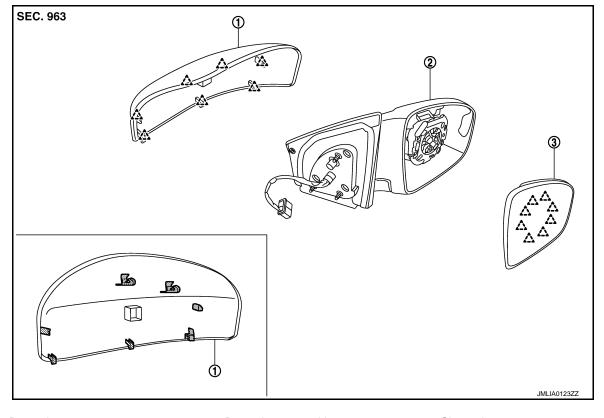
Е

F

Н

J

K



Door mirror cover

Door mirror assembly

Glass mirror

∠^\ : Pawl

# DOOR MIRROR COVER: Disassembly and Assembly

INFOID:0000000005513458

#### **CAUTION:**

Never damage the mirror bodies.

# DISASSEMBLY

- Remove the glass mirror. Refer to MIR-95, "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.

MIR

M

Ν

# DOOR MIRROR REMOTE CONTROL SWITCH

< REMOVAL AND INSTALLATION >

[WITHOUT ADP]

# DOOR MIRROR REMOTE CONTROL SWITCH

Exploded View

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

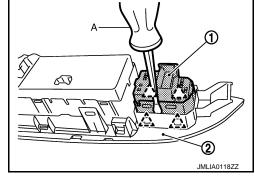
# Removal and Installation

#### INFOID:0000000005513460

# **REMOVAL**

- 1. Remove the power window main switch finisher (2). Refer to PWC-119, "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.