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DIAGNOSIS AND REPAIR WORKFLOW

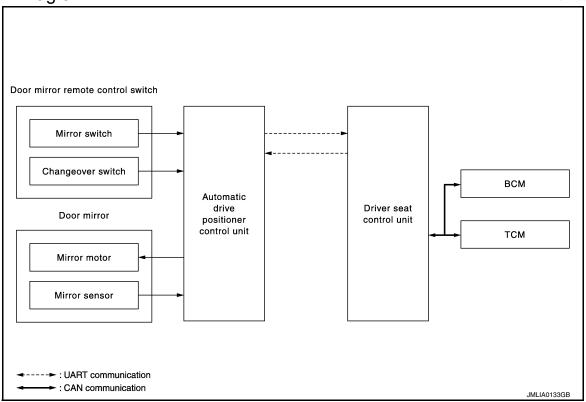
IWITH ADPI < BASIC INSPECTION > BASIC INSPECTION Α DIAGNOSIS AND REPAIR WORKFLOW Work Flow INFOID:0000000010597928 В **DETAILED FLOW** OBTAIN INFORMATION ABOUT SYMPTOM Interview the customer to obtain the malfunction information (conditions and environment when the malfunction occurred) as much as possible 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-141, "DTC Index". NO >> GO TO 3. $3.\mathsf{REPRODUCE}$ THE MALFUNCTION INFORMATION Check the malfunction on the vehicle that the customer describes. Inspect the relation of the symptoms and the condition when the symptoms occur. Н >> GO TO 4. $oldsymbol{4}.$ 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 $\mathsf{6}.\mathsf{REPAIR}$ 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:0000000010597929



System Description

INFOID:0000000010597930

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 Key to a stored memory position. D Memory Procedure 1. 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). 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 least 1 second. Н 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). Turn the door mirror control switch (changeover switch) to R (right).

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.

Repeat the above procedure to adjust the right mirror position and store in the selected memory.

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

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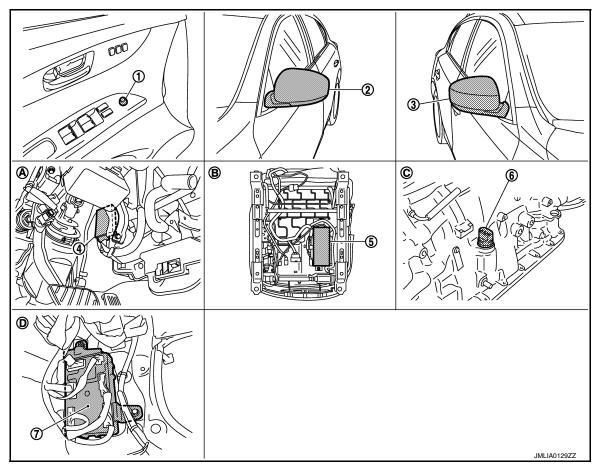
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Revision: February 2015 MIR-5 2015 QX50

Component Parts Location

INFOID:0000000010597931



- 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
 - B. Back side of the seat cushion
- 3. Door mirror (passenger side)
- 6. AT assembly connector (TCM)
- C. AT assembly (TCM is built in AT assembly)

Component Description

INFOID:0000000010597932

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 BCM		It makes mirror face operate from side to side and up and down via integrated motor.	
		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.	
TCM	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:0000000010597933

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:0000000010597934

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

INFOID:0000000011067112

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

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

CONSULT Function

INFOID:0000000011067113

SELF-DIAGNOSIS RESULTS

Refer to MIR-49, "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.

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Monitor Item	Unit	Contents	
STARTER SW	"ON/OFF"	Ignition key switch ON (START, ON)/OFF (ACC, OFF) status judged from the ignition switch signal.	
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.	
R POSITION SW	"ON/OFF"	NOTE: This item is display, but cannot be used.	
DETENT SW	"ON/OFF"	The selector lever position "OFF (P position) / ON (other than P position)" judged from the detention switch signal.	
STEERING STATUS "LOCK/UNLOCK" LOCK/UNLOCK status judged from steering lock unit.		LOCK/UNLOCK status judged from steering lock unit.	
PARK BRAKE SW	"ON/OFF"	NOTE: This item is display, but cannot be used.	
SLIDE SW-FR	"ON/OFF" ON/OFF status judged from the sliding switch (forward) signal.		
SLIDE SW-RR	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 SW-UP	"ON/OFF"	ON/OFF status judged from the lifting switch front (up) signal.	
LIFT SW-DOWN	"ON/OFF" ON/OFF status judged from the lifting switch front (down) 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	ELESCO 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.	
MIR CON SW–UP "ON/OFF" ON/OFF status judged from the mirror switch (up) signal.		ON/OFF status judged from the mirror switch (up) signal.	

MIR-9 **Revision: February 2015** 2015 QX50 MIR

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Monitor Item	Unit	Contents	
MIR CON SW-DN	"ON/OFF"	ON/OFF status judged from the mirror switch (down) signal.	
MIR CON SW-RH	"ON/OFF"	ON/OFF status judged from the door mirror remote control switch (passer ger 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 PULSE	_	Value (32768) when battery connections are standard. If it moves DOWN, the value increases. If it moves UP, the value decreases.	
TELESCO PULSE	_	Value (32768) when battery connections are standard. If it moves backward, the value increases. If it moves forward, the value decreases.	
MIR/SEN RH U-D	" V "	Voltage input from door mirror sensor (passenger side) up/down is displayed.	
MIR/SEN RH R-L	"V"	Voltage input from door mirror sensor (passenger side) left/right is displayed.	
MIR/SEN LH U-D	"V"	Voltage input from door mirror sensor (driver side) up/down is displayed.	
MIR/SEN LH R-L	"V"	Voltage input from door mirror sensor (driver side) left/right is displayed.	
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 PULSE	_	Value (32768) when battery connections are standard. If it moves DOWN the value increases. If it moves UP, the value decreases.	
VEHICLE SPEED	_	Display the vehicle speed signal received from combination meter by numerical value [km/h]	
P RANG SW CAN	"ON/OFF"	ON/OFF status judged from P range switch signal.	
R RANG (CAN)	"ON/OFF"	ON/OFF status judged from R range switch signal.	
DOOR SW-FL	"OPEN/CLOSE"	ON/OFF status judged from front door switch LH switch signal.	
DOOR SW-FR	"OPEN/CLOSE"	ON/OFF status judged from front door switch RH switch signal.	
IGN ON SW	"ON/OFF"	ON/OFF status judged from ignition switch signal.	
ACC ON SW	"ON/OFF"	ON/OFF status judged from ACC switch signal.	
KYLS DR UNLK	"ON/OFF"	ON/OFF status judged from driver door unlock status.	
KEYLESS ID	_	Key ID status judged from key ID signal.	
VHCL SPEED (ABS)	"NORCV/RCV"	ON/OFF status judged from vehicle speed signal.	
HANDLE	"RHD/LHD"	RHD/LHD status judged from handle position signal.	
TRANSMISSION	"[A/T]/[M/T]"	/[M/T]" Transmission type judged from TCM.	

ACTIVE TEST CAUTION:

When driving vehicle, do not perform active test.

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

DIAGNOSIS SYSTEM (DRIVER SEAT C/U)

< SYSTEM DESCRIPTION >

[WITH ADP]

	Test item	Description
	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.		Activates/deactivates the mirror motor (driver side).
		Turns ON/OFF the memory indicator.

WORK SUPPORT

Work item	Content	Item
	T SLIDE VOLUME SET The amount of seat sliding for entry/exit assist can be selected from 3 items.	40 mm
SEAT SLIDE VOLUME SET		80 mm
		150 mm
EXIT TILT SETTING	Entry/exit assist (steering column) can be selected: ON (operated) – OFF (not operated)	ON
EXIT TILL SETTING		OFF
EXIT SEAT SLIDE SETTING	Entry/exit assist (seat) can be selected:	ON
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:0000000010597937

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:0000000010597938

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
WIR CON SW-OP/DN	Other than above.	: OFF
MIR CON SW-RH/LH	When operating the mirror switch toward the right or left side.	: ON
	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:0000000010597939

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		(/ ippi ox.)
D17	4	Ground	5
	12		
	13	Ground	
	15		

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK MIRROR SWITCH CIRCUIT

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

DOOR MIRROR REMOTE CONTROL SWITCH

< DTC/CIRCUIT DIAGNOSIS >

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Automatic drive p	Automatic drive positioner control unit		Door mirror remote control switch	
Connector	Terminal	Connector Terminal		Continuity
	3	D17	15	
M78	4		13	Existed
	15		12	Existed
	16		4	

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

Automatic drive positioner control unit			Continuity
Connector	Terminal		Continuity
M78	3	Ground	Not existed
	4		
	15		NOT EXISTED
	16		

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to ADP-220, "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-125, "Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-45, "Intermittent Incident".

>> INSPECTION END

MIRROR SWITCH: Component Inspection

1. CHECK MIRROR 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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INFOID:0000000010597940

Door	Door mirror remote control switch		Condition		Continuity
Connector	Terr	minal	Condition		Continuity
	4			RIGHT	Existed
	7		Mirror switch	Other than above	Not existed
	13	7		LEFT	Existed
D17	13			Other than above	Not existed
DII	15			UP	Existed
				Other than above	Not existed
	40		DOWN	Existed	
	12			Other than above	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace door mirror remote control switch. Refer to MIR-125, "Removal and Installation".

CHANGEOVER SWITCH

CHANGEOVER SWITCH: Description

INFOID:0000000010597941

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

INFOID:0000000010597942

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	
WIII OF ING SW-IVE	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

INFOID:0000000010597943

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	
DII	11	Ground	5	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK CHANGEOVER SWITCH CIRCUIT

DOOR MIRROR REMOTE CONTROL SWITCH

<pre>< DTC/CIRCUIT DIAGNOSIS ></pre>	

[WITH ADP]

1.	Turn	ignition	switch	OFF
	IUIII	IMITICIO	SVVILGII	\circ

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

Automatic drive positioner control unit		Door mirror remote control switch		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M78	2	D17	11	Existed
IVI7O	14		10	LAISCEU

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

Automatic drive po	sitioner control unit		Continuity
Connector	Terminal	Ground	
M78	2	Glodina	Not existed
	14		Not existed

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to ADP-220, "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 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.

>> Replace door mirror remote control switch (changeover switch). Refer to MIR-125, "Removal and NO Installation".

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-45, "Intermittent Incident".

>> INSPECTION END

CHANGEOVER SWITCH: Component Inspection

1. CHECK CHANGEOVER SWITCH

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

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INFOID:0000000010597944

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	Changoover switch	Other than above	Not existed
DIT	11	,	Changeover switch	RIGHT	Existed
	11			Other than above	Not existed

Is the inspection result normal?

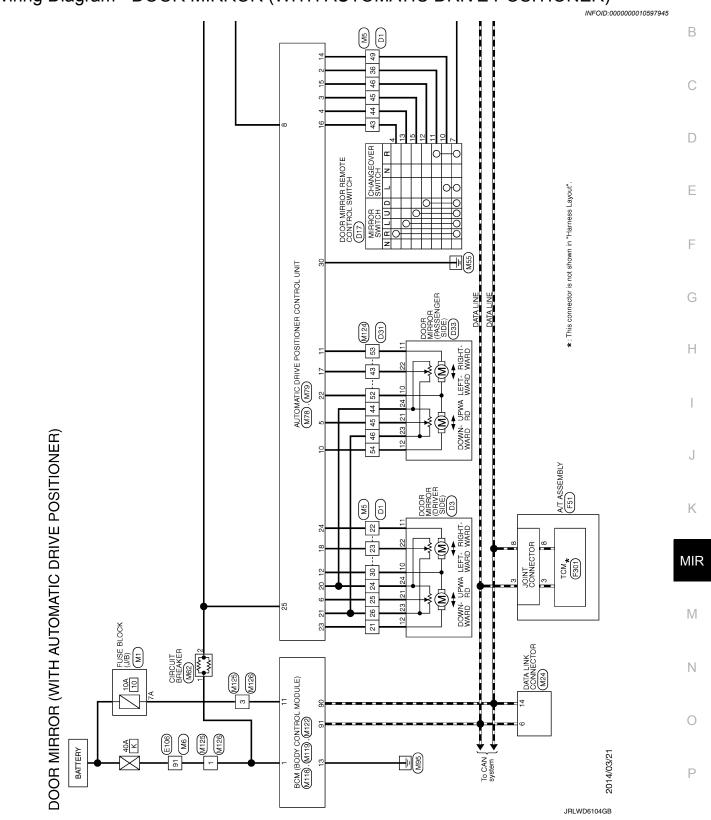
YES >> INSPECTION END

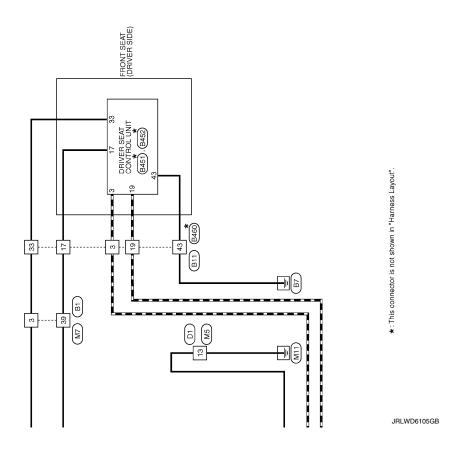
NO >> Replace door mirror remote control switch. Refer to MIR-125, "Removal and Installation".

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DOOR MIRROR SYSTEM

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





Connector Name Connector Type H.S. Terminal Color Of No. Wire 3 R	WIRE TO W	49 50	B 8 - 1 - 1		Т		
H.S. H.S. H.S. H.S. H.S. H.S. H.S. H.S.	TH80FW-CS16-TM4	50	- L L B		Connector Name MIDE TO MIDE		6 - ADDRESS 2
H.S. H.S. Terminal Co	TH80FW-CS16-TM4	20			. T		7 - IND 2
<u>√</u> <u> </u>			۔ ہ	-	Connector Type NS16FW-CS		
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9	_		á		
<u>تو</u> ا		<u>.</u>			手		10 - FRONI LIFTER SW (DOWNWARD
Terminal Co		29	SHELD		28 24	5 17 7 7 13 3 10	
Terminal Co	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2	ř		4	ᆘ	
Terminal Co	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	64	ŋ	-	23 7 33	3 22 32 6 66 60 67	-
Terminal Col	5 (A. 100) (S. 10) (S.	65	SHIELD	_	Ш		18 - PULSE (SLIDE)
Terminal Col No.		99	>				19 - PULSE (FRONT LIFTER)
Terminal Col No. v		67	>	1			20 - PULSE (REAR LIFTER)
ο S	L	89	S.		*		21 - PHI SE(TII T)
П	Mire Signal Name [Specification]	80	CHE		Wire	Signal Name [Specification]	
$\frac{1}{1}$		S F			Т		
		2	-		0		1
+	- 5	73	95	-	+		
9	SB	74	_	ı	e SB	1	-
7		75	۸	_	7 P	_	-
		9/	BR		Y 71	-	-
=	_	11	ч	-	19 P	1	28 - SET SW
12	- 88	78	۵		> 12		
H	- 51	62	ä		1 22		
ł		63	Sa		ľ		Connector No DAS9
+	5 <	3 8	3 :		t		Τ
+	י	Ĉ.	,		+		Connector Name DRIVER SEAT CONTROL UNIT
91	٦.	98	ΓC		32 B		
_	- A	87	>		33 R	1	Connector Type NS16FW-CS
H	95	88	۵		H		
H		8	٥		ł		QI.
t	2 1	8	١		ł		
†	BK	8	200		98 88		36 35
	SHIELD -	91	9		97 Y	_	2
22	·	92	BR				42 A2 A4 AA
H	-	693	٣				00 00 01 11 21 01
+		3	, ;		, N		
+	0	ħ	9		ı		
\dashv	- 2	92	g	1	Connector Name DRIVER SEAT CONTROL LINIT	TINIT IONITION	
_		96	>	1			O
30	SHIELD -	86	*		Connector Type TH32FW		
t	Cililo	8	5		1		(OTO) TAG
t	TELD.	66	5		q		1
+	·						-
_	SB						35 - RECLINER MOTOR (FORWARD)
H							
╀	, ,				12	11 10 9 8 7 6 5 4 2 1	ļ
ę,					28.2	24 23 22 24 20 19	38 - SLIDE MOTOR (FORWARD)
4	-						-
37	- a						40 - FRONT LIFTER MOTOR (UPWA
Ļ	-						41 - REAR LIFTER MOTOR (LIPWARD)
╀	>				T		l
+					5 2010	Signal Name [Specification]	42 = REAR LIFTER MOTOR (DOWNWARD
4	- SB				No. Wire		
	· -				-	CAN-H	
┞	-					HART (TX/RY)	
	5					IL SE (DECLINED)	
╀					_	JLSE (RECLINER)	
46	T						
_	GR -				2 - L	UART (TX/RX) PULSE (RECLINER)	

Revision: February 2015 MIR-19 2015 QX50

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DOOR N	DOOR MIRROR (WITH AUTOMATIC DRIVE POSITIONER)	RIVE P	LISO	JONER)					
Connector No.	B460	2	_	-	25	ď	-	Connector No.	D17
	LOWN OF LOWN	9	0	-	23	SB	1	2	Troubles rought to desire a constant
Connector Nan	Connector Name WIRE TO WIRE	7	GR	1	54	0	1	Connector Name	DOOR MIRROR REMOTE CONTROL SMITCH
Connector Type	NS16MW-CS	80	^		22	>		Connector Type	TK16FBR
	1	6	0	1					
Œ		9	BR	1				Œ	
手		=	۵	1	Conne	Connector No.	D3	手	
S.	19 3 43 11 5 21 28	12	2	1	į	1	(Tata anima) acada acada	Š	4
	R7 R0 R8 R 32 22 33 7 23	5	8	1	Course	otor Name	DOOR MIRROR (DRIVER SIDE)		8 9 10 11 12 13 15
	0 05 55 00 7	7	>		Conne	Connector Type	TH24MW-NH		0 0 10 0 0
		15	M	1					
		16	~	1	Œ	•			
Terminal Color Of		17	^	1	手			Terminal Color Of	3 3
No. Wire		92	G	1	7	Σ V	12 11 10 7 8 5 3 2	No. Wire	Signal Name [Specification]
3	-	19	>	1		ı	0	4 BR	-
9		20	>				24 23 22 21 19 18 17 14	7 B	-
9		21	0					80	
F		33	۵					6	
17 Y/B	- "	23	8		Terminal	al Color Of		H	
t		24	>		N.		Signal Name [Specification]	╀	
ŀ		3	. 8		ľ	t		╀	
╁		96	}		4 0	•	SIDE CAMEBA LIL COMMA	+	
27 66		2 5	٥		2 4	>	SIDE CAMEBA I IL IMAGE SIGNAL	╀	
+		7 00	2		,	- 4	SIDE COMETO EL IMPORTO SIDOS	2	
ľ		07	Sulle Sulle		,	4 3	SIDE CAMENA EN FOMEN SOFFEI		
+	-	67	3 4		,	+			
3	1	9	5 :		2	+		Connector No.	Dist
+		7	* ·	1	1	+	'	Connector Name	WIRE TO WIRE
90 Y/K	<u>'</u>	35	5		2	+			
99 99	-	83	1	-	#	+	-	Connector Type	TH40FW-CS15
67		34	SB	1	17	g	SIDE CAMERA LH IMAGE GND	4	
		35	œ	1	18	+	SIDE CAMERA LH GND	li di	
		36	PC		19	\dashv		ŧ	15 14 13 12 11 10 9 8 7 8 5 4 3 2 1
Connector No.	D1	37	~		21	\dashv		2	The state of the s
Connector Name	WIRE TO WIRE	38	۵	1	22	BB	1		
		39	0	-	23	>	_		
Connector Type	TH40FW-CS15	40	BR	-	24	>	-		
(4	٦	_					
F		45	æ					Ja O	f Signal Name [Specification]
ŧ	15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	43	æ	4				No. Wire	
S E	Ę	43	٥	4				7 R	1
	50 50 50 50 50 50 50 50 50 50 50 50 50 5	44	В	- [Without automatic drive positioner]				8 BR	=
	.	44	W	- [With automatic drive positioner]				6	-
		45	9	- [Without automatic drive positioner]				12 P	-
		45	Υ	- [With automatic drive positioner]				13 FG	
al	of [-:	46	5					14 B	
No. Wire		46	^	- [Without automatic drive positioner]				15 W	-
1 R	-	47	۳	-				16 BR	-
2 B		48	ŋ	-				Н	
H		49	GR	-				18 R	-
Н	-	20	SHIELD	O				Н	-

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DOOR	MIRR	DOOR MIRROR (WITH AUTOMATIC DRIVE POSITIONER)	RIVE	POSITI	IONER)							
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╀		- Date DOOR	ľ	ł	SIDE CAMEDA DIL CAD	3			8	. 5		
2 66	5 >	- [with Book audio]	ľ	+	SIDE CAMIERA KIT GIND	ŧ ĸ	2 ر		8 8	U I		
2 6			2 6	ł		8 8	onid o	1	8 2	3		
3 2	. 3		1	+		8 5	OTHE I	'	5	,		
5 5	: 8		1	3 22		8	. 8	'	97			
67	9 0		3 8	+		9 8	á	'	8 8			
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Ť	SHELD					4	W		SS :	90		
+	*	1	L			42	5		96	<u>.</u>	1	
┪	re	1	Con	Connector No.	E106	43	BR		97	œ	1	
┨	BR	-	Č	Connector Name	WIRE TO WIRE	45	٨		98	SHELD		
33	0	_				49	٦	-	66	٦	1	
34	GR	1	Conr	Connector Type	TH80FW-CS16-TM4	20	Ь	-	100	Ы	1	
32	g			ľ		21	_					
36	α		Q.	1		54	P.C.	1				
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43	+		\	2		29	×		Connect	Connector Name	A/T ASSEMBLY	
44	>	1			1 2	9	LG	-				
45	Ь	-			18	19	9	-	Connect	Connector Type	RK10FG-DGY	
46	>				2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	62	SB			 -		
t	SHIFLD	1				63	>	-	Œ		<	
t	(F	O volo	L	9			手			
2 6	, 5		2		Signal Name [Specification]	ų		1) I	_	1	
3 3	5 0	1	1	t		3 8	5 0			9	((5) 4 3 2 1)	
46	٥		1	¥	'	99	¥				1	
22	-	1		>	1	67	SHELD				9 / 8 6 0 V	
				a	-	88	>					
			,	4 GR	-	69	LG	_				
Connector No.	lo. D33	3	.,	5 GR		70	Μ	-	Terminal	0	[:	
	1	(Land and and and a decimal and		×		71	œ		No.	Wire	Signal Name [Specification]	
Connector N	lame DO:	Connector Name DOOR MIRROR (PASSENGER SIDE)	Ľ	BB BB	,	72	>		-	>	IGNITION POWER SUPPLY	
Connector Type	THE	TH94MM/FNH	ľ	t		7.3	ď		٠	ď	BATTEDY DOWED SLIDDI V	
	2		1	ł		2.5	8	- [Web ICC]		d	1780	
qĮ			ľ	ł		-		Date: + 1003	,	,	List 2	
手			1	+	'	\$	1	- [without IOC]	-	1	N-LINE	
ŧ	L			13 L		75	ŋ	- [With ICC]	2	В	GROUND	
2	•	1211 10 7 6 5 4 3	_	14 R	_	75	W	- [Without ICC]	9	Υ	IGNITION POWER SUPPLY	
	- [•		_	15 P		76	*	- [With ICC]	7	œ	BACK-UP LAMP RELAY	
	N	24 23 22 21 19 18 17 16		V 16	1	9/	٨	- [Without ICC]	80	57	CAN-L	
	IJ		1-	2 SB		77	۵	- [Without ICC]	a	GR	STARTER BELAY	
			ľ	ł		F	٥	- Mesh CO	ç	٥	GNIOGO	
, L	1		ľ	+		F	4	[warred]	2		GNOOND	
ieumai N	- Olor O	Signal Name [Specification]	1	7g .	-	2	ž.	= [wrthout ICC]				
t	Wire		21	+		78	1	- [Wrth ICC]				
60	>	SIDE CAMERA RH COMM	2	22 V		79	-	- [Without ICC]				
4	LG	SIDE CAMERA RH IMAGE SIGNAL	2	23 G	-	79	Υ	- [With ICC]				
2	В	SIDE CAMERA RH POWER SUPPLY	2	24 P		80	SB	-				
9	В	-	2	25 Y	-	81	В	_				
_	_	1	_	7 ×	-	82	SB	1				
9	 - -	1	Ľ	×		88	BB	,				
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₩	ITH AUTOMATIC DRIVE POSITIONER)	RIVE F	OSITI	ONER)							
Connector No. F301		Connector No.	tor No.	M5	37	BR	-	18	Н	-	
MOT Nome		0	Company Money	NAME TO MADE	38	Ь	-	20	BG	-	
		000	no Mallie	WINE TO WINE	39	BG	_	21	٦	-	
Connector Type SP10FG		Connec	Connector Type	TH40MW-CS15	40	SB	1	22	*	1	
	•	[[41	7	-	23	Ь	-	
	<	E	•		42	ч		24	BR	-	
				1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	43	BR	1	25	≻	1	
H.S.	1013 4 5	Ş.	n	A STATE OF THE PROPERTY OF THE	44	>	TI.	56	+	1	
	۲ ۲		l	52525252525252525252525252525252525252	42	ŋ	1	27	+	-	
	0 1 8 1 9 1 0			Science Mindred of Science	46	SB	- [With automatic drive positioner]	28	9	-	
	$\ $				46	^	- [Without automatic drive positioner]	31	7	-	
					47	ď		32	5		
al Color Of	Signal Name [Specification]	Terminal	_	Signal Name [Specification]	48	5		33	В		
No. Wire	a realine Loberthication	Ñ.	Wire	Ogna realite Copecification	49	۵	-	34	٨	-	
1 - IGN	IGNITION POWER SUPPLY	-	н	=	20	SHIELD	=	32	œ	-	
2 - BAT	TTERY POWER SUPPLY	2	В	1	52	ч	-	36	SHIELD	- g	
3 -	CAN-H	3	BR	-	53	^	-	37	۸	-	
- 4	K-LINE	4	Ь		54	97		38	_	-	
- 2	GROUND	2	7		22	SB		39	BR		
INDI - 9	IGNITION POWER SUPPLY	9	œ	1				4	H	1	
7 - BA	BACK-UP LAMP RELAY	^	æ					42	8		
- 80	CAN-L	00	>		Connector No.	Γ	M6	43	├		
,	STARTER RELAY	6	G		L	Г		45	H		
	GROUND	10	-		Connec	Connector Name	WIRE TO WIRE	49	ŀ		
		=	9		Connect	Connector Type	TH80MW-CS16-TM4	20	۵		
		12	>	1] 		2	F		
Connector No M1		5	<u>_</u>		Œ	•		25	╀		
Ι		2 2	>		手		1 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5 5	- 0		
Connector Name FUSE BLOCK (J/B	(J/B)	±	- ;		Ę	e		5 6	+		
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Connector Lype NSU6FW-MZ		9	r				A 9 10 10 10 10 10 10 10 10 10 10 10 10 10	3	+	-	
4		17	8				日本 日	19	+	1	
		18	ŋ	-				62	SB	_	
		19	>	-				63	ŋ	-	
20.		20	٦	-	Terminal	al Color Of	[:	64	80	-	
_	OA 74 64 54 44	21	97	-	No.	Wire	Oignal Ivalile Lopecii catiori	65	٨	-	
	NATION OF THE PO	22	_	1	-	۸	1	99	œ	1	
4	1	23	9	1	2	ĸ	1	67	SHIELD	-	
		24	>		9	В		68	>		
Terminal Color Of	3	25	GR	1	4	SHIELD	1	69	GR		
No. Wire Sign	oignal Name [opecification]	56	ď	,	9	g		2	┞		
Y-		27	>			>		7	97		
ZA G	1	88	SHELD	1	6	BR	1	72	H	1	
L	-	59	>		9	œ		7.3	88		
44 R	-	30	>		Ξ	BR		74	H	- [With ICC]	
> ×		31	В		12	BG		74	1	- [Without ICC]	
. × 6A		32	BR	1	13	_	1	75	ŋ	1	
7A R		33	SB		14	œ	1	9/	Ĺ	- [Without ICC]	
┞		종	>		15	۵		9/	┞	- [With ICC]	
		88	۵	-	92	>	1	17	╀	- [Without ICC]	
		36			Ļ	. 00		12	ł	- [Weth ICC]	
		20	2	-	-	9	_	-	_	- [with reco	

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	- Connector No. M62	- CONTRACT TO CONTRACT OF THE	Connector Name Circuit Breaker	- Connector Type M02FW-P-LC				65.	<u>-</u>	_			Terminal Color Of Simulation - IS	No. Wire Signal Name Lopecincation	1 W =	2 SB -	MECTOR		Connector No. M78	Connector Name ATTOMATIC DRIVE POSITIONER CONTROL LINIT	╗	Connector Type TH24FW-NH				1 2 3 4 5 6 7 8 10 11 12	0 0 1 0 7 1 7 1 7 1 7 1	Signal Name [Specification]			Terminal Color Of Signal Name [Specification]		- SELECT BH		- 4 V LEFTWARD	- 5 R MIR_SENS_UP_DOWN(RH)	MIR.SE	7 GR FORWARD	8 Y RX/TX	10 W MIR_MTR_UP(RH)	11 G MIR MTR LEFT(RH)	Y MIR	13 W DOWNWARD	14 P SELECTLH	15 SB DOWNWARD	16 BR RIGHTWARD	17 L MIR_SENS_LEFT&RIGHT(RH)	18 G MIR SENS LEFT&RIGHT(LH)	Н
	86 R	γ \ 78	W 88	89 BR	H	91 G	92 V	93 BR	┞	98	. → 96	W 86	99 R			Connector No. M24	Connector Name DATA LINK CONNECTOR	Т	Connector Type BD16FW	4			SE					nal Color Of		3 FG	4 89	2 -	^ _		== SB	14 P	16 Y												
AUTOMATIC DRIVE POSITIONER)	\dashv	- H	H	- SB	H	20 BR -	21 SHIELD -	22 Y	24 V -	27 B	- W = -	29 R	30 SHIELD -	- T	32 P -	33 SB -	+	35 P -	36 L	\dashv	38 P	39 Y	- SB		\dashv		47 SB –	4	49 R -	+	- D D D D D D D D D D D D D D D D D D D	SHEID	t	╀	es SHIELD	- SB 99	- A 29	88 LG	- SHIELD -	- w 02	73 G	╀	- W 22	- M 9/	- B	- d 8/	79 GR	H	Н
DOOR MIRROR (WITH AUTOMATIC DRI									-		1	-		- OTE		-	-					- 075	-				M7	WIRE TO WIRE		HH80MW-CS16-TM4		1 6 TO SEE SEE SEE SEE SEE SEE SEE SEE SEE SE	2 T 1222 250 510 128 1423 264 2168 318 22 52	20 00 00 00 00 00 00 00 00 00 00 00 00 0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			r Of Simul Mana [Specification]	Olgridi ivaline		Ľ	╀	-		-	-	- 88		
DOOR N	+	78 R	H	79 Y	30 SB	H	82 SB	83	84 G	H	86 P	87 W	89 GR	90 SHIELD	91 W	Н	4	+	95 GR	96 M	┪	98 SHIELD	\dashv	100 SB			Connector No.	Connector Name		Connector Type	1	至	ς; 					al C	No. Wire	3 SB	8	H	6 BG	7 W	8 8	11	12 SE	H	74 7

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DOOR MIRROR (WITH AUTOMATIC DRIVE POSITIONER)	IC DRIVE POSIT	IONER)				
20 Y SENS_GND	Connector No.	M119	81 W	NATS ANT AMP.	21 G	- [With BOSE audio]
21 R POWER SUPPLY (SENSOR)			82 R	IGN RELAY (F/B) CONT	Z1 L	- [Without BOSE audio]
22 R MIR MTR DOWN RIGHT(RH)	Connector Name	BCM (BODY CONTROL MODULE)	83	KEYLESS ENTRY RECEIVER COMM	22 SB	
2	Connector Type	SO-MEN SO	97 BB	F	23 GB	1
3 -	26		ł		ł	
,	1		8 8	2 10 111 110 1000	ł	
	李		+	CANT	1 67	
ſ	[7 7 7 8 0 10	+		+	-
Connector No. M79	S.E.	0 0 T	92 LG	KEY SLOT ILL CONT	29 SHIELD	1
Commenter Name		11 13 14 15 17 18 19	93 ^	ON IND	30 W	_
		-	94	PUDDLE LAMP CONT	31 17	-
Connector Type NS06FW-CS			95 BG	_	32 G	-
			96 GR	A/T SHIFT SELECTOR POWER SUPPLY	33 BR	1
	Terminal Color Of		99 R	SHIFT P	> >	1
	No. Wire	Signal Name [Specification]	100	PASSENGER DOOR REQUEST SW	35	
92] -22	4 LG	INTERIOR ROOM LAMP POWER SUPPLY	101 SB	DRIVER DOOR REQUEST SW	36 →	
06 80 40	2	PASSENGER DOOR UNLOCK OUTPUT	102 BG	BLOWER FAN MOTOR RELAY CONT	37 BR	
00 07 07 17	7	STEP LAMP CONT	103 LG	KEYLESS ENTRY RECEIVER POWER SUPPLY	43 L	1
	8	ALL DOOR, FUEL LID LOCK OUTPUT	107 LG	Т	7	
	6	DRIVER DOOR, FUEL LID UNLOCK OUTPUT	108 R	COMBI SW INPUT 4	45 R	1
Terminal Color Of	10 BR	REAR DOOR UNLOCK OUTPUT	109 ×	COMBI SW INPUT 2	╀	1
	╀	BAT (FISE)	110	HAZABD SW	47 SHEID	
î	= 5	DAT (LOSE)	2	INCARD SW	†	
+	+	GROUND GROTHOLING			+	
	**************************************	PUSH-BULLON IGNITION SWILL GND			$^{+}$	
is a	+	ACC IND	Connector No.	M124	+	1
o :	+	TURN SIGNAL RH (FRONT)	Connector Name	WIRE TO WIRE	55 BG	1
LG UPWARD	7	I DEN SIGNAL LH (FRONT)				
30 B GND	> 61	IN I ROOM LAMP CON	Connector Type	I H40MW-CS15	ı	
			q		Connector No. M.	M125
Γ	[****	厚		Connector Name Wi	WIRE TO WIRE
Connector No. MITS	Connector No.	MTZZ	Ę	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	Т	4
Connector Name BCM (BODY CONTROL MODULE)	Connector Name	BCM (BODY CONTROL MODULE)	Ċ	141114 1424242124242428	Connector Type M	M03FW-LC
Commonday Time M03EB-I O	T make a	THACED-NIL		27/28/28/30/31/32/34/39 47/48/49/50/51/52/52/54/59	4	
٦.	add longer	THE CLUSTER IN THE COLUMN TWO			李	
4	₫.				S II	<u> </u>
	至于		Terminal Color Of	L		
\$ F	8 E	7	No Wire	Signal Name [Specification]		3 2
		9190 8887 8828180797877767874	t			
		[10] [10] [10] [10] [10] [10] [10] [10]	. «			
]			>		Terminal Color Of	
			, ;			Signal Name [Specification]
Terminal Color Of	Terminal Color Of	L	5 5	-	t	1
		Signal Name [Specification]			: >	
$^{+}$	+	DASSENICED DOOD ANT	$^{+}$		7 0	
$^{+}$	*	PASSEIVAEN DOOR AN	$^{+}$,	
2 W POWER WINDOW POWER SUPPLY(BAT)	Ц Т	PASSENGER DOOR ANT+	+			
3 Y POWER WINDOW POWER SUPPLY(RAP)	⊥ ¬	DRIVER DOOR ANT-	17 B			
	77 LG	DRIVER DOOR ANT+	18 R	1		
	+	ROOM ANT1-	+	-		
	+	ROOM ANT1+	20 W	- [Without BOSE audio]		
	80 GR	NATS ANT AMP.	20 Y	- [With BOSE audio]		

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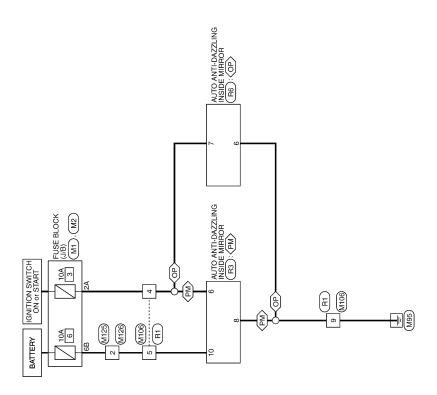
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AUTO ANTI-DAZZLING INSIDE MIRROR SYSTEM

Wiring Diagram - INSIDE MIRROR SYSTEM -

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INSIDE MIRROR

BLWC3465GB 2013/02/11

AUTO ANTI-DAZZLING INSIDE MIRROR SYSTEM

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10	Connector Name AUTO ANTI-DAZIJNG INSIDE URROR Connector Type IAAAO/FB Terminal Color Of Signal Name [Specification] 1. Signal Name [Specification] 7. Wre 7. Signal Name [Specification] 8. Wre 7. Wre 9. Wre 1. Wre
Terminal Golor Of New Signal Name [Specification] No. Wire Signal Name [Specification]	
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INSIDE MIRROR Commercer Name FUSE BLOCK (J/B)	H.S. GB Color of the colo

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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
3E1 3W	Set Switch	Release	OFF
MEMORY CVV	Maman, quitab 1	Push	ON
MEMORY SW1	Memory switch 1	Release	OFF
MEMORY SW2	Mamary quitab 2	Push	ON
MEMORT SW2	Memory switch 2	Release	OFF
SLIDE SW-FR	Cliding awitch (front)	Operate	ON
SLIDE SW-FR	Sliding switch (front)	Release	OFF
SLIDE SW-RR	Cliding awitch (roor)	Operate	ON
SLIDE SW-RR	Sliding switch (rear)	Release	OFF
DECLIN CW ED	Declining quitab (frant)	Operate	ON
RECLN SW-FR	Reclining switch (front)	Release	OFF
DECLIN CW DD	Declining quitab (rear)	Operate	ON
RECLN SW-RR	Reclining switch (rear)	Release	OFF
LIFT SW-UP	Lifting quitab front (up)	Operate	ON
LIFT SW-UP	Lifting switch front (up)	Release	OFF
LIFT SW-DOWN	Lifting quitch front (down)	Operate	ON
LIFT SW-DOWN	Lifting switch front (down)	Release	OFF
MIR CON SW-UP	Mirror switch	Up	ON
WIIN CON SW-OF	WIIITOI SWILCIT	Other than above	OFF
MIR CON SW-DN	Mirror switch	Down	ON
WIR CON 3W-DIN	WIIITOI SWILCIT	Other than above	OFF
MIR CON SW-RH	Mirror switch	Right	ON
WIIN CON OW-NIT	WIIITOI SWILCIT	Other than above	OFF
MIR CON SW-LH	Mirror switch	Left	ON
WIIN CON SW-LIT	WIIITOI SWILCIT	Other than above	OFF
MIR CHNG SW-R	Changeover switch	Right	ON
WIIN CHING SW-IN	Changeover switch	Other than above	OFF
MIR CHNG SW-L	Changeover switch	Left	ON
WIIIX OF IING SVV-L	Changeover Switch	Other than above	OFF
TILT SW-UP	Tilt switch	Up	ON
TILL SVV-OF	THE SWILCH	Other than above	OFF
TILT SW-DOWN	Tilt switch	Down	ON
TIET OVV-DOVVIN	THE SWILOTT	Other than above	OFF

< ECU DIAGNOSIS INFORMATION >

[WITH ADP]

Monitor Item	Cond	ition	Value/Status
TELESCO SW ED	Talagagaia awitah	Forward	ON
TELESCO SW-FR	Telescopic switch	Other than above	OFF
TELESCO SW-RR	Tilt switch	Backward	ON
TELESCO SW-RR	THE SWILCTI	Other than above	OFF
DETENT SW	AT selector lever	P position	OFF
DETENT SW	Al Selector level	Other than above	ON
STARTER SW	Ignition position	Cranking	ON
OWNITEROW	ignition position	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 PULSE	Seat lifter	Down	The numeral value increases *1
		Other than above	No change to numeral value*1
MIR/SEN RH U-D	Door mirror (passenger sid	de)	Change between 3.4 (close to peak) 0.6 (close to valley)
MIR/SEN RH R-L	Door mirror (passenger sid	de)	Change between 3.4 (close to left edge) 0.6 (close to right edge)
MIR/SEN LH U-D	Door mirror (driver side)		Change between 3.4 (close to peak) 0.6 (close to valley)
MIR/SEN LH R-L	Door mirror (driver side)		Change between 0.6 (close to left edge) 3.4 (close to right edge)
		Upward	The numeral value decreases *1
TILT PULSE	Tilt position	Downward	The numeral value increases *1
		Other than above	No change to numeral value*1
		Forward	The numeral value decreases *1
TELESCO PULSE	Telescopic position	Backward	The numeral value increases *1
		Other than above	No change to numeral value*1
		Lock	LOCK
STEERING STATUS	Steering lock unit	Unlock	UNLOCK
VEHICLE SPEED	The condition of vehicle sp	peed is display	km/h
D DANIO 014/ 044/	A (T. 1:6)	P position	ON
P RANG SW CAN	A/T shift selector	Other than above	UNLOCK
D DANG (CAN)	A/T shift selector	R position	ON
R RANG (CAN)	AV I SHIIL SEIECLOI	Other than above	UNLOCK
DOOR SW-FL	Driver door	Open	OPEN
DOOK 344-LF	Dilvei dool	Close	CLOSE
DOOR SW-FR	Passenger door	Open	OPEN
DOOK OW-I IX	i asseriger abor	Close	CLOSE

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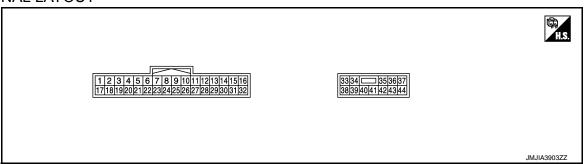
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< ECU DIAGNOSIS INFORMATION >

Monitor Item	Conditi	on	Value/Status
IGN ON SW	lanition awitch	ON position	ON
IGN ON SW	Ignition switch	Other than above	OFF
ACC ON SW	Ignition switch	ACC position	ON
ACC ON SW	ignition switch	Other than above	OFF
KEYLESS ID	Intelligent Key button	Pressed	MEMORY1/2/3/4/5
KETLESS ID	intelligent Key button	Other than above	OFF
KYLS DR UNLOCK	Intelligent Key or door re-	ON	ON
K1L5 DR UNLOCK	quest switch	OFF	OFF
VHCL SPEED (ABS)	Vehicle speed signal (ABS)	Received	RCV
VHCL SPEED (ABS)	verlicle speed signal (ABS)	Not received	NORCV
HANDLE	Vehicle	left handle models	LHD
HANDLE	verlicie	Right handle models	RHD
TRANSMISSION	Transmission	M/T	M/T
HANSINISSION	1101151111551011	A/T	A/T

 $^{^{\}star 1}$: The value at the position attained when the battery is connected is regarded as 32768.

TERMINAL LAYOUT



PHYSICAL VALUES

	nal No. color)	Description		Condition	Value	
+	-	Signal name	Input/ output	Condition	value	
1 (L)	_	CAN-H	_	_	_	
2 (BR)	Ground	UART communication (TX/RX)	Input/ output	Ignition switch ON	10msec/div	

< ECU DIAGNOSIS INFORMATION >

[WITH ADP]

Terminal No. (Wire color)		Description		Condition		Value	
+	-	Signal name	Input/ output	Condition		value	
4 (W/G) Ground	Reclining sensor signal	Input	Seat reclining	Operate	10mSec/div 2V/div JMJIA0119ZZ		
					Other than the above	0 or 5 V	
5 Ground Telescopic sensor signal	Input	Steering telescopic	Operate	10mSec/div 2V/div JMJIA0119ZZ			
					Other than the above	0 or 5 V	
6		Memory switch 2			Press	0 - 1 V	
(GY) Ground	signal	Input	Memory switch 2	Other than the above	4 - 6 V		
7		Mamany indica	Out		Illuminate	0 - 1 V	
(G)		put	Out- put Memory indicator 2	Other than the above	9 - 16 V		
8 0	Oround	Sliding switch backward signal	Input	Sliding switch	Operate (backward)	0 - 1 V	
(BR)	Ground				Other than the above	9 - 16 V	
9		Reclining switch backward signal	Input	Reclining switch	Operate (backward)	0 - 1 V	
(SB)	Ground				Other than the above	9 - 16 V	
10		Lifting switch			Operate (down)	0 - 1 V	
(LG/R) Ground	(front) down sig- nal	Input	Lifting switch (front)	Other than the above	9 - 16 V		
11	0	Lifting switch (rear) down sig- nal	lee !		Operate (down)	0 - 1 V	
(G/B)			Input	Lifting switch (rear)	Other than the above	9 - 16 V	
12 (O)	Ground	Sensor power supply	Out- put	_	-	9 - 16 V	
17 (P)	_	CAN-L	_	_		_	

Terminal No. (Wire color)		Description		Condition			
+	-	Signal name	Input/ output	Condition		Value	
18 (R)	Ground	Sliding sensor signal	Input	Seat sliding	Operate	10mSec/div 2V/div JMJIA0119ZZ	
					Other than the above	0 or 5 V	
19 (Y/B)	Ground	Lifting sensor (front) signal	Input	Seat lifting (front)	Operate	10mSec/div	
					Other than the above	0 or 12 V	
20 (P/B)	Ground	Lifting sensor (rear) signal	Input	Seat lifting (rear)	Operate	10mSec/div 5V/div JMJIA3675ZZ	
					Other than the above	0 or 12 V	
21 (SB)	Ground	Tilt sensor signal	Input	Steering tilt	Operate	10mSec/div 2V/div JMJIA0119ZZ	
					Other than the above	0 or 5 V	
22	Ground	Memory switch 1 signal	Input	Memory switch 1	Press	0 - 1 V	
(O)					Other than the above	4 - 6 V	
23 (W)	Ground	Memory indica- tor 1 signal	Out- put	Memory indicator 1	Illuminate Other than the	0 - 1 V	
(• •)		tor i signal	put		above Operate	9 - 16 V 0 - 1 V	
24 (Y)	Ground	Sliding switch forward signal	Input	Sliding switch	(forward) Other than the above	9 - 16 V	

< ECU DIAGNOSIS INFORMATION >

[WITH ADP]

Terminal No. (Wire color)		Description		Condition		Value	
+	-	Signal name	Input/ output	Condition			
25	Ground	Reclining switch		Reclining switch	Operate (forward)	0 - 1 V	
(R/G)	Ground	forward signal	Input		Other than the above	9 - 16 V	
26	Ground	Lifting switch	Input	Lifting switch (front) -	Operate (up)	0 - 1 V	
(W/B)	Ground	(front) up signal			Other than the above	9 - 16 V	
27	Ground	Lifting switch	Input	Lifting switch (rear)	Operate (up)	0 - 1 V	
(P/L)	Ground	(rear) up signal			Other than the above	9 - 16 V	
28					Press	0 - 1 V	
(Y)	Ground	Set switch signal	Input	Set switch	Other than the above	4 - 6 V	
33 (R)	Ground	Battery power supply	Input	_		9 - 16 V	
34	Ground	Sliding motor backward output signal	Out- put	Seat sliding	Operate (backward)	9 - 16 V	
(W/B)	Ground				Other than the above	0 - 1 V	
35	Ground	Reclining motor forward output signal	Out- put	Seat reclining	Operate (forward)	9 - 16 V	
(G/Y)	Ground				Other than the above	0 - 1 V	
36	Ground	Lifting motor (front) down out- put signal	Out- put	Seat lifting (front)	Operate (down)	9 - 16 V	
(G/W)	Ground				Other than the above	0 - 1 V	
38	Ground	Sliding motor forward output signal	Out- put	Seat sliding	Operate (forward)	9 - 16 V	
(W/R)					Other than the above	0 - 1 V	
39	Ground	Reclining motor backward output signal	Out- put	Seat reclining	Operate (backward)	9 - 16 V	
(P)					Other than the above	0 - 1 V	
40	Ground	Lifting motor (front) up output signal	Out- put	Seat lifting (front)	Operate (up)	9 - 16 V	
(L/R)					Other than the above	0 - 1 V	
41	Ground	Lifting motor (rear) up output signal	Out- put	Seat lifting (rear)	Operate (up)	9 - 16 V	
(L/Y)					Other than the above	0 - 1 V	

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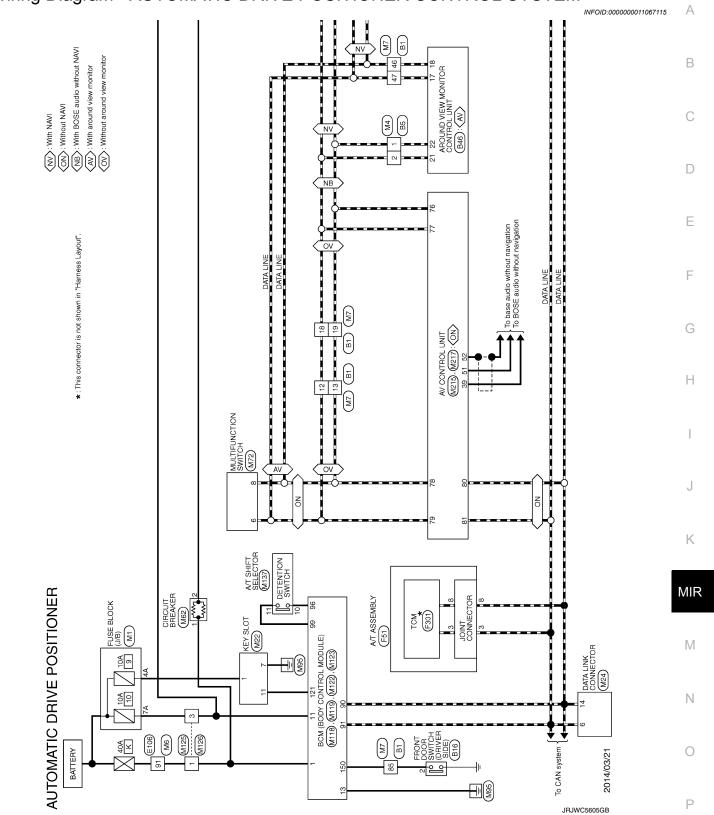
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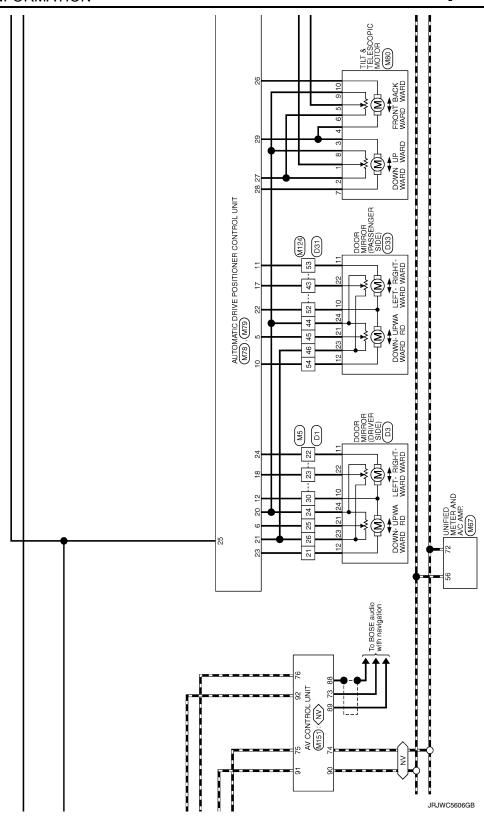
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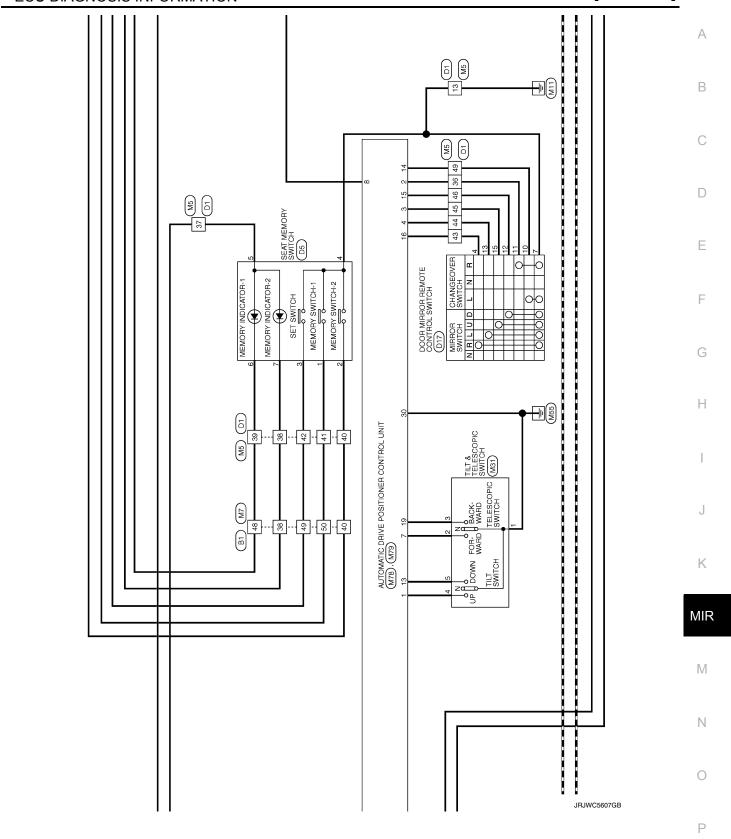
Terminal No. (Wire color)		Description		Condition		Value
+	-	Signal name	Input/ output	Contantion		value
42	Ground	Lifting motor (rear) down out- put signal	Out- put	Seat lifting (rear)	Operate (down)	9 - 16 V
(R/B)					Other than the above	0 - 1 V
43 (B)	Ground	Ground		<u>-</u>		0 - 1 V

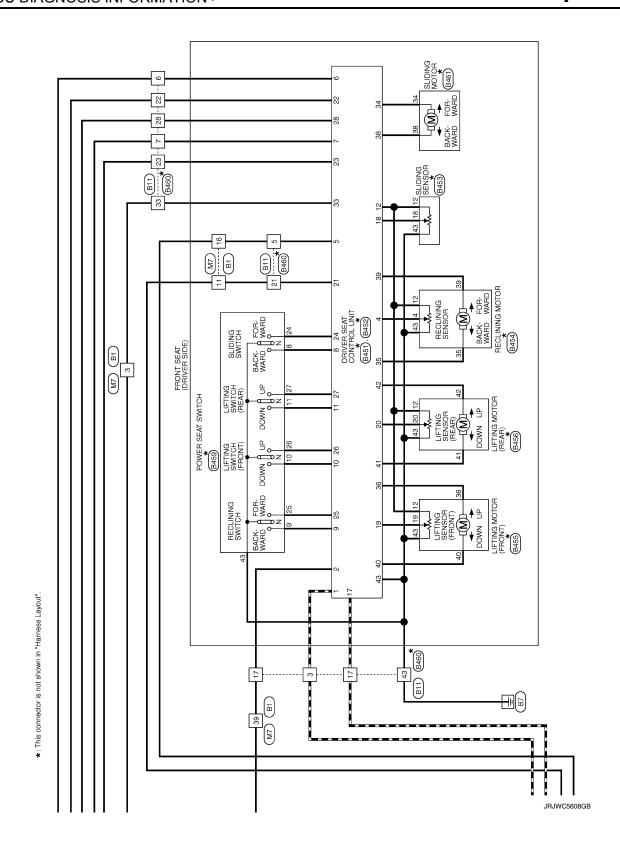
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Wiring Diagram - AUTOMATIC DRIVE POSITIONER CONTROL SYSTEM -









DRIVER SEAT CONTROL UNIT

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Fig. 6 Build Connector No. Con	The Connector No. Busta Account view Connector No. Conne	Connector No. B451 Connector No. B451 Connector No. B452 Connector No. B454 Connector No. B455 Connector No. Connector No. B455 Connector No. Connector No. B455 Connector No. Connector No. Co	The first of the	The first of the
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B46 Connector No. B451 Connector No. B452 Connector No.	11 UNIVE TO 31 11 UNIVER Gometter No. B451 Connector No. B462 Connector No.	11 OTA VELL COLLECTION 1 OTA VELL COLLECTION 1 OTA VELL COLLECTOR 1 OTA VELL COLLEC	10 UNIVELY COLLIGIONE 1	10 UNIVELY COLLIGIONE 1
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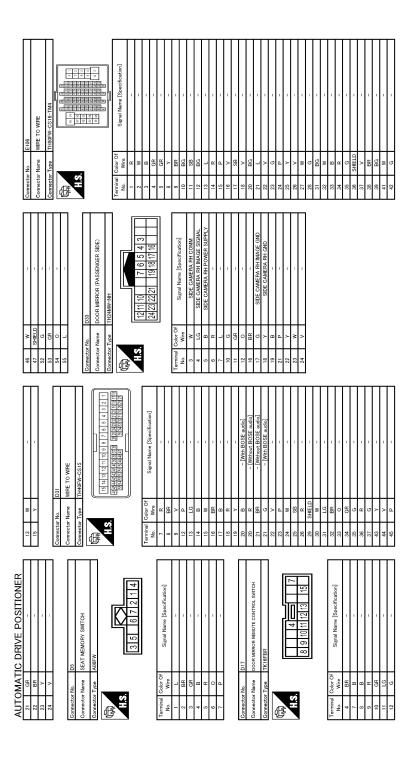
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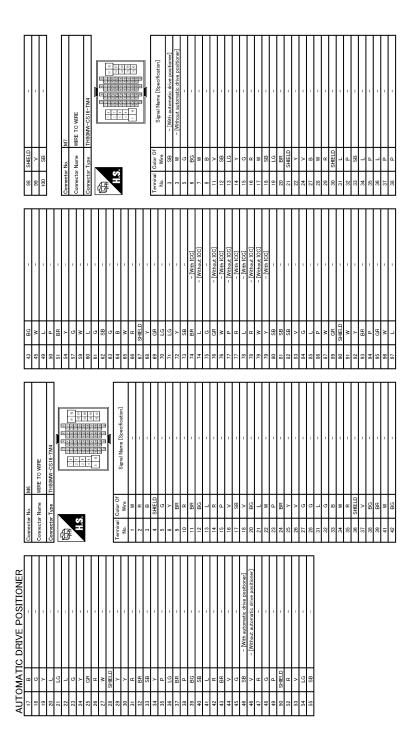
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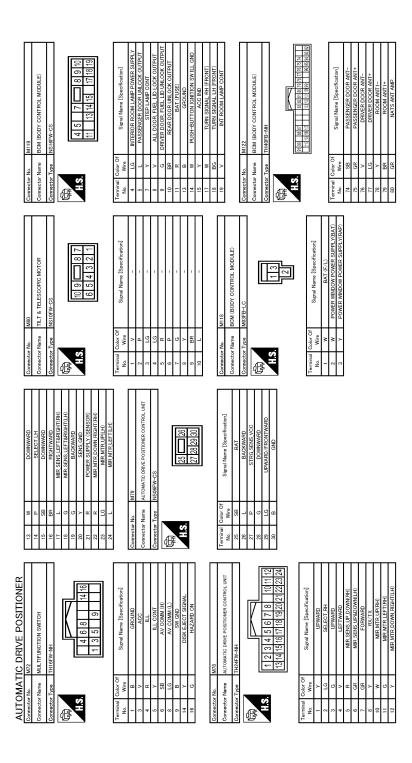
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60 5	> 0	COMBI SW INPUT 2			77.28.28.30.31.32.33.33.33	q	•		Terminal Color Of	Signal Name [Specification]
1	5	TAZARU SW				事	w		H	-
ľ		00000	F	10.1.0		1	n E	_	> -	-
Connector No.	No.	M123	lerminal No	al Color o	Signal Name [Specification]			3 2		
ctor	Connector Name	BCM (BODY CONTROL MODULE)	2 -	>					+ 4	
Connector Type	Type	TH40FG-NH	- 00	- 19	1				0 ~	
$\ \ $	١.		6	>	-	Terminal	al Color Of		88	-
1			12	Ľ	-	Š	Wire	Signal Name [Specification]	6	1
8			13	^		-	W	-	10 GR	-
2		E14	7	В	-	2	>	-	Ξ.	
			15	>	-	e	œ	-		
		1	9	BB	'					
			=	4					Connector No.	M151
F	20 1 0		<u>e</u> 9	۵ ۵		Connec	Connector No.	M126	Connector Name	AV CONTROL UNIT
N N	Wire	Signal Name [Specification]	2 8	9	Factor and a	Connec	Connector Name	WIRE TO WIRE	ŀ	THE PROCESS
+	۵	OPLICAL SENSOR	3 8	>		Conne	Connector Type	MORANWELL C	edi logellioo	1
t	SB.	STOP LAMP SW 1	21	9			1		Œ	
t	٩	STOP LAMP SW 2	2	-	- [Without BOSE audio]	Œ	-		手	
119	l _B	DR DOOR UNLOCK SENSOR	22	S		手			ς: - -	2 32 32 32 32 32 32 32 32 32 32 32 32 32
121	ä	KEY SLOT SW	23	æ	-	S .	Ç.	_		8
۱	*	IGN F/B	54	g	,		1	- (1798081821831 187188189191192
╘	PΠ	PASSENGER DOOR SW	52	\ 				2 3		
132	BR	POWER WINDOW SW COMM	56	В	-					
133	W	PUSH-BUTTON IGNITION SWILL POWER	59	SHIELD	- an				la!	f Simul Nama [Specification]
-	GR	LOCK IND	30	W	-				No. Wire	Oighai raille Lobeoineacoil
137	BG	RECEIVER/SENSOR GND	31	ΓG	-				\dashv	PARKING BRAKE SIGNAL
_	>	RECEIVER/SENSOR POWER SUPPLY	32	J	-	_			+	COMPOSITE IMAGE SIGNAL GND
_	ب	TIRE PRESSURE RECEIVER COMM	33	BB					68 R	COMPOSITE IMAGE SIGNAL

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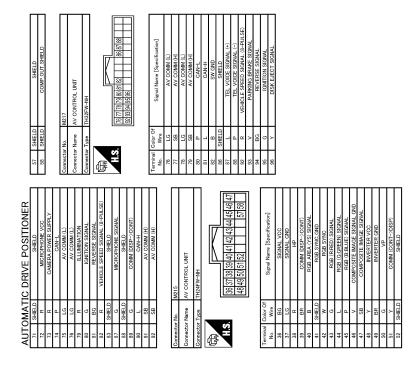
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Fail Safe

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

DRIVER SEAT CONTROL UNIT

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Operating in fail-safe mode	Malfunction Item	Related DTC	Diagnosis
	CAN communication	U1000	ADP-46
Only manual functions operate normally.	CONTROL UNIT (CAN)	U1010	ADP-47
	EEPROM	B2130	ADP-55
Only manual functions, except door mirror, operate normally.	UART communication	B2128	ADP-54
Only manual functions, except seat sliding, operate normally.	Seat sliding output	B2112	ADP-48
Only manual functions, except seat reclining, operate normally.	Seat reclining output	B2113	ADP-50
Only manual functions, except steering tilt, operate normally.	Steering column tilt output	B2116	ADP-55

DTC Index

CONSULT	Tim	ing ^{*1}		
display	Current mal- function	Previous mal- function	Item	Reference page
CAN COMM CIRCUIT [U1000]	0	1-39	CAN communication	ADP-46
CONTROL UNIT (CAN) [U1010]	0	1-39	Control unit	ADP-47
SEAT SLIDE [B2112]	0	1-39	Seat slide motor output	ADP-48
SEAT RECLINING [B2113]	0	1-39	Seat reclining motor output	ADP-50
STEERING TILT [B2116]	0	1-39	Tilt motor output	ADP-52
UART COMM [B2128]	0	1-39	UART communication	ADP-54
EEPROM [B2130]	0	1-39	EEPROM	ADP-55

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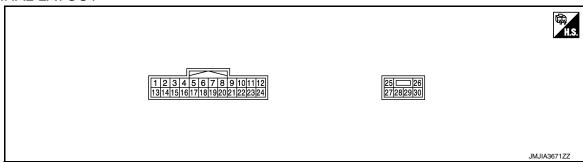
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^{• 0:} Current malfunction is present

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

Reference Value

TERMINAL LAYOUT



PHYSICAL VALUES

	nal No. color)	Description		Con	dition	Voltage
+	-	Signal name	Input/ Output	Con	uition	voltage
1	Ground	Tilt switch up signal	Input	Tilt switch	Operate (up)	0 - 1 V
(Y)	Ground	Till Switch up Signal	iliput	THE SWILCH	Other than the above	4 - 6 V
2	Ground	Changeover switch RH	Input	Changeover	RH	0 - 1 V
(LG)	Oround	signal	mput	switch position	Neutral or LH	4 - 6 V
3	Ground	Mirror switch up signal	Input	Mirror switch	Operate (up)	0 - 1 V
(G)	Ground	Will of Switch up Signal	iliput	WIIITOI SWILCII	Other than the above	4 - 6 V
4	0	Minor Halland	11	NA'	Operate (left)	0 - 1 V
(V)	Ground	Mirror switch left signal	Input	Mirror switch	Other than the above	4 - 6 V
5 (R)	Ground	Door mirror sensor (passenger side) up/down signal	Input	Door mirror RH pos	sition	Change between 3.4 (close to peak) 0.6 (close to valley)
6 (GR)	Ground	Door mirror sensor (driver side) up/down signal	Input	Door mirror LH pos	sition	Change between 3.4 (close to peak) 0.6 (close to valley)
7	Ground	Telescopic switch forward	lanut	Talaggania awitah	Operate (forward)	0 - 1 V
(GR)	Ground	signal	Input	Telescopic switch	Other than the above	4 - 6 V
8 (Y)	Ground	UART communication (TX/RX)	Input/ Output	Ignition switch ON		10msec/div 5V/div JMJIA1391ZZ

< ECU DIAGNOSIS INFORMATION >

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	inal No. color)	Description		000	dition	Voltoge
+	-	Signal name	Input/ Output	Conc	dition	Voltage
10	Ground	Door mirror motor (passenger side) up/right out-	Output	Door mirror RH	Operate (up/right)	9 - 16 V
(W)	J. Garra	put signal	Сигрис	200	Other than the above	0 - 1 V
11	Ground	Door mirror motor (passenger side) down/left	Output	Door mirror RH	Operate (down/left)	9 - 16 V
(G)		output signal			Other than the above	0 - 1 V
12	Ground	Door mirror motor (driver side) down/right output	Output	Door mirror (LH)	Operate (down/right)	9 - 16 V
(Y)		signal			Other than the above	0 - 1 V
13	Ground	Tilt switch down signal	Input	Tilt switch	Operate (down)	0 - 1 V
(W)	2.333				Other than the above	4 - 6 V
14	Ground	Changeover switch LH	Input	Changeover	LH	0 - 1 V
(P)	Cround	signal	pat	switch position	Neutral or RH	4 - 6 V
15	Ground	Mirror switch down signal	Input	Mirror switch	Operate (down)	0 - 1 V
(SB)		Signal			Other than the above	4 - 6 V
16	Ground	Mirror switch right signal	Input	Mirror switch	Operate (right)	0 - 1 V
(BR)					Other than the above	4 - 6 V
17 (L)	Ground	Door mirror sensor (passenger side) left/right signal	Input	Door mirror RH pos	sition	Change between 3.4 (close to left edge) 0.6 (close to right edge)
18 (G)	Ground	Door mirror sensor (driver side) left/right signal	Input	Door mirror LH pos	sition	Change between 0.6 (close to left edge) 3.4 (close to right edge)
19	Ground	Telescopic switch back-	Input	Telescopic switch	Operate (backward)	0 - 1 V
(G)	Cround	ward signal	mput	. C. CCSOPIO GWILOIT	Other than the above	4 - 6 V
20 (Y)	Ground	Ground (sensor)	_	_	_	0 - 1 V
21 (R)	Ground	Door mirror motor sensor power supply	Output	-	_	4 - 6 V
22	Ground	Door mirror motor (passenger side) down/right	Output	Door mirror (RH)	Operate (down/right)	9 - 16 V
(R)		output signal			Other than the above	0 - 1 V
23	Ground	Door mirror motor (driver side) up/right output sig-	Output	Door mirror (LH)	Operate (up/right)	9 - 16 V
(LG)	Cround	nal	σαιραι	Sooi illilloi (EII)	Other than the above	0 - 1 V

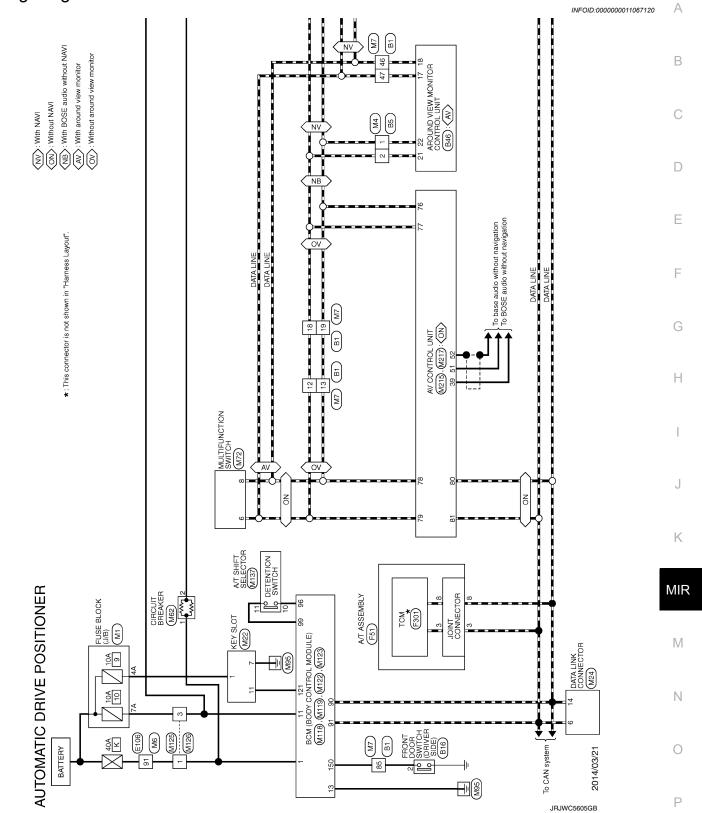
Revision: February 2015 MIR-51 2015 QX50

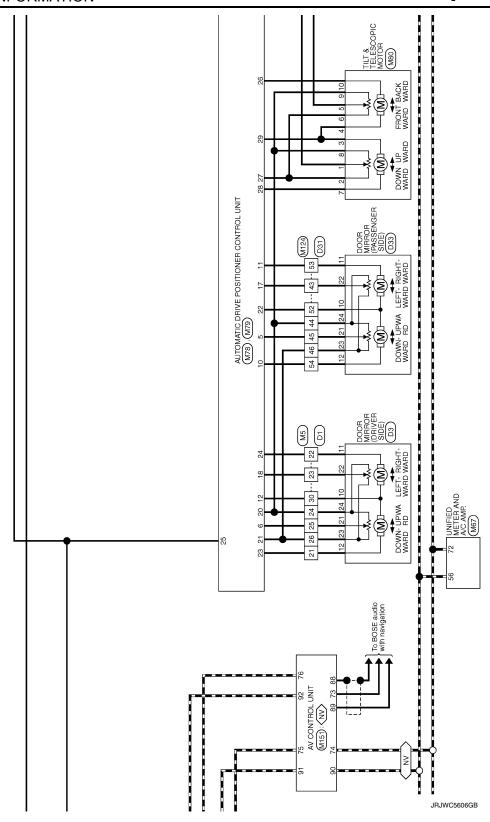
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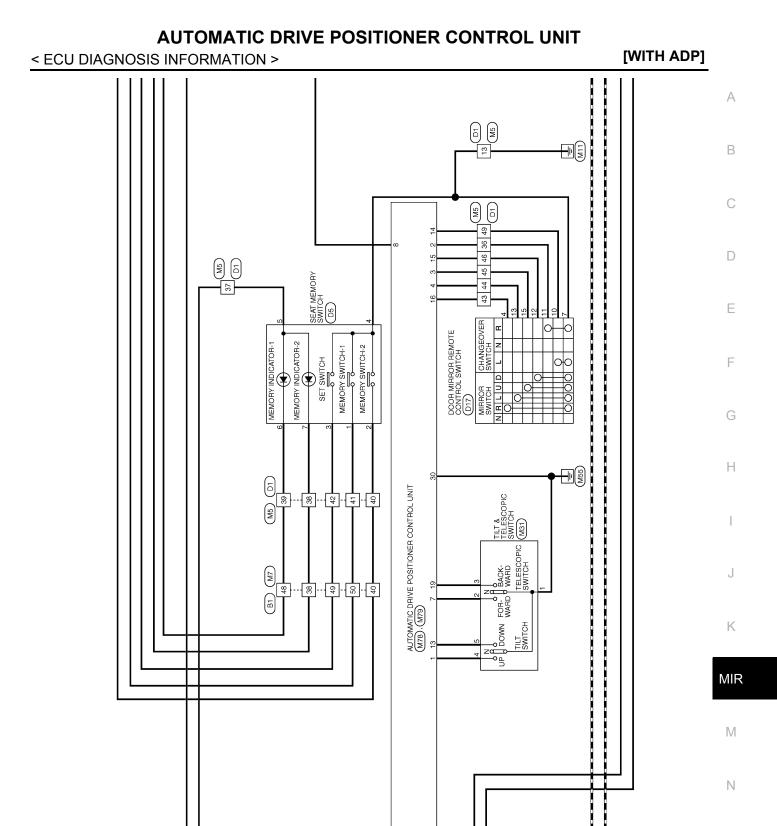
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	nal No. color)	Description				
+	-	Signal name	Input/ Output	Conc	dition	Voltage
24	Ground	Door mirror motor (driver side) down/left output sig-	Output	Door mirror (LH)	Operate (down/left)	9 - 16 V
(L)	Ground	nal	Output	Bool Hillion (ETT)	Other than the above	0 - 1 V
25 (SB)	Ground	Battery power supply	Input	_	_	9 - 16 V
26	Ground	Telescopic motor back-	Output	Steering telescop-	Operate (backward)	9 - 16 V
(L)	Ground	ward output signal	Output	ic	Other than the above	0 - 1 V
27 (P)	Ground	Tilt & telescopic sensor power supply	Output	_	_	9 - 16 V
28	Ground	Tilt motor down output	Output	Steering tilt	Operate (down)	9 - 16 V
(G)	Ground	signal	Output	oteening tilt	Other than the above	0 - 1 V
		Tilt motor up output signal		Steering tilt	Operate (up)	9 - 16 V
29	Ground	The motor up output signal	Output	Steering tilt	Other than the above	0 - 1 V
(LG)	Giouila	Telescopic motor forward	Output	Steering telescop-	Operate (forward)	9 - 16 V
		output signal		ic	Other than the above	0 - 1 V
30 (B)	Ground	Ground (power)	_	_	_	0 - 1 V

Wiring Diagram - AUTOMATIC DRIVE POSITIONER CONTROL SYSTEM -



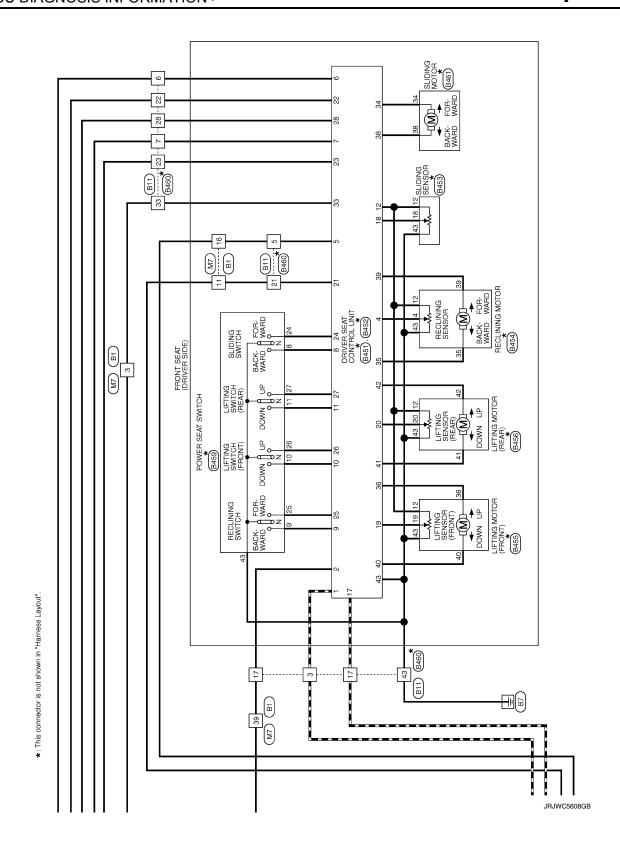




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Signal Name Sspecification	С
Color Of Color Of	D
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1 1 1 1 1 1 1 1 1 1	F
Conventor No. Conventor No	G H
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4	К
I Name (Specification)	MIF
Signal Name (Specification)	М
Conventor Name Bit Conventor Name Conventor Name	N
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E POSITIONER Connector No. 9451 Connector No. 9452 Connector No. 9454 Connector No. 9455 Connector No. 9454 Connector No. 9455 Connecto	Commercian Mannie DIRDVER SEAT CONTINOL UNIT Commercian Name DIRDVER SEAT CONTINOL UNIT Commercian Name RECLIABING MOTOR	Connector Type TH3ZFW Connector Type NS16FW-CS Connector Type NS06FW-CS	(本)	Terminal Color Of Signal Name [Specification] No. Wire No. Wire Signal Name [Specification]	GROUND 1 - CAN-H 33 - BAT (PTC) 4 W/G -	BATTERY 2 - UMART (TX/RX) 34 - SLIDE MOTOR (BACKWARD) 12 0 - -	(SANAL 4 - PULSE (RECLINER) 35 - RECLINER MOTOR (FORWARD) 35	ACC 5 - PULSE(TELESCOPIC) 36 - FRONT LIFTER MOTOR (DOWNWARD) 39	INATION SIGNAL 6 - ADDRESS 2 38 -	EED SIGNAL (8-PULSE) 7 - IND 2 39 -	8 - SLIDE SW (BACKWARD) 40 - FRONT LIFTER MOTOR (UPWARD)	9 - RECLINER SW (BACKWARD) 41 -	10 - FRONT LIFTER SW (DOWNWARD) 42 - REAR LIFTER M	11 - REAR LIFTER SW (DOWNWARD) 43 - GND GND	12 - POWER SU	17 - CAN-L	AV COMM (L) 18 - PULSE (SLIDE) Connector No. B453	- PULSE (FRONT LIFTER) Commentor Marine St IDING SENSOR	20 - PULSE (REAR LIFTER) 100	RA IMAGE SIGNAL 21 -	IMAGE SIGNAL GND 22 - ADDRESS 1	RA RH IMAGE SIGNAL 23 -	ERA RH IMAGE GND 24 - SLIDE SW (FORWARD)	Terminal C	26 - FRONT LETER SW (UPWARD) No. Wire	E CAMERA RH COMM 27 - REAR LITTER SW (UPWARD)	28 - SET SW - 19 Y/B -	36	Terminal Color Of Canad Mana [Canadiffication]		SHIELD No. Wire
Connector No. B46	AROUND VIEW MONIT	TH40FW-NH		3f Signal Name [Specification]			IGN		ILLUM	VEHICLE SPE	REVERSE SIGNAL	CONTROL SIGNAL			ΑV	AV		1	1	CAMER	CAMERA	SIDE CAMERA RH IMAGE SIGNAL	SIDE CAMERA RH IMAGE GND		SIDE CAMERA RH GND	SIDE CAMERA RH COMM	SIDE CAMERA RH POWER SUPPLY	REAR CAMERA COMM	REAR CAM	Ц	
ו וה	Connector Name	Connector Type		Terminal Color Of No. Wire	-	>	۵	GR	BG	SB	>	>	8	SB	ΓC	SB	۵,	2	g	≥	SHIELD	≻	G	SHIELD	8	≥	œ	_	BR	SHIFLD	

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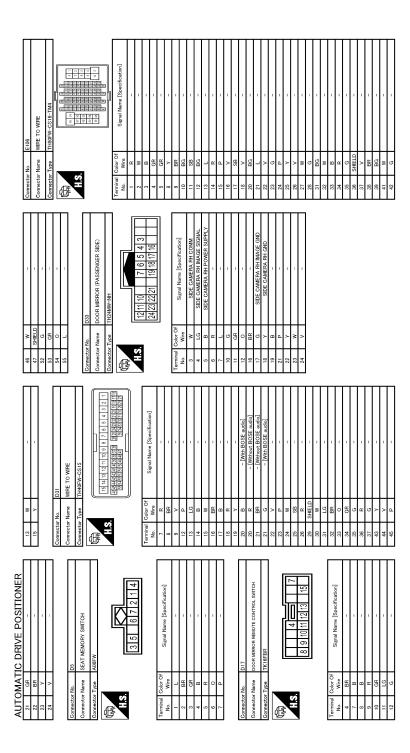
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29 P	46 7 With the automatic drive predictions 46 6 7 With the automatic drive predictions 47 8 7 With the automatic drive predictions 47 8 6 6 6 6 6 6 6 6 6	
Corrector No. D1 Corrector Nume WIRE TO WIRE	Terminal Color Of No. Wire Signal Name [Specification] 1	
Connector No. B460 Connector Name WIRE TO WIRE Connector Type AIS IMM-CS (19 3 43 mm 17 5 21 28 (77 60 66 6 32 22 23 7 23	Terminal Coder Of Signal Name Especification] 3	
AUTOMATIC DRIVE POSITIONER Connector Name Connector Name Connector Type MS9FEBR-CS (22 41 (243 20)	Terminal Color Of Signal Name [Specification] 12	
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П	6 - IGNITION POWER SUPPLY 6	- BACK-UP LAMP RELAY	- CAN-L	- STARTER RELAY	10 - GROUND 15	91	16	00 Met		Compettor Name FLISE BLOCK (L/B)		ON THE COURT		26			34]	17 12 10 11	BA I/AlbAlbAl4All				1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	Color Of Signal Name [Specification]		14 V		2A G Connec			+		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		7A R =	- BA			Connector No. M4 Terminal		Connector Name WIRE TO WIRE	Т	Connector Type TH32FW-NH 2					0 0	7 2 4 6 0 7 9 8 01 11 71 61 41 61 01	21 20 19 18 17	21 20 10 10	5	10	Terminal Color Of	Signal Name [Specification]	No. Wire 12	1 1.6			3 \	
П	98 SHIELD -	- 7 66	100 P			Connector No. F51	Г	Connector Name A/I ASSEMBLY		Connector Type RK10FG-DGY		~		_ \ \	F	#5 4 3 2 1N	Ī	/ 4 Z 8 6 U 1	200)		Terminal Color Of Simulation Committee Committ	No. Wire Signal Name [Specification]	VIDDIIO DINOCHOLINOI	Y IGNITION POWER SUPPLY	2 BR BATTERY POWER SUPPLY	c	> :	4 V K-LINE	S B GROUND	,		7 R BACK-UP LAMP RELAY	S- S	2	9 GR STARTER RELAY	10 B GROUND			Connector No. F301		Connector Name TCM (Connector Type SP10FG (1 2 3 4 3	,				Terminal Color Of		No. Wire	1 - IGNITION POWER SUPPLY	V united arranged variation of		3 - CAN-H	
ēΗ	45 W -		+			57 BR -	Г	0	Т		П	Т	Т		Г	т	Т		Г	т	+	-	71 R	╀	+	ω	88	ň	T	9		M	*	>		Ь	α	 ug .	7	_ 7 _	70 × = [Wath ICC]		4		L	Ļ	1						- BS				92 Y =		L	4		- 96

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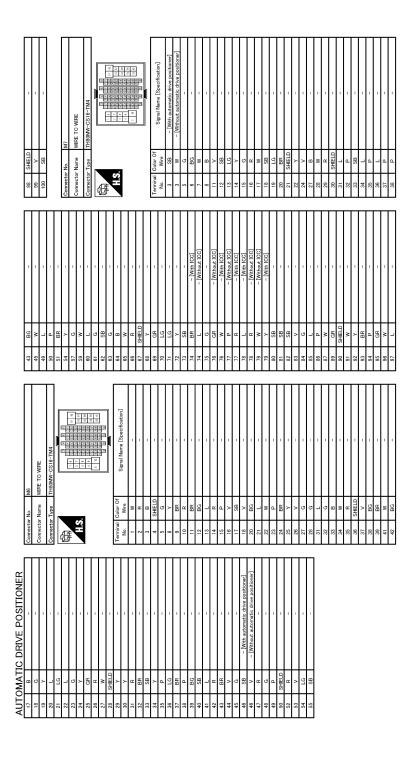
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MRS1 Signal Name (Specification) Signal Name (Specification) Signal Name (Specification)	F
Connector No. MSI	G H
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WEZ	J
Commetter No. Commetter No.	К
E POSITIONER	MIF.
AUTOMATIC DRIVE POSITIONER 40	N
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AUT	OMAT	AUTOMATIC DRIVE POSITIONER								
Connector No.	or No.	M72	13 W	DOWNWARD	Connector No.	M80		Connector No.		M119
Connect	Connector Name	MULTIFUNCTION SWITCH	4 S	SELECT_LH	Connector Name	TILT & TELESCOPIC MOTOR		Connector Name		BCM (BODY CONTROL MODULE)
Connector Type	or Type	TH16FW-NH	H	RICHTWARD	Connector Type	NS10FW-CS		Connector Type	r Type	NS16FW-CS
			Н	MIR_SENS_LEFT&RIGHT(RH)	1		1	ſ		
F	_	[$^{+}$	MIR_SENS_LEFT&RIGHT(LH)	Œ		Г	F		
	22	֓֞֞֞֟֝֞֓֓֓֓֓֓֓֓֓֓֟֟ ֓֞֞֞֓֞֞֓֞֓֞֓֞֩֞֞֓֓֞֞֞֜֞֞֜֞֞֩֞֓֡֓֡֓֓֡֓֡	19 20 ×	SENS GND	<u> </u>	10 9 01	7	Ť		4 5 7 8 9 10
	9	4 6 8 14 16	- d	DOWER SLIDDI V (SENSOR)		0 0	T			27 27 27 27 27 27 27 27 27 27 27 27 27 2
		135 9	╀	MIR_MTR_DOWN_RIGHT(RH)		0 0 4 0 7	=11			14 13
		11	23 LG	MIR_MTR_UP(LH)						
			24 L	MIR_MTR_LEFT(LH)						
Termina	Ferminal Color Of No Wire	of Signal Name [Specification]			Terminal Color Of	Signal Name [Specification]	tion]	Terminal	Color Of Wire	Signal Name [Specification]
-	-	GROUND	Connector No. M.	M79	۲	1		4	9	INTERIOR ROOM LAMP POWER SUPPLY
6	>	ACC	Γ		2 P	1		ß	_	PASSENGER DOOR UNLOCK OUTPUT
4	œ	III	Connector Name AU	AUTOMATIC DRIVE POSITIONER CONTROL UNIT	3	1		7	>	STEP LAMP CONT
2	٨	IFF CONT	Connector Type NS	NS06FW-CS	4 LG			8	۸	ALL DOOR, FUEL LID LOCK OUTPUT
9	SB	AV COMM (H)	4		5 R	1		6	5	DRIVER DOOR, FUEL LID UNLOCK OUTPUT
80	ΓG	AV COMM (L)	E		д 9	1		10	BR	REAR DOOR UNLOCK OUTPUT
6	В	SW GND		100	7 G	_		Ξ	œ	BAT (FUSE)
41	>	DISK EJECT SIGNAL	H-35	700	8	-		13	В	GROUND
16	9	HAZARD ON		27 28 29 30	9 BR	-		14	M	PUSH-BUTTON IGNITION SWILL GND
				27 52 52 00	10 L	-		15	Υ	ACC IND
								17	M	TURN SIGNAL RH (FRONT)
Connector No.	or No.	M78			-			18	BG	TURN SIGNAL LH (FRONT)
Connect	Connector Name	ALTOMACTIC DRIVE POSITIONER CONTROL LINIT	la C	Signal Name [Specification]	Connector No.	M118		19	>	INT ROOM LAMP CONT
			7	Diogramme and Commercial Commerci	Connector Name	BCM (BODY CONTROL MODULE)	·			
Connect	Connector Type	I H24FW-NH	S2 S8	BAI		0 - 41000			Γ	
ą			+	BACKWARD	Connector Type	MU3FB-LC		Connector No.	I	W122
手			28 28 28 28	DOWNWARD	<u>1</u>	[Connector Name		BCM (BODY CONTROL MODULE)
\ - -	22	7 0 7 0	ł	I IPWARD/FRONTWARD	手			Connector Type	Г	TH40FB=NH
	1	0	╀	GND	S	4			1	
		13 14 15 16 17 18 19 20 21 22 23 24	\cdot					Œ		
						7				
]		?		19190 88187 8788180 89181 8019181 801918
lermina No	No Wire	Signal Name [Specification]			Torminol Polos Of					110 113 10 10 10 10
-	}	IPWARD				Signal Name [Specification]	tion]			
. 2	. 19	SELECT RH			t	BAT (E/L)				
6	o	UPWARD			2 W	POWER WINDOW POWER SUPPLY(BAT)	PPLY(BAT)	Terminal	Color Of	3 3 3
4	>	LEFTWARD			>	POWER WINDOW POWER SUPPLY(RAP)	PPLY(RAP)	No.	Wire	Signal Name [Specification]
2	œ	MIR_SENS_UP_DOWN(RH)						74	SB	PASSENGER DOOR ANT-
9	GR							75	GR	PASSENGER DOOR ANT+
7	GR	FORWARD						9/	^	DRIVER DOOR ANT-
80	>	RX/TX						11	ГG	DRIVER DOOR ANT+
0	>	MIR_MTR_UP(RH)						82	≻	ROOM ANT1-
Ξ	g	MIR_MTR_LEFT(RH)						79	BR	ROOM ANT1+
12	>	MIR_MTR_DOWN_RIGHT(LH)						80	æ	NATS ANT AMP.

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AUT	OMAT	AUTOMATIC DRIVE POSITIONER									
18	Μ	NATS ANT AMP.	140	GR	SHIFT N/P	34	>	=	Terminal Color Of	Committee Committee	
82	œ	IGN RELAY (F/B) CONT	141	o	SECURITY IND LAMP CONT	32	o	1	No. Wire	Signal Name [Specification]	
83	>	KEYLESS ENTRY RECEIVER COMM	142	BG	COMBI SW OUTPUT 5	36	>	1	1 W	1	
87	BR	COMBI SW INPUT 5	143	а	COMBI SW OUTPUT 1	37	BR	-	2 Y	1	
88	۸	COMBI SW INPUT 3	144	9	COMBI SW OUTPUT 2	43	7	-	3 R	-	
90	Ь	CAN-L	145	٦	COMBI SW OUTPUT 3	44	٨	_			
91	_	CAN-H	146	SB	COMBI SW OUTPUT 4	45	ď	-			
95	57	KEY SLOT ILL CONT	150	57	DRIVER DOOR SW	46	W	-	Connector No.	M137	
93	^	ONI NO	151	9	REAR WINDOW DEFOGGER RELAY CONT	47	SHIELD	-	,	A /T SHIET SELECTOR	
94	٨	PUDDLE LAMP CONT				52	н	-		Shirl Selection	
98	BB	ACC RELAY CONT				23	5	-	Connector Type T	TH12FW-NH	
96	GR	A/T SHIFT SELECTOR POWER SUPPLY	Connector No.	or No.	M124	54	W	-	ľ		
66	н	SHIFT P	Connect	Connector Name	MIDE TO MEDE	22	BG	-	E		
100	5	PASSENGER DOOR REQUEST SW		o Marile	mile to mile					<u>/</u>	
101	SB	DRIVER DOOR REQUEST SW	Connector Type	or Type	TH40MW-CS15				N H	1 2 2 4 5	
102	BG	BLOWER FAN MOTOR RELAY CONT	(ľ		Connector No.	tor No.	M125		Ŧ	
103	ΓC	KEYLESS ENTRY RECEIVER POWER SUPPLY		_		Jenno	Connector Name	WIRE TO WIRE		7 8 9 10 11	
107	FC	COMBI SW INPUT 1	•	_	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		200				
108	œ	COMBI SW INPUT 4	1.5	7.5	The state of the s	Connec	Connector Type	M03FW-LC			
109	≻	COMBI SW INPUT 2		ı	18 1 1 1 1 1 1 1 1 2 2 4 2 1 2 4 2 5 2 5 2 4 2 4 5 4 5 4 5 4 5 4 5 4	_			Jac	Signal Name [Specification]	
110	5	HAZARD SW			Folio Folio	E			No. Wire	Oignal realine Lopecinication of	
						-			1 W	1	
						H.S.	'n		2 ^	-	
Connector No.	or No.	M123	Terminal	0	f Simal Nama [Snavification]		ı	c	3 L		
Connect	Connector Name	BCM (BODY CONTROL MODULE)	Š.	Wire				7 6	4 B		
			7	≻	-]	ى د	ı	
Connect	Connector Type	TH40FG-NH		១	-	l			7 R	1	
4			6	>	-	Terminal	0	Signal Name [Specification]	8 SB	1	
F			12	-	-	é	Wire	,	+	ı	
ŧ		<u> </u>	13	>		-	*	T	+	T	
H.3.	á	ET 188 ET 188 ET 188	4	8	-	2	≻		Ξ		
		151 EST 501 ES	15	*	-	6	œ	1			
			16	æ	-				1		
			17	-	-				Connector No.	M151	
			82	~	-	Connector No.	tor No.	M126	Connector Name	AV CONTROL UNIT	
lermina	lerminal Color Of	Signal Name [Specification]	6	m :	-	Connec	Connector Name	WIRE TO WIRE	Т		
No.	wire		2	M :	- [Without BOSE audio]				Connector Type	I H3ZFW-NH	
113	۱ ا	OPLICAL SENSOR	50	× ,	- [With BOSE audio]	Connec	Connector Type	M03MW-LC	ą		
116	SB	STOP LAMP SW 1	21	5	- [With BOSE audio]	ą			B		
198	۵	STOP LAMP SW 2	21	_	- [Without BOSE audio]	3			ŧ	7	
119	SB	DR DOOR UNLOCK SENSOR	22	SB	-	1			2	R 67 67 67 71 71 72 72 72 75 76	
121	BR	KEY SLOT SW	23	GR	-	1.5	'n			8	
123	W	IGN F/B	24	9	_		ı	c		╢	
124	ΓC	PASSENGER DOOR SW	25	>	_			5 3			
132	BR	POWER WINDOW SW COMM	56	œ]			
133	*	PUSH-BUTTON IGNITION SWILL POWER	59	SHIELD					la D	Signal Name [Specification]	
134	GR	LOCK IND	30	W	-				No. Wire	Ognal Name Copecinoacon	
137	g	RECEIVER/SENSOR GND	.	១	-				+	PARKING BRAKE SIGNAL	
138	>-	RECEIVER/SENSOR POWER SUPPLY	32	g	-				4	COMPOSITE IMAGE SIGNAL GND	
139	_	TIRE PRESSURE RECEIVER COMM	33	BR					68 R	COMPOSITE IMAGE SIGNAL	

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≲ I⊽	MAT	UTOMATIC DRIVE POSITIONER	22	SHIELD	SHELD
ı	2	MICROPHONE VCC	28	SHELD	COMP OUT SHIELD
ı	œ	CAMERA POWER SUPPLY			
	Ь	CAN-L			
	LG	AV COMM (L)	Connector No.	r No.	M217
	LG	AV COMM (L)	Connector Name	- Mama	LINIT IODINOS AV
	ď	ILLUMINATION		140110	AV CONTINGE OWN
	G	IGNITION SIGNAL	Connector Type	r Type	TH32FW-NH
	BG	REVERSE SIGNAL	1		
	В	VEHICLE SPEED SIGNAL (8-PULSE)	T T		
	SHIELD	SHIELD			
	9	MICROPHONE SIGNAL	7		00 20 00 00 00 00 00 00 00 00 00 00 00 0
100	SHIELD	SHIELD			70
	9	COMM (DISP->CONT)			32 33 34 35 36
1	-	H=NPO			
1	97	AV COMM (H)			
ı	SB	AV COMM (H)	Terminal	Color Of	
1			Ñ.	Wire	Signal Name [Specification]
			76	57	AV COMM (L)
Connector No.	ó	M215	11	SB	AV COMM (H)
Ιż		TIMIT TOUR TANK	78	ΓG	AV COMM (L)
2	COILLIGGEON MAINE	TAN COMMON AND TOWN A	79	SB	AV COMM (H)
16	Connector Type	TH24FW-NH	80	۵	CAN-L
1			81	_	CAN-H
			82	8	SW GND
			98	SHELD	SHIELD
		26 27 28 20 40 44 40 42 44 45 45	87	_	TEL VOICE SIGNAL (+)
		2	88	۵	TEL VOICE SIGNAL (-)
		48 49 50 51 52	92	~	VEHICLE SPEED SIGNAL (8-PULSE)
			93	>	PARKING BRAKE SIGNAL
			94	BG	REVERSE SIGNAL
12	Color Of	3	92	ŋ	IGNITION SIGNAL
	Wire	Signal Name [Specification]	96	>	DISK EJECT SIGNAL
ı	BG BG	SIGNAL VCC			
ı	2	SIGNAL GND			
ı	В	dН			
ı	BR	COMM (DISP->CONT)			
	В	RGB AREA (YS) SIGNAL			
S	SHIELD	RGB SYNC GND			
ı	^	RGB SYNC			
	c	RGB (RRED) SIGNAL			
1	-	BGB (GGBEEN) SIGNAL			
1		RGB (B:BLIE) SIGNAL			
1	. >	COMPOSITE IMAGE SIGNAL GND			
1	as	COMPOSITE IMAGE SIGNAL			
	9 >	INVESTED VCC			
-1	- 6	MAENIEW AND			
- 1	£	INVERTER GND			
- 1	G	dΛ			
- 1	>	COMM (CONT->DISP)			
10	CUIEID	UISINS			

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< ECU DIAGNOSIS INFORMATION >

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BCM (BODY CONTROL MODULE)

Reference Value INFOID:0000000011067263

VALUES ON THE DIAGNOSIS TOOL

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
R WIPER HI	Other than front wiper switch HI	Off
K WIFEK III	Front wiper switch HI	On
R WIPER LOW	Other than front wiper switch LO	Off
IN WIF LIN LOW	Front wiper switch LO	On
R WASHER SW	Front washer switch OFF	Off
IN WASHEN SW	Front washer switch ON	On
R WIPER INT	Other than front wiper switch INT	Off
IX WIF LIX IIVI	Front wiper switch INT	On
R WIPER STOP	Front wiper is not in STOP position	Off
WII EICOTOI	Front wiper is in STOP position	On
IT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	Wiper intermittent dia position
R WIPER ON	Other than rear wiper switch ON	Off
IX WILL LIX OIN	Rear wiper switch ON	On
R WIPER INT	Other than rear wiper switch INT	Off
K WIFEK IIVI	Rear wiper switch INT	On
R WASHER SW	Rear washer switch OFF	Off
R WASHER SW	Rear washer switch ON	On
R WIPER STOP	Rear wiper is in STOP position	Off
K WIFER STOP	Rear wiper is not in STOP position	On
JRN SIGNAL R	Other than turn signal switch RH	Off
DINI SIGNAL IX	Turn signal switch RH	On
URN SIGNAL L	Other than turn signal switch LH	Off
UNIN SIGNAL L	Turn signal switch LH	On
AIL LAMP SW	Other than lighting switch 1ST and 2ND	Off
THE LAWII OW	Lighting switch 1ST or 2ND	On
I BEAM SW	Other than lighting switch HI	Off
	Lighting switch HI	On
EAD LAMP SW 1	Other than lighting switch 2ND	Off
	Lighting switch 2ND	On
EAD LAMP SW 2	Other than lighting switch 2ND	Off
LAD LAMII OVV Z	Lighting switch 2ND	On
ASSING SW	Other than lighting switch PASS	Off
AUUINU UVV	Lighting switch PASS	On
UTO LIGHT SW	Other than lighting switch AUTO	Off
OTO LIGHT SW	Lighting switch AUTO	On

< ECU DIAGNOSIS INFORMATION >

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Monitor Item	Condition	Value/Status
ED EOC CW	Front fog lamp switch OFF	Off
FR FOG SW	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 SW-DIK	Driver door opened	On
DOOR SW-AS	Passenger door closed	Off
DOON OW-AG	Passenger door opened	On
DOOR SW-RR	Rear RH door closed	Off
DOOK SW-KK	Rear RH door opened	On
DOOR SW-RL	Rear LH door closed	Off
DOOK SW-KE	Rear LH door opened	On
DOOR SW-BK	Back door closed	Off
DOOK 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
ODL HINLOOK OW	Other than power door lock switch UNLOCK	Off
CDL UNLOCK SW	Power door lock switch UNLOCK	On
VEV 0VI 1 V 0VV	Other than driver door key cylinder LOCK position	Off
KEY CYL LK-SW	Driver door key cylinder LOCK position	On
	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
LIAZADD CIM	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
TR/BD OPEN SW	Back door opener switch OFF	Off
IR/BD OFEN 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
RKE-LOCK	LOCK button of the key is not pressed	Off
RNE-LOUR	LOCK button of the key is pressed	On
DKE TIMI OCK	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
DKE DANIC	PANIC button of the key is not pressed	Off
RKE-PANIC	PANIC button of the key is pressed	On
DIVE DAM OBEN	UNLOCK button of the key is not pressed	Off
RKE-P/W OPEN	UNLOCK button of the key is pressed and held	On

< 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
DTICAL SENSOD	Bright outside of the vehicle	Close to 5 V
OPTICAL SENSOR	Dark outside of the vehicle	Close to 0 V
REQ SW -DR	Driver door request switch is not pressed	Off
LEQ 3W -DR	Driver door request switch is pressed	On
REQ SW -AS	Passenger door request switch is not pressed	Off
ILQ 3W -A3	Passenger door request switch is pressed	On
EQ SW -RR	NOTE: The item is indicated, but not monitored.	Off
REQ SW -RL	NOTE: The item is indicated, but not monitored.	Off
REQ SW -BD/TR	Back door request switch is not pressed	Off
ILQ OVV -DD/ III	Back door request switch is pressed	On
PUSH SW	Push-button ignition switch (push switch) is not pressed	Off
	Push-button ignition switch (push switch) is pressed	On
GN 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
	The brake pedal is depressed when No. 7 fuse is blown	Off
RAKE SW 1	The brake pedal is not depressed when No. 7 fuse is blown, or No. 7 fuse is normal	On
RAKE SW 2	The brake pedal is not depressed	Off
RANE SW Z	The brake pedal is depressed	On
DETE/CANCL SW	Selector lever in P position	Off
LIL/OANGE 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
	Selector lever in P or N position	On
i/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
JNLK SEN -DR	Driver door is unlocked	Off
DIX	Driver door is locked	On
USH SW -IPDM	Push-button ignition switch (push-switch) is not pressed	Off
OOT OVV TIL DIVI	Push-button ignition switch (push-switch) is pressed	On
GN RLY1 -F/B	Ignition switch in OFF or ACC position	Off
	Ignition switch in ON position	On
DETE SW -IPDM	Selector lever in any position other than P	Off
	Selector lever in P position	On
SFT PN -IPDM	Selector lever in any position other than P and N	Off
	Selector lever in P or N position	On

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Monitor Item	Condition	Value/Status
OET D. MET	Selector lever in any position other than P	Off
SFT P -MET	Selector lever in P position	On
OFT N. MET	Selector lever in any position other than N	Off
SFT N -MET	Selector lever in N position	On
	Engine stopped	Stop
ENCINE STATE	While the engine stalls	Stall
ENGINE 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
VEH SPEED 1	While driving	Equivalent to speed- ometer reading
VEH SPEED 2	While driving	Equivalent to speed- ometer reading
	Driver door is locked	LOCK
DOOR STAT-DR	Wait with selective UNLOCK operation (5 seconds)	READY
	Driver door is unlocked	UNLOCK
	Passenger door is locked	LOCK
DOOR STAT-AS	Wait with selective UNLOCK operation (5 seconds)	READY
	Passenger door is unlocked	UNLOCK
ID OK FLAG	Driver side door is open after ignition switch is turned OFF (Shift position is in the P position)	Reset
	Ignition switch ON	Set
PRMT ENG STRT	The engine start is prohibited	Reset
FINIT LING STRI	The engine start is permitted	Set
PRMT RKE STRT	NOTE: The item is indicated, but not monitored.	Reset
KEY SW -SLOT	The key is not inserted into key slot	Off
KLT 3W -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.	_
CONEDM ID ALL	The key ID that the key slot receives does not accord with any key ID registered to BCM.	Yet
CONFRM ID 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
COM INWITE	The key ID that the key slot receives accords with the fourth key ID registered to BCM.	Done
CONFIRM ID3	The key ID that the key slot receives does not accord with the third key ID registered to BCM.	Yet
CONFIRM IDS	The key ID that the key slot receives accords with the third key ID registered to BCM.	Done

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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
CONTINUID2	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
CONTINUIDI	The key ID that the key slot receives accords with the first key ID registered to BCM.	Done
TP 4	The ID of fourth key is not registered to BCM	Yet
1F 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
IP 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 REGGI FLI	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 NEGOT KIKT	ID of rear RH tire transmitter is not registered	Yet
ID DECCT DI 1	ID of rear LH tire transmitter is registered	Done
ID REGST RL1	ID of rear LH tire transmitter is not registered	Yet
WARNING LAMP	Tire pressure indicator OFF	Off
VVAIXIVIING LAWIF	Tire pressure indicator ON	On
BUZZER	Tire pressure warning alarm is not sounding	Off
DUZZEN	Tire pressure warning alarm is sounding	On

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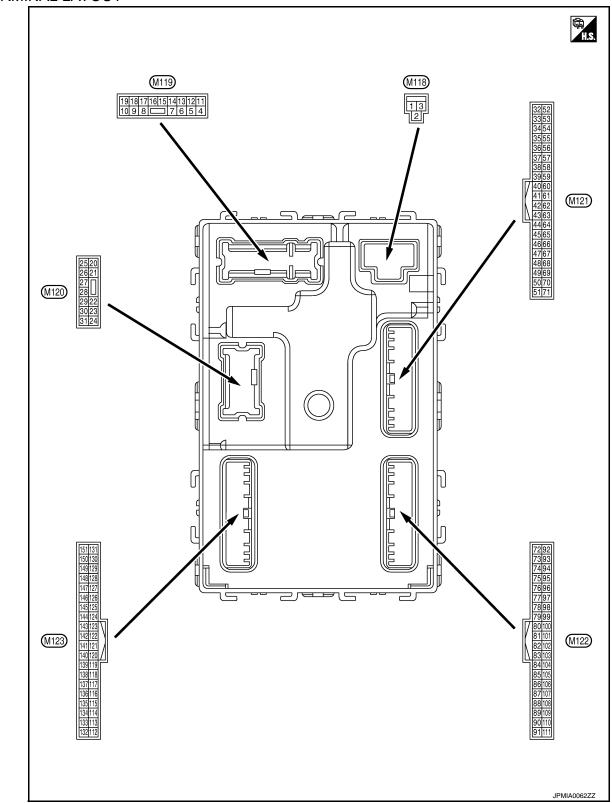
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TERMINAL LAYOUT



PHYSICAL VALUES

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value
+	e color)	Signal name	Input/ 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 OF	F	Battery voltage
3 (Y)	Ground	P/W power supply (RAP)	Output	Ignition switch ON		Battery voltage
4		Interior room lamp			battery saver is activated. oom lamp power supply)	0 V
(LG)	Ground	power supply	Output	ed.	battery saver is not activat- or room lamp power supply)	Battery voltage
5	Ground	Passenger door UN-	Output	Passanger door	UNLOCK (Actuator is activated)	Battery voltage
(L)	Ground	LOCK	Output	Passenger door	Other than UNLOCK (Actuator is not activated)	0 V
7	Ground	Step lamp	Output	Step lamp	ON	0 V
(Y)	Ground	Step lamp	Output	Step lamp	OFF	Battery voltage
8	(-round)	Output	it All doors	LOCK (Actuator is activated)	Battery voltage	
(V)			All doors	Other than LOCK (Actuator is not activated)	0 V	
9	Oriver door, fuel lid	Output	ut Driver door	UNLOCK (Actuator is activated)	Battery voltage	
(G)	Giodila	UNLOCK	Output	Dilver door	Other than UNLOCK (Actuator is not activated)	0 V
10	Ground	Rear RH door and rear LH door UN-	Output	Rear RH door	UNLOCK (Actuator is activated)	Battery voltage
(BR)	Oround	LOCK	Output	and rear LH door	Other than UNLOCK (Actuator is not activated)	0 V
11 (R)	Ground	Battery power supply	Input	Ignition switch OF	F	Battery voltage
13 (B)	Ground	Ground	_	Ignition switch ON		0 V
					OFF	0 V
14		Push-button ignition				NOTE: When the illumination brightening/dimming level is in the neutral position
(W)	(iround ewitch illumination () ithut I all lamn	Tail lamp	ON	(V) 10 0 2 ms JSNIA0010GB		
15	0	ACC in diagram to the co	0	Innitian of Male	OFF or ON	Battery voltage
(Y)	Ground	ACC indicator lamp	Output	Ignition switch	ACC	0 V

(Wire cold	olor)		Description			Value	
	_	Signal name	Input/ Output		Condition	(Approx.)	
					Turn signal switch OFF	0 V	
17 (W) Gro	round	Turn signal RH (Front)	Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 1 s PKID0926E 6.5 V	
					Turn signal switch OFF	0 V	
18 (BG) Gro	round	Turn signal LH (Front)	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s PKID0926E 6.5 V	
19 Gro	round	Room lamp timer	Output	Interior room	OFF	Battery voltage	
(V)		control		lamp	ON Turn signal switch OFF	0 V 0 V	
20 (V) Gro	round	Turn signal RH (Rear)	Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 1 s PKID0926E 6.5 V	
23	round	Pagir door onen	Output	Pack door	OPEN (Back door opener actuator is activated)	Battery voltage	
(G)	round	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) Gro	round	Turn signal LH (Rear)	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s PKID0926E 6.5 V	
26 Cr	round	Poor wipor	Outout	Poor winer	OFF (Stopped)	0 V	
(G)	round	Rear wiper	Output	Rear wiper	ON (Operated)	Battery voltage	

< ECU DIAGNOSIS INFORMATION >

	ninal No.	Description				Value
+	e color)	Signal name	Input/ Output		Condition	(Approx.)
34	Onesida	Luggage room anten-	0.4.4	Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB
(SB)		When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB			
35 (V) Ground	Luggage room anten-		Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1	
	Ground	na (+)	Output	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB
38 (B) Gr	Ground	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 JMKIA0062GB
	Ground				When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB

	inal No. e color)	Description			Condition	Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
39	Ground	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 JMKIA0062GB
(W)	Glound	(+)	Output		When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB
47	0	Ignition relay (IPDM	0.44	lauditian auditah	OFF or ACC	Battery voltage
(Y)	Ground	E/R) control	Output	Ignition switch	ON	0 V
52	Ground	Starter relay control	Output	Ignition switch	When selector lever is in P or N position	Battery voltage
(SB)	Ground	Starter relay control		ON	When selector lever is not in P or N position	0 V
60	C	Push-button ignition	Innut	Push-button igni-	Pressed	0 V
(BR)	Ground	switch (Push switch)	Input	tion switch (push switch)	Not pressed	Battery voltage
					ON (Pressed)	0 V
61 (W)	Ground	Back door opener request switch	Input	Back door opener request switch	OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB 1.0 V
		Intelligent Key warn-		Intelligent Key	Sounding	0 V
64 (V)	Ground	ing buzzer (Engine room)	Output	warning buzzer (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
					Not in stop position	0 V

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	inal No.	Description				Value
+	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 11.8 V
68 (BR)	Ground	Rear RH door switch	Input	Rear RH door switch	OFF (Door close) ON (Door open)	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8 V
					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 10 ms JPMIA0011GB
					ON (Door open)	0 V

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	inal No. e color)	Description	I		On addition	Value
+		Signal name	Input/ Output		Condition	(Approx.)
74	Crown	Passenger door an-		When the passenger door re-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 S S S S S S S S S
(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 antenna (+)	Output	When the passenger door request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 11 1 s JMKIA0062GB
(GR)	Ground				When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB
76	Ground	Driver door antenna (−)	Output	When the driver door request switch is operat- ed with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 11 1 s JMKIA0062GB
(V)	Ground				When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB

< ECU DIAGNOSIS INFORMATION >

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

< ECU DIAGNOSIS INFORMATION >

	inal No. e color)	Description			On addition	Value	
+	-	Signal name	Input/ Output		Condition	(Approx.)	
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.	
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.	
82	Ground	Ignition relay [Fuse	Output	Ignition switch	OFF or ACC	0 V	
(R)	Ground	block (J/B)] control)] control Output Ignition switch ON		ON	Battery voltage	
83	Ground	Remote keyless entry receiver communication	Input/ Output	During waiting		(V) 15 10 5 0 1 ms JMKIA0064GB	
(Y)	Ground			When operating e	ither button on the key	(V) 15 10 5 1 ms JMKIA0065GB	

< ECU DIAGNOSIS INFORMATION >

[WITH ADP]

	inal No.	Description				Value	
+	e color)	Signal name	Input/ Output		Condition	(Approx.)	
					All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4 V	
					Front fog lamp switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0	
87 (BR)	Ground	Combination switch INPUT 5	Input	Combination switch	Rear wiper switch ON	JPMIA0037GB 1.3 V	
					(Wiper intermittent dial 4)	2 ms JPMIA0039GB	
					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 0 2 ms	
						JPMIA0040GB 1.3 V	

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	inal No. e color)	Description	I			Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB
					Lighting switch HI (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3 V
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 1.3 V
					Rear washer switch ON (Wiper intermittent dial 4)	(V) 15 10 2 ms 1.3 V
					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
90 (P)	Ground	CAN-L	Input/ Output	_		_
91 (L)	Ground	CAN-H	Input/ Output	_		_

< ECU DIAGNOSIS INFORMATION >

	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					OFF or ACC	Battery voltage
(V)	Ground	ON indicator lamp	Output	Ignition switch	ON	0 V
94		5		5	OFF	Battery voltage
(Y)	Ground	Puddle lamp control	Output	Puddle lamp	ON	0 V
95	Ground	ACC relay control	Outout	lanition switch	OFF	0 V
(BG)	Ground	ACC relay control	Output	Ignition switch	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)	Giodila	tion switch	IIIput	Selector level	Any position other than P	Battery voltage
					ON (Pressed)	0 V
100 (G)	Ground	Passenger door request switch	Input	Passenger door request switch	OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB 1.0 V
					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		Blower fan motor re-			OFF or ACC	1.0 V 0 V
102 (BG)	Ground	lay control	Output	Ignition switch	ON	Battery voltage
103 (LG)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch OF		Battery voltage

	inal No.	Description				Value
+ (Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4 V
					Turn signal switch LH	(V) 15 10 5 0 2 ms JPMIA0037GB 1.3 V
107 (LG)	Ground	Combination switch INPUT 1	Input	Combination switch (Wiper intermit- tent dial 4)	Turn signal switch RH	(V) 15 10 0 2 ms JPMIA0036GB
					Front wiper switch LO	(V) 15 10 5 0 2 ms JPMIA0038GB
					Front washer switch ON	(V) 15 10 5 0 2 ms JPMIA0039GB 1.3 V

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value	А
+	e color)	Signal name	Input/ Output		Condition	(Approx.)	^
					All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4 V	B C D
					Lighting switch AUTO (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3 V	E
108 (R)	Ground	Combination switch INPUT 4	Input	Combination switch	Lighting switch 1ST (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3 V	G H
					Rear wiper switch INT (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0040GB 1.3 V	J K
					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	M
						1.3 V	0

	inal No.	Description				Value
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF	(V) 15 10 5 0 2 ms JPMIA0041GB
					Lighting switch PASS	(V) 15 10 5 0 2 ms JPMIA0037GB
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
					Front wiper switch INT	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3 V
					Front wiper switch HI	(V) 15 10 5 0 2 ms JPMIA0040GB
					ON	0 V
110 (G)	Ground	Hazard switch	Input	Hazard switch	OFF	(V) 15 10 5 0 10 ms JPMIA0012GB

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				
(Wir	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)	Giouna	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		ON (Brake pedal is depressed)	Battery voltage
(P)	Ordana	Stop lamp switch 2	mpac		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	Cround	Kov alet awiteh	Innut	When the key is ir	serted into key slot	Battery voltage
(BR)	Ground	Key slot switch	Input	When the key is n	ot inserted into key slot	0 V
123	Ground	IGN feedback	Input	Ignition switch	OFF or ACC	0 V
(W)	Giodila	TOTA TEEGIDACK	input	igilition switch	ON	Battery voltage
124 (LG)	Ground	Passenger door switch	Input	Passenger door switch	OFF (Door close)	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8 V
					ON (Door open)	0 V
132 (BR)	Ground	Power window switch communication	Input/ Output	Ignition switch ON	I	(V) 15 10 5 0
						JРМIA0013GB 10.2 V
				Ignition switch OF	F or ACC	Battery voltage

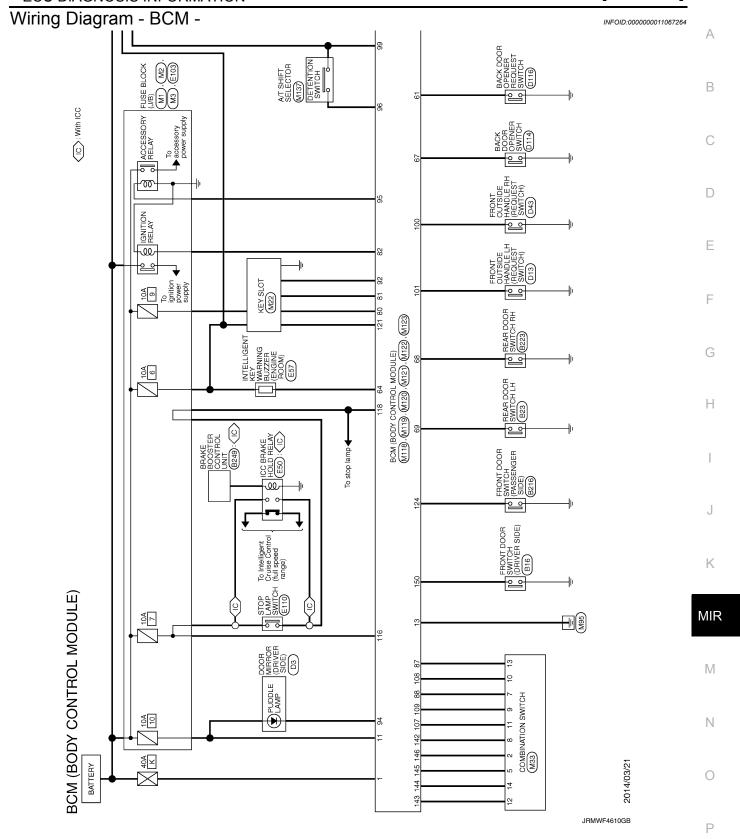
	inal No.	Description				Value
+	e color)	Signal name	Input/ Output		Condition	(Approx.)
					ON (Tail lamps OFF)	9.5 V
133 (W)	Ground	Push-button ignition switch illumination	Output	Push-button ignition switch illumination	ON (Tail lamps ON)	NOTE: The pulse width of this wave is varied by the illumination brightening/dimming level. (V) 15 10 5
					OFF	JPMIA0159GB
134				LOCK indicator	OFF	Battery voltage
(GR)	Ground	LOCK indicator lamp	Output	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)	Ground	power supply	Output	ignition switch	ACC or ON	5.0 V
139 (L)	Ground	Tire pressure receiver communication	Input/ Output	Ignition switch ON	Standby state	(V) 6 4 2 0
					When receiving the signal from the transmitter	(V) 6 4 2 0 • 0.2s OCC3880D
140	Ground	Selector lever P/N	Input	Selector lever	P or N position	Battery voltage
(GR)	Ciodila	position	mput	33,33101 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 Battery voltage
					J	Dattory voltage

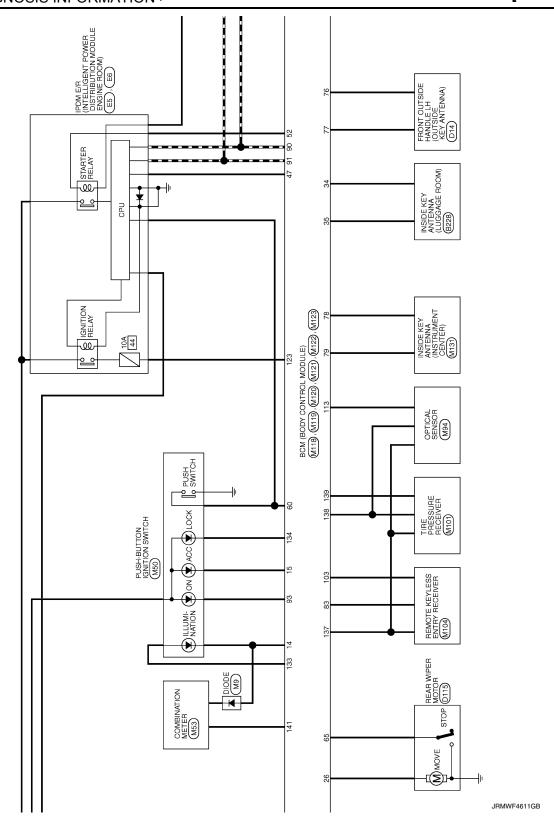
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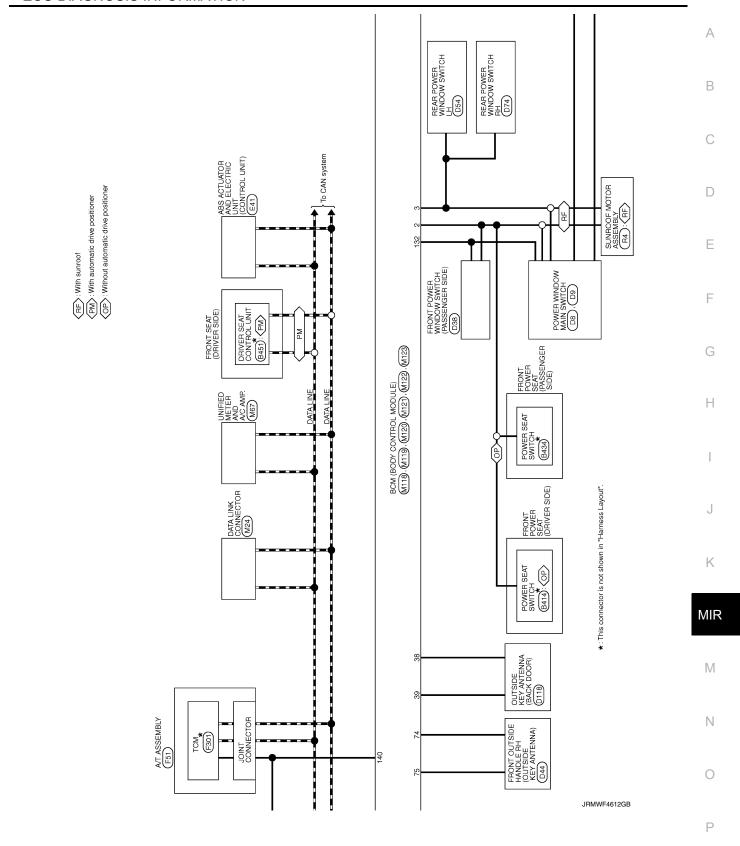
	ninal No.	Description	1			Value
(Wir	e color)	Signal name	Input/ Output		Condition	(Approx.)
142 (BG)	Ground	Combination switch OUTPUT 5	Output	Combination switch (Wiper intermit- tent dial 4)	All switches OFF Lighting switch 1ST Lighting switch HI Lighting switch 2ND Turn signal switch RH	0 V (V) 15 10 2 ms JPMIA0031GB
143 (P)	Ground	Combination switch OUTPUT 1	Output	Combination switch	All switches OFF (Wiper intermittent dial 4) Front wiper switch HI (Wiper intermittent dial 4) Rear wiper switch INT (Wiper intermittent dial 4) 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	10.7 V 0 V 15 10 5 0 2 ms JPMIA0032GB
144 (G)	Ground	Combination switch OUTPUT 2	Output	Combination switch	All switches OFF (Wiper intermittent dial 4) Front washer switch ON (Wiper intermittent dial 4) Rear wiper switch ON (Wiper intermittent dial 4) Rear washer switch ON (Wiper intermittent dial 4) Any of the conditions below with all switches OFF Wiper intermittent dial 1 Wiper intermittent dial 5 Wiper intermittent dial 6	0 V (V) 15 10 5 0 JPMIA0033GB 10.7 V
145 (L)	Ground	Combination switch OUTPUT 3	Output	Combination switch (Wiper intermit- tent dial 4)	All switches OFF Front wiper switch INT Front wiper switch LO Lighting switch AUTO	0 V (V) 15 10 5 0 2 ms JPMIA0034GB 10.7 V

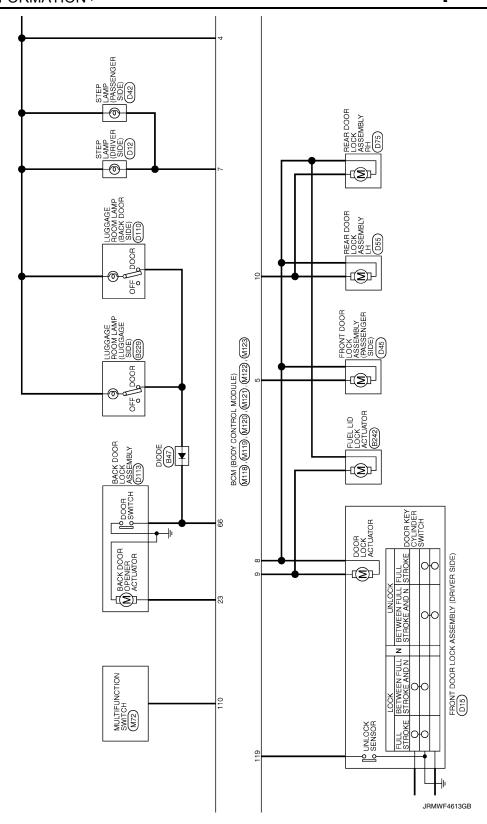
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	inal No.	Description				Value
+	e color)	Signal name	Input/ Output		Condition	(Approx.)
-					All switches OFF	0 V
					Front fog lamp switch ON	
				Combination	Lighting switch 2ND	(V)
146	Ground	Combination switch	Output	switch	Lighting switch PASS	10
(SB)	Ground	OUTPUT 4	Guipai	(Wiper intermit- tent dial 4)	Turn signal switch LH	0 JPMIA0035GB 10.7 V
150 (LG)	Ground	Driver door switch	Input	Driver door switch	OFF (Door close)	(V) 15 10 5 0 10 ms JPMIA0011GB
					ON (Door open)	0 V
151	Craverd	Rear window defog-	Out out	Rear window de-	Active	0 V
(G)	Ground	ger relay control	Output	fogger	Not activated	Battery voltage

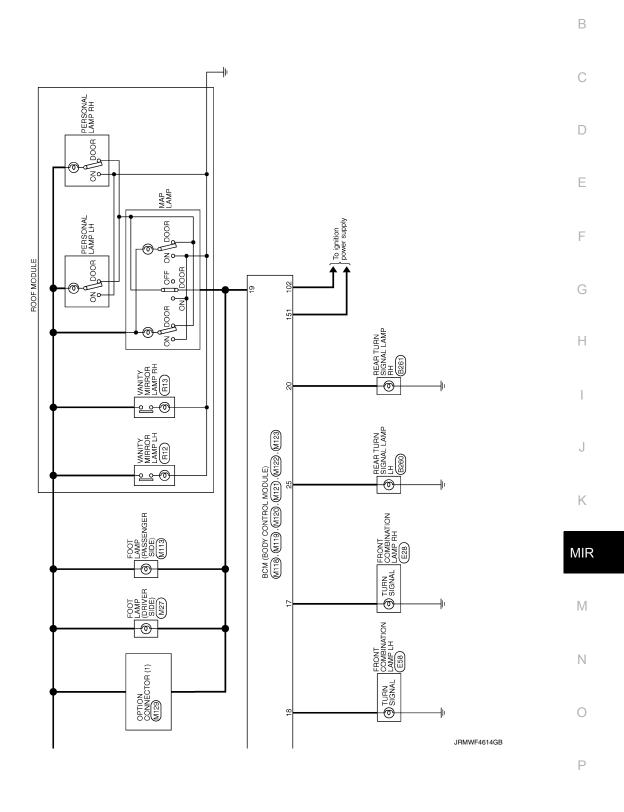




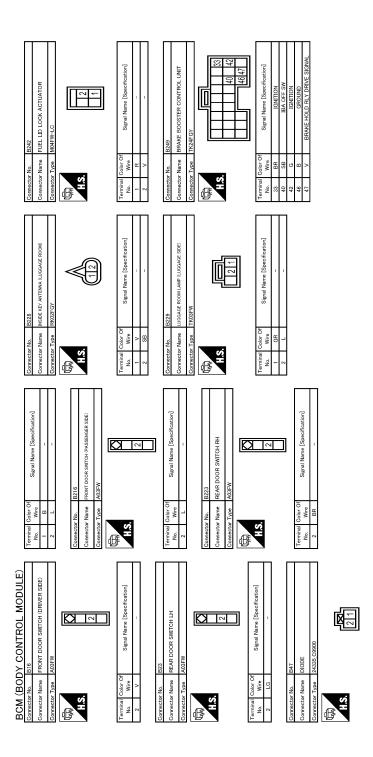




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Revision: February 2015 MIR-95 2015 QX50



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Connector No. D3 Connector Name BOOR MIRROR (DRIVER SIDE) Connector Type 11/24MW-1481 Connector Type 2 11/11/10 7 6 5 3 2 1 14 12/11/10 17 19 18 17 14	No. Outroom California Outroom Outro	
Connector No. B451 Connector Name PRIVER SEAT CONTROL UNIT Connector Type 11432FW H.S.	Terminal Color Of Signal Name Specification 1	
Connector No. B414 Connector Name POWER SEAT SWITCH Connector Type NSIGW-CS A.S. A.S. A.S. A.S. A.S. A.S. A.S. A.	Terminal Color Of Signal Name (Specification) We Signal Name (Specification) We Signal Name (Specification) Formed Signal Name (Specification) To GAM To CAM To	
BCM (BODY CONTROL MODULE) Connector No. BESO Connector Name REAR TURN SIGNAL LAMP LH Connector Type HSDRTG-W	Terminal Color Of Signal Name [Specification]	
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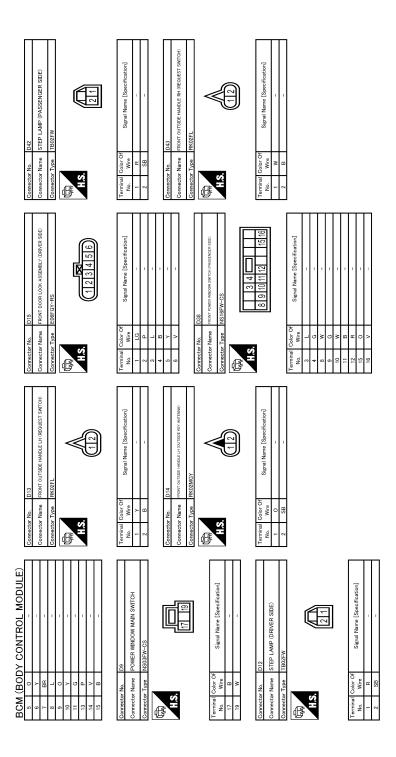
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Connector No. D110 Connector Name Ludavid ROOM LAWF (BAOK DOOR SIDE) Connector Type ITAGSFW H.S.	Terminal Color Of Signal Name [Specification] 1	
Connector Number REAR POWER WINDOW SWITCH RH Connector Type INSUBHW-OS H.S. [23451]	Terminal Color Of Signal Name Specification No. Wive No. Wive No. Wive Signal Name Specification No. Wive No.	
Connector No. D54 Connector Name REAR POWER WINDOW SWITCH LH Connector Type NSOBFW-CS. H.S.	Terminal Color Of Signal Name Specification	
BCM (BODY CONTROL MODULE) Gornector Nume moor cursue invocate ev. Avrinous Corrector Type RICZM(GY) H.S.	Terminal Color Of Signal Name (Specification) 1	

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E28 FRONT COMBINATION LAMP RH INSURE -PR		e Signal Name [Specification]					E41	_	e BAA42FB-AH24-LH	Œ	(43) 15 15 15 15 15 15 15 1			of Signal Name [Specification]	0			GROUND						LD GROUND	
Connector No. Connector Type	HS.	Wire	+	H	뚭 교		Connector No.	Connector Name	Connector Type	Y	į.			Terminal Color Of No. Wire	В	5	<u>د</u> ا	2 >	BG	Н	В	Α .	2 r	ㅎ	т
Connection Connectico Connection		S 2 6	2 4 K	9	r 8		Corn	Coni	Sol	(F	4		Ĺ	Termin No.	-	2	e .	4	0 9	7	6	10	12	15	19
E5 THZOFW-GS12-M4-1V		Signal Name [Specification] -		1			1 1	1		E6	IPDW E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)	TH08FW-NH	E		4 - 40	46 45 44 43			Signal Name [Specification]	-	-	=			-
9 g			R R	<u>}</u>	N K	g 2	BG -	GR	g	П		Connector Type		rá	1				Wire	Ь	٦	B/W	gs E	5 0	œ
Connector No. Connector Typ	H.S.	Š 4	0 - 5	13	91 6	25	27	308	36	Connector No.	Connect	Connect	Œ	H.S.				F	No.	38	40	41	43	45	46
Connector No. D116 Connector Name BAOK DOOR OPENER REQUEST SWITCH Connector Type ITXQ2MER-P	HS. 112		9 2	Connector No. D118	Connector Name OUTSIDE KEY ANTENNA (BACK DOOR)	Connector Type RK02FGY	₩ E	HS.	(12)		Terminal Golor Of Signal Name [Specification] No. Wire	1 BR -	r r												
BCM (BODY CONTROL MODULE) Connector No. DI14 Connector Name BACK DOOR OPENER SWITCH Connector Type INQUARR-P	Color Of	No. Wire Signal Name [Specification]	- B B Z	Connector No. D115	Connector Name REAR WIPER MOTOR	Connector Type CJ04FW-1V	E E	H.S.	4 3		Terminal Color Of Signal Name [Specification]	9	2 G												

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O N. F204	Connector No. F301	Connector Name TCM	Connector Type SP10FG	1			(1 2 3 4 5)	01 8 8 2 9		reation] Terminal Color Of Signal Name [Specification]	t	2 - BATTERY POWER SUPPLY	3 - CAN-H	4 - K-LINE	5 - GROUND		I-NAC - 8	- STAI	10 - GROUND		Connector No. M1	Connector Name FUSE BLOCK (J/B)	6 Connector Type NS06FW-M2				SA (AlbAlbA			Terminal	No. Wire	>		4A R	: >	- Y 69	7A R -	
7450	Connector No. E110	Connector Name STOP LAMP SWITCH	Connector Type M04FW-LC	1			3.4	12		Terminal Color Of Signal Name [Specification]	$^{+}$	2 W	3 Y	4 SB -		Connector No. F51		Connector Name A/T ASSEMBLY	Connector Type RK10FG-DGY	4	- Children	13.	2 8 6 07		Terminal Color Of Signal Name [Specification]	+	2 BR BATTERY POWER SUPPLY		4 V K-LINE	8	_	R BACK-L		10 B GROIND				
	Connector No. E58	Connector Name FRONT COMBINATION LAMP LH	Connector Type RS08FB-PR	1		Ť	(2 3	2678		Terminal Color Of Signal Name [Specification]	+	3 B/Y	4 B/W -		9 1	1 BG			Connector No. E103	Connector Name FUSE BLOCK (J/B)	Connector Type NS16FW-CS]	91 01		Terminal Color Of	No. Wire Signal Name [Specification]	H	W	o	BR .	1	- H H H				
BCM (BODY CONTROL MODULE)	BUS-L	DP FL	ZO	DS RR	BLS	VDC OFF SW	CAN-H	E-000	F50	ICC BRAKE HOLD RELAY	Connector Type M06FGY-R-US			2 1	6 7 3				Signal Name [Specification]		-	1 1	1	1		E3/	INTELLIGENT KEY WARNING BUZZER (ENGINE ROOM)	RK03FBR		<	«		((1 3)			9	oighal name Lopecinication	
<u>у</u> (ВО	+	26 LG	╁	H	Н	31 R	35 L	-	Connector No	Connector Name	nnector Type	[1	į				al	No.	2 B	3 P	H	7 R	- 1	Connector No.	Connector Name	Connector Type		修	Į.	į				_	No. Wire	

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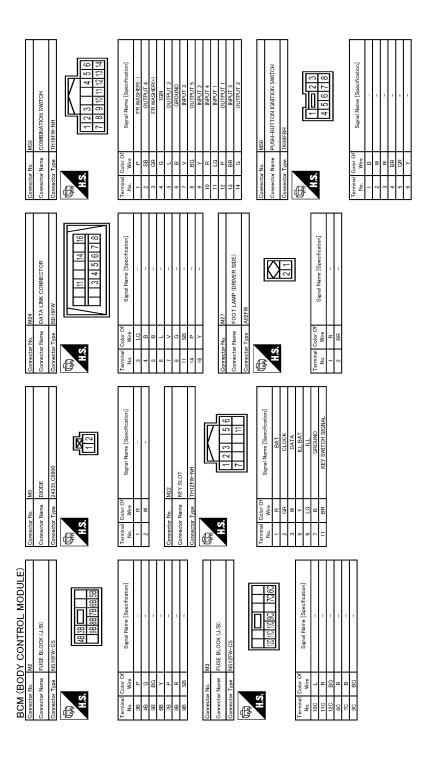
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Connector No. M101	Connector Name TIRE PRESSURE RECEIVER	Connector Type TK04FW	þ	[Much	S. T.	[12] [4]			Terminal Color Of Signal Name [Specification]	t		4 Y BATTERY		1	Connector No. M104	Connector Name REMOTE KEYLESS ENTRY RECEIVER	Connector Type JAB04FB				2	1 2 4]		TT	No Wire Signal Name [Specification]	t	SIG	4 LG BATTERY									
M72	MULTIFUNCTION SWITCH	TH16FW-NH		<u> </u> 	4 6 8 14 16	6.			Signal Name [Specification]	GROUND	OOV	ILL	ILL CONT	AV COMM (H)	AV COMM (L)	DISK E.IECT SIGNAL	HAZABD ON			M94	OPTICAL SENSOR		TK03FW				7 0 7	112.3			[minings] and N [minings]	Signal Name [Specification]	POWER	OUTPUT	GROUND			
Connector No.	Connector Name	Connector Type			Š. E				Ferminal Color Of No Wire	t	>	# R		e SB	8 FG	0 >	- 19			Connector No.	Connector Name	all manage	Connector Type		_	υH	1				Terminal Color Of	o. Wire	Α.	A .	3 B			
Con	Con	Con	þ	厚	7			Į	E Z	<u> </u>	ľ	7	"	1	<u>" </u>	1	1]		Con	ju d		Con	Įą.	手	_	•				Tem	No.		``				
M67	UNIFIED METER AND A/C AMP.	TH32FW-NH			41 42 43 44 45 46 47	61 62 65 69 69			f Signal Name [Specification]	ACC POWER SUPPLY	FUEL LEVEL SENSOR SIGNAL	INTAKE SENSOR SIGNAL	IN-VEHICLE SENSOR SIGNAL	AMBIENT SENSOR SIGNAL	SUNLOAD SENSOR SIGNAL	IGNITION DOWER SUBDLY	BATTERY POWER SUPPLY	GROUND	CAN-H	BRAKE FLUID LEVEL SWITCH SIGNAL	FUEL LEVEL SENSOR GROUND	INTAKE SENSOR GROUND	IN-VEHICLE SENSOR GROUND	AMBIENT SENSOR GROUND	SUNLOAD SENSOR GROUND	= = = = = = = = = = = = = = = = = = =	A/C I AN SIGNAL	EACH DOOR MOTOR POWER SUPPLY	GROUND	CAN-L								
Connector No.	Connector Name	Connector Type			S. E.				erminal Color Of	t	45 Y	43 R		+	46 BG	+	╁	55 B	7 P	57 W	\dashv	59 GR	+	+	62 SB	203	$^{+}$	202	-	72 P								
Con	8	Con	9	厚	_		-	Į	Ter			4	1	1	<u>" </u>	Ί.	Ϊ,	L"		"	"'	"	<u>"</u>	1	Ί'	1°	1	Τ		Ľ]						_	
BCM (BODY CONTROL MODULE)	1		M53	COMBINATION METER	Connector Type TH40FW-NH			12 3 5 6 7 10 15 16 19 20	21 22 24 25 26 27 28 29 30 31 33 36 37 38 39 40			Simal Name [Specification]	O'B' ISI I SELLO L'Obscullostion I	BATTERY POWER SUPPLY	COMMUNICATION SIGNAL (METER->AMP.)	COMMONION SIGNAE (AMP.:-/METER)	AI TERNATOR SIGNAL	AIR BAG SIGNAL	SECURITY SIGNAL	GROUND	METER CONTROL SWITCH GROUND	ILL GND	ILL	IGNITION SIGNAL	GROUND GROUND	COMMUNICATION SIGNAL (AMP.)	VEHICLE SPEED SIGNAL (8-PLILSE)		BRAKE FLUID LEVEL SWITCH SIGNAL	SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE)	SEAT BELT BUCKLE SWITCH SIGNAL (PASSENGER SIDE)	WASHER LEVEL SWITCH SIGNAL	ILLUMINATION CONTROL SIGNAL	SELECT SWITCH SIGNAL	ENTER SWITCH SIGNAL	TRIP A/B RESET SWITCH SIGNAL	ILLUMINATION CONTROL SWITCH SIGNAL (-)	ILLUMINATION CONTROL SWITCH SIGNAL (+)
<u>/ (BOI</u>	۵		tor No.	Connector Name	tor Type		ę	á				erminal Color Of	Wire	æ	9 E	5 a	۵ ۵	BR	9	В	В	В	œ	BG	m 5	ž >	- 0	<u> </u> >	٨	g	5	٦	В	LG	SB	-	۵	BG
BCN	80		Connector No.	Connec	Connec	1	ŧ	Ī				Termina	Š	-	2	o w	9	7	10	15	16	19	20	21	22	47	26	27	28	58	30	31	33	36	37	38	39	40

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80 GR NATS ANT AMP	· M	NS1	Y KEYL	87 BR COMBI SW INPUT 5	88 V COMBI SW INPUT 3	90 P CAN-L	91 L CAN-H	LG KEY SI	93 V ON IND	94 Y PUDDLE LAMP CONT	BG	GR A/T SHIFT SEL	x (+	101 SB DRIVER DOOR REQUEST SW	D 0	2 5	2 00	· >-	g			Connector No. M123	Connector Name BCM (BODY CONTROL MODULE)	┑	Connector Type TH40FG-NH			20	(2) (2) (2) (2) (2) (2) (2) (2) (2) (3) (3) (3) (3) (3) (3) (3) (3) (3) (3			T	No. Wire Signal Name [Specification]	$^{+}$. 8	3 0	. 0	9 8	ži s	DASSE	a a	W PUSH-	SB	┞	1000
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Fail-safe

FAIL-SAFE CONTROL BY DTC

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

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		
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		 500 ms after the following conditions are fulfilled IGN relay (IPDM E/R) control signal: OFF (Battery voltage) Ignition ON signal (CAN to IPDM E/R): OFF (Request signal) Ignition ON signal (CAN from IPDM E/R): OFF (Condition signal) 		
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		
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.
- 2. Turn rear wiper switch OFF.
- 3. Operate the rear wiper switch or rear washer switch.

DTC Inspection Priority Chart

INFOID:0000000011067266

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
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

< ECU DIAGNOSIS INFORMATION >

[WITH ADP]

Priority	DTC	٨
	 B2553: IGNITION RELAY B2555: STOP LAMP B2556: PUSH-BTN IGN SW B2557: VEHICLE SPEED B2560: STARTER CONT RELAY B2601: SHIFT POSITION 	В
	 B2602: SHIFT POSITION B2603: SHIFT POSI STATUS B2604: PNP SW B2605: PNP SW B2608: STARTER RELAY 	С
4	B260A: IGNITION RELAY B260F: ENG STATE SIG LOST B2614: ACC RELAY CIRC	D
	 B2615: BLOWER RELAY CIRC B2616: IGN RELAY CIRC B2617: STARTER RELAY CIRC 	Е
	B2618: BCM B261A: PUSH-BTN IGN SW B261E: VEHICLE TYPE B26EA: KEY REGISTRATION	F
	C1729: VHCL SPEED SIG ERR U0415: VEHICLE SPEED SIG	G
	 C1704: LOW PRESSURE FL C1705: LOW PRESSURE FR C1706: LOW PRESSURE RR C1707: LOW PRESSURE RL C1708: [NO DATA] FL 	Н
5	 C1709: [NO DATA] FR C1710: [NO DATA] RR C1711: [NO DATA] RL C1716: [PRESSDATA ERR] FL 	I
	 C1717: [PRESSDATA ERR] FR C1718: [PRESSDATA ERR] RR C1719: [PRESSDATA ERR] RL C1734: CONTROL UNIT 	J
6	B2621: INSIDE ANTENNA B2623: INSIDE ANTENNA	K

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 BCS-19, "COM-MON ITEM: CONSULT Function (BCM - COMMON ITEM)".

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-42
U1010: CONTROL UNIT (CAN)	_	_	_	_	BCS-43
U0415: VEHICLE SPEED SIG	_	_	_	_	BCS-44
B2190: NATS ANTENNA AMP	×	_	_	_	SEC-40

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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
B2191: DIFFERENCE OF KEY	×	_	_	_	SEC-43
B2192: ID DISCORD BCM-ECM	×	_	_	_	SEC-44
B2193: CHAIN OF BCM-ECM	×	_	_	_	SEC-45
B2195: ANTI SCANNING	×	_	_	_	SEC-46
B2553: IGNITION RELAY	_	×	_	_	PCS-51
B2555: STOP LAMP	_	×	_	_	SEC-47
B2556: PUSH-BTN IGN SW	_	×	×	_	SEC-49
B2557: VEHICLE SPEED	×	×	×	_	SEC-51
B2560: STARTER CONT RELAY	×	×	×	_	SEC-52
B2562: LOW VOLTAGE	_	×	_	_	BCS-45
B2601: SHIFT POSITION	×	×	×	_	<u>SEC-53</u>
B2602: SHIFT POSITION	×	×	×	_	<u>SEC-56</u>
B2603: SHIFT POSI STATUS	×	×	×	_	<u>SEC-59</u>
B2604: PNP SW	×	×	×	_	<u>SEC-62</u>
B2605: PNP SW	×	×	×	_	<u>SEC-64</u>
B2608: STARTER RELAY	×	×	×	_	<u>SEC-66</u>
B260A: IGNITION RELAY	×	×	×	_	PCS-53
B260F: ENG STATE SIG LOST	×	×	×	_	<u>SEC-68</u>
B2614: ACC RELAY CIRC	_	×	×	_	PCS-55
B2615: BLOWER RELAY CIRC	_	×	×	_	PCS-58
B2616: IGN RELAY CIRC	_	×	×	_	PCS-61
B2617: STARTER RELAY CIRC	×	×	×	_	SEC-71
B2618: BCM	×	×	×	_	PCS-64
B261A: PUSH-BTN IGN SW	_	×	×	_	SEC-73
B261E: VEHICLE TYPE	×	×	× (Turn ON for 15 seconds)	_	SEC-76
B2621: INSIDE ANTENNA	_	×	_	_	DLK-58
B2623: INSIDE ANTENNA	_	×	_	_	DLK-60
B26E1: ENG STATE NO RES	×	×	×	_	SEC-69
B26EA: KEY REGISTRATION	_	×	× (Turn ON for 15 seconds)	_	SEC-70
C1704: LOW PRESSURE FL	_	_	_	×	
C1705: LOW PRESSURE FR	_	_	_	×	VA/T O4
C1706: LOW PRESSURE RR	_	_	_	×	<u>WT-24</u>
C1707: LOW PRESSURE RL	_	_	_	×	
C1708: [NO DATA] FL	_	_	_	×	
C1709: [NO DATA] FR	_	_	_	×	WT 26
C1710: [NO DATA] RR	_	_	_	×	<u>WT-26</u>
C1711: [NO DATA] RL	_	_	_	×	

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[WITH ADP]

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-29
C1718: [PRESSDATA ERR] RR	_	_	_	×	<u> </u>
C1719: [PRESSDATA ERR] RL	_	_	_	×	
C1729: VHCL SPEED SIG ERR	_	_	_	×	<u>WT-31</u>
C1734: CONTROL UNIT	_	_	_	×	WT-33

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SYMPTOM DIAGNOSIS

DOOR MIRROR DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000010597958

1. CHECK AUTOMATIC DRIVE POSITIONER SYSTEM

Check door mirror operate with automatic drive positioner system.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Check automatic drive positioner system operation. Refer to <u>ADP-13, "AUTOMATIC DRIVE POSITIONER SYSTEM: System Diagram".</u>

$2.\mathsf{CHECK}$ DOOR MIRROR REMOTE CONTROL SWITCH (MIRROR SWITCH)

Check mirror switch.

Refer to MIR-12, "MIRROR SWITCH: Component Function Check".

Is the inspection result normal?

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?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-45, "Intermittent Incident".

NO >> GO TO 1.

REVERSE INTERLOCK DOOR MIRROR DOES NOT OPERATE [WITH ADP] < SYMPTOM DIAGNOSIS > REVERSE INTERLOCK DOOR MIRROR DOES NOT OPERATE Α Diagnosis Procedure INFOID:0000000010597959 1. CHECK DOOR MIRROR (MANUAL FUNCTION) В Check door mirror function with door mirror remote control switch. Is the inspection result normal? C YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2. CHECK DTC D Check DTC for TCM. Refer to TM-156, "DTC Index". Is the inspection result normal? Е YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts. 3.CONFIRM THE OPERATION F Confirm the operation again. Is the result normal? YES >> Check intermittent incident. Refer to GI-45, "Intermittent Incident". NO >> GO TO 1. Н K MIR M Ν

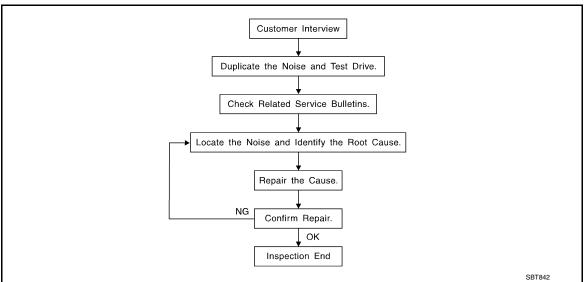
Revision: February 2015 MIR-111 2015 QX50

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[WITH ADP]

SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow



CUSTOMER INTERVIEW

Interview the customer if possible, to determine the conditions that exist when the noise occurs. Use the Diagnostic Worksheet during the interview to document the facts and conditions when the noise occurs and any of customer's comments; refer to MIR-116, "Diagnostic Worksheet". This information is necessary to duplicate the conditions that exist when the noise occurs.

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

DUPLICATE THE NOISE AND TEST DRIVE

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

[WITH ADP] < SYMPTOM DIAGNOSIS >

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

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

CHECK RELATED SERVICE BULLETINS

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

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

LOCATE THE NOISE AND IDENTIFY THE ROOT CAUSE

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

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

- tapping or pushing/pulling the component that you suspect is causing the noise.
 - Do not tap or push/pull the component with excessive force, otherwise the noise will be eliminated only tem-
- feeling for a vibration with your hand by touching the component(s) that you suspect is (are) causing the noise.
- placing a piece of paper between components that you suspect are causing the noise.
- · looking for loose components and contact marks.

Refer to MIR-114, "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-50397) 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-50397) are listed on the inside cover of the kit; and can each be ordered separately as needed.

URETHANE PADS [1.5 mm (0.059 in) thick]

Insulates connectors, harness, etc.

76268-9E005: 100×135 mm $(3.94 \times 5.31 \text{ in})/76884-71L01$: 60×85 mm $(2.36 \times 3.35 \text{ in})/76884-71L01$

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

INSULATOR (Foam blocks)

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

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

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

INSULATOR (Light foam block)

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

FELT CLOTHTAPE

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

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

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

UHMW (TEFLON) TAPE

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< SYMPTOM DIAGNOSIS >

[WITH ADP]

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

SILICONE GREASE

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

SILICONE SPRAY

Use when grease cannot be applied.

DUCT TAPE

Use to eliminate movement.

CONFIRM THE REPAIR

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

Inspection Procedure

INFOID:0000000010597961

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

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

CAUTION:

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

CENTER CONSOLE

Components to pay attention to include:

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

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

DOORS

Pay attention to the:

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

Tapping or moving the components or pressing on them while driving to duplicate the conditions can isolate many of these incidents. You can usually insulate the areas with felt cloth tape or insulator foam blocks from the Nissan Squeak and Rattle Kit (J-50397) 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
- Trunk lid striker out of adjustment
- The trunk lid torsion bars knocking together
- 4. A loose license plate or bracket

< SYMPTOM DIAGNOSIS >

[WITH ADP]

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

SUNROOF/HEADLINING

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

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

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

When isolating seat noise it's important to note the position the 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
- 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
- 2. Components that pass through the engine wall
- Engine wall mounts and connectors
- Loose radiator mounting pins
- Hood bumpers out of adjustment
- Hood striker out of adjustment

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

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Diagnostic Worksheet

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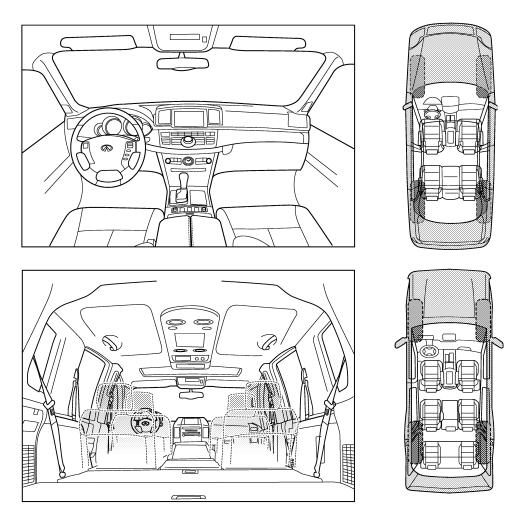
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

Dear 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.

[WITH ADP]

II. WHEN DOES IT OCCUR? (please	check the boxes that apply)	
☐ anytime	after sitting out in the rain	
☐ 1st time in the morning	☐ when it is raining or wet	
only when it is cold outside	dry or dusty conditions	
only when it is hot outside	other:	
III. WHEN DRIVING:	IV. WHAT TYPE OF NOISE	
through driveways	squeak (like tennis shoes on a clean floor)	
over rough roads	creak (like walking on an old wooden floor)	
over speed bumps	rattle (like shaking a baby rattle)	
only about mph	knock (like a knock at the door)	
☐ on acceleration ☐ coming to a stop	☐ tick (like a clock second hand)☐ thump (heavy, muffled knock noise)	
on turns: left, right or either (circle)	buzz (like a bumble bee)	
	Buzz (inte a bamble bee)	
with passengers or cargo other: ■ other:	_	
	— minutes	
other: miles or		
other: miles or TO BE COMPLETED BY DEALERSH		
other: miles or TO BE COMPLETED BY DEALERSH		
other: miles or TO BE COMPLETED BY DEALERSH		
other: miles or TO BE COMPLETED BY DEALERSH		
□ other: after driving miles or TO BE COMPLETED BY DEALERSH Test Drive Notes:	YES NO Initials of person	
□ other: □ after driving □ miles or □ TO BE COMPLETED BY DEALERSH	YES NO Initials of person	
other: after driving miles or TO BE COMPLETED BY DEALERSH Test Drive Notes: Vehicle test driven with customer	YES NO Initials of person	
other: after driving miles or TO BE COMPLETED BY DEALERSH Test Drive Notes: Vehicle test driven with customer - Noise verified on test drive	YES NO Initials of person performing	
other: after driving miles or TO BE COMPLETED BY DEALERSH Test Drive Notes: Vehicle test driven with customer - Noise verified on test drive - Noise source located and repaired	YES NO Initials of person performing	

< PRECAUTION > [WITH ADP]

PRECAUTION

PRECAUTIONS

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

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

WARNING:

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:

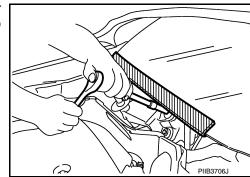
Always observe the following items for preventing accidental activation.

- 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.

Precaution for Procedure without Cowl Top Cover

INFOID:0000000010830356

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



PRECAUTIONS

< PRECAUTION > [WITH ADP]

Precautions for Removing Battery Terminal

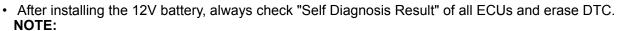
 When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.

NOTE:

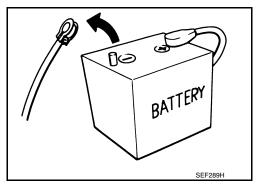
ECU may be active for several tens of seconds after the ignition switch is turned OFF. If the battery terminal is removed before ECU stops, then a DTC detection error or ECU data corruption may occur.

For vehicles with the 2-batteries, be sure to connect the main battery and the sub battery before turning ON the ignition switch.
 NOTE:

If the ignition switch is turned ON with any one of the terminals of main battery and sub battery disconnected, then DTC may be detected.



The removal of 12V battery may cause a DTC detection error.



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PREPARATION

< PREPARATION > [WITH ADP]

PREPARATION

PREPARATION

Commercial Service Tools

INFOID:0000000010597964

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

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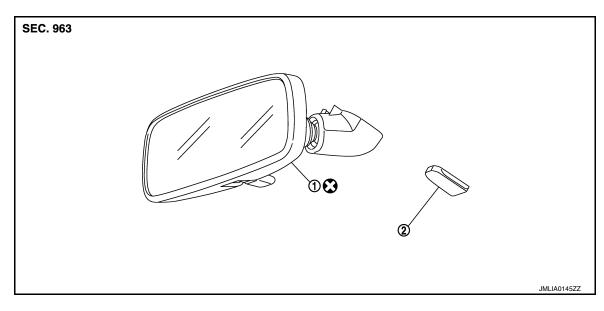
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REMOVAL AND INSTALLATION

INSIDE MIRROR

Exploded View

Base

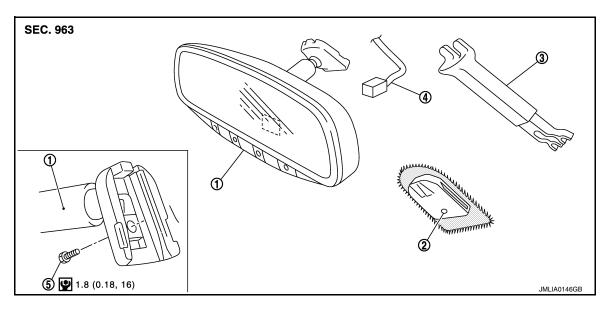


1. Inside mirror

2. Mirror base

: Always replace after every disassembly

Option



1. Inside mirror

2. Mirror base

TORX bolt

3. Inside mirror cover

4. Harness connector

: N·m (kg-m, in-lb)

Removal and Installation

REMOVAL

Revision: February 2015 MIR-121 2015 QX50

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Base model

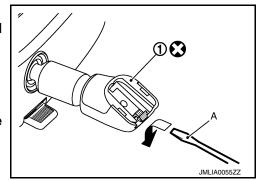
- 1. Insert minus driver (A) under the inside mirror (1).
- Slide the inside mirror to the upper side while pushing the pawl downward.



: 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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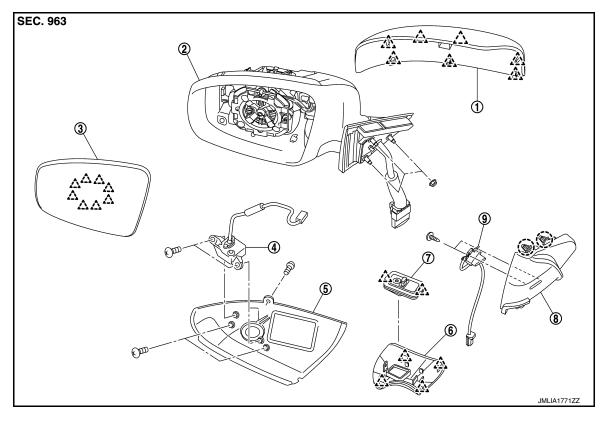
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OUTSIDE MIRROR

Exploded View



- Door mirror cover
- Side camera assembly (with side camera model)
- Puddle lamp 7.
- : Clip 八:Pawl

- Mirror assembly 2
- 5. Side camera finisher assembly (with 6. side camera model)
- 8. Door mirror corner cover
- Glass mirror 3.
 - Base cover
- 9 BSW indicator

DOOR MIRROR ASSEMBLY

DOOR MIRROR ASSEMBLY: Removal and Installation

REMOVAL

- Remove front door finisher.
 - · Driver side: Refer to INT-12, "DRIVER SIDE: Removal and Installation".
 - Passenger side: Refer to INT-15, "PASSENGER SIDE: Removal and Installation".
- 2. Disconnect BSW indicator harness connector. (if equipped)
- Remove door corner cover fixing clips and remove door corner cover.
- 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 AV-429, "CALIBRATING CAMERA IMAGE (AROUND VIEW MONITOR): Work Procedure".

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[WITH ADP]

DOOR MIRROR ASSEMBLY: Disassembly and Assembly

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DISASSEMBLY

- Remove door mirror cover. Refer to MIR-124, "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-539</u>, "Removal and Installation".
 - Side camera RH: Refer to AV-540, "Removal and Installation".
- 3. Remove base cover and puddle lamp.

ASSEMBLY

Assemble in the reverse order of disassemble.

GLASS MIRROR

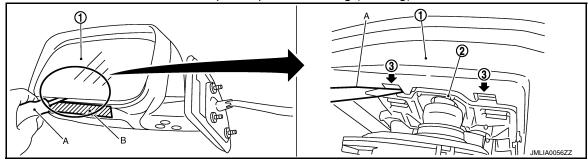
GLASS MIRROR: Removal and Installation

INFOID:0000000010597970

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:0000000010597971

CAUTION:

Do not damage the mirror bodies.

DISASSEMBLY

- Remove the glass mirror. Refer to MIR-124, "GLASS MIRROR: Removal and Installation".
- 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 >

[WITH ADP]

DOOR MIRROR REMOTE CONTROL SWITCH

Exploded View

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Refer to INT-12, "DRIVER SIDE: Exploded View".

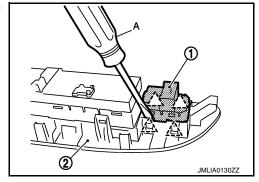
Removal and Installation

INFOID:0000000010597973

REMOVAL

- 1. Remove the power window main switch finisher. Refer to INT-12, "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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SYSTEM DESCRIPTION

DOOR MIRROR SYSTEM

Component Description

INFOID:0000000010597974

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:0000000010597975

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:0000000010597976

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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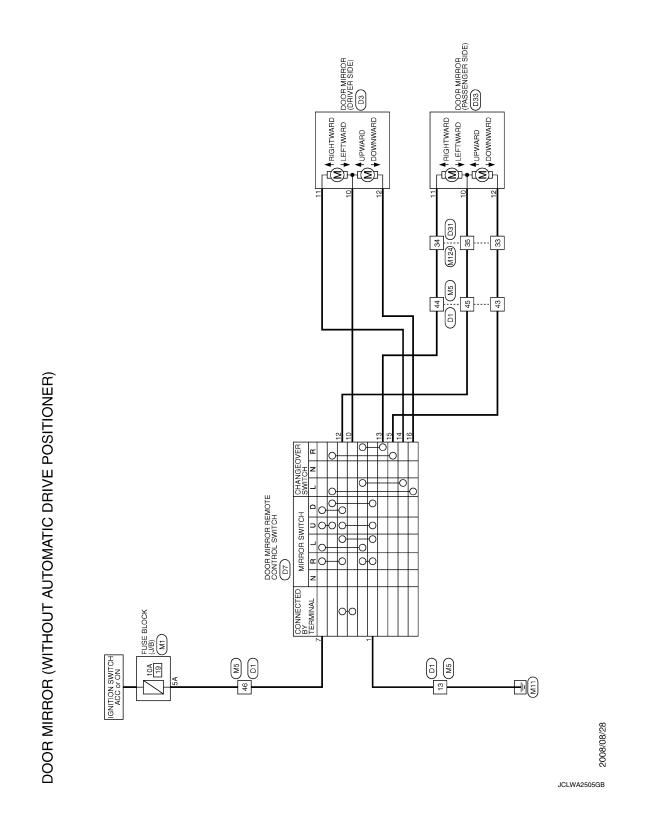
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DTC/CIRCUIT DIAGNOSIS

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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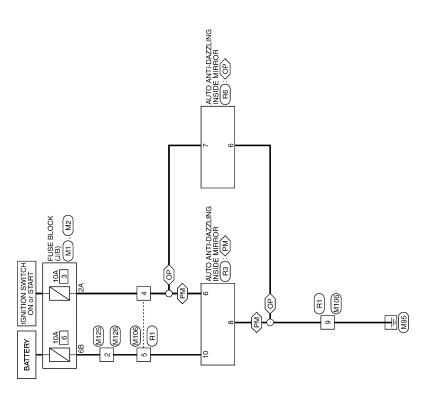
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⟨PM⟩: With automatic drive positioner
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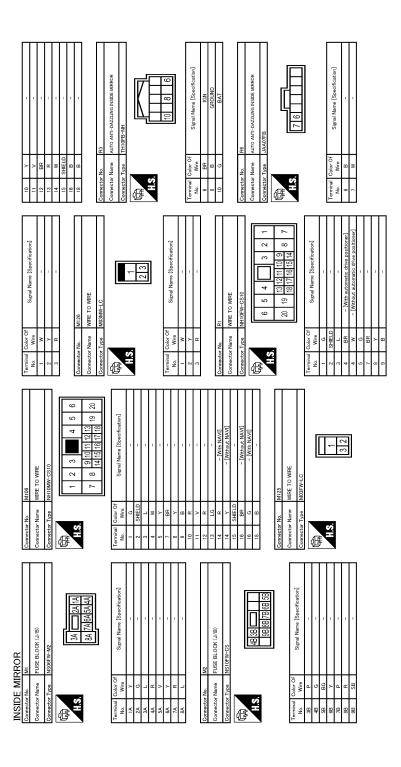
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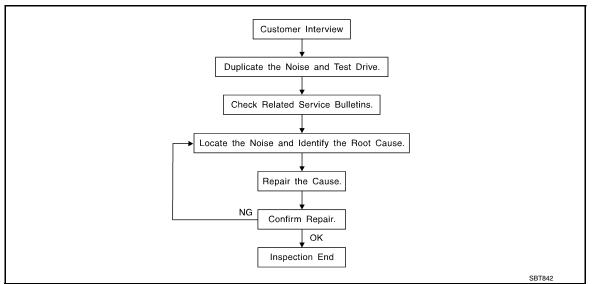
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SYMPTOM DIAGNOSIS

SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow



CUSTOMER INTERVIEW

Interview the customer if possible, to determine the conditions that exist when the noise occurs. Use the Diagnostic Worksheet during the interview to document the facts and conditions when the noise occurs and any of customer's comments; refer to MIR-137. "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 sharesteristics include hellow sounding/sometimes repeating/offers
- Knock characteristics include hollow sounding/sometimes repeating/often brought on by driver action.

 Tick—(Like a clock second hand)
- Tick characteristics include gentle contacting of light materials/loose components/can be caused by driver action or road conditions.
- Thump—(Heavy, muffled knock noise)
 Thump characteristics include softer knock/dead sound often brought on by activity.
- Buzz—(Like a bumblebee)
 Buzz characteristics include high frequency rattle/firm contact.
- Often the degree of acceptable noise level will vary depending up on the person. A noise that you may judge
 as acceptable may be very irritating to the customer.
- Weather conditions, especially humidity and temperature, may have a great effect on noise level.

DUPLICATE THE NOISE AND TEST DRIVE

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

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

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

CHECK RELATED SERVICE BULLETINS

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

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

LOCATE THE NOISE AND IDENTIFY THE ROOT CAUSE

- 1. Narrow down the noise to a general area. To help pinpoint the source of the noise, use a listening tool (Chassis Ear: J-39570, Engine Ear and mechanics stethoscope).
- 2. Narrow down the noise to a more specific area and identify the cause of the noise by:
- removing the components in the area that you suspect the noise is coming from.
 Do not use too much force when removing clips and fasteners, otherwise clips and fastener can be broken or lost during the repair, resulting in the creation of new noise.
- tapping or pushing/pulling the component that you suspect is causing the noise.
 Do not tap or push/pull the component with excessive force, otherwise the noise will be eliminated only temporarily.
- feeling for a vibration with your hand by touching the component(s) that you suspect is (are) causing the
 noise.
- placing a piece of paper between components that you suspect are causing the noise.
- looking for loose components and contact marks. Refer to MIR-135, "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-50397) 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-50397) are listed on the inside cover of the kit; and can each be ordered separately as needed.

URETHANE PADS [1.5 mm (0.059 in) thick]

Insulates connectors, harness, etc.

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

INSULATOR (Foam blocks)

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

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

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

INSULATOR (Light foam block)

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

FELT CLOTHTAPE

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

68370-4B000: 15 \times 25 mm (0.59 \times 0.98 in) pad/68239-13E00: 5 mm (0.20 in) wide tape roll The following materials, not found in the kit, can also be used to repair squeaks and rattles.
UHMW (TEFLON) TAPE
Insulates where slight movement is present. Ideal for instrument panel applications. SILICONE GREASE Used in place of UHMW tape that will be visible or not fit. Will only last a few months.
SILICONE SPRAY Use when grease cannot be applied.
DUCT TAPE Use to eliminate movement.
CONFIRM THE REPAIR
Confirm that the cause of a noise is repaired by test driving the vehicle. Operate the vehicle under the same conditions as when the noise originally occurred. Refer to the notes on the Diagnostic Worksheet.
Inspection Procedure
Refer to Table of Contents for specific component removal and installation information.
INSTRUMENT PANEL
Most incidents are caused by contact and movement between:
The cluster lid A and instrument panel
Acrylic lens and combination meter housing
Instrument panel to front pillar garnish
4. Instrument panel to windshield
5. Instrument panel mounting pins
6. Wiring harnesses behind the combination meter
7. A/C defroster duct and duct joint These incidents can usually be located by tapping or moving the components to duplicate the noise or by pressing on the components while driving to stop the noise. Most of these incidents can be repaired by applying felt cloth tape or silicon spray (in hard to reach areas). Urethane pads can be used to insulate wiring harness.
CAUTION:
Do not use silicone spray to isolate a squeak or rattle. If you saturate the area with silicone, you will not be able to recheck the repair.
CENTER CONSOLE
Components to pay attention to include:
Shifter assembly cover to finisher
2. A/C control unit and cluster lid C
3. Wiring harnesses behind audio and A/C control unit
The instrument panel repair and isolation procedures also apply to the center console.
DOORS
Pay attention to the:
Finisher and inner panel making a slapping noise
Inside handle escutcheon to door finisher
3. Wiring harnesses tapping
4. Door striker out of alignment causing a popping noise on starts and stops
Tapping or moving the components or pressing on them while driving to duplicate the conditions can isolate many of these incidents. You can usually insulate the areas with felt cloth tape or insulator foam blocks from the Nissan Squeak and Rattle Kit (J-50397) to repair the noise.
TRUNK Trunk poises are often caused by a loose lack or loose items but into the trunk by the owner.

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In addition look for:

Trunk lid dumpers out of adjustment
 Trunk lid striker out of adjustment

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SQUEAK AND RATTLE TROUBLE DIAGNOSE

- 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
- 2. A squeak between the seat pad cushion and frame
- The rear seatback lock and bracket

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

UNDERHOOD

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

Causes of transmitted underhood noise include:

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

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

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Diagnostic Worksheet

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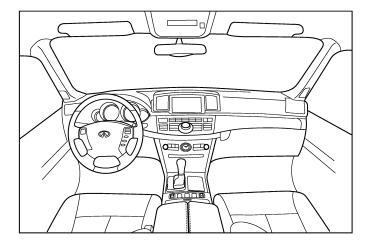
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

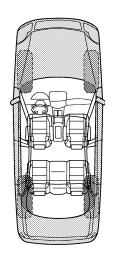
Dear Infiniti Customer:

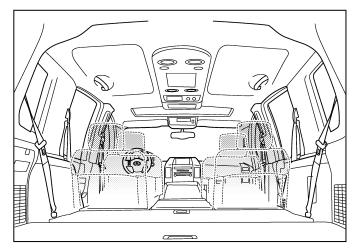
We are concerned about your satisfaction with your Infiniti vehicle. Repairing a squeak or rattle sometimes can be very difficult. To help us fix your Infiniti right the first time, please take a moment to note the area of the vehicle where the squeak or rattle occurs and under what conditions. You may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

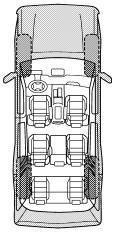
I. WHERE DOES THE NOISE COME FROM? (circle the area of the vehicle)

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 nois	se occurs:			
II. WHEN DOES IT OCCUR? (please che	ck the box	es that ap	ply)	
□ anytime□ 1st time in the morning□ only when it is cold outside□ only when it is hot outside	☐ whe	r sitting ou n it is rain or dusty co r:	ing or we	
III. WHEN DRIVING:	IV. WH	AT TYPE	OF NOIS	E
 □ through driveways □ over rough roads □ over speed bumps □ only about mph □ on acceleration □ coming to a stop □ on turns: left, right or either (circle) □ with passengers or cargo □ other: □ after driving miles or min 	crea	k (like wa e (like sha ck (like a k (like a cloc	lking on a king a ba knock at th ck second , muffled l	ne door) I hand) knock noise)
TO BE COMPLETED BY DEALERSHIP I Test Drive Notes:	PERSON	NEL		
		YES	NO	Initials of person performing
Vehicle test driven with customer - Noise verified on test drive - Noise source located and repaired - Follow up test drive performed to confirm	n repair			
VIN:		tomer Nar		
V V. Ο. π	Date	· ——		

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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

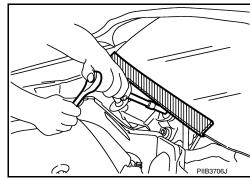
WARNING:

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.

Precaution for Procedure without Cowl Top Cover

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



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PRECAUTIONS

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Precautions for Removing Battery Terminal

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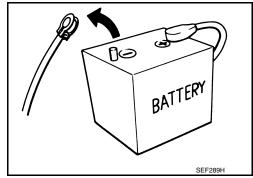
 When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.

NOTE:

ECU may be active for several tens of seconds after the ignition switch is turned OFF. If the battery terminal is removed before ECU stops, then a DTC detection error or ECU data corruption may occur.

For vehicles with the 2-batteries, be sure to connect the main battery and the sub battery before turning ON the ignition switch.
 NOTE:

If the ignition switch is turned ON with any one of the terminals of main battery and sub battery disconnected, then DTC may be detected.



After installing the 12V battery, always check "Self Diagnosis Result" of all ECUs and erase DTC.
 NOTE:

The removal of 12V battery may cause a DTC detection error.

PREPARATION

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PREPARATION

PREPARATION

Commercial Service Tools

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

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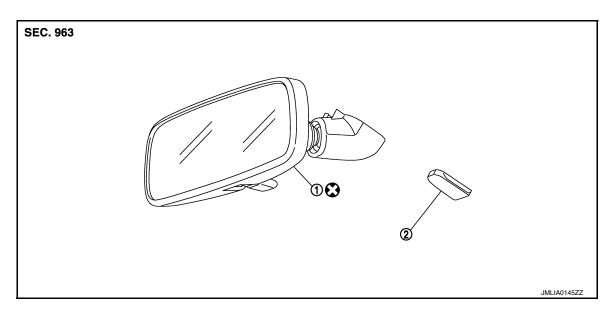
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REMOVAL AND INSTALLATION

INSIDE MIRROR

Exploded View INFOID:0000000010597984

Base

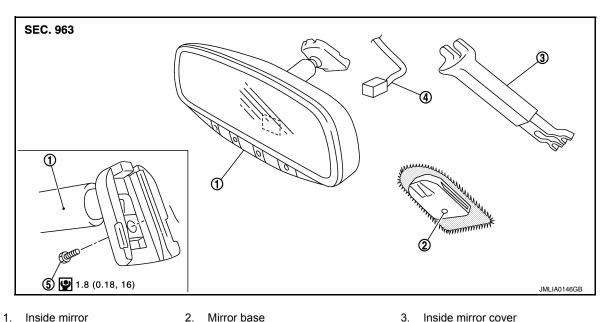


1. Inside mirror

2. Mirror base

: Always replace after every disassembly

Option



- 1. Inside mirror
- 2. Mirror base
- Harness connector
- 5. TORX bolt
- : N·m (kg-m, in-lb)

Removal and Installation

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REMOVAL

INSIDE MIRROR

< REMOVAL AND INSTALLATION >

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Base model

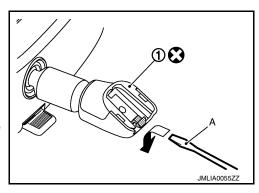
- 1. Insert minus driver (A) under the inside mirror (1).
- Slide the inside mirror to the upper side while pushing the pawl downward.



: 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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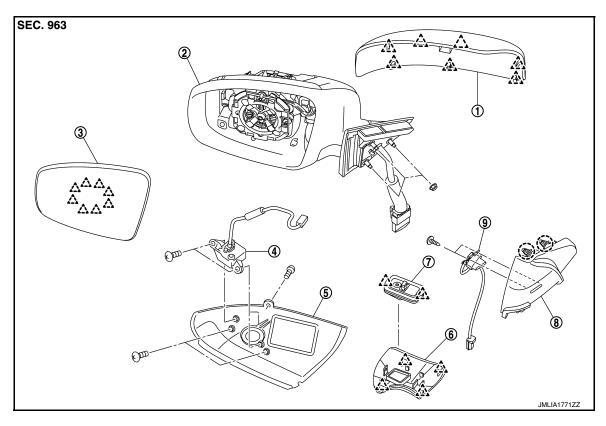
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OUTSIDE MIRROR

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
- 3. Glass mirror
- 6. Base cover
- 9. BSW indicator

DOOR MIRROR ASSEMBLY

DOOR MIRROR ASSEMBLY: Removal and Installation

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REMOVAL

- 1. Remove front door finisher.
 - Driver side: Refer to INT-12, "DRIVER SIDE: Removal and Installation".
 - Passenger side: Refer to INT-15, "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-429</u>, "CALIBRATING CAMERA IMAGE (AROUND VIEW MONITOR): Work Procedure".

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DOOR MIRROR ASSEMBLY: Disassembly and Assembly

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DISASSEMBLY

- 1. Remove door mirror cover. Refer to MIR-145, "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-539</u>, "Removal and Installation".
 - Side camera RH: Refer to AV-540, "Removal and Installation".
- 3. Remove base cover and puddle lamp.

ASSEMBLY

Assemble in the reverse order of disassemble.

GLASS MIRROR

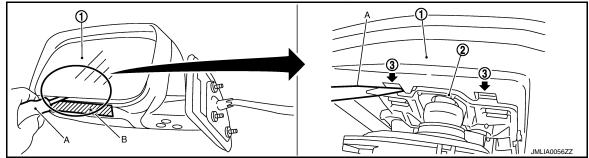
GLASS MIRROR: Disassembly and Assembly

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DISASSEMBLY

- 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.
- 5. 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-145, "GLASS MIRROR: Disassembly and Assembly".
- 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.

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DOOR MIRROR REMOTE CONTROL SWITCH

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DOOR MIRROR REMOTE CONTROL SWITCH

Exploded View

Refer to INT-12, "DRIVER SIDE: Exploded View".

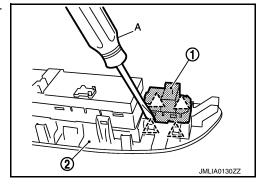
Removal and Installation

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REMOVAL

- Remove the power window main switch finisher. Refer to <u>INT-12</u>, "<u>DRIVER SIDE</u>: <u>Removal and Installation</u>".
- 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.