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#### **DIAGNOSIS AND REPAIR WORKFLOW**

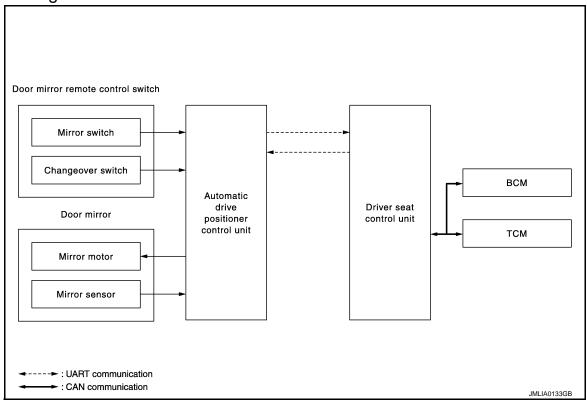
[WITH ADP] < BASIC INSPECTION > **BASIC INSPECTION** Α DIAGNOSIS AND REPAIR WORKFLOW Work Flow INFOID:0000000009065316 **DETAILED FLOW** 1. OBTAIN INFORMATION ABOUT SYMPTOM Interview the customer to obtain the malfunction information (conditions and environment when the malfunction occurred) as much as possible when the customer brings the vehicle in. D >> GO TO 2. 2.CHECK DTC Е Perform self-diagnosis for automatic drive positioner (ADP) with CONSULT. Is any DTC detected? F YES >> Refer to ADP-143, "DTC Index". NO >> GO TO 3.  ${f 3.}$ 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. Н >> GO TO 4. f 4. IDENTIFY THE MALFUNCTIONING SYSTEM WITH "SYMPTOM DIAGNOSIS" Use "Symptom diagnosis" from the symptom inspection result in step 3. Then identify where to start performing the diagnosis based on possible causes and symptoms. >> GO TO 5.  ${f 5}.$ IDENTIFY MALFUNCTIONING PARTS WITH "COMPONENT DIAGNOSIS" Perform the diagnosis with "Component diagnosis" of the applicable system. >> GO TO 6. MIR 6.REPAIR OR REPLACE THE MALFUNCTIONING PARTS Repair or replace the specified malfunctioning parts. M >> GO TO 7. 7. FINAL CHECK Ν Check that malfunctions are not reproduced when obtaining the malfunction information from the customer, referring to the symptom inspection result in step 3. Are all malfunctions corrected? YES >> INSPECTION END NO >> GO TO 4. Р

## SYSTEM DESCRIPTION

## DOOR MIRROR SYSTEM

System Diagram

INFOID:0000000009065317



## System Description

INFOID:0000000009065318

#### MANUAL FUNCTION

#### Description

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

#### **Operation Conditions**

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

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

#### REVERSE INTERLOCK DOOR MIRROR SYSTEM

#### Description

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

#### **Operation Conditions**

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

#### DOOR MIRROR SYSTEM

#### [WITH ADP] < SYSTEM DESCRIPTION > Ignition switch: ON Changeover switch: Select either left or right Α A/T shift selector: R position During the reverse interlock door mirror system, if all of the above conditions are not satisfied, mirror face returns to original angle. В Mirror Angle Memory Function During the reverse interlock door mirror operation, the mirror angle can be changed. After adjustment, the mirror face positions can be memorized (2 positions). For memory setting. Initial setting is downward 7°, inward 1° (both of left and right). When the driver's seat, outside mirror and steering column are not in the memorized position, the outside mirror will move with the initial tilt-down angle, if the reverse tilt-down position is stored. Linking Intelligent D Key to a stored memory position. Memory Procedure Apply the parking brake. Е Push the ignition switch to the ON position. (Do not start the engine.) 3. Push the memory switch 1 or 2 fully for at least 1 second to operate the automatic drive positioner. Turn the door mirror control switch (changeover switch) to L (left). F Depress the brake pedal. Move the A/T shift selector to R position (reverse). 7. Adjust the mirror to the desired viewing position for backing up by operating the door mirror control switch (mirror switch). 8. Push the SET switch and, within 5 seconds, push the memory switch 1 or 2 selected in step 3 fully for at Н least 1 second. The indicator light for the pushed memory switch will come on and stay pushing the switch. After the indicator light goes off, the selected mirror position is stored in the selected memory (1 or 2). 9. Turn the door mirror control switch (changeover switch) to R (right). Repeat the above procedure to adjust the right mirror position and store in the selected memory.

#### AUTOMATIC DRIVE POSITIONER SYSTEM LINKED OPERATION

#### Description

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

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

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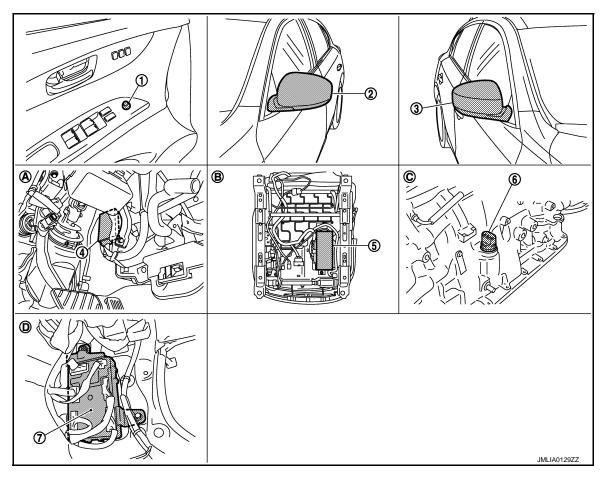
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MIR-5 Revision: 2013 March 2014 QX50

## **Component Parts Location**

INFOID:0000000009065319



- 1. Door mirror remote control switch
- 4. Automatic drive positioner control unit
- 7. BCM
- A. View with instrument driver lower panel removed
- D. Dash side lower (passenger side)
- 2. Door mirror (driver side)
- 5. Driver seat control unit
  - Back side of the seat cushion
- 3. Door mirror (passenger side)
- 6. AT assembly connector (TCM)
- AT assembly (TCM is built in AT assembly)

## Component Description

INFOID:0000000009065320

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.

#### **DOOR MIRROR SYSTEM**

## < SYSTEM DESCRIPTION >

[WITH ADP]

Component	Function
Driver seat control unit	The ignition switch signal (ACC/ON) is transmitted to automatic drive positioner control unit via UART communication.
ТСМ	The A/T shift position signal is transmitted to driver seat control unit via CAN communication.

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#### **INSIDE MIRROR SYSTEM**

< SYSTEM DESCRIPTION >

[WITH ADP]

## **INSIDE MIRROR SYSTEM**

## **System Description**

INFOID:0000000009065321

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

## **Component Description**

INFOID:0000000009065322

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

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

< SYSTEM DESCRIPTION >

[WITH ADP]

# DIAGNOSIS SYSTEM (DRIVER SEAT C/U)

## **Diagnosis Description**

Diagnostic mode

INFOID:0000000009359750

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

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

## **CONSULT Function**

Monitor Item

INFOID:0000000009359751

Contents

#### **SELF-DIAGNOSIS RESULTS**

Refer to ADP-143, "DTC Index".

#### **DATA MONITOR**

#### NOTE:

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

Selection

From

Main

Unit

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	Monitor Item	Unit	Signals	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)

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SLIDE SW-FR	"ON/OFF"	×	×	ON/OFF status judged from the sliding switch (forward) signal.
SLIDE SW-RR	"ON/OFF"	×	×	ON/OFF status judged from the sliding switch (backward) signal.
RECLN SW-FR	"ON/OFF"	×	×	ON/OFF status judged from the reclining switch (forward) signal.
RECLN SW-RR	"ON/OFF"	×	×	ON/OFF status judged from the reclining switch (backward) signal.
LIFT FR SW-UP	"ON/OFF"	×	×	ON/OFF status judged from the lifting switch front (up) signal.
LIFT FR SW-DN	"ON/OFF"	×	×	ON/OFF status judged from the lifting switch front (down) signal.
LIFT RR SW-UP	"ON/OFF"	×	×	ON/OFF status judged from the lifting switch rear (up) signal.
LIFT RR SW-DN	"ON/OFF"	×	×	ON/OFF status judged from the lifting switch rear (down) signal.
MIR CON SW-UP	"ON/OFF"	×	×	ON/OFF status judged from the mirror switch (up) signal.
MIR CON SW-DN	"ON/OFF"	×	×	ON/OFF status judged from the mirror switch (down) signal.

# DIAGNOSIS SYSTEM (DRIVER SEAT C/U)

[WITH ADP]

Monitor Item	Unit	Main Signals	Selection From Menu	Contents
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.
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	"∨"	_	×	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	"∨"	_	×	Voltage input from door mirror sensor (driver side) up/down is displayed.
MIR/SEN LH R-L	"√"	-	×	Voltage input from door mirror sensor (driver side) left/right is displayed.
TILT SEN	"V"	_	×	Voltage input from tilt sensor is displayed.
TELESCO SEN	"V"	_	×	Voltage input from telescopic sensor is displayed.

# ACTIVE TEST CAUTION:

When driving vehicle, do not perform active test.

Test item	Description
SEAT SLIDE	Activates/deactivates the sliding motor.
SEAT RECLINING	Activates/deactivates the reclining motor.
SEAT LIFTER FR	Activates/deactivates the lifting motor (front).
SEAT LIFTER RR	Activates/deactivates the lifting motor (rear).
TILT MOTOR	Activates/deactivates the tilt motor.

# DIAGNOSIS SYSTEM (DRIVER SEAT C/U)

## < SYSTEM DESCRIPTION >

[WITH ADP]

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

## **WORK SUPPORT**

Work item	Content	Item
		40 mm
SEALSTIDE 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
EXIT TILL SETTING	ON (operated) – OFF (not operated)	OFF
EXIT SEAT SLIDE SETTING	Entry/exit assist (seat) can be selected:	ON
EXIT SEAT SLIDE SETTING	ON (operated) – OFF (not operated)	OFF

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#### DOOR MIRROR REMOTE CONTROL SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH ADP]

## DTC/CIRCUIT DIAGNOSIS

# DOOR MIRROR REMOTE CONTROL SWITCH MIRROR SWITCH

MIRROR SWITCH: Description

INFOID:0000000009065325

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:00000000009065326

#### 1. CHECK MIRROR SWITCH FUNCTION

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

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

#### Is the inspection result normal?

YES >> Mirror switch function is OK.

NO >> Refer to MIR-12, "MIRROR SWITCH: Diagnosis Procedure".

## MIRROR SWITCH: Diagnosis Procedure

INFOID:0000000009065327

## 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 remote control switch		(–)	Voltage (V) (Approx.)
Connector	Terminal		(πρριολ.)
D17	4	Ground	5
	12		
	13		5
	15		

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

# 2. CHECK MIRROR SWITCH CIRCUIT

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

#### DOOR MIRROR REMOTE CONTROL SWITCH

< DTC/CIRCUIT DIAGNOSIS >

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Automatic drive p	ositioner control unit	Door mirror remote control switch		tioner control unit Door mirror remote control switch		Continuity
Connector	Terminal	Connector Terminal		Continuity		
	3	D17	15			
M51	4		13	Existed		
I CIVI	19		12	Existed		
	20		4			

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

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

#### Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to ADP-222, "Removal and Installation".

NO >> Repair or replace harness.

# 3.check door mirror remote control switch ground circuit

Turn ignition switch OFF.

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

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

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

#### 4. CHECK MIRROR SWITCH

Check door mirror remote control switch (mirror switch).

Refer toMIR-13, "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-123, "Removal and Installation".

## 5. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-42, "Intermittent Incident".

#### >> INSPECTION END

## MIRROR SWITCH: Component Inspection

## 1. CHECK MIRROR SWITCH

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

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INFOID:0000000009065330

INFOID:0000000009065331

#### < DTC/CIRCUIT DIAGNOSIS >

Door	Door mirror remote control switch		Condition		Continuity
Connector	Terr	minal	Condition		Continuity
	4			RIGHT	Existed
	4			Other than above	Not existed
	13	<u> </u>	7 Mirror switch	LEFT	Existed
D17	7	7		Other than above	Not existed
DIT		15		UP	Existed
	15			Other than above	Not existed
	12		42		DOWN
	12			Other than above	Not existed

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace door mirror remote control switch. Refer to MIR-123, "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.

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

#### Is the inspection result normal?

YES >> Changeover switch function is OK.

NO >> Refer to MIR-14, "CHANGEOVER SWITCH: Diagnosis Procedure".

## CHANGEOVER SWITCH: Diagnosis Procedure

1. CHECK CHANGEOVER SWITCH INPUT SIGNAL

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

(+)			Voltage (V) (Approx.)	
Door mirror remote control switch		(–)		
Connector	Terminal		,	
D17	10	Ground	5	
DIT	11	Ground	3	

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

## 2. CHECK CHANGEOVER SWITCH CIRCUIT

#### DOOR MIRROR REMOTE CONTROL SWITCH

< DTC/CIRCUIT DIAGNOSIS >

1	Turn	ignition	ewitch	OFF
	ı. IUIII	панион	SWILLI	UFF.

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

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

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

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

#### Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to ADP-222, "Removal and Installation".

NO >> Repair or replace harness.

## 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 rem	ote control switch		Continuity
Connector	Terminal	Ground	Continuity
D17	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-15, "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-123, "Removal and Installation".

## 5. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-42, "Intermittent Incident".

#### >> INSPECTION END

## **CHANGEOVER SWITCH: Component Inspection**

## 1. CHECK CHANGEOVER SWITCH

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

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Revision: 2013 March MIR-15 2014 QX50

#### DOOR MIRROR REMOTE CONTROL SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH ADP]

Door	mirror remote control	switch	Con	dition	Continuity
Connector	Terr	minal	Con	uition	Continuity
	10			LEFT	Existed
D17	10	7	Changeaver awitch	Other than above	Not existed
DIT	11	,	Changeover switch	RIGHT	Existed
	11			Other than above	Not existed

#### Is the inspection result normal?

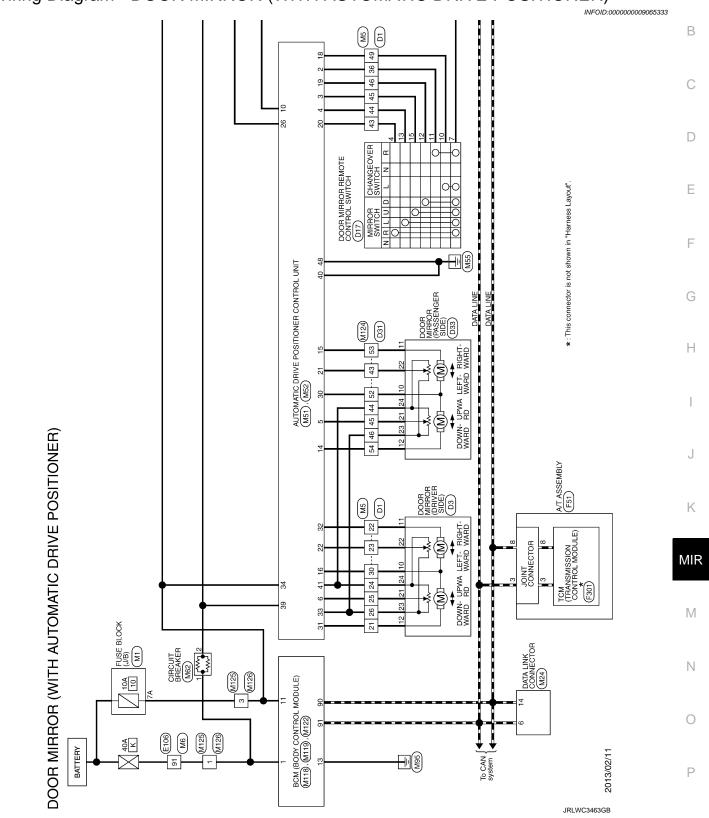
YES >> INSPECTION END

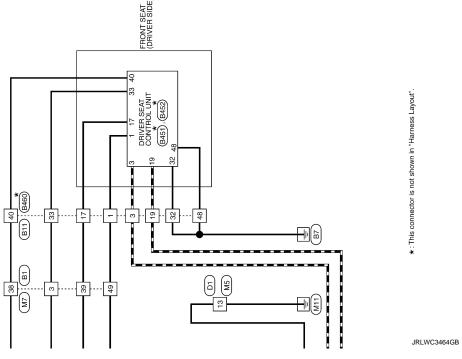
NO >> Replace door mirror remote control switch. Refer to MIR-123, "Removal and Installation".

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## **DOOR MIRROR SYSTEM**

Wiring Diagram - DOOR MIRROR (WITH AUTOMATIC DRIVE POSITIONER) -





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	٤			D444	9
	9 6	╚		Τ	16 O NEAR LITTING SW (DOWNWARD)
	62	SHIELD	- <u>O</u>	.	Y/R
TH80FW-CS16-TM4	8	œ (		Connector Type NS16FW-CS	> 3
	65	SHE	- Oi	•	24 R PULSE (SLIDING)
	99	Α			Y/B
	29	> {		40 17 13 18	> 8
	8 8	焬		60 67 33 21 48 32 66	28 W/B FRONT LIFTING SW (UPWARD)
	20	≶			P/L
	13	S.			GR.
Signal Name [Specification]	75	7 3		Signal Name [Specification]	32 B/W GND (SIGNAL)
	2 2	8		t	
	2	2		ł	Connector No. 18452
	182	۵		17 Y	_
	62	GR		-	Connector Name   DRIVER SEAT CONTROL UNIT
	88	8		H	Connector Type NS16FW-CS
	85	>		32 B .	
	98	FIG		Н	
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	88	ω ;	,	+	40 40 45
	3	3		+	24
	5 8	2 2		4	
	26	E C			Torminal Color Of
	8 8	8		Г	No. Wire Signal Name [Specification]
	95	C		Γ	33 R BAT (C/B)
	98	>			W/R SLIDING
	86	≥		Connector Type TH32FW	G/Y
	66	GR			G/W FR
				_	Š
					R/B
					R/W
				3	W/B SLIDING MOTO
				17 19 21 24 25 26 27 28 29 31	"
					L/R
					48 B GND (POWER)
-				Wire	
				N.	
				K/Y	
				M/G	
				B/B	
				BR	
				SB	
-				LG/R	
		Rune (Speedication)	Manne (Specification)    1	Manuel (Specification)  Specification)  Manuel (Specification)  Specification)  Specification  S	Terminal Case of Cas

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DOOR	DOOR MIRROR (WITH AUTOMATIC DRIVE POSITIONER)	IC DRIV	/E PC	SITIONER)					
Connector No.	B460	6	0		Connector No.	D3	10	GR -	
Connector Nan	Connector Name WIRE TO WIRE	9 7	뚭 0		Connector Name	DOOR MIRROR (DRIVER SIDE)	5 4	91	
Connector Type	NS16MW-CS	- 6	_ <u>c</u>		Connector Type	TH24MM-NH	4 4	20 8	
di mananananananananananananananananananan		1 52	2 0		odí i opou		15		
_	•	14	>		_				
		15	Μ						
	19.3 1	16	ď	•	•		Connector No.	No. D31	
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\$ 50 C	17	Μ		V.	12 11 10 7 6 5 3 2	Connector Name	Name WIRE TO WIRE	
	00 32 40 21 33 01	18	G			24 23 22 21 19 18 17 14			
		19	>				Connector Type	Type TH40FW-CS15	
		20	≥						
a	r Of Sinnal Name [Specification]	21	0	-	na C	Sinnal Nama [Spacification]			
No. Wire	original realities	22	۵		No. Wire	oignai naine [openiication]			F
1 L/W	W	23	BR	•	2 0	•		2 2 2 2	1
3 R/Y		24	>		3 B	SIDE CAMERA LH COMM		2 2 2 2	N 22 23 23 19 18 17 18
17 Y/R	- ·	25	GR	•	5 Y	SIDE CAMERA LH IMAGE SIGNAL		200	N 22 M 34 29
٧ / ٧	-	26	Υ		6 R	SIDE CAMERA LH POWER SUPPLY			
21 L/Y	· .	27	В	-	7 W	-			
Н		28	SHIELD	(	10 G		Terminal	Color Of Const News 18	Section
-	1	58	91		11 P		ġ	Wire Signal Name Loped	III CARDIII
H	- ·	98	Ø		12 0		7		
48 B		31	W		14 LG		89	BR -	
60 Y/R		32	Ø		17 G	SIDE CAMERA LH IMAGE GND	0	>	
99	,	33	_		18 W	SIDE CAMERA LH GND	12	а.	
T 29	1	34	SB		19 B		13	- 91	
		35	œ				14	В	
		36	97		22 BR	•	15		
Connector No.	D1	37	œ		23 Y		16	BR -	
Compositor Namo	DOM: OT DOM:	38	Ь		24 V		17	В .	
1000		38	0	-			18	α.	
Connector Type	De TH40FW-CS15	40	BR				19	· ·	
		41	_	-	Connector No.	D17	20		udio]
_		45	GR		Connector Name	HOUND INSTRUCT STATES	20		audio]
	ıĒ	43	BR	<ul> <li>[With automatic drive positioner]</li> </ul>			21	BR - [Without BOSE audio]	audio]
	9 4 0 11 2 5 11 5	43	0	<ul> <li>[Without automatic drive positioner]</li> </ul>	Connector Type	TK16FBR	21	G - [With BOSE audio]	(oipo
\ \	10   10   10   10   10   10   10   10	44	æ	<ul> <li>[Without automatic drive positioner]</li> </ul>	•		22	>	
		44	≥	<ul> <li>[With automatic drive positioner]</li> </ul>			23	-	
		42	U	<ul> <li>[Without automatic drive positioner]</li> </ul>			24		
		42	>	<ul> <li>[With automatic drive positioner]</li> </ul>		4	25	SB	
a	r Of Signal Name [Specification]	46	O	<ul> <li>[With automatic drive positioner]</li> </ul>	٧ :		26	۲,	
No. Wire		46	^	<ul> <li>[Without automatic drive positioner]</li> </ul>		8 9 10 11 12 13 15	29	SHIELD -	
1 R	-	49	GR	-			30		
2 B	3	20	В				31	- PI	
3 ^		52	Я	-	nal	Signal Name [Specification]	32	BR -	
4 W		53	SB		No. Wire	ognar varie [opeonication]	33	. 0	
5 L	,	54	0		4 BR		34	GR -	
$\dashv$		22	>		7 B		35	. 9	
7 GR					$\dashv$		43	· ·	
8					9 R		44	^	

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ŀ	7	98 SHIELD	4	100 P			Connector No F51	т	Connector Name   A/T ASSEMBLY	┑	Connector Type RK10FG-DGY	ł	<			Ī	(12   4   3   2   1		8 600			J(	No. Wire Signal Name [Specification]	>	O D D D D D D D D D D D D D D D D D D D	ž,	3 O CAN-H	4 V K-LINE	5 B GROUND	> CILINUI	-	r !	57	4	10 B GROUND			Competer No E301	T	Connector Name TCM (TRANSMISSION CONTROL MODULE)	Chorne	Connector Type SPTUTG	•	•		1 0 0 1 E	t 0 7	01 8 2 8 9 10				Signal Name [Specification]		1 - IGNITION POWER SUPPLY	2 - BATTERY POWER SUPPLY	3 - CAN-H	4 - K-I INF	-	
ŀ	+	M c	+	- d 0	$\dashv$	14 BG	H	╁	+	+	9 -	┡	+	+		L		Т	/ SMIELD		. LG .	- M 0.	α.	╀	+	ן מ	.4 BR - [With ICC]	.4 L - [Without ICC]	.5   G   - [With ICC]	*	$^{+}$	\$	+	۵	7 R - [With ICC]	BR .	.8 L - IWith ICC1	-	COLUMNIA >	. s	+	+	4	4		_		- A L	200	ď	t	+	+	4	-			4	
OSITIONER)	E106	Connector Name WIRE TO WIRE		Connector Type   TH80FW-CS16-TM4 50								Ь Ь Ь	1		Color Of Signal Mana [Spacification]	ognal warne [opecincation]	38		/a		GR - 69	GR - 70		- 8	70		SB - 74		- 1					SB - 77	77 · · · · ·	BG BG	- 1	02						W - 83		BG - 85	8e	- 8						BR - 93	BG - 94		8		
IIRROR (WITH AUTOMATIC	P Connector No.				. 0					D33		Connector Name DOOK MIRROR (PASSENGER SIDE)	Commenced on Times Times Times		Terminal	- S				1 0 0 4	24 23 22 21 19 18 17 16 4				Signal Name [Specification]	- 1	SIDE CAMERA RH COMM	LG SIDE CAMERA RH IMAGE SIGNAL 12	B SIDE CAMERA RH POWER SUPPLY 13						18	1	G SIDE CAMERA RH IMAGE GND 21	SIDE CAMERA BH GND	200			67		- 27	28	31	32	33	32	3 6	8	95	37	88	39	41	42	75	
DOOR	+	+	52 (	+	4	1 22				Connector No.	(	Connector Na	T assessment	COLLINGTON					•	\ \ 				Torminal Color Of	No.		3	4	3 2	H	+	4	01	4	_		L	╀	2 2	+	+	4	4																

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Revision: 2013 March MIR-21 2014 QX50

DOOR M	DOOR MIRROR (WITH AUTOMATIC	IC DRIVE		POSITIONER)					
- 2	GROUND	2	_	,	Connector No.	M6	43	BG	
- 9	IGNITION POWER SUPPLY	9	ď		Connector Memo	WIDE TO WIDE	45	Μ	
- 2	BACK-UP LAMP RELAY	7	ď	1	COLLECTO MAIN		49	7	
8	CAN-L	89	Μ		Connector Type	TH80MW-CS16-TM4	20	۵	
6	STARTER RELAY	6	ŋ				51	BR	
10	GROUND	10	_		_		55	>	
		11	ŋ			2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	25	ŋ	
		12	>			0 A 0 A 0 A 0 A	29	>	
Connector No.	M1	13	В		SEV.	N 1	9	٦	
	(a) /OO in LOI in	14	>				61	9	
COLLINGTION INSINE	ruse BLUCK (J/B)	15	M				62	SB	
Connector Type	NS06FW-M2	16	Я				63	9	
		17	В		Terminal Color Of	Of Stand Money (Security of the	99	В	-
_		18	9		No. Wire		92	Μ	
		19	<b>\</b>		1 W		99	œ	•
	34 24 14	20	_		2 R		29	SHELD	
e E	24 7A SA SA 4A	21	97		3 B		88	>	
	5	22	7		4 SHIELD		69	GR	
	]	23	o	,	5 G		20	97	,
		24	>	,	8		71	97	,
Terminal Color Of		25	GR		9 BR	,	72	>	
No. Wire	Signal Name [Specification]	56	œ		10 R		73	g	
1A GR		27	Μ		11 BR		74	L	- [With ICC]
⊢		78	SHELD		12 BG		74	_	- [Without ICC]
3A L		59	λ		13 L		75	9	
4A P	1	30	>		14 R		9/	GR	- [Without ICC]
5A V		31	ч	-	15 P		9/	W	- [With ICC]
, ∀	-	32	BR	-	16 V		7.7	Ь	- [Without ICC]
7A R	-	33	SB		17 SB		77	ж	- [With ICC]
8A L		34	٨		18 V		78	7	- [With ICC]
		35	Ь	-	20 BG		78	ж	- [Without ICC]
		36	FIG		21 L		79	W	- [Without ICC]
Connector No.	M5	37	BR	-			79	>	- [With ICC]
Connector Name	Connector Name   WIRE TO WIRE	38	۵	-	+		80	SB	
		96 90	8		1		8	g	
Connector Type	Connector Type TH40MW-CS15	40	SB	-	+		85	SB	
		41	_		$\dashv$		88	>	
		45	œ	-	_		\$	ŋ	
	1 2 3 4 5 5 7 8 8 18 18 18 18 18 18	43	æ		28 G		82	-	
•		44	>		4	•	98	۵	
·	2 5 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	45	G		$\dashv$		87	≷	
		46	SB	<ul> <li>[With automatic drive positioner]</li> </ul>			88	GR	-
		46	۸	<ul> <li>[Without automatic drive positioner]</li> </ul>	34 W		06	SHIEL	- Q
		49	Ь		35 R		91	Μ	
=	Of Signal Nama (Spacification)	20	В		36 SHIEL	- · · · · · · · · · · · · · · · · · · ·	92	>	,
No. Wire		25	œ		┨		8	æ	
4		23	>		+	-	8	۵	
$\dashv$		54	<sub>2</sub>		$\dashv$		92	꼾	
+		22	SB		+		%	≥	
4					42 BG		97	_	

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DOOR MIRROR (WITH AUTOMATIC DRIVE POSITIONER)	DRIVE F	OSITIONER)						
Connector No. M62	Connector No.	M119	81	W	NATS ANT AMP.	21	9	- [With BOSE audio]
Oncorporation Name Of DECIMED	Connector blos	CHILDON LOGHING WOOL	82	ď	IGN RELAY (F/B) CONT	21	7	- [Without BOSE audio]
COLLECTO MAINE CINCOLI BNEARCH	collector value		83	Υ	KEYLESS ENTRY RECEIVER COMM	22	SB	
Connector Type M02FW-P-LC	Connector Type	e NS16FW-CS	87	BR	COMBI SW INPUT 5	23	GR	
			88	۸	COMBI SW INPUT 3	24	9	
			6	۵	CAN-L	25	>	
			9	7	CAN-H	56	œ	
		4 5 7 8 9 10	92	97	KEY SLOT ILL CONT	59	SHIELD	
	SII.	11 12 11 15 17 18 10	93	>	ONINO	30	Μ	
7		14 10 11 10	96	>	PUDDLE LAMP CONT	31	PI	,
			92	BG	ACC RELAY CONT	32	ŋ	
			96	GR	AT SHIFT SELECTOR POWER SUPPLY	33	æ	
a	Terminal Color Of	r Of	66	Я	SHIFT P	32	^	-
No. Wire Signal Name [Specimoatton]	No. Wire		100	9	PASSENGER DOOR REQUEST SW	32	9	
1 W -	4 LG		101	SB	DRIVER DOOR REQUEST SW	43	٦	-
2 SB -	5	PASSENGER DOOR UNLOCK OUTPUT	102	BG	BLOWER FAN MOTOR RELAY CONT	44	Υ	
	7	STEP LAMP CONT	103	LG	KEYLESS ENTRY RECEIVER POWER SUPPLY	45	ĸ	-
	8	V ALL DOOR, FUEL LID LOCK OUTPUT	107	PI	COMBI SW INPUT 1	46	W	
Connector No. M118	6	G DRIVER DOOR, FUEL LID UNLOCK OUTPUT	108	œ	COMBI SW INPUT 4	52	ď	1
THE GOAL COTTAGO WOOD	10 B	BR REAR DOOR UNLOCK OUTPUT	109	Υ	COMBI SW INPUT 2	53	9	
CONTRACTOR NAME DOWN (DOD) CONTROL MODULE)	11 F	R BAT (FUSE)	110	9	HAZARD SW	54	W	
Connector Type M03FB-LC	13 E	B GROUND				55	BG	
	14 W	/ PUSHBUTTON IGNITION SW ILL GND						
	15	ACC IND	Connec	Connector No.	M124			
Ī	17 W	/ TURN SIGNAL RH (FRONT)	J	Connector Name	Ediwi OI Ediwi	Connector No.	r No. M125	25
13	18 B	BG TURN SIGNAL LH (FRONT)	5	to realife	WINE TO WINE	Connecto	Connector Name	E TO MIDE
	19	' INT ROOM LAMP CONT	Connec	Connector Type	TH40MW-CS15	000	Т	
7			-	•		Connector Type	┑.	M03FW-LC
	Connector No	M122		1		_	•	
	COLLECTO NO.	W122		Į	6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8		•	
No. Wire Signal Name [Specification]	Connector Name	ne BCM (BODY CONTROL MODULE)	_	٤	8 7 18 19 20 21 22 22 22 22 23 24 25 25 25 25 25 25 25 25 25 25 25 25 25	_		<u></u>
T	Connector Type	e TH40FB-NH	•	Ċ		Ę	e	-   6
POWER WINDOW P						1	į	3.2
3 Y POWER WINDOW POWER SUPPLY(RAP)	•							
			Termin	erminal Color Of	Signal Name [Specification]			
	ŧ	2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2	ġ r	wire		ā	Color Ct	Signal Name [Specification]
	7		_	<b>&gt;</b>		Ö.	vvire	
		25 25 25 25 25 25 25 25 25 25 25 25 25 2	œ ,	9 :		-	≥ :	
			o	<b>&gt;</b>		2	<b>*</b>	
			12	٦		ဗ	œ	
	<u>ছ</u>	r Of Signal Name [Specification]	13	>	1			
	4		14	В				
	┥	4	12	≥				
	$\dashv$	GR PASSENGER DOOR ANT+	16	H				
	+		1	В				
	_	LG DRIVER DOOR ANT+	18	œ				
	+		19	a :				
	+		20	≯	- [Without BOSE audio]			
	80 G	GR NATS ANT AMP.	20	>	- [With BOSE audio]			

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DOOR MIRROR (WITH AUTOMATIC DRIVE POSITIONER) Signal Name [Specification]

Connector No. M126 Connector Name WIRE TO WIRE

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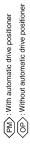
Р

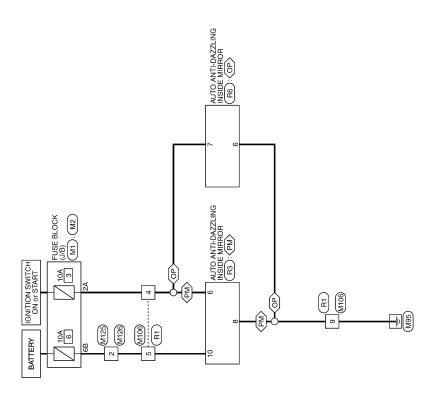
[WITH ADP]

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

Wiring Diagram - INSIDE MIRROR SYSTEM -

INFOID:0000000009065334





INSIDE MIRROR

JRLWC3465GB 2013/02/11

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

< DTC/CIRCUIT DIAGNOSIS >

[WITH ADP]

DE MIRROR Specification)	В
10   Y   1	D
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Signal Name [Specification]  26  34MV-LC  34MV-LC  Signal Name [Specification]	F
	G
1	Н
Salfon)	I
1   2   3   4   5   5   5   5   5   5   5   5   5	J
Corrector No.   M106	K
	MIR
N-V-M2   N	M
MIRRO HISTORY INSTORY	N
HSIDE MI Connector Name Connector Name Terminal Color Of No. Wre SA V GA V TA P	0

**MIR-27** Revision: 2013 March 2014 QX50

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# **ECU DIAGNOSIS INFORMATION**

## DRIVER SEAT CONTROL UNIT

Reference Value

#### VALUES ON THE DIAGNOSIS TOOL

#### NOTE:

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

#### CONSULT MONITOR ITEM

Monitor Item	Condit	ion	Value/Status
SET SW	Set switch	Push	ON
SET SW	Set Switch	Release	OFF
MEMORY SW/4	Memory switch 1	Push	ON
MEMORY SW1	Memory Switch 1	Release	OFF
MEMORY SW2	Memory switch 2	Push	ON
WEWORT 3W2	Memory Switch 2	Release	OFF
SLIDE SW-FR	Sliding switch (front)	Operate	ON
SLIDE SW-I K	Silding Switch (Horit)	Release	OFF
SLIDE SW-RR	Sliding switch (rear)	Operate	ON
SLIDE SW-KK	Silding Switch (rear)	Release	OFF
RECLN SW-FR	Reclining switch (front)	Operate	ON
RECLIN SW-FR	Reclining Switch (nont)	Release	OFF
RECLN SW-RR	Declining quitch (rear)	Operate	ON
RECLIN SW-RR	Reclining switch (rear)	Release	OFF
LIFT FR SW-UP	Lifting awitch front (up)	Operate	ON
LIFT FR SW-UP	Lifting switch front (up)	Release	OFF
LIET ED OW DN	Lifting quitab front (days)	Operate	ON
LIFT FR SW-DN	Lifting switch front (down)	Release	OFF
LIFT RR SW-UP	Lifting quitab roor (up)	Operate	ON
LIFT KK SW-UP	Lifting switch rear (up)	Release	OFF
LIET DD CW DN	Lifting awitch roor (dawn)	Operate	ON
LIFT RR SW-DN	Lifting switch rear (down)	Release	OFF
MIR CON SW-UP	Mirror switch	Up	ON
WIR CON SW-OF	WIIITOI SWILCII	Other than above	OFF
MIR CON SW-DN	Mirror switch	Down	ON
WIR CON 3W-DIN	WIIITOI SWILCII	Other than above	OFF
MIR CON SW-RH	Mirror switch	Right	ON
WIR CON SW-RH	WIIITOI SWILCII	Other than above	OFF
MID CON SW 1 L	Mirror switch	Left	ON
MIR CON SW-LH	IVIIITOI SWILCIT	Other than above	OFF
MIR CHNG SW-R	Changaayar awitah	Right	ON
IVIIN CHING SVV-K	Changeover switch	Other than above	OFF
MID CHNC SW I	Changeover switch	Left	ON
MIR CHNG SW-L	Changeover switch	Other than above	OFF

## **DRIVER SEAT CONTROL UNIT**

< ECU DIAGNOSIS INFORMATION >

[WITH ADP]

Monitor Item	Condit	ion	Value/Status				
TILT SW-UP	Tilt switch	Up	ON				
TILI SW-UP	THE SWILCH	Other than above	OFF				
TILT SW-DOWN	Tilt switch	Down	ON				
TIET OW-DOWN	THE SWILCH	Other than above	OFF				
TELESCO SW-FR	Telescopic switch	Forward	ON				
	Tologopio switch	Other than above	OFF				
TELESCO SW-RR	Tilt switch	Backward	ON				
		Other than above	OFF				
DETENT SW	AT selector lever	P position	OFF				
		Other than above	ON				
STARTER SW	Ignition position	Cranking	ON				
	ig.me.r peemer.	Other than above	OFF				
		Forward	The numeral value decreases *1				
SLIDE PULSE	Seat sliding	Backward	The numeral value increases *1				
		Other than above	No change to numeral value*1				
		Forward	The numeral value decreases *1				
RECLN PULSE	Seat reclining	Backward	The numeral value increases *1				
		Other than above	No change to numeral value*1				
		Up	The numeral value decreases *1				
LIFT FR PULSE	Seat lifter (front)	Down	The numeral value increases *1				
		Other than above	No change to numeral value <sup>*1</sup>				
		Up	The numeral value decreases *1				
LIFT RR PULSE	Seat lifter (rear)	Down	The numeral value increases *1				
		Other than above	No change to numeral value*1				
MIR/SEN RH U-D	Door mirror (passenger sid	e)	Change between 3.4 (close to peak) 0.6 (close to valley)				
MIR/SEN RH R-L	Door mirror (passenger sid	e)	Change between 3.4 (close to left edge) 0.6 (close to right edge)				
MIR/SEN LH U-D	Door mirror (driver side)		Change between 3.4 (close to peak) 0.6 (close to valley)				
MIR/SEN LH R-L	Door mirror (driver side)		Change between 0.6 (close to left edge) 3.4 (close to right edge)				
TILT SEN	Tilt position		Change between 1.2 (close to top) 3.4 (close to bottom)				
TELESCO SEN	Telescopic position		Change between 3.4 (close to top) 0.8 (close to bottom)				

<sup>\*1:</sup> The value at the position attained when the battery is connected is regarded as 32768.

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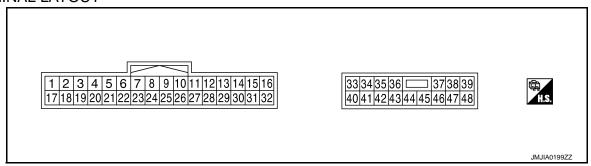
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## **TERMINAL LAYOUT**



#### PHYSICAL VALUES

Term	ninal No.	100	Description				V 16 00
+	-	Wire color	Signal name	Input/ Output	Condition	า	Voltage (V) (Approx)
1	Ground	L/W	UART communication (RX)	Input	Ignition switch ON		2mSec/div 2wSec/div JMJIA0118ZZ
3	_	R/Y	CAN-H	_	_		<u> </u>
9	Ground	W/G	Reclining sensor signal	Input	Seat reclining	Operate	10mSec/div
						Stop	0 or 5
10	Ground	P/B	Lifting sensor (rear) signal	Input	Seat lifting (rear)	Operate	10mSec/div
						Stop	0 or 5
11	Ground	BR	Sliding switch back- ward signal	Input	Sliding switch	Operate (back- ward)	0
						Release	Battery voltage
12	Ground	SB	Reclining switch back- ward signal	Input	Reclining switch	Operate (back- ward)	0
						Release	Battery voltage
13	Ground	LG/R	Lifting switch (front) down signal	Input	Lifting switch (front)	Operate (down)	0
			- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		( - ····	Release	Battery voltage

## **DRIVER SEAT CONTROL UNIT**

## < ECU DIAGNOSIS INFORMATION >

[WITH ADP]

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

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

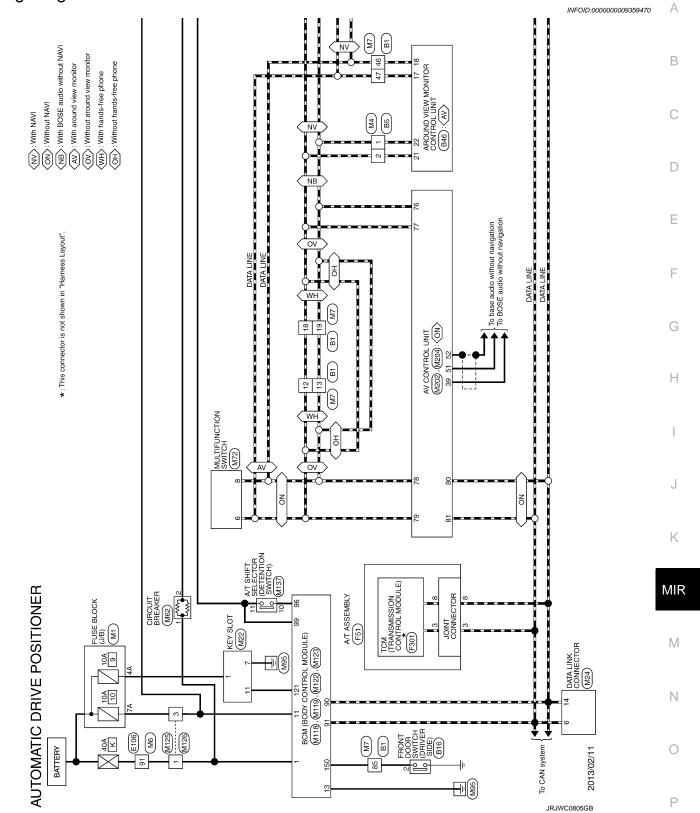
#### < ECU DIAGNOSIS INFORMATION >

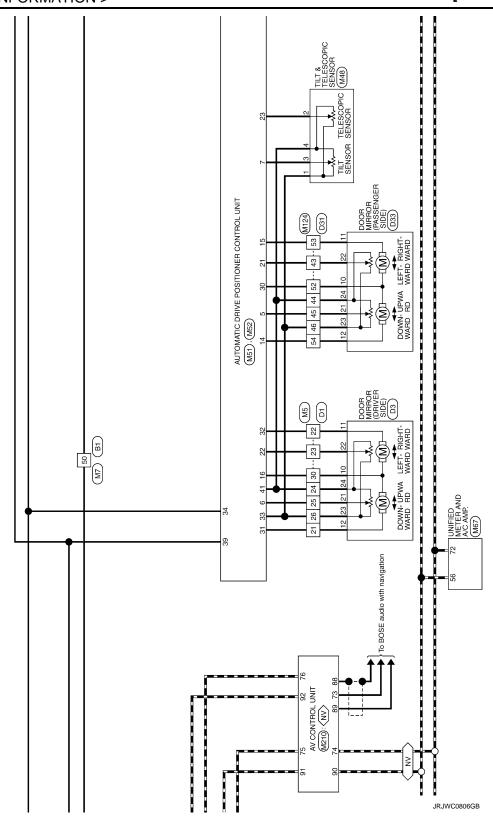
[WITH ADP]

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

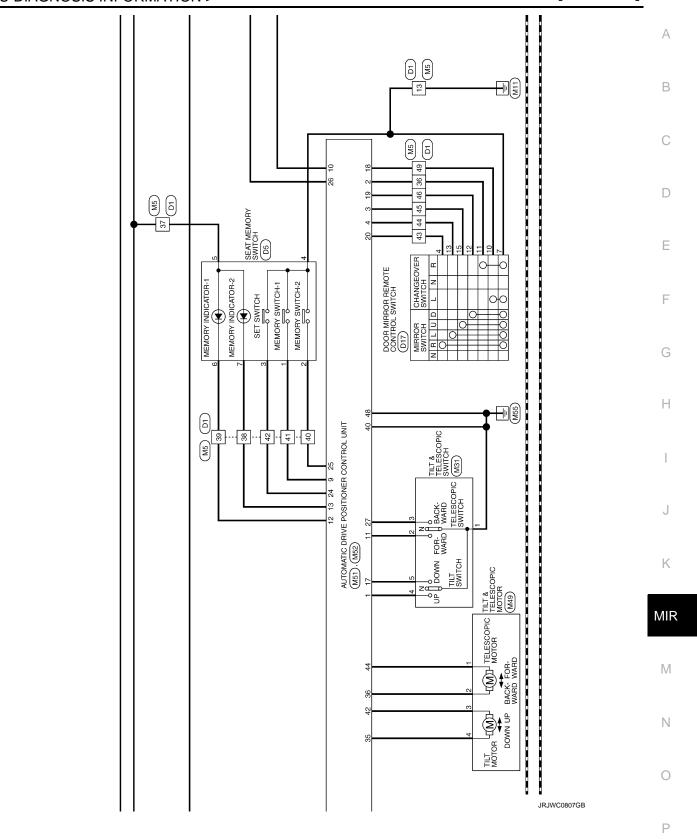
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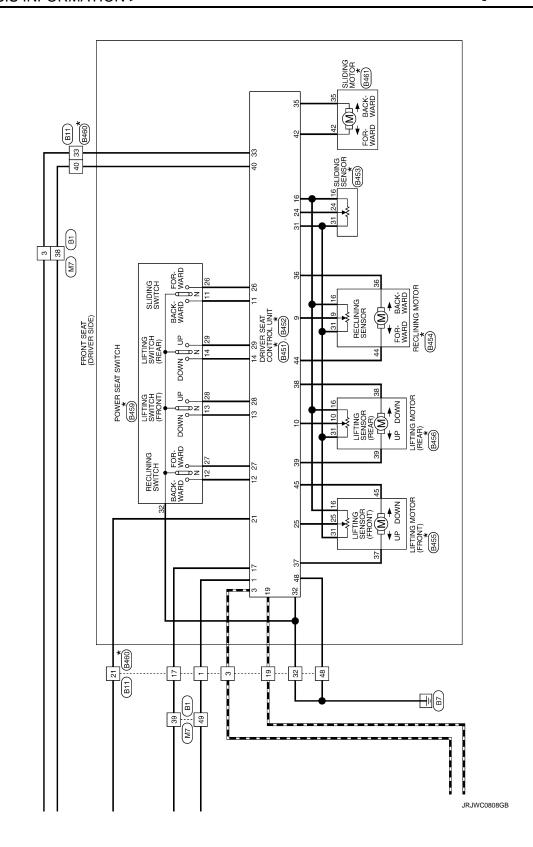
Wiring Diagram - AUTOMATIC DRIVE POSITIONER CONTROL SYSTEM -





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





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

### **DRIVER SEAT CONTROL UNIT**

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					3 13		Specification	- boomonia													H (DRIVER SIDE)		-				_		Specification														3
	MIRE TO WIRE	S16FW-CS		ᆙ	60 6733 24 48	1	Signal Name (Specification)	ola manago			•								B16		FRONT DOOR SWITCH (DRIVER SIDE)	A03FW		<u> </u>		7	_]		Signal Name [Specification]													(	0
	Connector No. B11				E S		Terminal Color Of	No. Wire	ب ا ا	Н		+	╁	40 BR	+	+	╁		Connector No B			Connector Type At	•		•	E.S.			Terminal Color Of	No. Wire													$\supset$
					14 15 16			T											T																								Ε
	BS WIRE TO WIRE	HN-W			1 2 3 4 4 5 6 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	7 00 07 00 07 00 07 07 17	Sional Name [Specification]	organic del companication	.   .						.				. .						,																		F
	No. B5	Connector Type TH32MW-NH	•			 	olor Of	Wire	SB CS	<b>X</b>	œ :	≥ ©	, S	а ;	S S	<u></u>	9	В	SHIELD	8 8		W	<u>-</u>	SHIELD	<b>*</b>																	(	G
	Connector No.	Connector		_	SH		Terminal Color Of	ġ,	- 2	3	4	n w	^	00	4 t	Т	Т	П	Т	Т	П	27	28	30 8	31																	ı	-
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	z –	SHELD	G	<b>&gt;</b>	. gg	A 8	Z _	≥ 6	£ ~	Ь	GR	S >	. <sub>9</sub>	>	α a	- B	ŋ	BR	υ g	3 0	>	<b>M</b>	GR																				
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AUTOMATIC DRIVE POSITIONER	WIRE TO WIRE	TH80FW-CS16-TM4					Signal Name [Specification]	Garan series (checamoration)																	•																		IR
DMATIC	or No.	-	•	7	S E	1	Color Of	Wire	צט	SB	>	_ g	9	GR.	<u>ව</u> §	: 89	97	BR	SHELD	-	В	œ	× 100	SHIELD	Μ	8S -	۵ د	_	۵ :	¥ ≻	> <sup>6</sup>	HG GR	S o	>								ı	V
AUTC	Connector No.	Connector Type			4		Terminal Color Of	Ñ.	2 2	9	7	æ £	13	14	15	18	19	П	Т	Т	П		Т	Т	32	33	35	36	37	38	44	46	47	20									
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						1	1									- 1																		
B454	Connector Name RECLINING MOTOR	Connector Type NS06FW-CS		36	elic bi	Of Signal Name [Specification]							1176	D400	e LIFTING MOTOR (FRONT)	- 1	NSUBTW-CS				45	200	19 31 23			Signal Name [Specification]			-	. ·	-			
Connector No.	Connector Nam	Connector Type		SH		Terminal Color Of No. Wire	9/M 6	16 0	Н	4	44 P			COLLINECTOL INC.	Connector Name	F	connector Type					₹ 			Terminal Color Of	No. Wire	╁	25 Y/B	H	37 G/W	45 L/R			
B452	DRIVER SEAT CONTROL UNIT	NS16FW-CS		33 35 36 TT 37 38 39	CC++++	Signal Name [Specification]	BAT (C/B)	SLIDING MOTOR (FORWARD)	RECLINING MOTOR (FORWARD)	FRONT LIFTING MOTOR (DOWNWARD)	REAR LIFTING MOTOR (UPWARD)	REAR LIFTING MOTOR (BACKWARD)	BAT (FUSE)	SCIDING MOTOR (BACKWARD)	RECLINING MOTOR (BACKWARD)	PROINT LIFTING MOTOR (UPWARD)	GND (POWER)			B453	Connector Name   SLIDING SENSOR		6098_0241		[		24 31 16				Signal Name (Specification)			
Connector No.		Connector Type	1	S.		Ferminal Color Of No. Wire	ď	W/R	G/Y	W/S	5	R/B	N.Y	o v	١.	¥ 4	۵		١	Connector No.	stor Name		Connector Type	•	1	Į	é	2			al	7	+	œ (
Connec	Connec	Connec				Termin No.	33	35	36	37	8	38	4 5	7,	4 ;	04	0			Connec	Conne		Connec	-	2		_	•			Termin	ġ Z	9 3	% 2
B451	DRIVER SEAT CONTROL UNIT	TH32FW		6 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	17   18   23   24   25   25   27   28   29   31   32	Signal Name [Specification]	RX	CAN-H	PULSE (RECLINING)	PULSE (RR LIFTING)	SLIDING SW (BACKWARD)	RECLINING SW (BACKWARD)	FRONT LIFTING SW (DOWNWARD)	NEAR LIFTING SW (DOWNWARD)	220	- IA	CAN-L	P RANGE SW	PULSE (SLIDING)	PULSE (FR LIFTING )	SLIDING SW (FORWARD)	RECLINING SW (FORWARD)	FRONT LIFTING SW (UPWARD)	KEAK LIFTING SW (UPWARD)	GND (SIGNAL)	(								
		Connector Type	1	V.	1	Ferminal Color Of No. Wire	ΓW	K/Y	M/G	B/B	88	SB	LG/R	9	o !	X/X	> !	١.	r	χ/Β	<b>-</b>	R/G	M/B	7 5	5 %									
Connec	Connec	Connec			1	Termin No.	-	က	6	9	=	12	2 3	<u> </u>	! ٩	- 9	20 (	17	24	52	56	27	78	S S	5 8									
		TH40FW-NH		2 4 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		Signal Name [Specification]	GROUND	BATTERY	IGNITION SIGNAL	ACC	ILLUMINATION SIGNAL	VEHICLE SPEED SIGNAL (8-PULSE)	REVERSE SIGNAL	CONTROL SIGNAL	CONIROL SIGNAL	AV COMM (H)	AV COMIM (L)	AV COMM (H)	AV COMM (L)		1	CAMERA IMAG	CAMERA IMAGE	SIDE CAMERA RH IMAGE SIGNAL		SIDE CAMERA RH GND	SIDE CAMERA RH COMM	SIDE CAMERA RH POWER SUPPLY	REAR CAMERA COMM	REAR CAME				REAR CAMERA IMAGE GND
TOMA for No.	Connector Name	Connector Type	1	S		Terminal Color Of No. Wire	В	≻	Ь	GR.	g l	SB	>  ;	> 0	n (	9	2 5	3	PI	<u>9</u>	9	>	SHIELD	<b>-</b> (	SHE	m	>	œ	٦	BR	SHIELD	ď	<u>}</u>	>
AUTON Connector No.	Connec	Connec		1		Termin: No.	-	2	က	4	2	9	<b>-</b>	n ç	2 !	/ 9	0 ;	17	22	53	24	27	78	8	3 8	32	33	34	32	36	37	88	စ္က	40

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	COLLINCT NO. D400	COLLINGTON INC.		38	а	
Connector Name LIFTING MOTOR (REAR)	Connector Name   WIRE TO WIRE	Connector Name	WIRE TO WIRE	38	. 0	
Connector Type NS06FBR-CS	Connector Type NS16MW-CS	Connector Type	TH40FW-CS15	40	BR	,
	•	_		41	J R	
				43	H H	- [With automatic drive positioner]
38	19 3 1 1 40	•	2	43	0	
C. 84	28 27 68 24 52	٠	20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	44	_	[Without automatic drive positioner]
<u>-</u> ]	0 00 17 04 70 00			44	^	- [With automatic drive positioner]
				45	+	[Without automatic drive positioner]
				45	+	<ul> <li>[with automatic drive positioner]</li> </ul>
Terminal Color Of Sizeal Manual Constitution	Terminal Color Of	Terminal Color Of	Control Name (Supplied	46	O	<ul> <li>[With automatic drive positioner]</li> </ul>
Wire	No. Wire olginar ratine [openindation]	No. Wire	orginal realing [openingation]	46	^	<ul> <li>[Without automatic drive positioner]</li> </ul>
10 P/B	- LW	-		49	GR	
	3 R/Y	2 B	,	20	В	•
	t	· >		22	۵	
	X	+		3 5	2 6	
	+	+		6	90	•
	L/Y	+		ħ	5	
	32 B/W	0 9		22	<b>.</b>	
	-	7 GR				
Connector No. B459		8 M				
	80	0		Connector No.	No.	
Connector Name PCWER SEAT SWITCH	Y/R	H			Γ	
Connector Type NS10FW-CS	a	H	,	Connector Name		DOOR MIRROR (DRIVER SIDE)
		12		Connector Type	Т	TH24MW-NH
	$\frac{1}{2}$	$^{+}$			1	
		+			,	
	-[	4	•		•	
39 14 29	Connector No. B461	4		_		<b>/</b>
	October Name SI IDINO MOTOR	_			_	
12 2/11/26 13/28				Ę	2 2 5	11 10 7 6 5 3 2
	Connector Type 6098-0239	18 G			*	23 22 24 16 18 17 14
		H				2 2
Terminal Color Of		20 W				
No. Wire Signal Name [Specification]		ŀ		Terminal	Color Of	
41 BB		- GC			Wire	Signal Name [Specification]
	35 42	$^{+}$		į c	D C	
_		23 BK		7	$\dashv$	
13 LG/R		24 ^	•	က	8	SIDE CAMERA LH COMM
_		25 GR		2	<b>\</b>	SIDE CAMERA LH IMAGE SIGNAL
_		+		ď	ľ	VIDE CAMERA I H DOWER SI IDDI V
27 B/G		Т			. ^	
_	Signal Name [Specification]	1 0			:	
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_	35 W/R	29 LG		+	Ь	•
	42 W/B	9 9		12	0	
		H		4	97	
		+		;	3 0	GIAO TOANITTI AGENTO TOTO
		+			ָפ פ	SIDE CAMERA LEI IMAGE GIND
		$\dashv$		18	٨	SIDE CAMERA LH GND
		-		19	В	
		╀		21	GR	
		98		22	28	
		_	1	22	BR	

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AUTOMATIC DRIVE POSITIONER									
23 Y	Ö	Connector No.	D31	Connector No.	D33		5 GR		
24 V -	Conr	Connector Name	WIRE TO WIRE	Connector Name	DOOR MIRROR (PASSENGER SIDE)		+	•	
					П		9 BR		
Ī	Sol	Connector Type	TH40FW-CS15	Connector Type	TH24MW-NH		10 BC		
Connector No. D5	-	•					+		
Connector Name SEAT MEMORY SWITCH		•					1 EG		
Connector Tune A08EW	_	•	25 25 27 27 20 20 20 20 20 20 20 20 20 20 20 20 20				5 2		Ī
		Ę	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Į	12 11 10 7 6 5 4 3		╀		
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K							╁	,	
	Tern	Terminal Color Of		Terminal Color Of	L	"	20 BG	,	
3 5   6 7 2 1 4	9	o. Wire	Signal Name [Specification]		Signal Name [Specification]	(1	-		
		7 R		3 M	Н	(4	Н		
	<u>"</u>	8 BR		$\exists$	$\dashv$	(4	23 G	•	
a	0,	$\dashv$		$\dashv$	SIDE CAMERA RH POWER SUPPLY	(4	4 P		
No. Wire		$\dashv$		9		(4	25 Y		
1 L -	_			_		(4			
2 BR -	-	14 B		10 G		(4	27 W	-	
3 GR .	_	15 W		11 GR			28 G	·	
L	Ē	16 BR		12 0		<u>"</u>	1 BG	-	
5 R	_	17 B		16 BR			32 W		
	_	18 R		17 G	SIDE CAMERA RH IMAGE GND		3 B		
7 P	_	19 Y		18 Y	SIDE CAMERA RH GND	(.)	34 R		
	20	0 B	- [With BOSE audio]	19 B		(,)		,	
	20	Н	- [Without BOSE audio]	21 P		()	36 SHIELD	D	
Connector No. D17	21	1 BR	<ul> <li>[Without BOSE audio]</li> </ul>	22 Y		.,	Н		
Connector Name OCOR MIRROR BENOTE CONTROL SWITCH	21	1 G	- [With BOSE audio]	23 W			38 BR		
╗	5	$\dashv$		24 ^		"	$\dashv$	-	
Connector Type TK16FBR	2					4			
	24	_				4		-	
	25	_		Connector No.	E106	4			
	2		,	Occasion Money	TOWN OF HOME	4	45 W	,	
	29	9 SHIELD				4	49 L		
	e			Connector Type	TH80FW-CS16-TM4	4)	50 P	-	
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ā	e,	4 GR				4,	59 W		
	8	35 G	-	S II S	* 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	•	Н		
4 BR .	4	43 Y			¥ 8	۳	61 G		
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	45					٩		-	
Н	46	Н	•	Jal	Of Signal Name (Specification)	٣		-	
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### **DRIVER SEAT CONTROL UNIT**

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22 B	Н	Н	29 W	Т			Connector No. M5		Connector Name WIRE TO WIRE	Connector Type TH40MW-CS15	1		1	1 2 3 4 5 6 7 3 9 10 11 12 13 14 15		23 80 84 80 50 20 20 20 20 20 20 20 20 20 20 20 20 20	_			Terminal Color Of Signal Name (Specification)	Wire	ı	2	2 6	+	+		9 -	7 R	W &	+	+	+	4	12 V -	13 B	- × × ×	ł	÷ a		+	18 G	- × 61	20		$^{+}$	23 6	24 Y
Corrector No. M1 Corrector Name FUSE BLOCK (JB) Corrector Type NS06FW/M2		T   T   T   T   T   T   T   T   T   T	]	8A 7A 6A 5A 4A			Terminal Color Of	No. Wire Signal Name [Specification]	1A GR	2A G	╀	۵	\ \ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	1	+	+				Connector No. M4	Г	Connector Name WIRE TO WIRE	Connector Type TH32EW-NH						16 15 14 8 7 6 5 4 3 2 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	02 12 02 02 02 02 02 02			la I	No. Wire Ognariwanie Operatorij	1 LG	SB	t	- 0	r 3	+	9	$\vdash$	╀	+	+	_	┞
Corrector No. F51 Corrector Name AT ASSEMBLY Corrector Type RK10FG-DGY	<		(5 4 3 2 1)	( 10 0 0 1 E	3 0 7		Terminal Color Of	Wire	1 Y IGNITION POWER SUPPLY	2 BR BATTERY POWER SUPPLY	ļ	>	- α	) >	+	+	2	9 GR SIARIER RELAY	8			Connector No. F301		Connector Name TCM (TRANSMISSION CONTROL MODULE)		Connector Type SP10FG	•	<		1	(1   2   3   4   5 )	T	9 10				No. Wire Signal Name [Specification]		A Iddition and the control of the co		CAN-T	4 K-LINE	5 - GROUND	OILIO	-	-		10 - GROUND
AUTOMATIC DRIVE POSITIONER  70 W	BR - [With ICC]		W - [Without ICC]	Y - [Without ICC]	P - [Without ICC]	R - IWith ICCI		L - [With ICC]	L - [Without ICC]	Y - [With ICC]		α.	a a	Se S	2			,		GR .	SHIELD .	M	>	-  >	^ :	. 97	BG -																					
AUTO	74	75	/s	9/ 9/	11	11	78	78	6/	79	08	200	8	20 00	8 8	ŧ 8	82	98	87	68	06	9	92	1 60	28	<b>25</b>	95	96	26	86	8 8																	

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AUTOMA	AUTOMATIC DRIVE POSITIONER									
25 GR		_	>		71	97		Connector No.	or No.	M7
26 R		6	F	-	72	>				
27 W		10	H		73	SB	,	Connec	Connector Name	WIRE TO WIRE
28 SHIELD		7	_		74	æ	- [With ICC]	Connec	or Type	Connector Type TH80MW-CS16-TM4
29 Y		12	BG BG		74	_	- [Without ICC]			
30 ⊀		13	~	,	75	Ø		_	7	
31 R		14	27		92	Ě	- [Without ICC]		•	* 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
32 BR		15	۵.		9/	≥	- [With ICC]	_	į	
┝		16	┝		77	H	- [Without ICC]	_	É	8 8 8
H		17	SB /		77	œ	- [With ICC]	4	Ĉ	
35 P	,	18	H	-	78	$\vdash$	- [With ICC]			
H		20	) BG		82	œ	- [Without ICC]			
37 BR	,	5	┝	,	79	┝	- [Without ICC]	Terminal	Color Of	3 3 3
38 P		22	W W		79	>	- [With ICC]	S.	Wire	Signal Name [Specification]
┝		23	╀		8	┞		e	SB	- [With automatic drive positioner]
40 SB		24	F		81	SB		က	Μ	- [Without automatic drive positioner]
┝		25	>		82	g		5	ტ	
H		26	>		88	>		9	BG	
43 BR		27	┝		8	ŋ		7	Μ	
┝		28	9		85	-		80	В	
45 G	,	33	H		98	<u>a</u>		12	SB	
"	- [With automatic drive positioner]	32	0		87	╀	,	43	97	
H	<ul> <li>[Without automatic drive positioner]</li> </ul>	33	H		68	GR		14	۰	
49 P		8	H		8	SHIELD		15	Ø	
ŀ	,	38	H		91	t		17	×	,
52 R		36	S.		65	+		120	es:	
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		4	+		S	+	-	3 3	-	
		45	BG Z		97	T		24	>	ř
Connector No.	M6	46	+	-	86	Ξ	-	27	В	
Connector Name	WIRE TO WIRE	42	Α		66	$\dashv$		28	×	
		49	-	-	100	SB	-	53	œ	
Connector Type	Connector Type TH80MW-CS16-TM4	20	-	-				30	SHIELD	
		51	BB					31	_	
_	9	54	<b>≻</b>					32	Ь	
	12	57	L					33	SB	
•	X   1   2   2   2   2   2   2   2   2   2	29	<b>∧</b>					35	_	
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Ź	14	9	9					36	_	
		8	ľ					37	۵	
	]	3 8	+					ē a	- 0	
		5 3	+	'				3 8	ś;	•
ā	Signal Name [Specification]	2 2	+					R :	-	
No. Wire	,	ŝ	4					44	_	
+		99	╗					42	GR	
4	•	67	တ်	. ·				46	LG	,
- 1		89	$\dashv$	-				47	SB	
4 SHIELD		69	9 GR					49	^	
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JRJWC0918GB

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

< ECU DIAGNOSIS INFORMATION >

[WITH ADP]

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Corrector No.   M49	B C D
Terminal	Е
M31 TILT & TELESCOPIC SWITCH TK06FGY  Signal Name [Specification]  Signal Name [Specification]  TK0AFW  Signal Name [Specification]	F
TILT 8. TK04FV	G
Corrector No.  Corrector Name Corrector Type  Terminal Color Of No.  Corrector Name Corrector Na	Н
Signal Name [Specification]  BAT  CLOOK  DATA  ILL BAT  I	I
M24 DATAL	J
1   No   Wire   2   0   No   Wire   2   No   Wire   2   No   Wire   3   No   Wire	K
AUTOMATIC DRIVE POSITIONER  60	MIR
IC DRIVE P	M
AUTOMATIC DR  AUTOMATIC DR  60 SHELD  65 SHELD  66 SHELD  66 SHELD  66 SHELD  67 V  68 SHELD  70 W  77 W  78 P  78 P  78 P  79 GR  85 LG  85 LG  90 BG  91 G  92 V  93 BR  94 V  95 G  95 G  96 G  97 W  98 BR  90 BG  91 C  92 V  93 BR  94 V  95 G  95 G  96 G  97 W  98 BR  90 BG  91 C  92 C  93 BR  94 V  95 G  95 BR  96 G  97 W  98 BR  98 BR  99 BR  90 BG  90 BR  90 BG  90 BG  90 BR  90 BG  90	N
AUT    Commerce   Comm	0
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**MIR-43** 2014 QX50 Revision: 2013 March

	T		]		Г	21	4	<b>.</b>			_	> iddi i	UTPUT		JIPUT	OUTPUT	TU-			T GND		6	(				1						12 00	St St St			<u></u>			+				_
M440	COLUMN TO COLUMN TO THE COLUMN TO CO	BOM (BODT CONTROL MODULE)	JOFW-C3			4 5 7	11 13 14 15 17 18 11	2			Signal Name [Specification]	VIGERIOR BOWLE AND BOWLE IN INC.	PASSENGER DOOR UNLOCK OUTPU	STEP LAMP CONT	ALL DOOR, FUEL LID LOCK OUTPUT	DRIVER DOOR, FUEL LID UNLOCK OUTPU'	REAR DOOR UNLOCK OUTPUT	BAT (FUSE)	GROUND	PUSH-BUTTON IGNITION SW ILL GND	ACC IND	TURN SIGNAL RH (FRONT)	TURN SIGNAL LH (FRONT)	INT ROOM LAMP CONT			M122	BCM (BODY CONTROL MODULE)	TH40FB-NH				88 80 80 80 80 80 80 80 80 80 80 80 80 8	20 SE			0.000	Signal Name [Specification]	PASSENGER DOOR ANT-	PASSENGER DOOR ANT+	DRIVER DOOR ANT-	DRIVER DOOR ANT+	ROOM ANT1-	THE POOD
	1		7	•	•		٧ =	į			0	Wire	T	>	>	o o	BR	ч	В	W	>	W	BG	>			Connector No. M	Connector Name BC	Connector Type Th		1	•	ē	į			al Color Of	Wire	SB	GR	^	P	>	0
On reference			Colline	_		_	<b>\</b>	1			Termina	ġ <	r so	7	œ	6	10	11	13	14	15	17	18	19		Į	Connec	Connec	Connec				`	4			Terminal	No.	74	75	9/	77	78	1
INNOIS ACE	Α	EACH DOOR MOTOR POWER SUPPLY				M72	HOTING NOITONIBIT IIIM	. 1	TH16FW-NH				4 8 8	,	8 2 2 1		Of State   Specifical		9	ACC		ILL CONT	AV COMM (H)	AV COMM (L)		DIS	HAZARD ON		M118	BCM (BODY CONTROL MODILLE)	Т	M03FB-LC			1 3		2			Of State Sta			POWER WINDOW POWER SUPPLY(BAT)	
39	+	70 R	72 P			Connector No.	Connector Name	COLLEGE ING	Connector Type		_	\	Ę	Ç.			Terminal Color Of	No. Wire	1 B	3 ^	4 R	5 Y	e SB	9 FC	9 6	-	16 G		Connector No.	Connector Name		Connector Type	_	,		Ę	Ċ			Terminal Color Of	No. Wire	1 W	2 W	
Construction No. M.C.)	COLLECCIONO. MIDZ		_					7			la O	No. Wire	2 SB			Connector No. M67	Connector Name   INITIES METER AND ALC AMB		Connector Type TH32FW-NH					41 42 43 44 45 46 47 53 54 55 56	57 58 59 60 62 63 65 65 70 71 72			Terminal Color Of Signal Name [Specification] No. Wire	t	42 Y FUEL LEVEL SENSOR SIGNAL	œ !	44 LG IN-VEHICLE SENSOR SIGNAL	- 188	G EXHAUS	0	>	m	٦	57 W BRAKE FLUID LEVEL SWITCH SIGNAL	58 BR FUEL LEVEL SENSOR GROUND	GR		BR	
AUTOMATIC DRIVE POSITIONER	MIRROR SW (DOWNWARD)	MIRROR SW (RIGHTWARD)	MIRKOR SENSOR (RH HORIZONIAL) MIRROR SENSOR (LH HORIZONTAL)	TELESCOPIC SENSOR	SET SW	ADDRESS2				MIRROR MOTOR (LH VERTICAL)	MIRROR MOTOR (LH HORIZONTAL)		M52		AUTOMATIC DRIVE POSITIONER CONTROL UNIT	NS16FW-CS				33 34 35 36	]-	40 41 42 44 48			Signal Name (Specification)			BAT (FUSE) TILT MOTOR (UPWARD)		BAT (C/B)	GND(SIGNAL)	GND(SENSOR)	TELESCOPIC MOTOR (BACKWARD)	GND(POWER)	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\									
OMA -	SB	H	+	╀	æ	H	λ.		-	၅ .	_		Connector No.		Connector Name	Connector Type		7	•		Š	î			lal	>	$\dashv$	ж _	H	Н	m ;	÷ 6	+	0	4									
<b>}</b> [	19	20	72	23	24	25	56	27	99	31	32		Com		8	Con					1	•			Term	Š	33	8 8	36	38	40	4 47	4	- 48										

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### **DRIVER SEAT CONTROL UNIT**

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Mi37   Corrector No.   Mi37   Corrector No.   Mi37   Corrector Type   THI2FVANH	2 V		
34 V 35 G 43 G 43 G 43 G 64 G 65	MOSFWLC   MOSF	Cornector No. M126 Connector Name WIRE TO WIRE Connector Type M03MW-LC	1 3
140   GR   SEURIT NIP   141   G   SEURITY IND LAMP CONT   142   B-G   COMBI SWI OUTPUT 5   143   P   COMBI SWI OUTPUT 1   144   G   COMBI SWI OUTPUT 1   145   L   COMBI SWI OUTPUT 1   146   SB   COMBI SWI OUTPUT 3   146   SB   COMBI SWI OUTPUT 4   150   LG   DRIVER DOOR SWI 151   G   REAR WINDOW DEFOGGER RELAY CONT   COnnector Name WIRE TO WIRE   COnnector Name WIRE TO WIRE   COnnector Name WIRE TO WIRE   CONNECTOR NAME   CON	H.S.		SB SB SH
AUTOMATIC DRIVE POSITIONER  81 W NATSANTAMP  82 R IGNELAY (FB) CONT  83 Y KEVLESSE BRINTW FEBURE COMM  84 Y COMBI SWINPUT 5  95 LG COMBI SWINPUT 5  96 LG KEY SLOT ILL CONT  97 V CONNO  98 Y PUDDLE LAMP CONT  99 R Y PUDDLE LAMP CONT  99 GR AT SHAFT PERCOUSET SWINPUT  99 R AT SHAFT PERCOUSET SWINPUT  90 R AT SHAFT PERCOUSET SWINPUT  91 R AT SHAFT PERCOUSET SWINPUT  91 R AT SHAFT PERCOUSET SWINPUT  92 R AT SHAFT PERCOUSET SWINPUT  93 R AT SHAFT PERCOUSET SWINPUT  94 R AT SHAFT PERCOUSET SWINPUT  95 R AT SHAFT PERCOUSET SWINPUT  96 R AT SHAFT PERCOUSET SWINPUT  97 R AT SHAFT PERCOUSET SWINPUT  98 R AT SHAFT PERCOUSET SWINPUT  98 R AT SHAFT PERCOUSET SWINPUT  98 R AT SHAFT PERCOUSET SWINPUT  99 R AT SHAFT PERCOUSET SWINPUT  99 R AT SHAFT PERCOUSET SWINPUT  90 R AT SHAFT PERCOUSET SWINPUT  91 R AT SHAFT PERCOUSET SWINPU	102   BG   BLOWERS PANNOTOR PRELAY CONT   103   LG   KEVIESS BITRY RECOVER POWER SIPPLY   107   LG   COMBI SW INPUT   1   108   Y   COMBI SW INPUT   1   109   Y   COMBI SW INPUT   1   110   G   HAZARD SW   HAZARD SW   Connector Name   BCM (BODY CONTROL MODULE)   Connector Name   CONTROL MODULE)   Connector Name   CONTROL MODULE)   Connector Name   CONTROL MODULE)   CO	H.S.	SB

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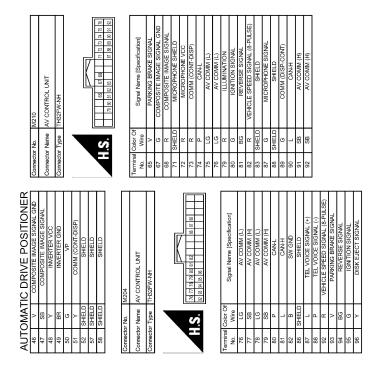
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Fail Safe

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

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

#### < ECU DIAGNOSIS INFORMATION >

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Operating in fail-safe mode	Malfunction Item	Related DTC	Diagnosis
	CAN communication	U1000	<u>ADP-44</u>
Only manual functions operate normally.	Tilt sensor	B2118	ADP-49
Only manual functions operate normally.	Telescopic sensor	B2119	ADP-52
	Detention switch	B2126	<u>ADP-55</u>
Only manual functions, except door mirror, operate normally.	UART communication	B2128	ADP-57
Only manual functions, except seat sliding, operate normally.	Seat sliding output	B2112	ADP-45
Only manual functions, except seat reclining, operate normally.	Seat reclining output	B2113	ADP-47

DTC Index

CONSULT	Tim	ing <sup>*1</sup>		
display	Current mal- function	Previous mal- function	Item	Reference page
CAN COMM CIRCUIT [U1000]	0	1-39	CAN communication	ADP-44
SEAT SLIDE [B2112]	0	1-39	Seat slide motor output	ADP-45
SEAT RECLINING [B2113]	0	1-39	Seat reclining motor output	ADP-47
TILT SENSOR [B2118]	0	1-39	Tilt sensor input	ADP-49
TELESCO SENSOR [B2119]	0	1-39	Telescopic sensor input	ADP-52
DETENT SW [B2126]	0	1-39	Detention switch condition	ADP-55
UART COMM [B2128]	0	1-39	UART communication	ADP-57

<sup>\*1:</sup> 

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

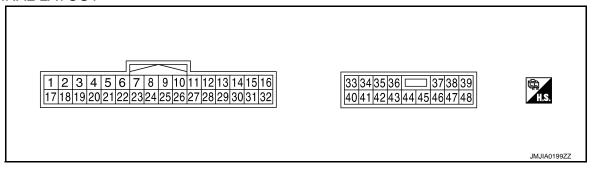
<sup>• 1-39:</sup> Displayed if any previous malfunction is present when current condition is normal. The numeral value increases by one at each IGN ON to OFF cycle from 1 to 39. The counter remains at 39 even if the number of cycles exceeds it. However, the counter is reset to 1 if any malfunction is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

[WITH ADP]

### AUTOMATIC DRIVE POSITIONER CONTROL UNIT

Reference Value

#### **TERMINAL LAYOUT**



#### PHYSICAL VALUES

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

< ECU DIAGNOSIS INFORMATION >

[WITH ADP]

Terr	minal No.		Description				
+	-	Wire color	Signal name	Input/ Out- put	Conditi	on	Voltage (V) (Approx.)
11	Ground	GR	Telescopic switch for-	Input	Telescopic	Operate (forward)	0
	Ground	OIC	ward signal	mput	switch	Other than above	5
				Out-	Memory indictor	Illuminate	0
12	Ground	BG	Memory indictor 1 signal	put	1	Other than above	Battery voltage
				Out-	Memory indictor	Illuminate	0
13	Ground	Р	Memory indictor 2 signal	put	2	Other than above	Battery voltage
14	Ground	W	Door mirror motor (RH)	Out-	Door mirror RH	Operate (up)	Battery voltage
14	Ground	VV	up output signal	put	Door Hillion Kin	Other than above	0
15	Ground	G	Door mirror motor (RH)	Out-	Door mirror RH	Operate (left)	Battery voltage
15	Ground	G	left output signal	put	Door Hillfor KH	Other than above	0
			Door mirror motor (LH)			Operate (down)	Battery voltage
10	0	V	down output signal	Out-	D	Other than above	0
16	Ground	Y	Door mirror motor (LH)	put	Door mirror (LH)	Operate (right)	Battery voltage
			right output signal			Other than above	0
47	Ground	10/	Tile quitab davin aignal	lan: it	Tile queitale	Operate (down)	0
17	Ground	W	Tilt switch down signal	Input	Tilt switch	Other than above	5
-			Oh an ana anni tala 111		Oh a sa sa sa sa sa	LH	0
18	Ground	Р	Changeover switch LH signal	Input	Changeover switch position	Neutral or RH	5
10	Ground	CD	Mirror switch down sig-	lan. it	Naimen enritele	Operate (down)	0
19	Ground	SB	nal	Input	Mirror switch	Other than above	5
	0	DD	Minney ovitely six to a	lee '	Misson with	Operate (right)	0
20	Ground	BR	Mirror switch right signal	Input	Mirror switch	Other than above	5
21	Ground	L	Door mirror sensor (RH) left/right signal	Input	Door mirror RH po	osition	Change between 3.4 (close to left edge) 0.6 (close to right edge)
22	Ground	G	Door mirror sensor (LH) left/right signal	Input	Door mirror LH po	sition	Change between 0.6 (close to left edge) 3.4 (close to right edge)
23	Ground	Р	Telescopic sensor signal	Input	Telescopic positio	n	Change between 0.8 (close to top) 3.4 (close to bottom)

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		10313	INFORMATION >				
Teri	minal No.	14"	Description	T			V 16 0.0
+	-	Wire color	Signal name	Input/ Out- put	Condition	on	Voltage (V) (Approx.)
						Push	0
24	Ground	R	Set switch signal	Input	Set switch	Other than above	5
-						Push	0
25	Ground	SB	Memory switch 2 signal	Input	Memory switch 2	Other than above	5
26	Ground	Υ	UART communication (RX)	Input	Ignition switch ON	I	10mSec/div 2V/div JMJIA0121ZZ
27	Ground	G	Telescopic switch back- ward signal	Input	Telescopic switch	Operate (back- ward)	0
			ward Signal		SWIGH	Other than above	5
			Door mirror motor (RH)			Operate (down)	Battery voltage
30	Ground	R	down output signal	Out-	Door mirror (RH)	Other than above	0
30	Ground	IV.	Door mirror motor (RH)	put	Door million (RCI)	Operate (right)	Battery voltage
			right output signal			Other than above	0
31	Ground	LG	Door mirror motor (LH)	Out-	Door mirror (LH)	Operate (up)	Battery voltage
	Ground	LO	up output signal	put	Door Hillion (El I)	Other than above	0
32	Ground	L	Door mirror motor (LH)	Out-	Door mirror (LH)	Operate (left)	Battery voltage
	Ground	_	left output signal	put	Boot millor (Err)	Other than above	0
33	Ground	R	Sensor power supply	Input			5
34	Ground	R	Power source (Fuse)	Input	_		Battery voltage
35	Ground	L	Tilt motor up output sig-	Out-	Steering tilt	Operate (up)	Battery voltage
33	Ground	_	nal	put	Oldering the	Other than above	0
36	Ground	GR	Telescopic motor for-	Out-	Steering tele-	Operate (forward)	Battery voltage
_	Ciodila	JIX	ward output signal	put	scopic	Other than above	0
39	Ground	SB	Power source (C/B)				Battery voltage
40	Ground	В	Ground				0
41	Ground	Υ	Sensor ground	_	_		0

#### < ECU DIAGNOSIS INFORMATION >

[WITH ADP]

Teri	minal No.		Description				
+	-	Wire color	Signal name	Input/ Out- put	Conditi	on	Voltage (V) (Approx.)
42	Ground	BG	Tilt motor down output	Out-	Steering tilt	Operate (down)	Battery voltage
42	Giodila	ВО	signal	put	Steering till	Other than above	0
44	Ground	G	Telescopic motor back- ward output signal	Out-	Steering tele- scopic	Operate (back- ward)	Battery voltage
			waru output signai	put	Scopic	Other than above	0
48	Ground	В	Ground	-	_		0

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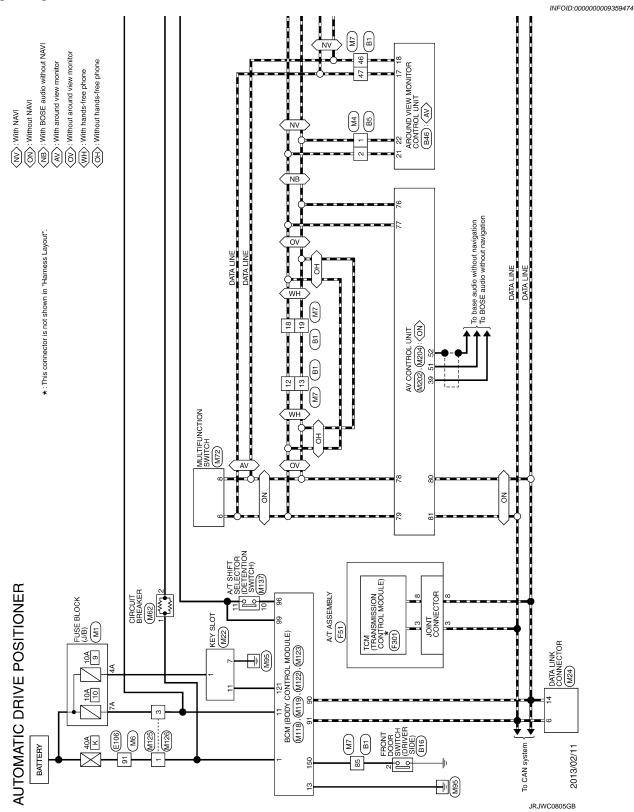
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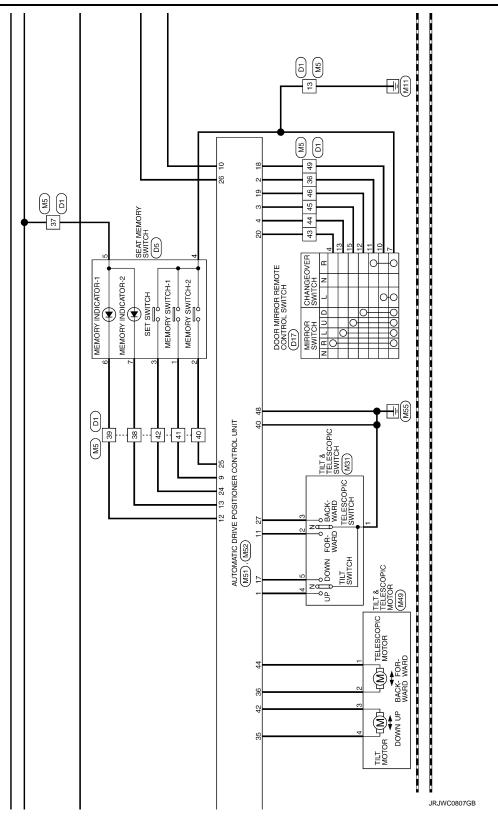
Wiring Diagram - AUTOMATIC DRIVE POSITIONER CONTROL SYSTEM -

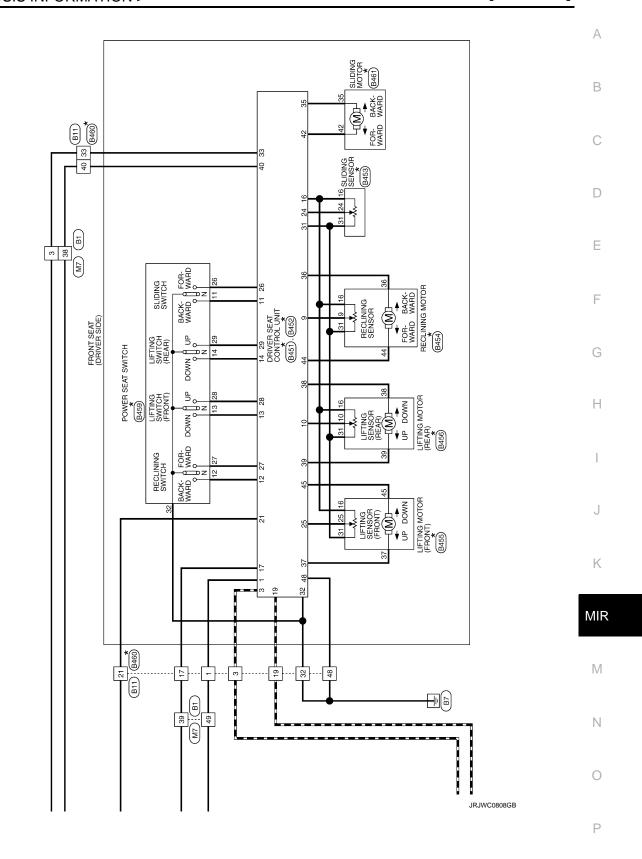


< ECU DIAGNOSIS INFORMATION >

[WITH ADP] Α В C D AUTOMATIC DRIVE POSITIONER CONTROL UNIT (M51) · (M52) Е F G Н To BOSE audio with navigation Κ MIR  $\mathbb{N}$ AV CONTROL UNIT Ν 0 JRJWC0806GB

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

	MAI	AUTOMATIC DRIVE POSITIONER				ا ا				
Connector No.	r No.	B1	9	۵		<u>ଃ  </u>	Connector No.	B5	Connector No.	B11
Connector Name	r Name V	WIRE TO WIRE	6 6	SHELD		<u>8</u>	nnector Name	Connector Name WIRE TO WIRE	Connector Name	Connector Name WIRE TO WIRE
Connector Type	Т	TH80FW-CS16-TM4	63	Т		8	Connector Type	TH32MW-NH	Connector Type	NS16FW-CS
	١.		64	П		I .	,			
	1	4 9	89	ά			\			
_	Ţ		8 29	>		T	•			
•	e	4 2 2	88	Ľ		T	Ę	1 2 3 4 5 6 7 8 14 15 16	Ů,	40 17 1 3 19
1	į	A W W W W W W W W W W W W W W W W W W W	69	Ś	-		Ċ	21 22 23 24 25 35 27 28 29 30 31	Ċ	60 67 33 21 48 32 66
			70	Г		 		1		
			73	SB						
Terminal Color Of	Color Of	Signal Name (Specification)	74	Н		e_	la l	Signal Name (Specification)	lar	Signal Name [Specification]
No.	Wire		75	$\dashv$		_ 	No. Wire		No. Wire	
က	œ		9/	$\dashv$		I	1 LG		٦ ص	
2	ŋ		77	œ			2 SB		3	
9	SB		78	Н			3 \			
7	۸		79	_	-		4 R		19 P	•
	1	•	83	BG			2 M		21 V	
	SB		82	Н	-		9		32 B	•
	97	•	98	PT			97 LG		H	
П	GR		87	┝	,	L_ Г	8 8		┞	
	97		88	H	•		L		48 B	
П	>		88	H			Ľ		L	
П	SB		06	BG		 	L		66 GR	
Г	97		91	H		L	H		┝	,
Т	æ		92	H		<u></u>	22 B			
П	SHIELD		93	H		L	23 SHIELD			
Т	>	1	98	SB		L	╀		Connector No.	B16
24	۵		92	H		l	H			
27	m		96	╀		<u></u>	╀		Connector Name	Connector Name FRONT DOOR SWITCH (DRIVER SIDE)
28	œ		96	*		 	27 W		Connector Type A03FW	A03FW
59	×		66	GR		L	28 R			
30	SHIELD					L_ ]	29 L		_	E
П	SHIELD					<u> </u>	30 SHIELD			K
32	W						31 Y			<u> </u>
33	SB								O II	2
34	٦									
32	۵									]
36	٦									
37	۵								Terminal Color Of	Signal Name [Specification]
88	#								No. Wire	
38	>	•							2	•
44	>									
45	S.	•								
46	<u></u>									
47	SB									
49	<sub>o</sub>									
20	^									

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Corrector No. 8454 Corrector Type NSOBFW-CS  Till 319	Terminal   Color Of   Number   Signal Name   Specification   Number   Signal Name   Specification   Sp	
Corrector No. B452  Corrector Name DRIVER SEAT CONTROL UNIT  Corrector Type NISTEM-C.S.    33   36   36   36   38   38   38   38	Terminal Color Of   Signal Name   Specification   No. Wire   State	
Corrector Nume   DRIVER SEAT CONTROL UNIT  Corrector Type   THE2FW	OI Signal Name [Specification]  RX  RX  CAN-H  PULSE (RECLINNS)  PULSE (RECLINNS)  PULSE (RECLINNS)  SLIDING SW (DOWNWAY  REAR LIFTING SW (DOWNWAY  PULSE (RELINNS)  PULSE (RELINNS)  PULSE (RELINNS)  PULSE (RELINNS)  PULSE (RELINNS)  PULSE (RELINNS)  REAR LIFTING SW (LPWARE)  RECLINNG SW (LPWARE)  REAR LIFTING SW (LPWARE)  RECLINNG SW (LPWARE)  REAR LIFTING SW (LPWARE)  RECLINNS SW (LPWARE)  REAR LIFTING SW (LPWARE)  RECLINNG SW (LPWARE)  REAR LIFTING SW (LPWARE)  RECLINNG SW (LPWARE)  REAR LIFTING SW (LPWARE)	
AUTOMATIC DRIVE POSITIONER Corrector New Andrew New MONITOR CONTROL UNIT Corrector Type THAGEWARH  THAGEWARH  A THAGEWARH  LE E E E E E E E E E E E E E E E E E E	Terminal Color Of   Signal Name (Specification)   No.   Wire   Signal Name (Specification)   1	
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**MIR-57** Revision: 2013 March 2014 QX50

AUTOMATIC DRIVE POSITIONER	O DAGO		ă	2	4	
	1	COLLINGTON	Т	ò	۱ د	
Connector Name LIFTING MOTOR (REAR)	Connector Name WIRE TO WIRE	Connector Na	Connector Name WIRE TO WIRE	8 8	_ <	
Connector Type NS06FBR-CS	Connector Type NS16MW-CS	Connector Type	De TH40FW-CS15	8 04	8	
				41	٦	
		_		42	GR.	
		\		43	BR	<ul> <li>[With automatic drive positioner]</li> </ul>
38	10 3 1 1 10 40		0 0 1 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	43	0	<ul> <li>[Without automatic drive positioner]</li> </ul>
<u> </u>		SE.	8 K K K K K K K K K K K K K K K K K K K	44	GR	<ul> <li>[Without automatic drive positioner]</li> </ul>
16 31 10	66 32 48 21 33 67 60		20 20 20 20 20 20 20 20 20 20 20 20 20 2	44	Μ	<ul> <li>[With automatic drive positioner]</li> </ul>
				45	9	<ul> <li>[Without automatic drive positioner]</li> </ul>
				45	>	<ul> <li>[With automatic drive positioner]</li> </ul>
<u>a</u>	Terminal Color Of Signal Name (Specification)	Terminal Color Of	or Of Signal Name (Specification)	46	9	<ul> <li>[With automatic drive positioner]</li> </ul>
Olginal Hallin		No.		46	Н	<ul> <li>[Without automatic drive positioner]</li> </ul>
	1 L/W	-	R .	49	Ŭ	
		2	В .	20	В	
31 GR -	17 Y/R -	3		25	ď	
_		4		23	SB	-
39 R/B -	21 L/Y .	2		52	0	
	32 B/W -	9	. 0	92	>	
	33 R	7	GR .			
Connector No. B459	40 R/W -	80	,			
CHANG HALO GLINOCO	48 B	6	. 0	Connector No.	tor No.	D3
CONTRECTOR INSTITUTE PROVIDER SEAT SWITTER	60 Y/R	10	BR .		:	
Connector Type NS10FW-CS	╁	+		Connec	Connector Name	DOOR MIRROR (DRIVER SIDE)
	H	12	91	Connec	Connector Type	TH24MW-NH
		╀	8			
		14		_	7	
	Connector No. B461	╀			1	
32		╀			Į	
12 27 11 26 13 28	Connector Name SLIDING MOTOR	+		_	Ċ	12 11 10 7 6 5 3 2
	Connector Type 6098-0239	+	9		į	22 22 23 24 24 25 24
		╁				11 81 81 17 77 67
Terminal Color Of		╁				
No. Wire Signal Name [Specification]		H		Termina	Terminal Color Of	
		╀	-	ž	Wire	Signal Name [Specification]
┝	35 42	┝	BR .	2	0	
13 LG/R -		24		က	В	SIDE CAMERA LH COMM
┝		H	GR .	2	>	SIDE CAMERA LH IMAGE SIGNAL
⊢		56	,	9	œ	SIDE CAMERA LH POWER SUPPLY
27 RVG -	Terminal Color Of	H		_	×	
28 W/B	No. Wire Signal Name [Specification]	Г	SHIELD .	19	o	
⊢	35 W/R	H	- 91	-	۵	
	42 W/B	30	. 9	12	0	
		31		4	9	
		32		17	G	SIDE CAMERA LH IMAGE GND
		33		18	8	SIDE CAMERA LH GND
		Н	SB - a	19	В	-
		L		21	GR	
		Н	re ·	22	BR	
		Н	9		22	+

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Connector No.   D31	DOOR MIRROR (PASSENGER SIDE)  TH-2AMW-ANH    2   1   10     7   6   5   4   3	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	
Signal Name   Specification    Signal Name   Specification  Signal Name   Specification    Signal Name   Specification  Signal Name   Specification    Si	The AMW-NAT	- K	
Signal Name   Specification    Signal Name   Specification	The AMM-NH    1   10     7   6   5   4   3		
Signal Name   Specification    Signal Name   Specification	Signal Name (Sheerifeation)	8 8 8 1	
Signal Name   Specification    Signal Name   Signal Name   Specification    Signal Name   Signal Name   Specification    Signal Name	2   1   10     1   6   5   4   3		
3 5   6 7 2 1 4	SIDE CAMERA RH GND		
Corrector Number   Corrector N	1   10     7   6   5   4   3	X σ > 8 > 8 → 0 σ > > 8 ⊗ α α α α α α α α α α α α α α α α α α	
Signal Name   Specification    Signal Name   Sig	Of Signal Name (Specification) Signal Name (Specification) Signe CAMERA RH COMM SIDE CAMERA RH HOWER SIGPLY SIDE CAMERA RH INAGE GND SIDE CAMERA RH INAGE GND SIDE CAMERA RH GND	1	
3   5   6   7   2   1   4	Of Signal Name (Specification) Signal Name (Specification) Signal Name (Specification) Side CAMERA RH POWER SUPPLY Side CAMERA RH POWER SUPPLY Side CAMERA RH GND Side CAMERA RH GND		
Signal Name   Specification    Name   Specification    Name   Specification    Name   Specification    Name   Specification    Name	Signal Name [Specification] SIDE CAMERA RH IMAGE SIGNAL SIDE CAMERA RH IMAGE SIGNAL SIDE CAMERA RH IMAGE GND SIDE CAMERA RH IMAGE GND SIDE CAMERA RH GND  SIDE CAMERA RH GND	6	
Signal Name [Specification]   Terminal Color Of Signal Name [Specification]   Terminal Color Of Signal Name [Specification]   Terminal Color Of Name   The Name   The Name   Terminal Color Of Name   The Name   The Name   The Name   The Name   The Name   Terminal Color Of Name   The Name   Th	Signal Name (Specification) SIDE CAMERA RH ROOMER SIDE CAMERA RH POWER SIDE CAMERA RH POWER SIDE CAMERA RH FOOMER SIDE CAMERA RH GND	© → > © ← × > ≥ © ⊗ ≥ a a	
3   5   6   7   2   1   4	Signal Name (Specification) Signal Name (Specification) SIDE CAMERA RH HAGE SIGNAL SIDE CAMERA RH POWER SUPPLY SIDE CAMERA RH GND SIDE CAMERA RH GND  SIDE CAMERA RH GND  SIDE CAMERA RH GND  SIDE CAMERA RH GND	3 → > 0	
Signal Name (Specification)   2	SIDE CAMERA RH INAGE SIGNAL SIDE CAMERA RH INAGE SIGNAL SIDE CAMERA RH INAGE GND SIDE CAMERA RH INAGE GND SIDE CAMERA RH GND SIDE CAMERA RH GND	> 0 4 > > 8 0 8 8 8	
Signal Name [Specification]   12   15   16   17   16   18   17   17   18   18   19   19   19   19   19   19	SIDE CAMERA RHIMAGE SIGNAL SIDE CAMERA RH POWER SUPPLY  SIDE CAMERA RH MAGE GND SIDE CAMERA RH GND  SIDE CAMERA RH GND	O     a     >     >     a	
Signal Name [Spacification]   9	SIDE CAMERA RH POWER SUPPLY  SIDE CAMERA RH GND  SIDE CAMERA RH GND  SIDE CAMERA RH GND		
Signal Name [Specification]   12   P   P   P   P   P   P   P   P   P	SIDE CAMERA RH IMAGE GND SIDE CAMERA RH GND	> > M O W N N N N N N N N N N N N N N N N N N	
13   Li   Li   Li   Li   Li   Li   Li   L	SIDE CAMERA PH INVAGE GND SIDE CAMERA PH GND	-	
14   2   2   2   2   2   2   2   2   2	SIDE CAMERA RH IMAGE GND SIDE CAMERA RH GND	> M & & & & & & & & & & & & & & & & & &	
15   W   17   GR   16   BR   17   GR   16   BR   17   GR   16   BR   17   GR   18   GR   18   GR   18   GR   19	SIDE CAMERA RH IMAGE GND SIDE CAMERA RH GND .	S O B A A	
15   87   17   18   19   17   18   19   19   19   19   19   19   19	SIDE CAMERA RH GND SIDE CAMERA RH GND	D S ⊗ B 0	
17   18   18   19   19   19   19   19   19	SIDE CAMERA RH IMAGE GND SIDE CAMERA RH GND	S × 8	
17	SIDE CAMERA RH GND SIDE CAMERA RH GND .	M 8 W	
19	SIDE CAMERA RH GND SIDE CAMERA RH GND	8	
19	SIDE CANEERA RH GND		
20 R		æ	
20 R - Vilvous BOSE audio    22   Y   Vilvous BOSE audio    22   Y   Vilvous BOSE audio    23   W   Vilvous BOSE audio    24   V   Vilvous BOSE audio    23   W   Vilvous BOSE audio    24   V   Vilvous BOSE audio    23   W   Vilvous BOSE audio    24   V   Vilvous BOSE audio    23   W   Vilvous BOSE audio    24   V   V   Vilvous BOSE audio    23   W   Vilvous BOSE audio    24   V   V   V   V   V   V   V   V   V			
1   1   1   1   1   1   1   1   1   1			
Signal Name   Specification    Signal Name   Specification		^	
Signal Name   Specification    Specification    Signal Name   Specification    Specificat		BR	
Signal Name   Specification    Signal Name   Specification		BG	
24 W   25 SB   26 R   26 R   27 W	CV	*	
Signal Name   Specification    Specifi		: @	
1   1   2   3   3   4   2   5   5   5   5   5   5   5   5   5	100	0 8	
	001	Yo .	
1   4       2   3   3   3   4     2   3   3   4   4     3   3   4   4   4		M	
		$\dashv$	
	TH80FW-CS16-TM4	0 P	
Signal Name (Specification)   34   C8	51	7	
Signal Name (Specification)   34 GR   1   1   1   1   1   1   1   1   1	FERE 54	BG	
Signal Name (Specification)   34 GR		88	
Signal Name (Specification) 34 G		š	
33 V V V V V V V V V V V V V V V V V V		Α :	
43 Y Y 44 A A A B D A A A A B D A A A A B D A A A B D A A A B D A A A B D A A A B D A A A A	2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	+	
- 44 V		_	
- 44 D		2 SB -	
1	89	*	
AR W		: 0	
	Signal Name (Specification)	٥	
. 52 G	O'STIRL ASTINCTION		
. 53 GR .	organia remo l'obcompanoni	9	
0 0	Liganomodol aura-	<sub>ω</sub> α	
2		G R R	
	Frompounded auracionation	G R SHIELD	
	Ш	G R SHIELD	

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22 B	동	П	20 K	27 G	Н	П	30 SHIELD	100	Connector No. M5	Connector Name WIRE TO WIRE		Connector Type TH4UMW-CS15			2 2 2 3 4 4 4				la In		7 R	BR	4 P		+	- M 8	. 9		11 G	13 V	a >-	15 W	16 R	17 B -	18 G	19 Y -	$\exists$	21 LG .	- 7 77 77 77 77 77 77 77 77 77 77 77 77
Connector No.  M1		Connector Name FUSE BLOCK (J/B)	INSUDE W-INIZ		∐ F;	71.47	SA 74 64 54 44			Wire ogna i varie [opecinication]	GR	2A G	4A P		Н	7A - 8			Connector No. M4 Ter	Connector Name WIRE TO WIRE	Connector Type TH32FW-NH				18 15 14 3 2 1	31 30 28 28 27 28 28 29 22 21			nal Color Of Signal Name [Specification]					- w 9	9	7 LG -			
Connector No.  F51		Connector Name A/T ASSEMBLY	KNIUFG-DGT	<		5 4 3 2 1	- 0	<i>"</i>	Terminal Color Of	No. Wire ogner varie [openication]	> }	3 O CANER SOFIE	>	5 B GROUND	9	9 - C CANI	GR STAF	B GROUND		ſ	T	TCM (TRANSMISSION CONTROL MODULE)	Connector Type SP10FG	~			(12343)	0 8 2 8 9 10		Tarminal Color Of		1 - IGNITION POWER SUPPLY	2 - BATTERY POWER SUPPLY	3 - CAN-H	4 . K-LINE	5 GROUND	6 - IGNITION POWER SUPPLY	7 - BACK-UP LAMP RELAY	CANAL CARACTER DELICE
Collin	_													_																									

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five positioner]	В
THEOMW-CS16-TM4  THEOMW-CS16-TM4  Signal Name (Specification)  - [Without automatic drive positioner]	С
Corrector Name Corrector Name Corrector Name Corrector Name Corrector Type Name Name Name Name Name Name Name Nam	D
	Е
-	F
171 LG 77 7 7 1 1 LG 77 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	G
	Н
	l .
8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	J K
### The state of t	
TIC DRIVE POSITIONER  - [With automatic drive positioner]  - [Without automatic drive positioner]  - [With automatic drive positioner]	MIR M
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<u></u>	OMA I	AUTOMATIC DRIVE POSITIONER			Γ		4	
3 8	<u>-</u>		lerminal Color Of	Signal Name [Specification]	Connector Ivo. Misi	Connector No. M49	2	
69	SHIFLD		$^{+}$	BAT	Connector Name TILT & TELESCOPIC SWITCH	Connector Name TIL	TILT & TELESCOPIC MOTOR	
83	ď		2 - GR	COCK	Connector Type TK06FGY	Connector Type NS04FW-CS	04FW-CS	
64	╄	1	3 M	DATA	1			
99	SHIELL	· q:	> <	ILL BAT		_		
99	SB		9 10	III				
29	>		7 B	GROUND				
99	PT	-	11 BR	KEY SWITCH SIGNAL	3 4 1 5 2	Ų E	4 3 2 1	
69							- 2 0 -	
70								
73	H		Connector No. M24					
74	ď		ATVU Complete Nome	GOTOBINIOO VINI LATAO	Terminal Color Of Signal Name (Specification)	Terminal Color Of	Simul Momo [Specification]	
75	Н			A CINA CONNECTOR	No. Wire oignal varie [specification]	No. Wire	olgital name [opecincation]	
9/		-	Connector Type BD16FW	3FW	1 B	1 ق	-	
77	$\dashv$	-			_	$\dashv$		
78	4				4	3 BG		
79	GR.		<u> </u>		-	4	•	
83	4			/ 11   14   16				
82	_	-		0 4 9 9 7				
98		-		]		Connector No. M51	51	
87	Н		4		Connector No. M48	Tomora Momo	HINT LOGINGS BOSEDONES OF ANALYSIS IN HINE	
88					GOOD OF THE STILL			
88	BR		lal	Cional Momo [Consideration]	COMMECTOR INSTITUTE & LELEGOOPIC SENSOR	Connector Type TH	TH32FW-NH	
06	Н	-	No. Wire	orginal realine [openindation]	Connector Type TK04FW			
91			3 LG	-				
92		-	Н	-				
93	_		а 2			L		
8	_		9	1		 	6 7 9 10 11 12 13	
92	4		$\dashv$		4 3 2 1	=	17 16 19 20 21 22 23 24 25 26 27 30 31 32	
96	4		$\dashv$					
86	4		-	-				
66	œ		$\dashv$			la l	Signal Name [Specification]	
			16 Y	1	Tg.	No. Wire	freezening of community of the	
		- 1				+	IILI SW (UPWARD)	
Connec	Connector No.	M22			+	$\dashv$	MIRROR SELECT SW (RH)	
Connec	Connector Name	MEY SLOT			, F	9 >	MIDDOD SW (UPWARD)	
Connec	for Type	Connector Two TH12FW.NH			+	+ u	MIRROR SENSOR (RHIVERTICAL)	
						$^{+}$	MIRROR SENSOR (I HVERTICAL)	
_	1	_				2 C	TII T SENSOR	
	•					. 0	ADDESS4	
	•	<u>_</u>				+	TX (UABT)	
1	9	-				11 GR	TELESCOPIC SW (FRONTWARD)	
4	į	6 2 -				12 BG	ND1	
		11				H	IND2	
						14 W	MIRROR MOTOR (RH VERTICAL)	
						9	MIRROR MOTOR (RH HORIZONTAL)	
						Н	MIRROR MOTOR (LH COMMON)	
						17 W	TILT SW (DOWNWARD)	

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Connector No. M119	0	Connector Type NS16FW-CS	7			4 5 / 8 9 10	11 13 14 15 17 18 19			- 0	erminal Color Of Signal Name [Specification]   No. Wire	4 LG INTERIOR ROOM LAMP POWER SUPPLY	5 L PASSENGER DOOR UNLOCK OUTPUT	7 Y STEP LAMP CONT	> (	9 8	<u> </u>		W PUSH-BUTTOI	15 Y ACC IND	17 W TURN SIGNAL RH (FRONT)	18 BG TURN SIGNAL LH (FRONT)	19 V INT ROOM LAMP CONT		Ī	Connector No. M122	Connector Name BCM (BODY CONTROL MODULE)	Connector Type TH40FB-NH					1			Tarminal Color Of	No. Wire Signal Name [Specification]	74 SB PASSENGER DOOR ANT-	75 GR PASSENGER DOOR ANT+	76 V DRIVER DOOR ANT-	77 LG DRIVER DOOR ANT+		BR	80 GR NATS ANT AMP.
65 BG ECV SIGNAL	_ (	71 R EACH DOOR MOTOR POWER SUPPLY				Connector No. M72	Connector Name Mill TIFI INCTION SWITCH	_	Connector Type TH16FW-NH				4 6 8 14 16	1 3 5 9		Toronicon Oct	No. Wire Signal Name [Specification]	$^{+}$		4 R ILL	5 Y ILL CONT	6 SB AV COMM (H)	8 LG AV COMM (L)	В	Y DISF	16 G HAZARD ON		Connector No. M118	THE RESERVE TO COMPANY AND ADDRESS OF THE PARTY OF THE PA		Connector Type M03FB-LC	•			] 	7. L			Terminal Color Of	No. Wire oignal hans [openication]	1 W BAT (F/L)	2 W POWER WINDOW POWER SUPPLY(BAT)	3 Y POWER WINDOW POWER SUPPLY(RAP)	
Connector No. M62	Connector Name CIRCUIT BREAKER	Connector Type MO2EW-P-I C	1	[				7			erminal Color Of Signal Name [Specification]   No. Wire	1 W	2 SB -		Connector No M67	Т	Connector Name UNIFIED METER AND A/C AMP.	Connector Type TH32FW-NH	7				41 42 43 44 45 46 47 83 54 55 56	57 58 59 60 61 62 65 65 69 70 71 72			Terminal Color Of Signal Name [Specification]	t	42 Y FUEL LEVEL SENSOR SIGNAL	œ	II PI	۵.	S (	41 G EXHAUST GAS / OUTSIDE GOOR DETECTING SENSOR SIGNAL	5 >	55 B GROUND	) _	57 W BRAKE FLUID LEVEL SWITCH SIGNAL	58 BR FUEL LEVEL SENSOR GROUND	59 GR INTAKE SENSOR GROUND	_	BR		63 R
AUTOMATIC DRIVE POSITIONER	SB MIRROR SW (D	20 BK MIRROR SW (RIGHIWARD) 21 MIRROR SENSOR (RIGHIWARD)	G MIRROR SENSOR (	۵	R SET 8	SB	Y RX (UA	G TELESCOPIC SW	R MIRROR MOTOR	LG MIRROR MOTOR	32 L MIRROR MOTOR (EH HORIZONIAL)		Connector No. M52	Connector Name AUTOWATIC DRIVE POSITIONER CONTROL UNIT	Oppositor Time NS16FIM-CS						40 41 42 44 48			Jal	Wire	R POWER SUPPL	34 R BAT (FUSE) 35   TILT MOTOR (IIPWARD)	GR TELESCOPIC MOT	SB BAT (0	B GND(SIG	Υ.	BG	G TELESCOPIC MOT											

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83	≥ α	IGN BEI AV (E/B) CONT	041	<u> </u>	SPICIAL AMPCONT	¥ %	> (		Connector No.	
+	<u>-</u>	KEYLESS ENTRY RECEIVER COMM	142	8	COMBI SW OUTPUT 5	8 8	_		Connector Name	A/T SHIFT SELECTOR
╁	HH.	COMBI SW INPUT 5	143	╀	COMBI SW OUTPUT 1	44	>		Connector Type	TH12FW-NH
H	>	COMBI SW INPUT 3	144	ŋ	COMBI SW OUTPUT 2	45	ď			
06	۵	CAN-L	145	_	COMBI SW OUTPUT 3	46	>		_	
91	L	CAN-H	146	SB	COMBI SW OUTPUT 4	25	œ			[
H	LG	KEY SLOT ILL CONT	150	Pl	DRIVER DOOR SW	23	9			<u></u>
93	>	ON IND	151	9	REAR WINDOW DEFOGGER RELAY CONT	24	M	-	SE.	1 2 3 4 5
$\dashv$	>	PUDDLE LAMP CONT				22	BG			7 8 9 10 11
$\dashv$	BG									3
$\dashv$	GR	A/T SHIFT SELECTOR POWER SUPPLY	Connector No.	tor No.	M124					
66	æ	SHIFT P	Connec	Connector Name	WIRE TO WIRE	Connec	Connector No.	M125	īg	Signal Name [Specification]
+	5 g	PASSENGER DOOR REQUEST SW	Journal	Connector Type	THYOMW-CS15	Connec	Connector Name	WIRE TO WIRE	No. Wire	1
102	BB	BLOWER FAN MOTOR RELAY CONT	2	od 6		Connec	Connector Type	M03FW-LC	- 2	
╀	P	KEYLESS ENTRY RECEIVER POWER SUPPLY	_	1					3	
L	P	COMBI SW INPUT 1		•		_	7		4 B	
108	œ	COMBI SW INPUT 4	_	Į	2 8 9 2 E E		1		5	,
109	>	COMBI SW INPUT 2	٦	Ċ	3 7 10 10 10 10 10 10 10 10 10 10 10 10 10	_	Į		~	
110	O	HAZARD SW	1	Ž	20 20 20 20 20 20 20 20 20 20 20 20 20 2	_	É		8 SB	
						1	į	3.2	H	
								]	10 GR	-
Connector No.		M123	Termina	Ferminal Color Of	Sional Name [Specification]				11 R	
Connector Name	Vame	BCM (BODY CONTROL MODULE)	ġ	Wire		Termin	erminal Color Of	Signal Name [Specification]		
			-	>		2	Wire			
Connector T	ype	Connector Type TH40FG-NH	ω	E	•	- -	> :		Connector No.	M202
_	•		D 2	<u>-</u>		7 6	> c		Connector Name	Connector Name   AV CONTROL UNIT
	•		4 6	< ر		2	۷		Connector Type	THS/EW-NH
			5 2	> a					colliector type	
ŧ	7	S1 81 10 10 10 20 82 11	15	>		Connec	Connector No.	M126	_	
Ċ	ń	521 632 633 633 634 (et 26) 535 (53) 634 (et 26) 536 (53) 635 (53)	16	: E						/ / 
	ı		17	a		Connec	Connector Name	WIRE TO WIRE		27 17 17 17 17 17 17 17 17 17 17 17 17 17
			18	œ		Connec	Connector Type	M03MW-LC	Ę	જ
Terminal Color Of	olor Of	F Sizes Name (Secretion)	19	В	-					48 49 50 51 52 57 58
┪	Wire	Gallari rame [obcomparion]	50	>	- [Without BOSE audio]		1			
$\dashv$	۵	OPLICAL SENSOR	50	>	- [With BOSE audio]		•			
$\dashv$	SB	STOP LAMP SW 1	5	o l	- [With BOSE audio]	_	Į	_	la I	of Signal Name [Specification]
118	۵	STOP LAMP SW 2	21	_	- [Without BOSE audio]	1	<u>رن</u> ت	2 3	1	
4	SB	DR DOOR UNLOCK SENSOR	52	SB		•	4	<u>اد ۲</u>	$\dashv$	SIGNAL VCC
$\dashv$	R	KEY SLOT SW	23	GR					4	SIGNAL GND
4	×	IGN F/B	54	O					$\dashv$	웊
$\dashv$	2	PASSENGER DOOR SW	52	>		Termin	Terminal Color Of	Signal Name [Specification]	_	COMM (DISP-CONT)
4	BR	POWER WINDOW SW COMM	56	œ		ġ	Wire	licensonadol ou par musico	7	RGB AF
+	> ,	PUSH-BUTTON IGNITION SW ILL POWER	53	SHELD			> :		Ϋ́	
-	GR	LOCK IND	30	>		2	>		+	RGB SYNC
4	BG	RECEIVER/SENSOR GND	3	၅ ,		m	œ	-	_	RGB (R:RED) SIGNAL
138	> T	RECEIVER/SENSOR POWER SUPPLY	32	υ <u> </u>					+	RGB (G:GREEN) SIGNAL
139	_]	TIRE PRESSURE RECEIVER COMM	33	æ					45 P	RGB (B:BLUE) SIGNAL

JRJWC0921GB

< ECU DIAGNOSIS INFORMATION >

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MVERTIER NAD	MPOSITE IMAGE SIGNAL GND	Connector No.	or No.	M210
TER CRUD   Corrector Type   TESPYV-NH     TELD	COMPOSITE IMAGE SIGNAL INVERTER VCC	Connecto	or Name	AV CONTROL UNIT
FELD	INVERTER GND	Connecto	or Type	TH32FW-NH
FELD	VP		,	
Temmed   Cohe	MM (CONT-DISP)		1	
Tell	SHIELD		•	
Terminal Cohor Of   Signal Name   Specification   Name   Specification   Signal Name	SHIELD		Ī	
Terminal Color Of Signal Name [Specification]	SHIELD	5	Ø	67 68 71 72 73 74 75
Terminal Color Of No. Wire   No		1		80 81 82 83 8 80 90 91
Terminal Cotor Of Terminal C				
65   C   C   C   C   C   C   C   C   C	UNIT	Terminal No.		Signal Name [Specification]
677 C S S S S S S S S S S S S S S S S S S		65	>	PARKING BRAKE SIGNAL
1   1   1   1   1   1   1   1   1   1		29	g	COMPOSITE IMAGE SIGNAL GND
71 SHELD 72 R R R R R R R R R R R R R R R R R R R		89	œ	COMPOSITE IMAGE SIGNAL
73 R R 74 L G R 10 G G G R 88 S S M EL D R 89 S M EL D R 8		71	SHELD	MICROPHONE SHIELD
77 R R 76 L G R 89 SHELD R 89 G G G G G R 89 G G G G G G G G G G G G G G G G G G	7	72	œ	MICROPHONE VCC
75 LG 77 LG	82 86 87	73	œ	COMM (CONT-DISP)
7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		74	Ь	CAN-L
776 LG C C C C C C C C C C C C C C C C C C		75	P	AV COMM (L)
779 R 80 G 6 B 81 SHELD R 91 SHELD R 92 G 93 SHELD R 93 SHELD R 93 G 94 SHELD R 94 SHELD		9/	97	AV COMM (L)
88 SHELD 6 9 9 9 9 9 9 9 6 6 9 6 9 9 9 9 9 9 9	9.00	79	œ	ILLUMINATION
83 SHELD 83 SHELD 84 G G 86 SHELD 87 G G 88 SHELD 89 G G 89 G G 80 G G	value [opecincation]	80	g	IGNITION SIGNAL
82 SMELD 84 SMELD 85 SMELD 86 SMELD 87 G 88 SMELD 90 S 91 SB 92 SB	AV COMM (L)	81	BG	REVERSE SIGNAL
88 SHELD   90 O C C C C C C C C C C C C C C C C C C	AV COMM (H)	82	œ	VEHICLE SPEED SIGNAL (8-PULSE)
98 26 88 24EID 10 88 10 88	AV COMM (L)	83	SHELD	SHIELD
88 SHELD 89 G 90 G 91 C 91 SB	AV COMM (H)	87	g	MICROPHONE SIGNAL
99 C C C S S S S S S S S S S S S S S S S	CAN-L	88	SHIELD	SHIELD
26 SB 76 SB	CAN-H	88	Ø	COMM (DISP-CONT)
91 SB 92 SB	SW GND	90	_	CAN-H
92   SB	SHIELD	91	SB	AV COMM (H)
VOICE SIGNAL (+) PEED SIGNAL (8-PULSE)	/OICE SIGNAL (+)	85	SB	AV COMM (H)
PEED SIGNAL (8-PULSE)	VOICE SIGNAL (-)			
	PEED SIGNAL (8-PULSE)			

< ECU DIAGNOSIS INFORMATION >

[WITH ADP]

# **BCM (BODY CONTROL MODULE)**

Reference Value

#### VALUES ON THE DIAGNOSIS TOOL

#### NOTE:

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

CONSULT MONITOR ITEM

Monitor Item	Condition	Value/Status	
FR WIPER HI	Other than front wiper switch HI	Off	
FR WIPER TI	Front wiper switch HI	On	
ED WIDED I OW	Other than front wiper switch LO	Off	
FR WIPER LOW	Front wiper switch LO	On	
FR WASHER SW	Front washer switch OFF	Off	
FR WASHER SW	Front washer switch ON	On	
FR WIPER INT	Other than front wiper switch INT	Off	
FR WIFER INT	Front wiper switch INT	On	
FR WIPER STOP	Front wiper is not in STOP position	Off	
FR WIPER STOP	Front wiper is in STOP position	On	
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	Wiper intermittent dia position	
DD WIDED ON	Other than rear wiper switch ON	Off	
RR WIPER ON	Rear wiper switch ON	On	
	Other than rear wiper switch INT	Off	
RR WIPER INT	Rear wiper switch INT	On	
RR WASHER SW	Rear washer switch OFF	Off	
KK WASHER SW	Rear washer switch ON	On	
DD WIDED STOD	Rear wiper is in STOP position	Off	
RR WIPER STOP	Rear wiper is not in STOP position	On	
TUDNI CIONAL D	Other than turn signal switch RH	Off	
TURN SIGNAL R	Turn signal switch RH	On	
TUDNI CIONIAL I	Other than turn signal switch LH	Off	
TURN SIGNAL L	Turn signal switch LH	On	
TAIL LAMP SW	Other than lighting switch 1ST and 2ND	Off	
TAIL LAWIP SVV	Lighting switch 1ST or 2ND	On	
HI BEAM SW	Other than lighting switch HI	Off	
HI BEAIN SW	Lighting switch HI	On	
HEAD LAMD CW/4	Other than lighting switch 2ND	Off	
HEAD LAMP SW 1	Lighting switch 2ND	On	
HEAD LAMB SW 2	Other than lighting switch 2ND	Off	
HEAD LAMP SW 2	Lighting switch 2ND	On	
PASSING SW	Other than lighting switch PASS	Off	
FASSING SW	Lighting switch PASS	On	
ALITO LICHT CM	Other than lighting switch AUTO	Off	
AUTO LIGHT SW	Lighting switch AUTO	On	

### < ECU DIAGNOSIS INFORMATION >

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Monitor Item				
FR FOG SW	Front fog lamp switch OFF	Off		
ICT OG OW	Front fog lamp switch ON	On		
RR FOG SW	NOTE: The item is indicated, but not monitored.	Off		
DOOR SW-DR	Driver door closed	Off		
DOOK GW-DK	Driver door opened	On		
DOOR SW-AS	Off			
300K 3W-A3	Passenger door opened	On		
DOOR SW-RR	Off			
DOOK SW-KK	Rear RH door opened	On		
DOOR SW-RL	Rear LH door closed	Off		
JOOR SW-RL	Rear LH door opened	On		
DOOD SW DK	Back door closed	Off		
DOOR SW-BK	Back door opened	On		
CDL LOCK SW	Other than power door lock switch LOCK	Off		
CDL LOCK SW	Power door lock switch LOCK	On		
SDL LINI OCK SW	Other than power door lock switch UNLOCK	Off		
CDL UNLOCK SW	Power door lock switch UNLOCK	On		
(E) ( O) (I   I   C) (I)	Other than driver door key cylinder LOCK position	Off		
(EY CYL LK-SW	Driver door key cylinder LOCK position	On		
(E) ( O) (I   I   I   O) (I	Other than driver door key cylinder UNLOCK position	Off		
KEY CYL UN-SW	Driver door key cylinder UNLOCK position	On		
KEY CYL SW-TR	NOTE: The item is indicated, but not monitored.	Off		
LAZADD OM	Hazard switch is OFF	Off		
HAZARD SW	Hazard switch is ON	On		
REAR DEF SW	NOTE: The item is indicated, but not monitored.	Off		
TR CANCEL SW	NOTE: The item is indicated, but not monitored.	Off		
	Back door opener switch OFF	Off		
TR/BD OPEN SW	While the back door opener switch is turned ON	On		
TRNK/HAT MNTR	NOTE: The item is indicated, but not monitored.	Off		
REVERSE SW	NOTE: The item is indicated, but not monitored.	Off		
DVE LOCK	LOCK button of the key is not pressed	Off		
RKE-LOCK	LOCK button of the key is pressed	On		
DICE LINE OOK	UNLOCK button of the key is not pressed	Off		
RKE-UNLOCK	UNLOCK button of the key is pressed	On		
RKE-TR/BD	NOTE: The item is indicated, but not monitored.	Off		
DICE DANIO	PANIC button of the key is not pressed	Off		
RKE-PANIC	PANIC button of the key is pressed	On		
	UNLOCK button of the key is not pressed	Off		
RKE-P/W OPEN	UNLOCK button of the key is pressed and held	On		

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### < ECU DIAGNOSIS INFORMATION >

[WITH ADP]

Monitor Item	Condition	Value/Status
RKE-MODE CHG	LOCK/UNLOCK button of the key is not pressed and held simultaneously	Off
	LOCK/UNLOCK button of the key is pressed and held simultaneously	On
OPTICAL SENSOR	Bright outside of the vehicle	Close to 5 V
OPTICAL SENSOR	Dark outside of the vehicle	Close to 0 V
DEO CW. DD	Driver door request switch is not pressed	Off
REQ SW -DR	Driver door request switch is pressed	On
REQ SW -AS	Passenger door request switch is not pressed	Off
REQ 3W -A3	Passenger door request switch is pressed	On
REQ SW -RR	NOTE: The item is indicated, but not monitored.	Off
REQ SW -RL	NOTE: The item is indicated, but not monitored.	Off
DEO SW. DD/TD	Back door request switch is not pressed	Off
REQ SW -BD/TR	Back door request switch is pressed	On
PUSH SW	Push-button ignition switch (push switch) is not pressed	Off
POSH SW	Push-button ignition switch (push switch) is pressed	On
IGN RLY2 -F/B	NOTE: The item is indicated, but not monitored.	Off
ACC RLY -F/B	NOTE: The item is indicated, but not monitored.	Off
CLUCH SW	NOTE: The item is indicated, but not monitored.	Off
DDAVE OW:	The brake pedal is depressed when No. 7 fuse is blown	Off
BRAKE SW 1	On	
BRAKE SW 2	The brake pedal is not depressed	Off
DRAKE SW 2	The brake pedal is depressed	On
DETE/CANCL SW	Selector lever in P position	Off
DETE/CANCE SW	Selector lever in any position other than P	On
SFT PN/N SW	Selector lever in any position other than P and N	Off
31 1 1 10/10 3VV	Selector lever in P or N position	On
S/L -LOCK	NOTE: The item is indicated, but not monitored.	Off
S/L -UNLOCK	NOTE: The item is indicated, but not monitored.	Off
S/L RELAY-F/B	NOTE: The item is indicated, but not monitored.	Off
UNLK SEN -DR	Driver door is unlocked	Off
UNLN SEIN-DK	Driver door is locked	On
PUSH SW -IPDM	Push-button ignition switch (push-switch) is not pressed	Off
- JOH OVV -II DIVI	Push-button ignition switch (push-switch) is pressed	On
IGN RLY1 -F/B	Ignition switch in OFF or ACC position	Off
- CARLIT I/D	Ignition switch in ON position	On
DETE SW -IPDM	Selector lever in any position other than P	Off
DETE GVV -IF DIVI	Selector lever in P position	On
SFT PN -IPDM	Selector lever in any position other than P and N	Off
C. I I II II DIVI	Selector lever in P or N position	On

### < ECU DIAGNOSIS INFORMATION >

[WITH ADP]

Monitor Item					
FT P -MET	Selector lever in any position other than P	Off			
/	Selector lever in P position	On			
SFT N -MET	Selector lever in any position other than N	Off			
)	Selector lever in N position	On			
	Engine stopped	Stop			
ENGINE STATE	While the engine stalls	Stall			
INGINE STATE	At engine cranking	Crank			
	Engine running	Run			
S/L LOCK-IPDM	NOTE: The item is indicated, but not monitored.	Off			
S/L UNLK-IPDM	NOTE: The item is indicated, but not monitored.	Off			
S/L RELAY-REQ	NOTE: The item is indicated, but not monitored.	Off			
/EH SPEED 1	While driving	Equivalent to speed- ometer reading			
/EH SPEED 2	While driving	Equivalent to speed- ometer reading			
	Driver door is locked	LOCK			
OOR STAT-DR	Wait with selective UNLOCK operation (5 seconds)	READY			
	Driver door is unlocked	UNLOCK			
	Passenger door is locked	LOCK			
OOOR STAT-AS	Wait with selective UNLOCK operation (5 seconds)	READY			
	Passenger door is unlocked	UNLOCK			
O OK FLAG	Driver side door is open after ignition switch is turned OFF (Shift position is in the P position)	Reset			
ID OK FLAG	Ignition switch ON	Set			
PRMT ENG STRT	The engine start is prohibited	Reset			
RIVIT ENG STRT	The engine start is permitted	Set			
PRMT RKE STRT	NOTE: The item is indicated, but not monitored.	Reset			
YEV CW. CLOT	The key is not inserted into key slot	Off			
(EY SW -SLOT	The key is inserted into key slot	On			
RKE OPE COUN1	During the operation of the key	Operation frequency of the key			
RKE OPE COUN2	NOTE: The item is indicated, but not monitored.	_			
CONFRM ID ALL	The key ID that the key slot receives does not accord with any key ID registered to BCM.	Yet			
ON NWID ALL	The key ID that the key slot receives accords with any key ID registered to BCM.	Done			
CONFIRM ID4	The key ID that the key slot receives does not accord with the fourth key ID registered to BCM.	Yet			
ON INVIIDA	The key ID that the key slot receives accords with the fourth key ID registered to BCM.	Done			
CONEIDM ID2	The key ID that the key slot receives does not accord with the third key ID registered to BCM.	Yet			
CONFIRM ID3	The key ID that the key slot receives accords with the third key ID registered to BCM.	Done			

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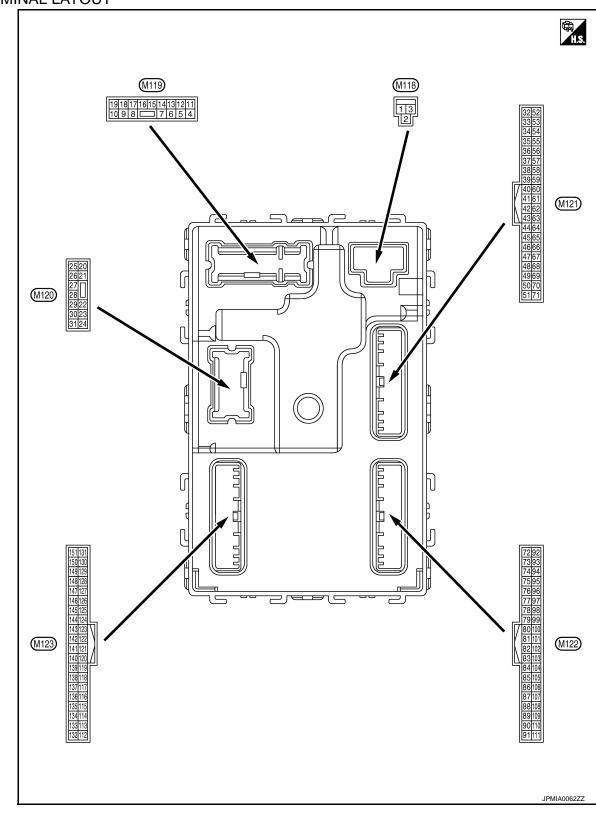
# < ECU DIAGNOSIS INFORMATION >

[WITH ADP]

Monitor Item	Condition	Value/Status
CONFIRM ID2	The key ID that the key slot receives does not accord with the second key ID registered to BCM.	Yet
CONFIRM ID2	The key ID that the key slot receives accords with the second key ID registered to BCM.	Done
CONFIRM ID1	The key ID that the key slot receives does not accord with the first key ID registered to BCM.	Yet
CONFIRMIDI	The key ID that the key slot receives accords with the first key ID registered to BCM.	Done
TD 4	The ID of fourth key is not registered to BCM	Yet
TP 4	The ID of fourth key is registered to BCM	Done
TP 3	The ID of third key is not registered to BCM	Yet
IF 3	The ID of third key is registered to BCM	Done
TP 2	The ID of second key is not registered to BCM	Yet
IF Z	The ID of second key is registered to BCM	Done
TP 1	The ID of first key is not registered to BCM	Yet
IF I	The ID of first key is registered to BCM	Done
AIR PRESS FL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front LH tire
AIR PRESS FR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front RH tire
AIR PRESS RR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear RH tire
AIR PRESS RL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear LH tire
ID REGST FL1	ID of front LH tire transmitter is registered	Done
ID REGST PLT	ID of front LH tire transmitter is not registered	Yet
ID REGST FR1	ID of front RH tire transmitter is registered	Done
ID REGGI FRI	ID of front RH tire transmitter is not registered	Yet
ID REGST RR1	ID of rear RH tire transmitter is registered	Done
ID REGST KKT	ID of rear RH tire transmitter is not registered	Yet
ID REGST RL1	ID of rear LH tire transmitter is registered	Done
ID REGGI REI	ID of rear LH tire transmitter is not registered	Yet
WARNING LAMP	Tire pressure indicator OFF	Off
VVAINING LAWP	Tire pressure indicator ON	On
BUZZER	Tire pressure warning alarm is not sounding	Off
DUZZEN	Tire pressure warning alarm is sounding	On

[WITH ADP]

TERMINAL LAYOUT



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Torm	inal No.	Description						
	inai ivo. e color)	Description Input/		Condition		Value		
+	_	Signal name	Output	Condition		(Approx.)		
1 (W)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage		
2 (W)	Ground	P/W power supply (BAT)	Output	Ignition switch OFF		Battery voltage		
3 (Y)	Ground	P/W power supply (RAP)	Output	Ignition switch ON		Battery voltage		
				Interior room lamp battery saver is activated. (Cuts the interior room lamp power supply)		0 V		
4 (LG)	Ground	Interior room lamp power supply	Output	Interior room lamp battery saver is not activated. (Outputs the interior room lamp power supply)		Battery voltage		
5	Ground	Passenger door UN-	Output	Passenger door  UNLOCK (Actuator is activated)		Battery voltage		
(L)	Ground	LOCK	Output	r asseriger door	Other than UNLOCK (Actuator is not activated)	0 V		
7	Ground	Step lamp	Output	Step lamp	ON	0 V		
(Y)	Ground	Otep lamp	Output	Otop lamp	OFF	Battery voltage		
8	Ground	All doors, fuel lid LOCK	Output	All doors	LOCK (Actuator is activated)	Battery voltage		
(V)				Other than LOCK (Actuator is not activated		0 V		
9 (G)	Ground	Driver door, fuel lid UNLOCK	Output	Driver door  UNLOCK (Actuator is activated)  Other than UNLOCK (Actuator is not activated)		Battery voltage		
	Cround					0 V		
10	Ground	Rear RH door and rear LH door UN-	Output	Rear RH door and rear LH door  Other than UNLOCK (Actuator is not activated)		Battery voltage		
(BR)	Ground	LOCK	Output			0 V		
11 (R)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage		
13 (B)	Ground	Ground	_	Ignition switch ON		0 V		
					OFF	0 V		
	Ground		Ground Push-button ignition switch illumination ground Output Tail lamp ON					NOTE: When the illumination brightening/dimming level is in the neutral position
14 (W)				ON	(V) 10 0 2 ms JSNIA0010GB			
15	0	ACC in diagram to the	O. ata	Innition	OFF or ON	Battery voltage		
(Y)	Ground	ACC indicator lamp	Output	Ignition switch	ACC	0 V		

#### < ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value
(Wire	e color) –	Signal name	Input/ Output		Condition	(Approx.)
17 (W)	Ground	Turn signal RH (Front)	Output	Ignition switch ON	Turn signal switch OFF  Turn signal switch RH	0 V  (V) 15 10 5 0 PKID0926E
					Turn signal switch OFF	6.5 V 0 V
18 (BG)	Ground	Turn signal LH (Front)	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s PKID0926E 6.5 V
19 (V)	Ground	Room lamp timer control	Output	Interior room lamp	OFF ON	Battery voltage 0 V
20 (V)	Ground	Turn signal RH (Rear)	Output	Ignition switch ON	Turn signal switch OFF  Turn signal switch RH	0 V  (V) 15 10 5 0 PKID0926E 6.5 V
23	Ground	Back door open	Output	Back door	OPEN (Back door opener actuator is activated)	Battery voltage
(G)	Glound	Back door open	Output	Back door	Other than OPEN (Back door opener actuator is not activated)	0 V
					Turn signal switch OFF	0 V
25 (G)	Ground	Turn signal LH (Rear)	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s PKID0926E
26					OFF (Stopped)	6.5 V 0 V
26 (G)	Ground	Rear wiper	Output	Rear wiper	ON (Operated)	Battery voltage

	ninal No. e color)	Description			Condition	Value
+	_	Signal name	Input/ Output		Condition	(Approx.)
34	Ground	Luggage room antenna (-)	Output	Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB
(SB)	Glodina			OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 11 1 s  JMKIA0063GB
35	Ground	Luggage room antenna (+)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB
(V)	Ground				When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB
38		Back door antenna (-	Output	When the back door opener re- quest switch is operated with ig- nition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s  JMKIA0062GB
(B)	Ground				When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB

### < ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value
+ (VVire	e color)	Signal name	Input/ Output		Condition	(Approx.)
39		Back door antenna		When the back door opener re-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB
(W)	Ground	(+)	Output	quest switch is operated with ig- nition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB
47	Craund	Ignition relay (IPDM	Outnut	lamition outlab	OFF or ACC	Battery voltage
(Y)	Ground	E/R) control	Output	Ignition switch	ON	0 V
52	Ground	Starter relay control	antral Output	Ignition switch	When selector lever is in P or N position	Battery voltage
(SB)	) Glound Starter relay control Culpu	Output	ON	When selector lever is not in P or N position	0 V	
60		Push-button ignition		Push-button igni-	Pressed	0 V
(BR)	Ground	switch (Push switch)	Input	tion switch (push switch)	Not pressed	Battery voltage
61 (W)	Ground	Back door opener request switch	Input	Back door opener request switch	ON (Pressed)  OFF (Not pressed)	(V) 15 10 5 0
				Late III and III a		JPMIA0016GB 1.0 V
64	Ground	Intelligent Key warn- ing buzzer (Engine	Output	Intelligent Key warning buzzer	Sounding	0 V
(V)		room)	-	(Engine room)	Not sounding	Battery voltage
65 (BG)	Ground	Rear wiper stop position	Input	Rear wiper	In stop position	(V) 15 10 5 0 10 ms JPMIA0016GB
						1.0 V
					Not in stop position	0 V

### < ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value	
+ (vvire	e color)	Signal name	Input/ Output		Condition	(Approx.)	
66 (R)	Ground	Back door switch	Input	Back door switch	OFF (Door close)	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8 V	
					ON (Door open)	0 V	
·					Pressed	0 V	
67 (GR)	Ground	Back door opener switch	Input	Back door opener switch	Not pressed	(V) 15 10 5 0 10 ms JPMIA0011GB	
68 (BR)	Ground	Rear RH door switch	Input	Rear RH door switch	OFF (Door close)	(V) 15 10 5 0 10 ms JPMIA0011GB	
					ON (Door open)	0 V	
69 (R)	Ground	Rear LH door switch	Input	Rear LH door switch	OFF (Door close)	(V) 15 10 5 0 10 ms JPMIA0011GB	
					ON (Door open)	0 V	

### < ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value	
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)	
74		Passenger door an-		When the passenger door re-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	
SB)	Ground	tenna (-)	Output	quest switch is operated with ig- nition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	
75	Ground	Passenger door an-	Output	When the passenger door re-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s  JMKIA0062GB	
GR)	Ground	tenna (+)	Output	senger door re- quest switch is operated with ig- nition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB	
76	Ground	Driver door antenna	Output	When the driver door request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB	
(V) GIC	Giound	(-)	•	switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB	

	ninal No. e color)	Description			Condition	Value	
+	-	Signal name	Input/ Output		Condition	(Approx.)	
77	Ground	Driver door antenna	Qutout	When the driver door request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 11 1 s  JMKIA0062GB	
(LG)	Clound	(+)	switch is opera	ed with ignition	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB	
78	Ground	Room antenna 1 (–) (Instrument panel)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB	
(Y)					When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB	
79	Ground	Room antenna 1 (+) (Instrument panel)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB	
(BR)					When Intelligent Key is not in the passenger compartment	(V) 15 10 1	

### < ECU DIAGNOSIS INFORMATION >

[WITH ADP]

	inal No.	Description				Value	Λ
+ (VVir	e color)	Signal name	Input/ Output		Condition	(Approx.)	А
80 (GR)	Ground	NATS antenna amp.	Input/ Output	During waiting	Ignition switch is pressed while inserting the key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.	В
81 (W)	Ground	NATS antenna amp.	Input/ Output	During waiting	Ignition switch is pressed while inserting the key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.	С
82	Ground	Ignition relay [Fuse	Output	Ignition switch	OFF or ACC	0 V	
(R)	Giouna	block (J/B)] control	Output	ignition switch	ON	Battery voltage	D
83	Remote keyless entry receiver communica-		Input/	During waiting		(V) 15 10 5 0 1 ms	E F
(Y)	Glound	tion	Output	When operating e	either button on the key	(V) 15 10 5 0 1 ms JMKIA006SGB	G H

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### < ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value
+ (VVIre	e color)	Signal name	Input/ Output		Condition	(Approx.)
	Ground	Combination switch INPUT 5	Input		All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB
87				Combination switch	Front fog lamp switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0037GB
(BR)					Rear wiper switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0039GB 1.3 V
					Any of the conditions below with all switches OFF  • Wiper intermittent dial 1  • Wiper intermittent dial 2  • Wiper intermittent dial 6  • Wiper intermittent dial 7	(V) 15 10 5 0 2 ms JPMIA0040GB 1.3 V

### < ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Volue	Λ
(Wir	e color)	Signal name	Input/ Output		Condition	Value (Approx.)	А
					All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB	B C
					Lighting switch HI (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3 V	E
88 (V)	Ground	Combination switch INPUT 3	Input	Combination switch	Lighting switch 2ND (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0037GB	G H
					Rear washer switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0039GB 1.3 V	J K
					Any of the conditions below with all switches OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3	(V) 15 10 5 0 2 ms JPMIA0040GB 1.3 V	M
90 (P)	Ground	CAN-L	Input/ Output	_		_	0
91 (L)	Ground	CAN-H	Input/ Output	_		_	Р

<u> </u>	יוטאוטי	10515 INFORMAT	1011 /			[WITH ADI ]
	inal No.	Description				Value
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)
					OFF	Battery voltage
92 (LG)	Ground	Key slot illumination	Output	Key slot illumina- tion	Blinking	(V) 15 10 5 0 1 s JPMIA0015GB
					ON	0 V
93	Ground	ON indicator lamp	Output	Ignition switch	OFF or ACC	Battery voltage
(V)	Ground	ON malcator lamp	Output	ignition switch	ON	0 V
94	Ground	Puddle lamp control	Output	Puddle lamp	OFF	Battery voltage
(Y)	Cround	r addie famp control	Output	r dddio idirip	ON	0 V
95	Ground	ACC relay control	Output	Ignition switch	OFF	0 V
(BG)	Ordana	7100 Tolay outlier	Output	ignition owner.	ACC or ON	Battery voltage
96 (GR)	Ground	A/T shift selector (Detention switch) power supply	Output	_		Battery voltage
99	Ground	Selector lever P posi-	Input	Selector lever	P position	0 V
(R)	Ground	tion switch	input	Selector level	Any position other than P	Battery voltage
					ON (Pressed)	0 V
100 (G)	Ground	Passenger door re- quest switch	Input	Passenger door request switch	OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB
					ON (Pressed)	0 V
101 (SB)	Ground	Driver door request switch	Input	Driver door request switch	OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB
102	Ground	Blower fan motor re-	Output	Ignition switch	OFF or ACC	0 V
(BG)	Giouna	lay control	Output	ignition switch	ON	Battery voltage
103 (LG)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch OF	F	Battery voltage

### < ECU DIAGNOSIS INFORMATION >

[WITH ADP]

	inal No.	Description				Value	А
+	e color)	Signal name	Input/ Output		Condition	(Approx.)	
					All switches OFF	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4 V	С
					Turn signal switch LH	(V) 15 10 5 0 2 ms JPMIA0037GB	E
107 (LG)	Ground	Combination switch INPUT 1	Input	Combination switch (Wiper intermit- tent dial 4)	Turn signal switch RH	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3 V	G H
					Front wiper switch LO	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3 V	J K MIR
					Front washer switch ON	(V) 15 10 5 0 2 ms	M
							0

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	inal No. e color)	Description			0 100	Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB
	Ground	Combination switch INPUT 4	Input	Combination switch	Lighting switch AUTO (Wiper intermittent dial 4)	(V) 15 10 2 ms 1.3 V
108 (R)					Lighting switch 1ST (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0036GB
					Rear wiper switch INT (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0040GB
					Any of the conditions below with all switches OFF  • Wiper intermittent dial 1  • Wiper intermittent dial 5  • Wiper intermittent dial 6	(V) 15 10 5 0 2 ms JPMIA0039GB 1.3 V

### < ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value	Λ
(Wir	e color)	Signal name	Input/ Output		Condition	(Approx.)	Α
					All switches OFF	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4 V	В
					Lighting switch PASS	(V) 15 10 5 0 2 ms JPMIA0037GB	E F
109 (Y)	Ground	Combination switch INPUT 2	Input	Combination switch (Wiper intermit- tent dial 4)	Lighting switch 2ND	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3 V	Н
					Front wiper switch INT	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3 V	J K
					Front wiper switch HI	(V) 15 10 5 0 2 ms JPMIA0040GB 1.3 V	M
					ON	0 V	0
110 (G)	Ground	Hazard switch	Input	Hazard switch	OFF	(V) 15 10 5 0 10 ms JPMIA0012GB 1.1 V	Ρ

### < ECU DIAGNOSIS INFORMATION >

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	inal No.	Description				Value
(Wire	e color)	Signal name	Input/ Output		Condition	Value (Approx.)
113	Ground	Optical sensor	Input	Ignition switch	When bright outside of the vehicle	Close to 5 V
(P)	Ground	Optical serisor	Прис	ON	When dark outside of the vehicle	Close to 0 V
116 (SB)	Ground	Stop lamp switch 1	Input	_		Battery voltage
		Stop lamp switch 2		Stop lamp switch	OFF (Brake pedal is not depressed)	0 V
118	Ground	(Without ICC)	Input	Stop lamp switch	ON (Brake pedal is depressed)	Battery voltage
(P)	Ground	Stop lamp switch 2	IIIput		OFF (Brake pedal is not de- brake hold relay OFF	0 V
		(With ICC)			ON (Brake pedal is de- rake hold relay ON	Battery voltage
119 (SB)	Ground	Front door lock assembly driver side (Unlock sensor)	Input	Driver door	LOCK status (Unlock sensor switch OFF)	(V) 15 10 5 0 10 ms JPMIA0012GB
					UNLOCK status (Unlock switch sensor ON)	0 V
121	Ground	Key slot switch	Input	When the key is in	serted into key slot	Battery voltage
(BR)	0.000			When the key is n	ot inserted into key slot	0 V
123 (W)	Ground	IGN feedback	Input	Ignition switch	OFF or ACC	0 V
					ON	Battery voltage
124 (LG)	Ground	Passenger door switch	Input	Passenger door switch	OFF (Door close)	(V) 15 10 5 0 10 ms 10 ms 11.8 V
					ON (Door open)	0 V
132 (BR)	Ground	Power window switch communication	Input/ Output	Ignition switch ON		(V) 15 10 5 0 10 ms JPMIA0013GB
				Innitian miles CT	F at ACC	10.2 V
				Ignition switch OF	F OF ACC	Battery voltage

#### < ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value						
(Wir	e color) –	Signal name	Input/ Output		Condition	(Approx.)						
133 (W)	Ground	Push-button ignition switch illumination	Output	Push-button ignition switch illumination	ON (Tail lamps OFF) ON (Tail lamps ON)	9.5 V  NOTE: The pulse width of this wave is varied by the illumination brightening/dimming level.  (V) 15 10 5 UPMIA0159GB						
					OFF	0 V						
134	Ground	LOCK indicator lamp	Output	LOCK indicator	OFF	Battery voltage						
(GR)	Siodila		Jaspat	lamp	ON	0 V						
137 (BG)	Ground	Receiver and sensor ground	Input	Ignition switch ON		0 V						
138	Ground	Receiver and sensor	Output	Ignition switch	OFF	0 V						
(Y)		power supply		J	ACC or ON	5.0 V						
139	Ground	Tire pressure receiv-	Input/	Ignition switch	Standby state	(V) 4 2 0 ••• 0.2s OCC3881D						
(L)		er communication	Output	ON	When receiving the signal from the transmitter	(V) 6 4 2 0 						
140	Ground	Selector lever P/N	Input	Selector lever	P or N position	Battery voltage						
(GR)	Crodita	position	input	33,33,61 10 101	Except P and N positions	0 V						
					ON	0 V						
141 (G)	Ground	Security indicator	Output	Security indicator	Blinking	(V) 15 10 5 0 1 s JPMIA0014GB						
					OFF	11.3 V						
					OFF	Battery voltage						

### < ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value
+ (VVire	e color)	Signal name	Input/ Output		Condition	(Approx.)
·					All switches OFF	0 V
					Lighting switch 1ST	
				Combination	Lighting switch HI	(V)
142	Ground	Combination switch	Output	switch	Lighting switch 2ND	10
(BG)	Ground	OUTPUT 5	Output	(Wiper intermit- tent dial 4)	Turn signal switch RH	2 ms JPMIA0031GB
					All switches OFF (Wiper intermittent dial 4)	0 V
					Front wiper switch HI (Wiper intermittent dial 4)	
143	Ground	Combination switch	Outout	Combination	Rear wiper switch INT (Wiper intermittent dial 4)	(V) 15 10
(P)	Ground	OUTPUT 1	Output	switch	Any of the conditions below with all switches OFF  • Wiper intermittent dial 1  • Wiper intermittent dial 2  • Wiper intermittent dial 3  • Wiper intermittent dial 6  • Wiper intermittent dial 7	10 5 0 2 ms JPMIA0032GB 10.7 V
					All switches OFF (Wiper intermittent dial 4)	0 V
					Front washer switch ON (Wiper intermittent dial 4)	
144		Combination switch		Combination	Rear wiper switch ON (Wiper intermittent dial 4)	(V) 15
(G)	Ground	OUTPUT 2	Output	switch	Rear washer switch ON (Wiper intermittent dial 4)	10 5 0
					Any of the conditions below with all switches OFF  • Wiper intermittent dial 1  • Wiper intermittent dial 5  • Wiper intermittent dial 6	2 ms JPMIA0033GB
					All switches OFF	0 V
					Front wiper switch INT	(11)
145 (L)	Ground	Combination switch OUTPUT 3	Output	Combination switch (Wiper intermit- tent dial 4)	Front wiper switch LO  Lighting switch AUTO	(V) 15 10 5 0 2 ms
						10.7 V

### < ECU DIAGNOSIS INFORMATION >

[WITH ADP]

	inal No.	Description				Value	Λ			
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)	А			
					All switches OFF	0 V				
					Front fog lamp switch ON		В			
				Combination	Lighting switch 2ND	(V)				
146	Ground	Combination switch	Output	switch	Lighting switch PASS	10 5	С			
(SB)	Glodila	OUTPUT 4	Output	(Wiper intermit- tent dial 4)	Turn signal switch LH	0 JPMIA0035GB	D			
						(V)	Е			
150 (LG)	Ground	Driver door switch	Input	Driver door switch	OFF (Door close)	10 5 0 10 ms	F			
						JPMIA0011GB 11.8 V	G			
					ON (Door open)	0 V				
151	Ground	Rear window defog-	Output	Rear window de-	Active	0 V	Н			
(G)	Giodila	nd ger relay control Output fogger		fogger	Not activated	Battery voltage				

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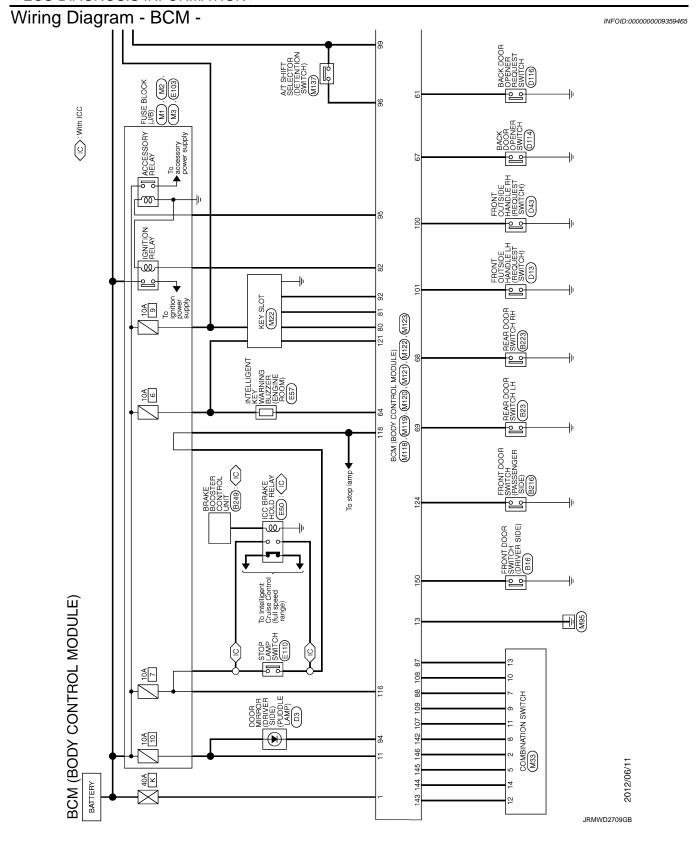
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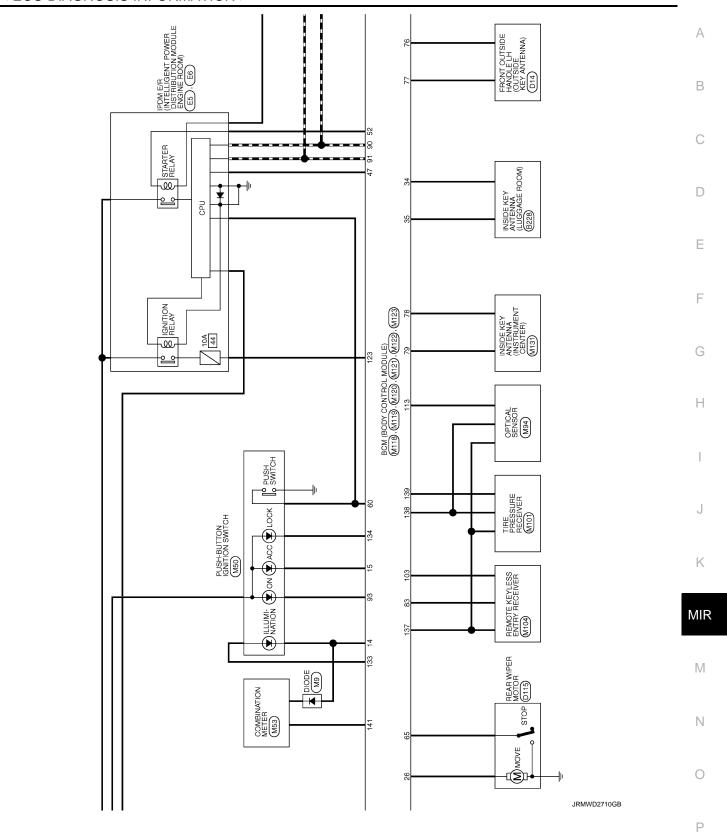
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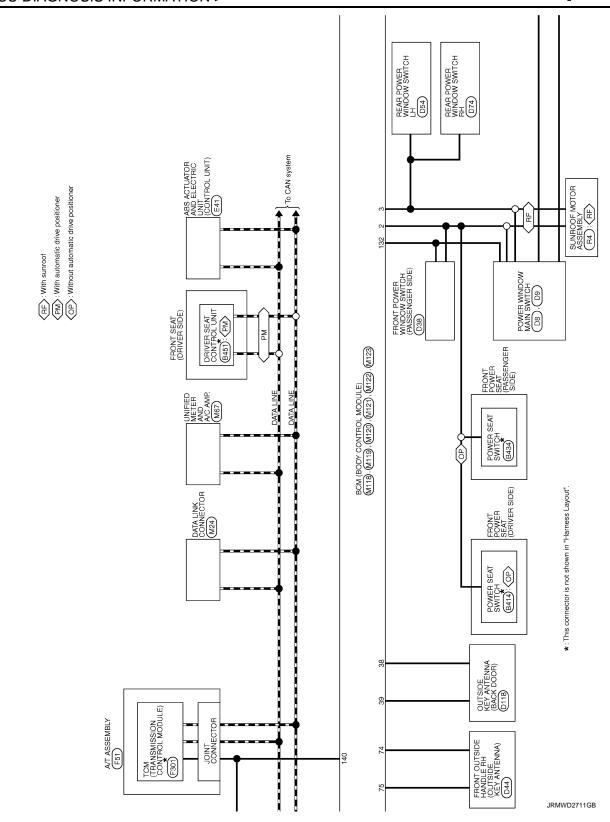
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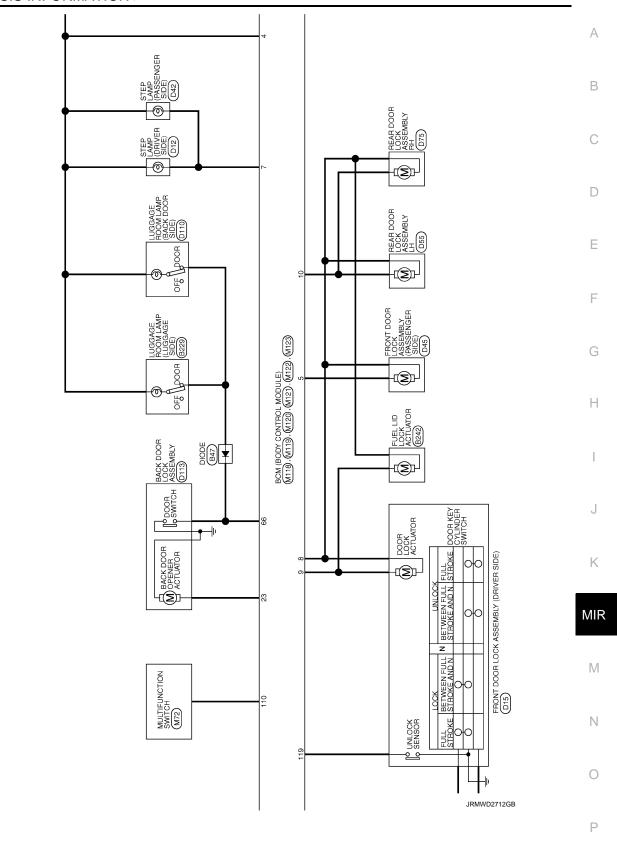
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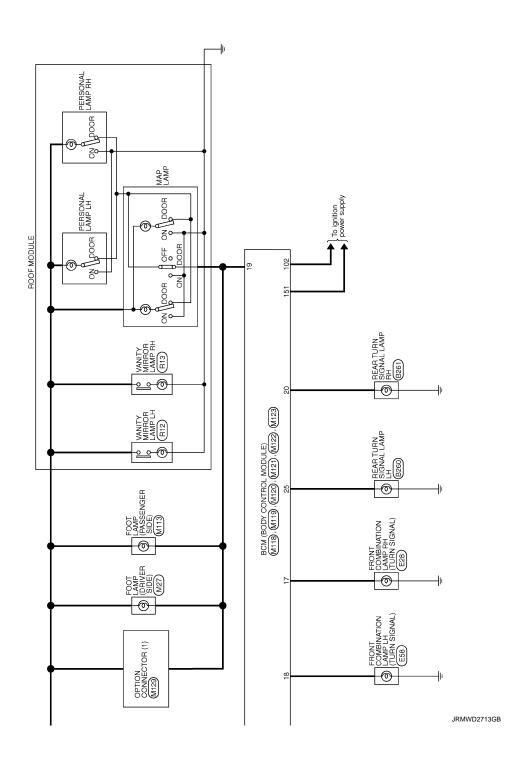
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Cornector No.   B242	H.S. Terminal Color Of No. Wire Signal Name (Specification)	2	Terminal Color Of   Signal Name (Specification)   Signal Name (S			
Corrector No. B228 Corrector Name RSDE KEYANTENA (LUCGAGE ROOM) Corrector Type RRQDFGY	Terminal Color Of Signal Name [Specification]	2   SB     Corrector No.   B229   Corrector Name   Lucsave: SDE     Corrector Type   TK03FW   TT03FW   TT	Terminal Color Of Signal Name [Specification] No. Wire Signal Name [Specification] 1 GR			
Terminal Color Of   Signal Name (Specification)   No.   Wire	Connector No. R216 Connector Name Frootn Switch (PASSEWGEN SDE) Connector Type A03FW	Terminal Color Of Signal Name (Specification)	Terminal Color Of Signal Name (Specification)			
BCM (BODY CONTROL MODULE)  Connector No. 816  Connector Name FRONT DOOR SWITCH (DRIVER SIDE)  Connector Type A03FW	Terminal Color Of Wire Signal Name (Specification)	Connector Np. 823 Connector Type AGSEW  Connector Type AGSEW  EAR DOOR SWITCH LH  Connector Type AGSEW	Terminal Color Of   Signal Name   Specification   No.   Wire   Signal Name   Specification   2   LG   Connector No.   B47   Connector Name   DIODE   Connector Type   24335_C9900	H.S.		
					JRMWD8153GB	

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BCM (BODY CONTROL MODULE)	Connector No.	or No.   B414		Connector No.		B451	Connector No.	o N	D3	_
HI CANAL INIVISION THE AND THE CONTRACT OF THE	0	HOTHANG TATIO GRANDO		- Constant		FIRST CORPACO FATO CTANGE	0	No.	Trais anythady according according	
N SIGNAL	Connec	Connector Name POWER SEAT SWITCH		Connector Name	name Name	RIVER SEAT COINTRUL UNIT	Connec	Connector Name	DOOR MIRROR (DRIVER SIDE)	
Connector Type HS02FG-W	Connect	Connector Type NS10FW-CS		Connector	Connector Type TH32FW	H32FW	Connec	or Type	Connector Type TH24MW-NH	
[			Γī		7			1		
		2 1 8 7		`			_	Ţ		
H.S.	7	H.S. 4 3 6 5 109		Ę	H.S.	3 9 10 11 12 13 14 16 16 17 12 13 13 13 13 13 13 13 13 13 13 13 13 13		H.S.	12 11 10 7 6 5 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 3 2 3 3 2 3	
			i I		 					
Terminal Color Of Signal Name (Specification)	Terming	Ferminal Color Of Signal Name [Specification]	ation]	Terminal Color Of	Solor Of Wire	Signal Name [Specification]	Terminal	Color Of	Signal Name [Specification]	
+	-			-	3	X	7	0		_
2 B -	2			3	ΚY	CAN-H	ო	В	SIDE CAMERA LH COMM	
	3			6	M/G	PULSE (RECLINING)	S	Υ	SIDE CAMERA LH IMAGE SIGNAL	
- 1	4	-		10	B/B	PULSE (RR LIFTING)	9	œ	SIDE CAMERA LH POWER SUPPLY	
Connector No. B261	2			=	H :	SLIDING SW (BACKWARD)	_	>		
Connector Name REAR TURN SIGNAL LAMP RH	9 1	> 2		12	SB	RECLINING SW (BACKWARD)	2 5	<b>9</b> 0		
Connector Type HS02EG-W	- α			2 4	(A) R/S	REAR LIFTING SW (DOWNWARD)	- 6	د اد		_
	0			16	0	VCC	4	9		_
_	10	G/W		17	Y/R	X	17	Ø	SIDE CAMERA LH IMAGE GND	_
				19	>	CAN-L	18	>	SIDE CAMERA LH GND	
				21	ΓΛ	P RANGE SW	19	В		
	Connector No.	or No. B434		24	œ	PULSE (SLIDING)	21	GR		
	Connect	Connector Name POWER SEAT SWITCH		52	Y/B	PULSE (FR LIFTING)	22	监		
				56	> 6	SLIDING SW (FORWARD)	23	> :	-	
	Connec	Connector Type NSTURW-CS		/7	2 5	RECLINING SW (FORWARD)	77	>		_
Ferminal Color Of Signal Name [Specification]	_			87 62	M/B	REAR LIFTING SW (UPWARD)				
+			F	34	GR.	SENSOR GND	Connector No.	or No.	D8	_
2 B	_	7 8 7	2.	32	B/W	GND (SIGNAL)				
┨	7	0 0 0 0	_				Connec	Connector Name	POWER WINDOW MAIN SWITCH	
	1	8 C O	<b>-</b> 1				Connec	or Type	Connector Type NS16FW-CS	_
							_	1		
	Termina	Terminal Color Of Signal Name [Specification]	ation]					1	1 2 3 4 7 4 5 6 7	
	ġ,						_	ľ	] ] ;	
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	, 6	~8						ı		
	0	5 ≥								
	9	>					Terming	Terminal Color Of		_
	7						No.	Wire	Signal Name [Specification]	
	8	٠ -					-	^		
	o	L/R					7	H.		
	9	G/W					m ·	GR.	ī	
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< ECU DIAGNOSIS INFORMATION >

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GER SIDE)  Specification]  Specification]	В
Signal Name [Specification]	С
Cornector No.   D42	D
BI.Y (DRIVER SIDE) PASSENGER GLED    State	Е
FRONT DOOR LOCK ASSEMBLY (DRIVER SDE)  FRONT POWER NAME (Specification)  Signal Name (Specification)  Signal Name (Specification)  Signal Name (Specification)	F
Cornector No.   D15	G H
PROOPE LINE (Signal Name [Specification]  Signal Name [Specification]  Signal Name [Specification]  Signal Name [Specification]	J
Corrector No. D13  Corrector Name FRONTO  Corrector Type RKG2FL  1 V  2 B  Corrector No. D14  Corrector No. Wire FROZM  Corrector No. Wire I No	K
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ITROL (  DOW MAIN S  CORVER SID  ORIVER SID  ORIVER SID  ORIVER SID	M
SECM (BODY CONTROL MODE)	N
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Revision: 2013 March MIR-97 2014 QX50

Cornector No. D110 Cornector Name LucsAce ROOM LAMP (BACK DOOR SDE) Cornector Type TK03FW	H.S.	Terminal Color Of   Signal Name (Specification)   No. Wire   V     V	Connector No. D113 Connector Name BACK DOOR LOCK ASSEMBLY Connector Type NS04PW-CS	H.S.	Terminal Color Ol   Signal Name [Specification]   No.   Wire
Corrector No. 1074 Corrector Name REAR POWER WINDOW SWITCH RH Corrector Type NSUBFW-CS	H.S. 23451	Robin   Signal Name   Specification   Name   Specification   Name   Name   Specification   Name   Name		Cornector No. 1775  Cornector Name REAR DOOR LOCK ASSEMBLY RH  Cornector Type ED6FGY-RS	Signal Name   Specification
Connector No. D54  Connector Name REAR POWER WINDOW SWITCH LH  Connector Type NS08FW-CS	H.S. 23451	Terminal Color Of   Signal Name (Specification)		Connector No. D55  Connector Name REAR DOOR LOOK ASSEMBLY LH  Connector Type E06F0V-RS	H.S.
BCM (BODY CONTROL MODULE) Corrector No. D44 Corrector Name Prooff cursue involves en'avrenie Corrector Type RKQ2MGY	H.S.	Terminal Color Of   Signal Name [Specification]   1   P   2   V	Connector No. D45  Connector Name Inscrit Dook.cox.xssswarv prassionals size; Connector Type E06FGV-RS	H.S.	Terminal Color Of   Signal Name (Specification)   No.   Wite   1   P   2   LG   .

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Connector No. E28 Connector Name FRONT COMBINATION LAMP RH Connector Type RS08F9-PR	H.S. (\$\frac{234}{5678}\right)	Terminal   Color Of   Signal Name   Specification
Connector No. ES Connector Name provise representational course Connector Name provise recoin.  Connector Type THEOFFWCSTEAM-1V	H.S.	Terminal   Color Of   Signal Name   Specification    4
Corrector No.   D116 Corrector Name BACK DOOR OPENER RECUEST SWITCH Corrector Type   TKGZMBR-P	H.S.	Terminal Color Of Signal Name [Specification]  1 Wre Corrector Type RKIZECY  Corrector Type RKIZECY  Terminal Color Of Signal Name [Specification]  No. Wre 1 BR 1 BR
BCM (BODY CONTROL MODULE) Connector Na. B1114 Connector Name BACK DOOR OPENER SWITCH Connector Type   TXCOMBRP	H.S.	Terminal Color Of Signal Name (Specification)    1

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Connector No. F301	g.	Connector Type SP10FG			H.S. (12 3 4 5)		Terminal Color Of Signal Name [Specification] No. Wire	1 - IGNITION POWER SUPPLY	- BATTERY	S - CAN-H		6 - IGNITION POWER SUPPLY	- BACK-U	+	3 - SIARIER RELAT			Connector No. M1	Connector Name FUSE BLOCK (J/B)	Connector Type NS06FW-M2	7		3A 🔲 2A 1A	27 64 54 44	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		Terminal Color Of	No. Wire Signal Name [Specification]	Ĭ	2A G .	-	- AA P	. × × × × × × × × × × × × × × × × × × ×	- WO	+	
Connector No.   F110	g e	Connector Type M04FW-LC			H.S.		Terminal Color Of Signal Name [Specification]	1 L	× >	3 4 SB			Connector No. F51	Connector Name A/T ASSEMBLY	Connector Type BK10EG-DGV	П	<		5 4 3 2 1	(S)			Ferminal Color Of Signal Name [Specification]	<b>&gt;</b>	H	S CANTE	B B	6 Y IGNITION POWER SUPPLY	R BACK-U	Pl	GR STA	10 B GROUND				
Connector No. E58	g.	Connector Type RS08FB-PR			H.S. $\frac{\binom{2}{5} \binom{3}{6} \binom{4}{7} \binom{8}{8}}{\binom{6}{7} \binom{8}{8}}$		Terminal Color Of Signal Name [Specification]	2 B -	B/Y	5 × ×	5 9	7 P	8 BG -		Connector No E103	Τ	Connector Name FUSE BLOCK (J/B)	Connector Type NS16FW-CS	•		84 H2 H3 H3	]-			Terminal Color Of Signal Name [Specification]	1F SB	+	H	6F BR	$\dashv$	9F R					
BCM (BODY CONTROL MODULE)	26 LG DP FL	5 0	29 LG DS RR 30 SB BLS	R VDC	J @	Connector No. E50	Connector Name ICC BRAKE HOLD RELAY	Connector Type M06FGY-R-US			1	5 / O			Torminal Color Of	Signal Name [Specification]	wire >	2 B -	а 8	20 a	+		Connector No. E57	Connection Name Arter Depart Vey Information of 1796 occupant Depart	O I I	Collifector Type   MNOSTBN	_	<			] -			No Wire Signal Name [Specification]		> >

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< ECU DIAGNOSIS INFORMATION >

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Cornector Nb.   M33	B C D
Corrector No.   M24	E F G
Corrector Name   DIODE	J
Connector Name   FUSE BLOCK (J/B)   Connector Name   FUSE BLOCK	MIR  M  N

JRMWD8159GB

**MIR-101** Revision: 2013 March 2014 QX50

Connector No. M101	<b>9</b>	Connector Type TK04FW				H.S. 1			Terminal Color Of	No. Wire Signal Name [Specification]	1 BG GROUND	2 L SIGNAL	4 Y BATTERY			Connector No. M104	Connector Name   REMOTE KEYLESS ENTRY RECEIVER		Connector Type JAB04FB									īg		1 BG GROUND	SIC	4 LG BATTERY									
Connector No. M72	Connector Name MULTIFUNCTION SWITCH	Connector Type TH16FW-NH	-			4 6 8 14 16	1 3 5 9		erminal Color Of	No. Wire Signal Name [Specification]	1 B GROUND	3 v ACC	4 R ILL	5 Y ILL CONT		LG A	В	Y DIS	16 G HAZARD ON			Connector No. M94	GOSINGS INCIDED		Connector Type TK03FW					123				) la	No. Wire Signal value [Specification]	1 Y POWER	Ь	3 B GROUND			
Connector No. M67	ne UNIFIED METER AND A/C AMP.	Connector Type TH32FW-NH				41 42 43 44 45 46 47 83 84 85 86 FF	20 20 20 10 10 10 10 10		Terminal Color Of	No. Wire Signal Name [Specification]	41 V ACC POWER SUPPLY	42 Y FUEL LEVEL SENSOR SIGNAL	43 R INTAKE SENSOR SIGNAL	44 LG IN-VEHICLE SENSOR SIGNAL	Ь	_	G EXHAUS	9	Y BATTER	55 B GROUND	L CAN-H	BRAKE FLUID LEVEL SWITCH SIGNAL	BR FUEL LEVEL SENSOR GROUND	GR INTAKE SENSOR GROUND		BR.	-	œ	BG	٦	R EACH DOOR N	5 B B	72 P CAN-L								
BCM (BODY CONTROL MODULE)			M53	COMBINATION METER	TH40FW-NH				22	212 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3				oignal Name [opecinication]	BATTERY POWER SUPPLY	COMMUNICATION SIGNAL (METER-AMP.)	COMMUNICATION SIGNAL (AMPMETER)	GROUND	ALTERNATOR SIGNAL	AIR BAG SIGNAL	SECURITY SIGNAL	GROUND	METER CONTROL SWITCH GROUND	ILL GND	ITT	IGNITION SIGNAL	GROUND	COMMUNICATION SIGNAL (LCD-AMP.)		VEHICLE SPEED SIGNAL (8-PULSE)		BRAKE FLUID LEVEL SWITCH SIGNAL	SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE)		WASHER LEVEL SWITCH SIGNAL	ILLUMINATION CONTROL SIGNAL			TRIP A/B RESET SWITCH SIGNAL	ILLUMINATION CONTROL SWITCH SIGNAL (-)	ILLUMINATION CONTROL SWITCH SIGNAL (+)
BCM (BOL	а В		Connector No.	Connector Name	Connector Type	\   		•	Ę				Terminal Color Of	No. Wire	1 GR	2 LG	S GR	9 2	9 9	7 BR	10 G	15 B	16 B		20 R	4	-	24 BR	4	26 R	_		29 SB	30 G	31 L	33 B	+	37 SB	38 L	$\dashv$	40 BG

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BCM (BODY CONTROL MODULE)	Connector No. M119	Connector No.	M121	08	GR	NATS ANT AMP
	T			3	5	Contract Charles
COOR CANCEL AMP (BASSENGED SIDE)	Call Indow Independent Model and American Sciences	Connector Mane	BCM (BODY CONTBOL MODILE)	81	8	NATS ANT AMP.
NITOCOL INIUT IOO I				82	œ	IGN RELAY (F/B) CONT
Connector Type A02FW	Connector Type NS16FW-CS	Connector Type	Connector Type TH40FGY-NH	83	>	KEYLESS ENTRY RECEIVER COMM
				87	BR	COMBI SW INPUT 5
	•	_		88	>	COMBI SW INPUT 3
				90	а	CANL
~~	4 5 7 8 9 10			91	_	TAKE
		Į	88	6	9	KEY SLOT III CONT
11.5	11 13 14 15 17 18 19	2	89 88 87 88 65 84 61 55 E	93	} >	ON IND
]				76	· >	PLIDDI F.I. AMP CONT
				95	. E	ACC RELAY CONT
				3	3 8	AND INCENTION OF A
E E	la O	E E	Of Signal Name (Specification)	96	GR	AT SHIFT SELECTOR POWER SUPPLY
	Wire	1		66	¥	SHELP
	4 LG INTERIOR ROOM LAMP POWER SUPPLY	34 SB	LUGGAGE ROOM ANT-	100	G	PASSENGER DOOR REQUEST SW
2 BR -	5 L PASSENGER DOOR UNLOCK OUTPUT	35 V	LUGGAGE ROOM ANT+	101	SB	DRIVER DOOR REQUEST SW
	7 Y STEP LAMP CONT	98 88	BACK DOOR ANT-	102	BG	BLOWER FAN MOTOR RELAY CONT
	8 V ALL DOOR, FUEL LID LOCK OUTPUT	39 W	BACK DOOR ANT+	103	FG	KEYLESS ENTRY RECEIVER POWER SUPPLY
Connector No. M118	9 G DRIVER DOOR, FUEL LID UNLOCK OUTPUT	47 Y	IGN RELAY (IPDM E/R) CONT	107	PC	COMBI SW INPUT 1
	10 BR REAR DOOR UNLOCK OUTPUT	52 SB	STARTER RELAY CONT	108	œ	COMBI SW INPUT 4
Connector Name BCM (BODY CONTROL MODULE)	H	60 BR	PUSHSW	109	>	COMBI SW INPUT 2
Connector Type M03FB-LC	13 B GROUND	61 W	BACK DOOR OPENER REQUEST SW	110	O	HAZARD SW
	14 W PUSH-BUTTON IGNITION SW ILL GND	> >	I-KEY WARN BUZZER (ENG ROOM)			
	>	65 BG	REAR WIPER STOP POSITION			
	W	H	BACK DOOR SW	Connector No.	Γ	M123
1 3	18 BG TURN SIGNAL LH (FRONT)	ľ	BACK DOOR OPENER SW		_	
	>	t	REAR RH DOOR SW	Connector Name		BCM (BODY CONTROL MODULE)
E.3.		69 R	REAR LH DOOR SW	Connecto	r Type	Connector Type TH40FG-NH
]					,	
	Connector No. M120				1	
a	Connector Name BCM (BODY CONTROL MODULE)	Connector No.	M122		1	
<i>a</i>		Connector Name	BCM (BODY CONTROL MODILLE)			
>	Connector Type NS12FW-CS		П	7	V	20 CD
× :	•	Connector Type	TH40FB-NH		1	23 123 123 123 123 123 123 123 123 123 1
3 Y POWER WINDOW POWER SUPPLY(RAP)		_				
				Terminal	Color Of	
					Wire	Signal Name [Specification]
	25 26	Ę	88 88 82 82 82 83 83 83 83 83 83 83 83 83 83 83 83 83	113	۵	OPLICAL SENSOR
		2	110 100 100 101 101 101 101 101 100 00 101	116	SB	STOP LAMP SW 1
				118	۵	STOP LAMP SW 2
	Terminal Color Of			119	SB	DR DOOR UNLOCK SENSOR
		Terminal Color Of	L	121	BR	KEY SLOT SW
	20 V TURN SIGNAL RH (REAR)	No. Wire	Signal Name [Specification]	123	8	IGN F/B
	23 G BACK DOOR OPEN OUTPUT	74 SB	PASSENGER DOOR ANT-	124	P	PASSENGER DOOR SW
	25 G TURN SIGNAL LH (REAR)	75 GR	PASSENGER DOOR ANT+	132	BR	POWER WINDOW SW COMM
	26 G REAR WIPER OUTPUT	۸ 92	DRIVER DOOR ANT-	133	۸	PUSH-BUTTON IGNITION SW ILL POWER
		77 LG	DRIVER DOOR ANT+	134	GR	LOCK IND
		$\dashv$	ROOM ANT1-	137	BG	RECEIVER/SENSOR GND
		79 BR	ROOM ANT1+	138	>	RECEIVER/SENSOR POWER SUPPLY

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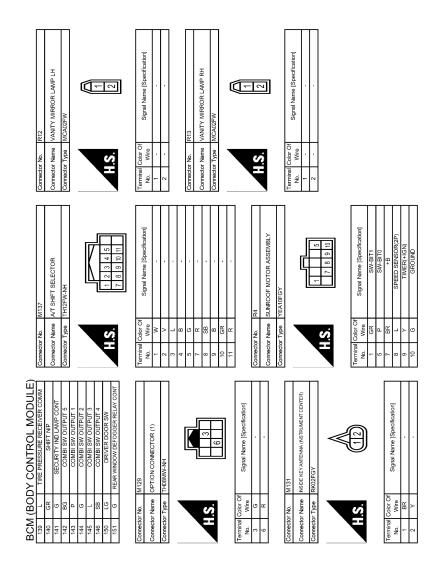
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Fail-safe

#### FAIL-SAFE CONTROL BY DTC

BCM performs fail-safe control when any DTC are detected.

#### < ECU DIAGNOSIS INFORMATION >

[WITH ADP]

Display contents of CONSULT	Fail-safe	Cancellation	/
B2190: NATS ANTENNA AMP	Inhibit engine cranking	Erase DTC	
B2191: DIFFERENCE OF KEY	Inhibit engine cranking	Erase DTC	
B2192: ID DISCORD BCM-ECM	Inhibit engine cranking	Erase DTC	ŀ
B2193: CHAIN OF BCM-ECM	Inhibit engine cranking	Erase DTC	
B2195: ANTI SCANNING	Inhibit engine cranking	Ignition switch ON → OFF	(
B2560: STARTER CONT RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status becomes consistent  • Starter control relay signal  • Starter relay status signal	[
B2608: STARTER RELAY	Inhibit engine cranking	500 ms after the following signal communication status becomes consistent  • Starter motor relay control signal  • Starter relay status signal (CAN)	[
B260A: IGNITION RELAY	Inhibit engine cranking	<ul> <li>500 ms after the following conditions are fulfilled</li> <li>IGN relay (IPDM E/R) control signal: OFF (Battery voltage)</li> <li>Ignition ON signal (CAN to IPDM E/R): OFF (Request signal)</li> <li>Ignition ON signal (CAN from IPDM E/R): OFF (Condition signal)</li> </ul>	
B260F: ENG STATE SIG LOST	Maintains the power supply position attained at the time of DTC detection	When any of the following conditions are fulfilled  • Power position changes to ACC  • Receives engine status signal (CAN)	(
B2617: STARTER RELAY CIRC	Inhibit engine cranking	1 second after the starter motor relay control inside BCM becomes normal	ŀ
B2618: BCM	Inhibit engine cranking	1 second after the ignition relay (IPDM E/R) control inside BCM becomes normal	
B261E: VEHICLE TYPE	Inhibit engine cranking	BCM initialization	

#### REAR WIPER MOTOR PROTECTION

BCM detects the rear wiper stopping position according to the rear wiper stop position signal.

When the rear wiper stop position signal does not change for more than 5 seconds while driving the rear wiper, BCM stops power supply to protect the rear wiper motor.

Condition of cancellation

1. More than 1 minute is passed after the rear wiper stops.

- Turn rear wiper switch OFF.
- 3. Operate the rear wiper switch or rear washer switch.

#### DTC Inspection Priority Chart

INFOID:0000000009359467

If some DTCs are displayed at the same time, perform inspections one by one based on the following priority chart.

Priority	DTC	
1	B2562: LOW VOLTAGE	- N
2	U1000: CAN COMM CIRCUIT     U1010: CONTROL UNIT (CAN)	
3	B2190: NATS ANTENNA AMP B2191: DIFFERENCE OF KEY B2192: ID DISCORD BCM-ECM B2193: CHAIN OF BCM-ECM B2195: ANTI SCANNING	O

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Priority	DTC
4	<ul> <li>B2553: IGNITION RELAY</li> <li>B2555: STOP LAMP</li> <li>B2556: PUSH-BTN IGN SW</li> <li>B2557: VEHICLE SPEED</li> <li>B2560: STARTER CONT RELAY</li> <li>B2601: SHIFT POSITION</li> <li>B2602: SHIFT POSITION</li> <li>B2603: SHIFT POSI STATUS</li> <li>B2604: PNP SW</li> <li>B2605: PNP SW</li> <li>B2605: PNP SW</li> <li>B2607: ENG STARTER RELAY</li> <li>B2607: ENG STATE SIG LOST</li> <li>B2607: ENG STATE SIG LOST</li> <li>B2614: ACC RELAY CIRC</li> <li>B2615: BLOWER RELAY CIRC</li> <li>B2616: IGN RELAY CIRC</li> <li>B2616: IGN RELAY CIRC</li> <li>B2617: STARTER RELAY CIRC</li> <li>B2618: BCM</li> <li>B261A: PUSH-BTN IGN SW</li> <li>B261E: VEHICLE TYPE</li> <li>B26EA: KEY REGISTRATION</li> <li>C1729: VHCL SPEED SIG ERR</li> <li>U0415: VEHICLE SPEED SIG</li> </ul>
5	<ul> <li>C1704: LOW PRESSURE FL</li> <li>C1705: LOW PRESSURE FR</li> <li>C1706: LOW PRESSURE RR</li> <li>C1707: LOW PRESSURE RL</li> <li>C1708: [NO DATA] FL</li> <li>C1709: [NO DATA] FR</li> <li>C1710: [NO DATA] RR</li> <li>C1711: [NO DATA] RL</li> <li>C1716: [PRESSDATA ERR] FL</li> <li>C1717: [PRESSDATA ERR] FR</li> <li>C1718: [PRESSDATA ERR] RR</li> <li>C1719: [PRESSDATA ERR] RR</li> <li>C1734: CONTROL UNIT</li> </ul>
6	B2621: INSIDE ANTENNA     B2623: INSIDE ANTENNA

DTC Index

#### NOTE:

The details of time display are as follows.

- CRNT: A malfunction is detected now.
- PAST: A malfunction was detected in the past.

IGN counter is displayed on Freeze Frame Data. For details of Freeze Frame Data, refer to <u>BCS-18, "COMMON ITEM".</u>

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condition	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
No DTC is detected. further testing may be required.	_	_	_	_	_
U1000: CAN COMM CIRCUIT	_	_	_	_	BCS-41
U1010: CONTROL UNIT (CAN)	_	_	_	_	BCS-42
U0415: VEHICLE SPEED SIG	_	_	_	_	BCS-43
B2190: NATS ANTENNA AMP	×	_	_	_	SEC-40

### < ECU DIAGNOSIS INFORMATION >

		Freeze Frame				
CONSULT display	Fail-safe	Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condition	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page	
B2191: DIFFERENCE OF KEY	×	_	_	_	SEC-43	
32192: ID DISCORD BCM-ECM	×	_	_	_	SEC-44	
B2193: CHAIN OF BCM-ECM	×	_	_	_	SEC-45	
B2195: ANTI SCANNING	×	_	_	_	SEC-46	
B2553: IGNITION RELAY	_	×	_	_	PCS-48	
B2555: STOP LAMP	_	×	_	_	SEC-47	
B2556: PUSH-BTN IGN SW	_	×	×	_	SEC-49	
B2557: VEHICLE SPEED	×	×	×	_	<u>SEC-51</u>	
B2560: STARTER CONT RELAY	×	×	×	_	SEC-52	
B2562: LOW VOLTAGE	_	×	_	_	BCS-44	
B2601: SHIFT POSITION	×	×	×	_	SEC-53	
B2602: SHIFT POSITION	×	×	×	_	SEC-56	
B2603: SHIFT POSI STATUS	×	×	×	_	SEC-59	
B2604: PNP SW	×	×	×	_	SEC-62	
32605: PNP SW	×	×	×	_	SEC-64	
32608: STARTER RELAY	×	×	×	_	SEC-66	
3260A: IGNITION RELAY	×	×	×	_	PCS-50	
3260F: ENG STATE SIG LOST	×	×	×	_	SEC-68	
B2614: ACC RELAY CIRC	_	×	×	_	PCS-52	
B2615: BLOWER RELAY CIRC	_	×	×	_	PCS-55	
B2616: IGN RELAY CIRC	_	×	×	_	PCS-58	
B2617: STARTER RELAY CIRC	×	×	×	_	SEC-71	
B2618: BCM	×	×	×	_	PCS-61	
B261A: PUSH-BTN IGN SW	_	×	×	_	SEC-73	_
3261E: VEHICLE TYPE	×	×	× (Turn ON for 15 seconds)	_	<u>SEC-76</u>	ľ
B2621: INSIDE ANTENNA	_	×	_	_	DLK-58	
32623: INSIDE ANTENNA	_	×	_	_	DLK-60	
326E1: ENG STATE NO RES	×	×	×	_	SEC-69	
326EA: KEY REGISTRATION	_	×	× (Turn ON for 15 seconds)	_	<u>SEC-70</u>	
C1704: LOW PRESSURE FL	_	_	_	×		
C1705: LOW PRESSURE FR	_	_	_	×	WT 22	
C1706: LOW PRESSURE RR	_	_	_	×	<u>WT-23</u>	
C1707: LOW PRESSURE RL	_	_	_	×		
C1708: [NO DATA] FL	_	_	_	×		
C1709: [NO DATA] FR	_	_	_	×	WT of	
C1710: [NO DATA] RR	_	_	_	×	<u>WT-25</u>	
C1711: [NO DATA] RL	_	_	_	×		

### < ECU DIAGNOSIS INFORMATION >

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condition	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
C1716: [PRESSDATA ERR] FL	_	_	_	×	
C1717: [PRESSDATA ERR] FR	_	_	_	×	WT-28
C1718: [PRESSDATA ERR] RR	_	_	_	×	<u> </u>
C1719: [PRESSDATA ERR] RL	_	_	_	×	
C1729: VHCL SPEED SIG ERR	_	_	_	×	<u>WT-30</u>
C1734: CONTROL UNIT	_	_	_	×	<u>WT-32</u>

## DOOR MIRROR DOES NOT OPERATE

[WITH ADP] < SYMPTOM DIAGNOSIS > SYMPTOM DIAGNOSIS Α DOOR MIRROR DOES NOT OPERATE Diagnosis Procedure INFOID:0000000009065346  ${f 1}$  .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-12, "AUTOMATIC DRIVE D POSITIONER SYSTEM: System Diagram". 2.check door mirror remote control switch (mirror switch) Check mirror switch. Refer to MIR-12, "MIRROR SWITCH: Component Function Check". Is the inspection result normal? F YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts. 3.CHECK DOOR MIRROR REMOTE CONTROL SWITCH (CHANGEOVER SWITCH) Check changeover switch. Refer to MIR-14, "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-42, "Intermittent Incident". NO >> GO TO 1. K

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**MIR-109** Revision: 2013 March 2014 QX50

## REVERSE INTERLOCK DOOR MIRROR DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH ADP]

## REVERSE INTERLOCK DOOR MIRROR DOES NOT OPERATE

# Diagnosis Procedure

INFOID:0000000009065347

# 1. CHECK DOOR MIRROR (MANUAL FUNCTION)

Check door mirror function with door mirror remote control switch.

## Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

## 2. CHECK DTC

Check DTC for TCM.

Refer to TM-158, "DTC Index".

## Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

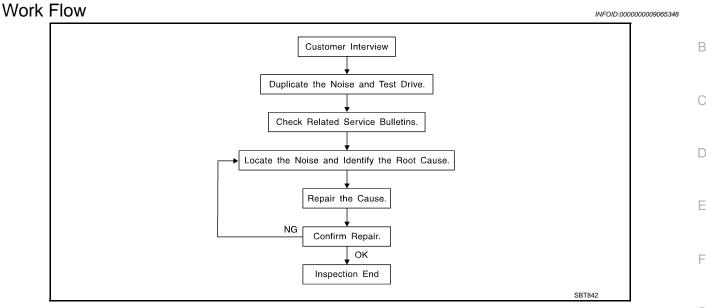
## 3.confirm the operation

Confirm the operation again.

## Is the result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

NO >> GO TO 1.



## **CUSTOMER INTERVIEW**

Interview the customer if possible, to determine the conditions that exist when the noise occurs. Use the Diagnostic Worksheet during the interview to document the facts and conditions when the noise occurs and any of customer's comments; refer to MIR-115, "Diagnostic Worksheet". This information is necessary to duplicate the conditions that exist when the noise occurs.

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

#### DUPLICATE THE NOISE AND TEST DRIVE

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

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**MIR-111** Revision: 2013 March 2014 QX50

## < SYMPTOM DIAGNOSIS >

[WITH ADP]

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-113, "Inspection Procedure".

## REPAIR THE CAUSE

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

#### **CAUTION:**

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

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

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

URETHANE PADS [1.5 mm (0.059 in) thick]

Insulates connectors, harness, etc.

76268-9E005:  $100 \times 135$  mm  $(3.94 \times 5.31$  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.

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

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

**UHMW (TEFLON) TAPE** 

[WITH ADP] < SYMPTOM DIAGNOSIS > Insulates where slight movement is present. Ideal for instrument panel applications. SILICONE GREASE Α Used in place of UHMW tape that will be visible or not fit. Will only last a few months. SILICONE SPRAY Use when grease cannot be applied. В **DUCT TAPE** Use to eliminate movement. CONFIRM THE REPAIR Confirm that the cause of a noise is repaired by test driving the vehicle. Operate the vehicle under the same conditions as when the noise originally occurred. Refer to the notes on the Diagnostic Worksheet. Inspection Procedure D INFOID:0000000009065349 Refer to Table of Contents for specific component removal and installation information. INSTRUMENT PANEL Е Most incidents are caused by contact and movement between: 1. The cluster lid A and instrument panel F Acrylic lens and combination meter housing Instrument panel to front pillar garnish Instrument panel to windshield Instrument panel mounting pins Wiring harnesses behind the combination meter 7. A/C defroster duct and duct joint These incidents can usually be located by tapping or moving the components to duplicate the noise or by pressing on the components while driving to stop the noise. Most of these incidents can be repaired by applying felt cloth tape or silicon spray (in hard to reach areas). Urethane pads can be used to insulate wiring harness. CAUTION: Do not use silicone spray to isolate a squeak or rattle. If you saturate the area with silicone, you will not be able to recheck the repair. CENTER CONSOLE Components to pay attention to include: K 1. Shifter assembly cover to finisher A/C control unit and cluster lid C Wiring harnesses behind audio and A/C control unit MIR The instrument panel repair and isolation procedures also apply to the center console. DOORS Pay attention to the: Finisher and inner panel making a slapping noise Inside handle escutcheon to door finisher N Wiring harnesses tapping 4. Door striker out of alignment causing a popping noise on starts and stops Tapping or moving the components or pressing on them while driving to duplicate the conditions can isolate many of these incidents. 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 Р 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

**MIR-113** Revision: 2013 March 2014 QX50

2. Trunk lid striker out of adjustment

4. A loose license plate or bracket

3. The trunk lid torsion bars knocking together

## < SYMPTOM DIAGNOSIS >

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

#### SUNROOF/HEADLINING

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

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

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

#### **SEATS**

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

Cause of seat noise include:

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

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

#### UNDERHOOD

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

Causes of transmitted underhood noise include:

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

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

[WITH ADP]

Diagnostic Worksheet

INFOID:0000000009065350



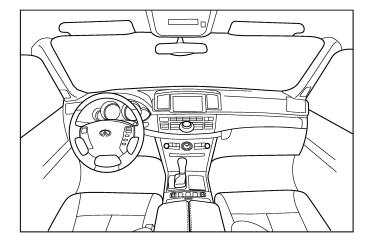
# SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

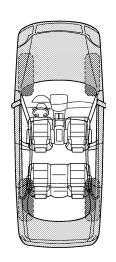
#### Dear Infiniti Customer:

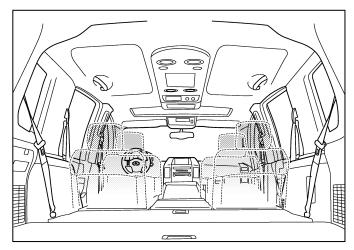
We are concerned about your satisfaction with your Infiniti vehicle. Repairing a squeak or rattle sometimes can be very difficult. To help us fix your Infiniti right the first time, please take a moment to note the area of the vehicle where the squeak or rattle occurs and under what conditions. You may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

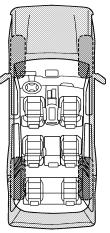
I. WHERE DOES THE NOISE COME FROM? (circle the area of the vehicle)

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









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

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

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## **PRECAUTIONS**

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# **PRECAUTION**

## **PRECAUTIONS**

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

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

#### WARNING:

Always observe the following items for preventing accidental activation.

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

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

#### **WARNING:**

Always observe the following items for preventing accidental activation.

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

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< PREPARATION > [WITH ADP]

# **PREPARATION**

# **PREPARATION**

Commercial Service Tools

INFOID:0000000009065352

Tool name		Description
Remover tool	JMKIA3050ZZ	Remove the clip, pawl and metal clip

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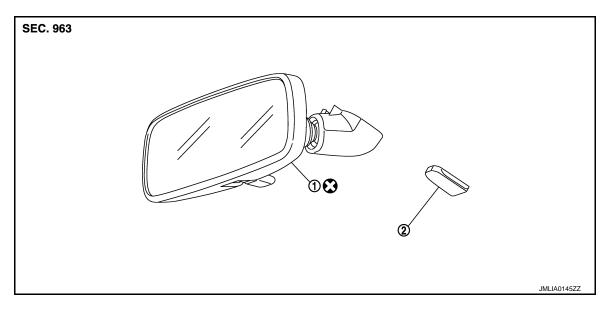
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# REMOVAL AND INSTALLATION

## **INSIDE MIRROR**

Exploded View

Base

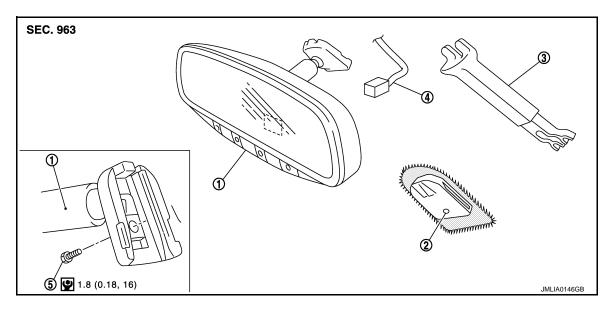


1. Inside mirror

2. Mirror base

: Always replace after every disassembly

# Option



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

3. Inside mirror cover

: N·m (kg-m, in-lb)

Removal and Installation

**REMOVAL** 

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## Base model

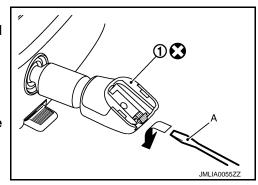
- 1. Insert minus driver (A) under the inside mirror (1).
- Slide the inside mirror to the upper side while pushing the pawl downward.



: Always replace after every disassembly

#### **CAUTION:**

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



## Option model

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

#### INSTALLATION

Install in the reverse order of removal.

## **CAUTION:**

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

## [WITH ADP]

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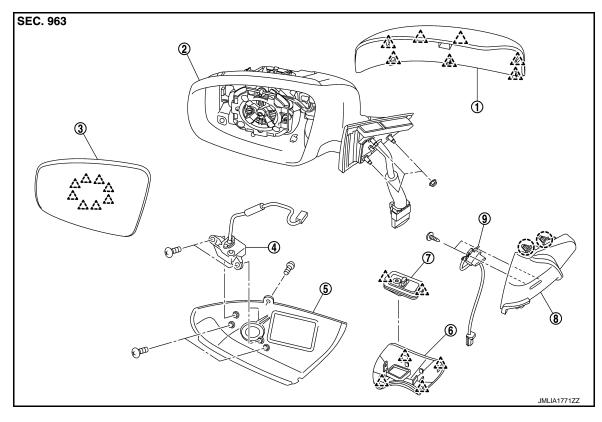
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## **OUTSIDE MIRROR**

Exploded View



- 1. Door mirror cover
- 4. Side camera assembly (with side camera model)
- 7. Puddle lamp
- ( ) : Clip
  ∴ : Pawl

- 2. Mirror assembly
- 5. Side camera finisher assembly (with 6. side camera model)
- 8. Door mirror corner cover
- Glass mirror
- Base cover
- 9. BSW indicator

## DOOR MIRROR ASSEMBLY

## DOOR MIRROR ASSEMBLY: Removal and Installation

#### **REMOVAL**

- 1. Remove front door finisher.
  - Driver side: Refer to <u>INT-11</u>, "<u>DRIVER SIDE</u>: Removal and Installation".
  - Passenger side: Refer to INT-14, "PASSENGER SIDE: Removal and Installation".
- 2. Disconnect BSW indicator harness connector. (if equipped)
- Remove door corner cover fixing clips and remove door corner cover.
- 4. Disconnect door mirror harness connector.
- 5. Remove mounting nuts, and then remove door mirror assembly.

## **INSTALLATION**

Install in the reverse order of removal.

#### **CAUTION:**

Perform camera image calibration. Refer to <u>AV-428</u>, "<u>CALIBRATING CAMERA IMAGE (AROUND VIEW MONITOR)</u>: Work <u>Procedure</u>".

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## DOOR MIRROR ASSEMBLY: Disassembly and Assembly

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## DISASSEMBLY

- Remove door mirror cover. Refer to MIR-122, "DOOR MIRROR COVER: Removal and Installation".
- 2. Remove side camera after removing door mirror assembly.(BOSE audio with navigation model)
  - Side camera LH: Refer to <u>AV-538</u>, "Removal and Installation".
  - Side camera RH: Refer to AV-539, "Removal and Installation".
- 3. Remove base cover and puddle lamp.

#### **ASSEMBLY**

Assemble in the reverse order of disassemble.

**GLASS MIRROR** 

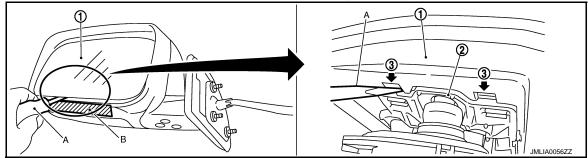
GLASS MIRROR: Removal and Installation

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#### DISASSEMBLY

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

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



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

#### NOTE:

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

## **ASSEMBLY**

Assemble in the reverse order of disassemble.

## **CAUTION:**

After installation, visually check that pawls are securely engaged.

DOOR MIRROR COVER

DOOR MIRROR COVER: Removal and Installation

INFOID:0000000009065359

#### **CAUTION:**

Do not damage the mirror bodies.

#### DISASSEMBLY

- Remove the glass mirror. Refer to MIR-122, "GLASS MIRROR: Removal and Installation".
- Remove the pawls, and disassemble the door mirror cover from the mirror assembly.

#### **ASSEMBLY**

Assemble in the reverse order of disassemble.

#### **CAUTION:**

After installation, visually check that pawls are securely engaged.

## DOOR MIRROR REMOTE CONTROL SWITCH

< REMOVAL AND INSTALLATION >

[WITH ADP]

## DOOR MIRROR REMOTE CONTROL SWITCH

Exploded View

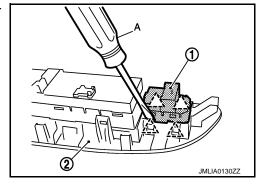
Refer to INT-11, "DRIVER SIDE: Exploded View".

## Removal and Installation

# REMOVAL 1. Remove the power window main switch finisher. Refer to <a href="INT-11">INT-11</a>, "DRIVER SIDE: Removal and Installa-

- 2. Remove door mirror remote control switch (1) from power window main switch finisher (2) using remover tool (A).
  - 八: Pawl

tion".



## **INSTALLATION**

Install in the reverse order of removal.

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Revision: 2013 March MIR-123 2014 QX50

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# SYSTEM DESCRIPTION

# DOOR MIRROR SYSTEM

# **Component Description**

INFOID:0000000009065362

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:0000000009065363

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

# Component Description

INFOID:0000000009065364

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

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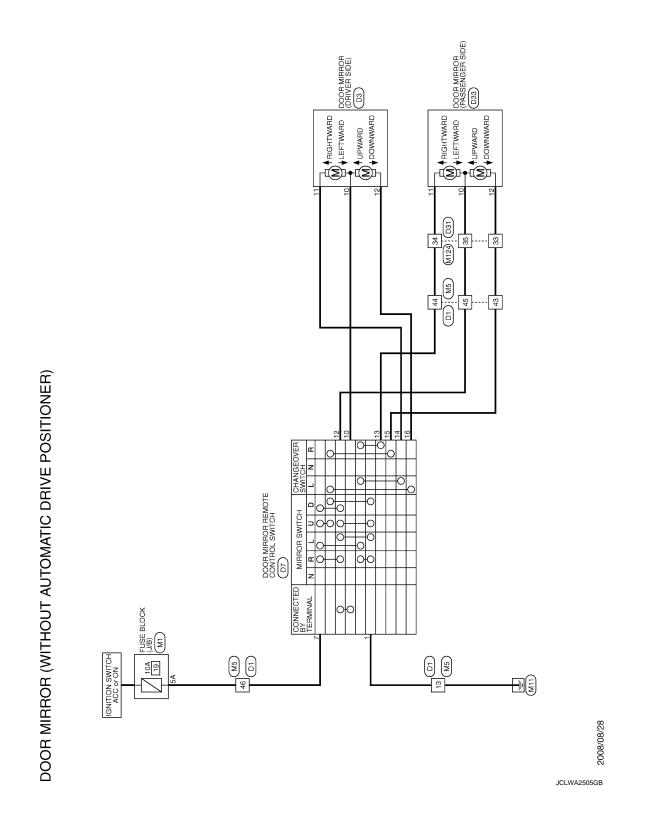
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# DTC/CIRCUIT DIAGNOSIS

# DOOR MIRROR SYSTEM

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

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

< DTC/CIRCUIT DIAGNOSIS >

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

Wiring Diagram - INSIDE MIRROR SYSTEM -

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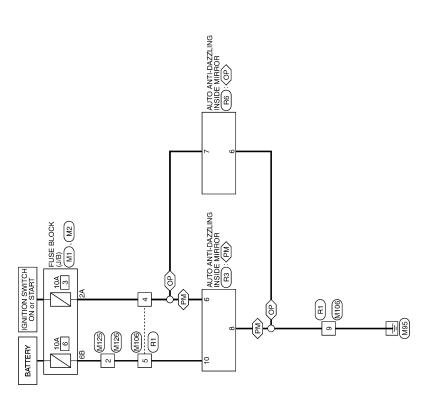
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⟨PM⟩: With automatic drive positioner
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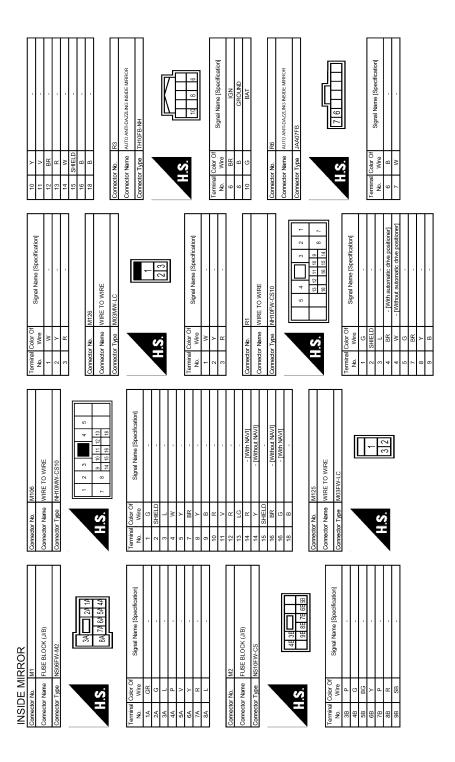
INSIDE MIRROR

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

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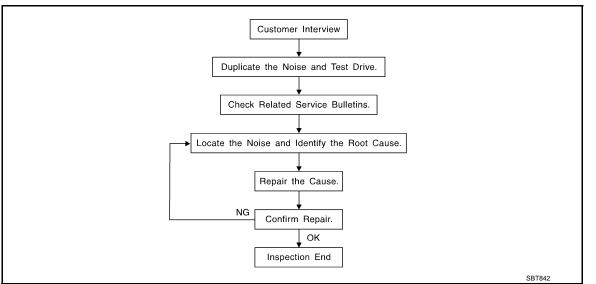
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< SYMPTOM DIAGNOSIS >

# SYMPTOM DIAGNOSIS

## SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow



## **CUSTOMER INTERVIEW**

Interview the customer if possible, to determine the conditions that exist when the noise occurs. Use the Diagnostic Worksheet during the interview to document the facts and conditions when the noise occurs and any of customer's comments; refer to <a href="MIR-135">MIR-135</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

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## < SYMPTOM DIAGNOSIS >

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

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

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

#### CHECK RELATED SERVICE BULLETINS

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

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

## LOCATE THE NOISE AND IDENTIFY THE ROOT CAUSE

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

Refer to MIR-133, "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 × 25 mm (0.59 × 0.98 in) pad/68239-13E00: 5 mm (0.20 in) wide tape roll The following materials, not found in the kit, can also be used to repair squeaks and rattles. UHMW (TEFLON) TAPE	А
Insulates where slight movement is present. Ideal for instrument panel applications.  SILICONE GREASE  Used in place of UHMW tape that will be visible or not fit. Will only last a few months.  SILICONE SPRAY	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.	e D
Inspection Procedure	68 E
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	F
<ol> <li>Acrylic lens and combination meter housing</li> <li>Instrument panel to front pillar garnish</li> </ol>	G
<ol> <li>Instrument panel to windshield</li> <li>Instrument panel mounting pins</li> <li>Wiring harnesses behind the combination meter</li> </ol>	Н
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 b pressing on the components while driving to stop the noise. Most of these incidents can be repaired b applying felt cloth tape or silicon spray (in hard to reach areas). Urethane pads can be used to insulate wiring harness. CAUTION:	y e
Do not use silicone spray to isolate a squeak or rattle. If you saturate the area with silicone, you will not be able to recheck the repair.	J
CENTER CONSOLE	K
Components to pay attention to include:	
Shifter assembly cover to finisher	MIF
2. A/C control unit and cluster lid C	
<ol> <li>Wiring harnesses behind audio and A/C control unit</li> <li>The instrument panel repair and isolation procedures also apply to the center console.</li> </ol>	M
DOORS	
Pay attention to the:	Ν
<ol> <li>Finisher and inner panel making a slapping noise</li> <li>Inside handle escutcheon to door finisher</li> </ol>	
3. Wiring harnesses tapping	0
4. Door striker out of alignment causing a popping noise on starts and stops	
Tapping or moving the components or pressing on them while driving to duplicate the conditions can isolate many of these incidents. You can usually insulate the areas with felt cloth tape or insulator foam blocks from the Nissan Squeak and Rattle Kit (J-43980) to repair the noise.	
TRUNK	

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

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

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[WITHOUT ADP]

#### SQUEAK AND KATTLE TROUBLE DIAGNOSES

- The trunk lid torsion bars knocking together
- 4. 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 knocking noise
- 2. Sunvisor shaft shaking in the holder
- 3. Front or rear windshield touching headlining and squeaking

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

#### SEATS

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

Cause of seat noise include:

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

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

## **UNDERHOOD**

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

Causes of transmitted underhood noise include:

- 1. Any component mounted to the engine wall
- 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.

< SYMPTOM DIAGNOSIS >

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Diagnostic Worksheet

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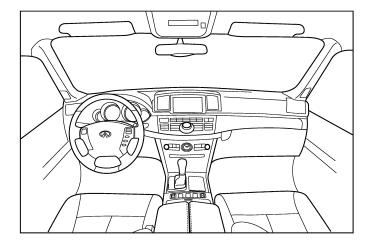
# SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

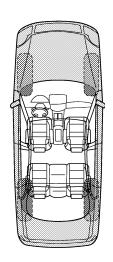
#### Dear Infiniti Customer:

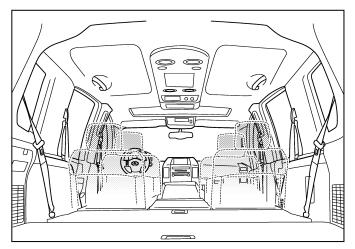
We are concerned about your satisfaction with your Infiniti vehicle. Repairing a squeak or rattle sometimes can be very difficult. To help us fix your Infiniti right the first time, please take a moment to note the area of the vehicle where the squeak or rattle occurs and under what conditions. You may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

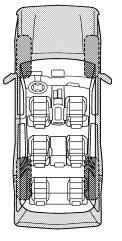
## I. WHERE DOES THE NOISE COME FROM? (circle the area of the vehicle)

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









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

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Briefly describe the location where the noise	occurs:			
II. WHEN DOES IT OCCUR? (please check t	the boxes th	at ap	ply)	
□ anytime □ 1st time in the morning □ only when it is cold outside □ only when it is hot outside □ only when it is hot outside	after sittin when it is dry or du other:	raini	ing or wet	
III. WHEN DRIVING:	V. WHAT T	YPE (	OF NOIS	<b>E</b>
through driveways over rough roads over speed bumps only about mph on acceleration coming to a stop on turns: left, right or either (circle) with passengers or cargo other: after driving miles or minute	creak (like a cr	e wal e sha ke a k a cloc eavy,	Iking on a king a ba nock at th ck second	hand) knock noise)
TO BE COMPLETED BY DEALERSHIP PEI Test Drive Notes:	RSONNEL			
	YI		NO	Initials of person
		-0	110	performing
Vehicle test driven with customer - Noise verified on test drive - Noise source located and repaired		]		
- Follow up test drive performed to confirm re	pan L			
- Follow up test drive performed to confirm re VIN:	. Custome	- r Nar	ne:	

This form must be attached to Work Order

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## **PRECAUTIONS**

< PRECAUTION > [WITHOUT ADP]

# **PRECAUTION**

## **PRECAUTIONS**

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

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

#### **WARNING:**

Always observe the following items for preventing accidental activation.

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

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

#### **WARNING:**

Always observe the following items for preventing accidental activation.

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

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< PREPARATION > [WITHOUT ADP]

# **PREPARATION**

# **PREPARATION**

Commercial Service Tools

Tool name		Description
Remover tool	JMKIA3050ZZ	Remove the clip and pawl and metal clip

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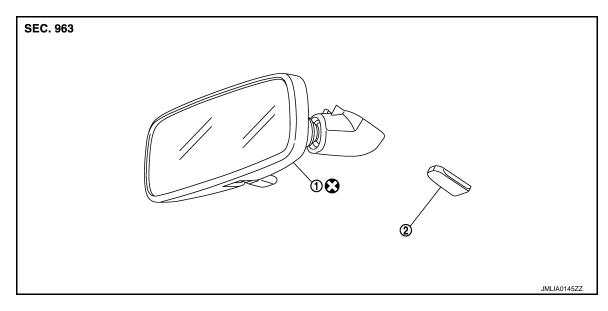
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# REMOVAL AND INSTALLATION

## **INSIDE MIRROR**

Exploded View

Base

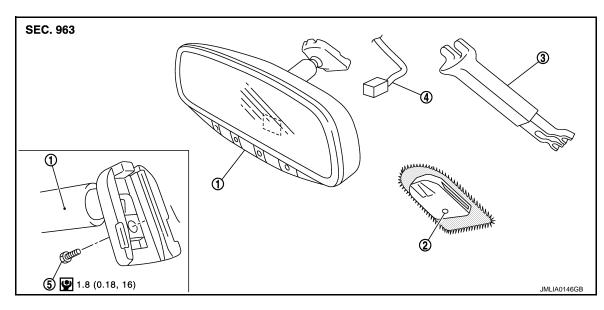


1. Inside mirror

2. Mirror base

: Always replace after every disassembly

# Option



1. Inside mirror

2. Mirror base

TORX bolt

3. Inside mirror cover

4. Harness connector

: N·m (kg-m, in-lb)

## Removal and Installation

**REMOVAL** 

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## Base model

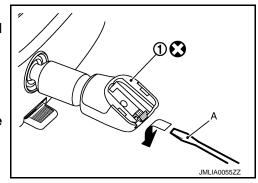
- 1. Insert minus driver (A) under the inside mirror (1).
- Slide the inside mirror to the upper side while pushing the pawl downward.



: Always replace after every disassembly

#### **CAUTION:**

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



## Option model

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

#### INSTALLATION

Install in the reverse order of removal.

## **CAUTION:**

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

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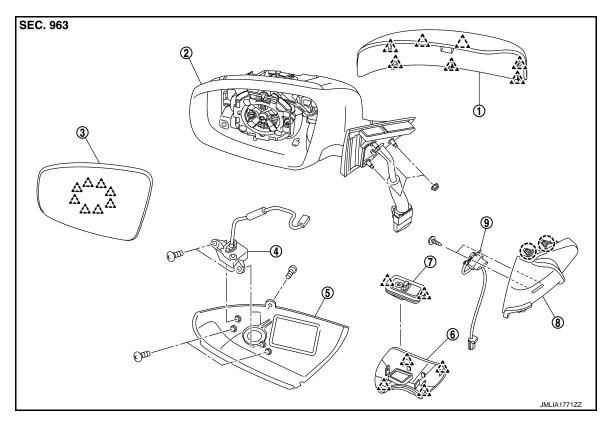
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## **OUTSIDE MIRROR**

Exploded View



- 1. Door mirror cover
- 4. Side camera assembly (with side camera model)
- 7. Puddle lamp
- ( ☐) : Clip
  ∴ : Pawl

- 2. Mirror assembly
- 5. Side camera finisher assembly (with 6. side camera model)
- 8. Door mirror corner cover
- Glass mirror
  - Base cover
- 9. BSW indicator

## DOOR MIRROR ASSEMBLY

## DOOR MIRROR ASSEMBLY: Removal and Installation

## **REMOVAL**

- 1. Remove front door finisher.
  - Driver side: Refer to INT-11, "DRIVER SIDE: Removal and Installation".
  - Passenger side: Refer to INT-14, "PASSENGER SIDE: Removal and Installation".
- 2. Disconnect BSW indicator harness connector. (if equipped)
- Remove door corner cover fixing clips and remove door corner cover.
- 4. Disconnect door mirror harness connector.
- 5. Remove door mirror mounting nuts, and remove door mirror assembly.

## **INSTALLATION**

Install in the reverse order of removal.

#### **CAUTION:**

Perform camera image calibration. Refer to <u>AV-428</u>, "<u>CALIBRATING CAMERA IMAGE (AROUND VIEW MONITOR)</u>: Work <u>Procedure</u>".

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## DOOR MIRROR ASSEMBLY: Disassembly and Assembly

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## DISASSEMBLY

- Remove door mirror cover. Refer to MIR-142, "DOOR MIRROR COVER: Disassembly and Assembly".
- Remove side camera after removing door mirror assembly (BOSE audio with navigation model).
  - Side camera LH: Refer to <u>AV-538</u>, "Removal and Installation".
  - Side camera RH: Refer to AV-539, "Removal and Installation".
- 3. Remove base cover and puddle lamp.

#### **ASSEMBLY**

Assemble in the reverse order of disassemble.

**GLASS MIRROR** 

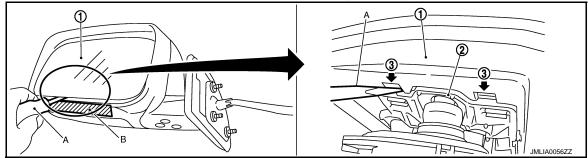
GLASS MIRROR: Disassembly and Assembly

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#### DISASSEMBLY

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

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



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

#### NOTE:

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

## **ASSEMBLY**

Assemble in the reverse order of disassemble.

#### **CAUTION:**

After installation, visually check that pawls are securely engaged.

## DOOR MIRROR COVER

DOOR MIRROR COVER: Disassembly and Assembly

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#### **CAUTION:**

Do not damage the mirror bodies.

#### DISASSEMBLY

- Remove the glass mirror. Refer to MIR-142, "GLASS MIRROR: Disassembly and Assembly".
- 2. Remove the pawls, and disassemble the door mirror cover from the mirror assembly.

#### **ASSEMBLY**

Assemble in the reverse order of disassemble.

#### **CAUTION:**

After installation, visually check that pawls are securely engaged.

## DOOR MIRROR REMOTE CONTROL SWITCH

< REMOVAL AND INSTALLATION >

[WITHOUT ADP]

## DOOR MIRROR REMOTE CONTROL SWITCH

Exploded View

Refer to INT-11, "DRIVER SIDE: Exploded View".

## Removal and Installation

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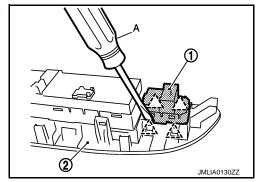
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## **REMOVAL**

- 1. Remove the power window main switch finisher. Refer to <a href="INT-11">INT-11</a>, "DRIVER SIDE: Removal and Installation".
- 2. Remove door mirror remote control switch (1) from power window main switch finisher (2) using remover tool (A).





## **INSTALLATION**

Install in the reverse order of removal.

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