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DIAGNOSIS AND REPAIR WORKFLOW

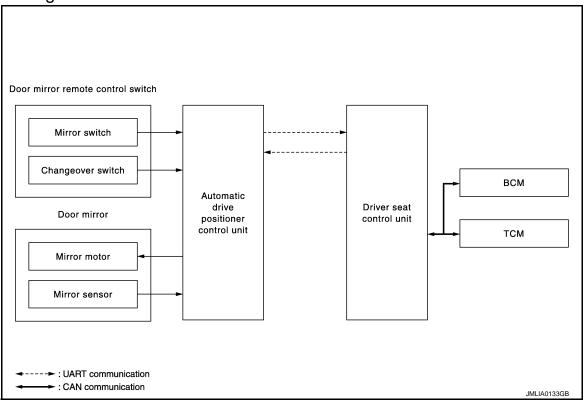
[WITH ADP] < BASIC INSPECTION > **BASIC INSPECTION** Α DIAGNOSIS AND REPAIR WORKFLOW Work Flow INFOID:0000000006346064 **DETAILED FLOW** 1. OBTAIN INFORMATION ABOUT SYMPTOM Interview the customer to obtain the malfunction information (conditions and environment when the malfunction occurred) as much as possible when the customer brings the vehicle in. D >> GO TO 2. 2.CHECK DTC Е Perform self-diagnosis for automatic drive positioner (ADP) with CONSULT-III. Is any DTC detected? F YES >> Refer to ADP-144, "DTC Index" NO >> GO TO 3. $3.\mathsf{REPRODUCE}$ THE MALFUNCTION INFORMATION Check the malfunction on the vehicle that the customer describes. Inspect the relation of the symptoms and the condition when the symptoms occur. Н >> GO TO 4. f 4. IDENTIFY THE MALFUNCTIONING SYSTEM WITH "SYMPTOM DIAGNOSIS" Use "Symptom diagnosis" from the symptom inspection result in step 3. Then identify where to start performing the diagnosis based on possible causes and symptoms. >> GO TO 5. ${f 5}.$ IDENTIFY MALFUNCTIONING PARTS WITH "COMPONENT DIAGNOSIS" Perform the diagnosis with "Component diagnosis" of the applicable system. >> GO TO 6. MIR 6.REPAIR OR REPLACE THE MALFUNCTIONING PARTS Repair or replace the specified malfunctioning parts. M >> GO TO 7. 7. FINAL CHECK Ν Check that malfunctions are not reproduced when obtaining the malfunction information from the customer, referring to the symptom inspection result in step 3. Are all malfunctions corrected? YES >> INSPECTION END NO >> GO TO 4. Р

SYSTEM DESCRIPTION

DOOR MIRROR SYSTEM

System Diagram

INFOID:0000000006346065



System Description

INFOID:0000000006346066

MANUAL FUNCTION

Description

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

Operation Conditions

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

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

REVERSE INTERLOCK DOOR MIRROR SYSTEM

Description

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

Operation Conditions

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

DOOR MIRROR SYSTEM

[WITH ADP] < SYSTEM DESCRIPTION > Ignition switch: ON Changeover switch: Select either left or right Α A/T shift selector: R position During the reverse interlock door mirror system, if all of the above conditions are not satisfied, mirror face returns to original angle. В Mirror Angle Memory Function During the reverse interlock door mirror operation, the mirror angle can be changed. After adjustment, the mirror face positions can be memorized (2 positions). For memory setting. Initial setting is downward 7°, inward 1° (both of left and right). When the driver's seat, outside mirror and steering column are not in the memorized position, the outside mirror will move with the initial tilt-down angle, if the reverse tilt-down position is stored. Linking Intelligent D Key to a stored memory position. Memory Procedure Apply the parking brake. Е Push the ignition switch to the ON position. (Do not start the engine.) 3. Push the memory switch 1 or 2 fully for at least 1 second to operate the automatic drive positioner. Turn the door mirror control switch (changeover switch) to L (left). F Depress the brake pedal. Move the A/T shift selector to R position (reverse). 7. Adjust the mirror to the desired viewing position for backing up by operating the door mirror control switch (mirror switch). 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). 9. 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 ADP-13, "AUTOMATIC DRIVE POSITIONER SYSTEM: System Description".

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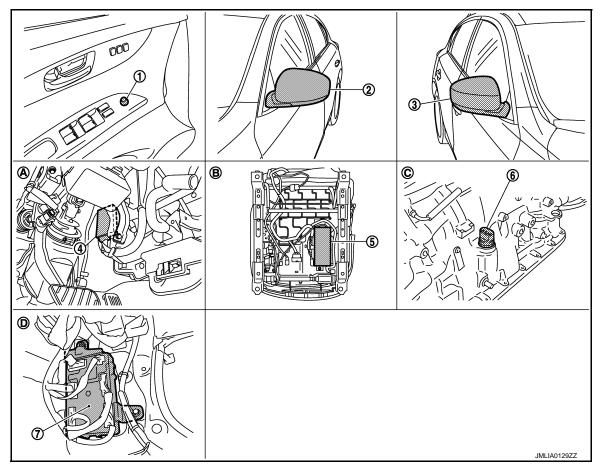
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MIR-5 Revision: 2011 October 2011 EX

Component Parts Location

INFOID:0000000006346067



- Door mirror remote control switch
 D17
- 4. Automatic drive positioner control unit M51, M52
- 7. BCM M118, M119, M122
- A. View with instrument driver lower panel removed
- D. Dash side lower (passenger side)
- 2. Door mirror (driver side) D3
- 5. Driver seat control unit B451, B452 6.
- B. Back side of the seat cushion
- 3. Door mirror (passenger side) D33
- . AT assembly connector (TCM) F51
- C. AT assembly (TCM is built in AT assembly)

Component Description

INFOID:0000000006346068

Component		Function	
Automatic drive positioner control unit		Door mirror is supplied with power after receiving the input of the MIRROR SWITCH and CHANGEOVER SWITCH.	
Door mirror remote control	Mirror switch	It transmits mirror face adjust operation to AUTOMATIC DRIVE POSITIONER CONTROL UNIT.	
switch	Changeover switch	It transmits the LH/RH control of door mirror that supplies power to AUTO-MATIC DRIVE POSITIONER CONTROL UNIT.	
Door mirror		It makes mirror face operate from side to side and up and down via integrated motor.	
BCM		The ignition switch signal (ACC/ON) is transmitted to driver seat control unit via CAN communication.	

DOOR MIRROR SYSTEM

< SYSTEM DESCRIPTION >

[WITH ADP]

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

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INSIDE MIRROR SYSTEM

< SYSTEM DESCRIPTION >

[WITH ADP]

INSIDE MIRROR SYSTEM

System Description

INFOID:0000000006346069

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:0000000006346070

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 CONTROL UNIT)

< SYSTEM DESCRIPTION >

[WITH ADP]

DIAGNOSIS SYSTEM (DRIVER SEAT CONTROL UNIT)

Diagnosis Description

Diagnostic mode

[AUTO DRIVE POS.]

INFOID:0000000006346071

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

Description

and displays the results.
d sensors to driver seat con-

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

CONSULT-III Function

INFOID:0000000006346072

SELF-DIAGNOSIS RESULTS Refer to ADP-144, "DTC Index".

DATA MONITOR

Н

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

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DIAGNOSIS SYSTEM (DRIVER SEAT CONTROL UNIT)

< SYSTEM DESCRIPTION >

[WITH ADP]

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

ACTIVE TEST CAUTION:

When driving vehicle, do not perform active test.

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

DIAGNOSIS SYSTEM (DRIVER SEAT CONTROL UNIT)

< SYSTEM DESCRIPTION >

[WITH ADP]

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

WORK SUPPORT

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

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DOOR MIRROR REMOTE CONTROL SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH ADP]

DTC/CIRCUIT DIAGNOSIS

DOOR MIRROR REMOTE CONTROL SWITCH MIRROR SWITCH

MIRROR SWITCH: Description

INFOID:0000000006346073

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:0000000006346074

1. CHECK MIRROR SWITCH FUNCTION

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

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

Is the inspection result normal?

YES >> Mirror switch function is OK.

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

MIRROR SWITCH: Diagnosis Procedure

INFOID:0000000006346075

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		(πρρίολ.)	
	4	Ground		
D17	12		5	
	13	Ground		
	15			

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK MIRROR SWITCH CIRCUIT

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

DOOR MIRROR REMOTE CONTROL SWITCH

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

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

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

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to ADP-217, "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-118, "Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

MIRROR SWITCH: Component Inspection

1. CHECK MIRROR SWITCH

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

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

Is the inspection result normal?

< DTC/CIRCUIT DIAGNOSIS >

YES >> INSPECTION END

NO >> Replace door mirror remote control switch. Refer to MIR-118, "Removal and Installation".

CHANGEOVER SWITCH

CHANGEOVER SWITCH: Description

Changeover switch is integrated into door mirror remote control switch. Changeover switch has three positions (L, N and R).

It changes door mirror motor operation by transmitting control signal to automatic drive positioner control unit.

CHANGEOVER SWITCH: Component Function Check

INFOID:0000000006346078

INFOID:0000000006346077

1. CHECK CHANGEOVER SWITCH FUNCTION

Check the operation on "MIR CHNG SW-R" or "MIR CHNG SW-L" in "DATA MONITOR" mode with CON-SULT-III.

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

Is the inspection result normal?

YES >> Changeover switch function is OK.

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

CHANGEOVER SWITCH: Diagnosis Procedure

INFOID:0000000006346079

1. CHECK CHANGEOVER SWITCH INPUT SIGNAL

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

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK CHANGEOVER SWITCH CIRCUIT

DOOR MIRROR REMOTE CONTROL SWITCH

< DTC/CIRCUIT DIAGNOSIS >

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2. Disconnect automatic drive positioner control unit connector.

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

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

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

Automatic drive po	sitioner control unit		Continuity
Connector	Terminal	Ground	Continuity
M51	2	Ground	Not existed
	18		Not existed

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to ADP-217, "Removal and Installation".

NO >> Repair or replace harness.

3.check door mirror remote control switch ground circuit

Turn ignition switch OFF.

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

Door mirror rem	ote control switch		Continuity
Connector	Terminal	Ground	
D17	7		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK CHANGEOVER SWITCH

Check door mirror remote control switch (changeover switch).

Refer to MIR-15, "CHANGEOVER SWITCH: Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace door mirror remote control switch (changeover switch). Refer to MIR-118, "Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

CHANGEOVER SWITCH: Component Inspection

1. CHECK CHANGEOVER SWITCH

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

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DOOR MIRROR REMOTE CONTROL SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH ADP]

Door mirror remote control switch		- Condition		Continuity	
Connector Terminal					
	10			LEFT	Existed
D17		Changeaver avitab	Other than above	Not existed	
DIT	11	/	Changeover switch	RIGHT	Existed
	11		Other than above	Not existed	

Is the inspection result normal?

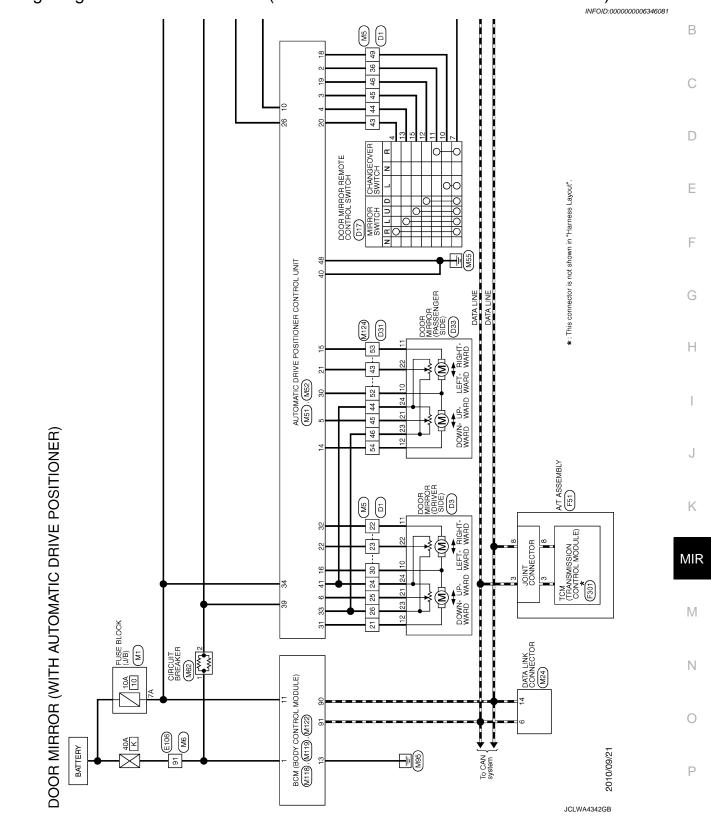
YES >> INSPECTION END

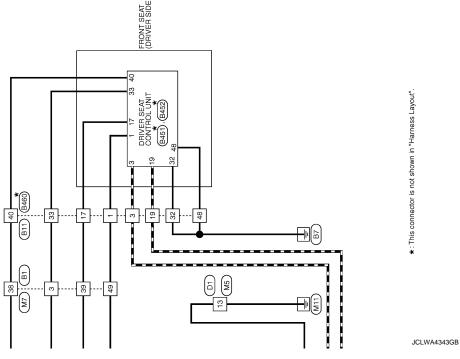
NO >> Replace door mirror remote control switch. Refer to MIR-118, "Removal and Installation".

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DOOR MIRROR SYSTEM

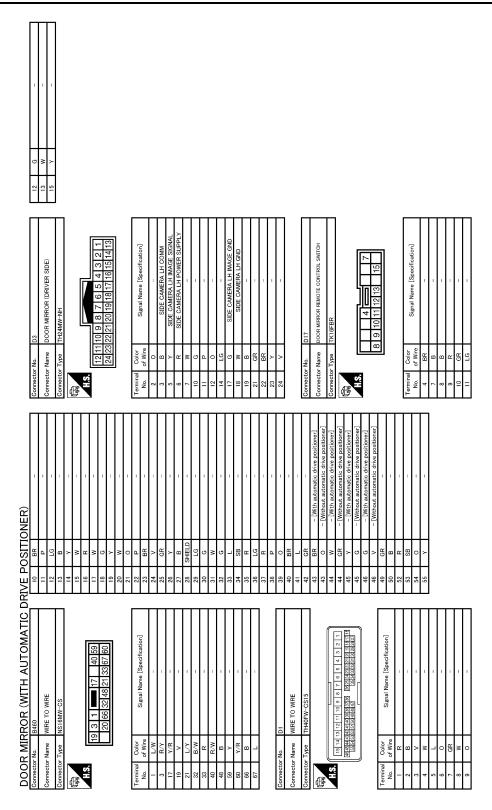
Wiring Diagram - DOOR MIRROR (WITH AUTOMATIC DRIVE POSITIONER) -





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	С
Connector No Connector Name Connector Name Connector Type S W R S W R S C W S C W S C W S C C W S C C W S C C W S C C W S C C W S C C W S C C W S C C W S C C W S C C W S C C C C C C C C C	D
UNIT 1 1 1 1 1 1 1 1 1	Е
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Revision: 2011 October MIR-19 2011 EX



JCLWA4345GB

DOOR MIRROR SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

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Revision: 2011 October MIR-21 2011 EX

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JCLWA4347GB

DOOR MIRROR SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

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DOOR MIRROR (WITH AUTOMATIC			8-TM4	1		22	8	28 S S S S S S S S S S S S S S S S S S S	2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	100 00 00 00 00 00 00 00 00 00 00 00 00	S 23 80		Control of the Contro	olgnai Name [opecification]	1			1	1	ı	I	1	1	_	1	1	1	1		ī	1		1			i			1	1	1	-	-		1	1	1	1	1		1	1		1	1									
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MIRROR (WITH AUTOMATIC	POSITION	ſ	- - -
Connector No. M24	D D	Connector No. M62	5 L PASSENGER DOOR UNLOCK OUTPUT
Connector Name DATA LINK CONNECTOR	16 Y MIRROR MOTOR (LH COMMON) 17 W TILL SW (DOWNWARD)	Connector Name CIRCUIT BREAKER	7 Y STEP LAMP OUTPUT 8 V ALL DOOR FIRE LID LOCK OUTPUT
Connector Type BD16FW	: a	Connector Type M02FW-P-LC	. D
1	SB	d)	10 BR REAR DOOR UNLOCK OUTPUT
MATI	BR	CAPA	R BA
	21 L MIRROR SENSOR (RH HORIZONTAL)		13 B GND 14 w DISU-DITTONICHITION SWILL OND
	, a	<u> </u>	: >
3 4 5 6 7 8	. «	2	W TURN SIC
	SB]	18 BG TURN SIGNAL LH (FRONT)
	Α.		×
la.	27 G TELESCOPIC SW (BACKWARD)	la	
No. of Wire Signal Marile Copecification	30 R MIRROR MOTOR (RH COMMON)	No. of Wire Signal Marile [Specification]	
3 LG –	31 LG MIRROR MOTOR (LH VERTICAL)	1 W	
\dashv	32 L MIRROR MOTOR (LH HORIZONTAL)	2 SB –	
5 B -			
9			
7 V	Connector No. M52	Connector No. M118	
- 5 8	THE POSTEDNIE DOCUMENT OF THE POSTEDNIE DOCU	(a III DOM TOOM TOOM (BODY CONTED)	
- SB	Connector Name Acromatic Drave Positioner Contract Oral	Connector Name DOM (DOD) CON (NODOLE)	
	Connector Type NS16FW-CS	Connector Type M03FB-LC	
- J J J J J J J J J J J J J J J J J J J	ą́	ą	
	E	国	
Connector No. M51	33 34 35 36 [7	
O consist of Name Attronomy Department of the Attraction of Table 1997	44		
		7	
Connector Type TH32FW-NH			
á			
	nal	lar	
HS	of Wire	No. of Wire	
	33 R POWER SUPPLY (SENSOR)	1 W BAT (F/L)	
1 2 3 4 5 6 7 9 10 11 12 13 14 15 16	æ	2 W POWER WINDOW POWER SUPPLY(BAT)	
22 23 24 23 20 27	35 L TILT MOTOR (UPWARD)	3 Y POWER WINDOW POWER SUPPLY(RAP)	
	36 GR TELESCOPIC MOTOR (FORWARD)		
	39 SB BAT (C/B)		
lal	40 B GND(SIGNAL)	Connector No. M119	
No. of Wire olginal Manne Lopecinication.	41 Y GND(SENSOR)	(1 iiidolk lodžikoo (kaod) klod	
1 Y TILT SW (UPWARD)	42 BG TILT MOTOR (DOWNWARD)		
2 LG MIRROR SELECT SW (RH)	G TEL	Connector Type NS16FW-CS	
5 R MIRROR SENSOR (RH VERTICAL)			
35		45671	
B.B.		0 0 0 0 0 0 0 0 0	
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GR TELESCOPIC		L	
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۵		of Wire	
14 W MIRROR MOTOR (RH VERTICAL)		4 LG INTERIOR ROOM LAMP POWER SUPPLY	

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000	R MIF	R (WITH AUTOMATIC	DRIVE POSITIONER	OSIT	IONER)
Connector No.	or No.	M122	Connector No.	r No.	M124
Connect	Connector Name	BCM (BODY CONTROL MODULE)	Connector Name	r Name	WIRE TO WIRE
Connector Type	or Type	TH40FB-NH	Connector Type	r Type	TH40MW-CS15
匮			修		
HS.			H.S.	-	3 4 5 6 7 8 9 10 11 12 13 14 15
	91 90 89 88 87 86	88 677 68 85 644 623 623 81 80 739 78 777 76 75 74 73 72 72 6 73 74 73 72 70 70 70 70 70 70 70 70 70 70 70 70 70		272828	1.6 171 18 1920 21 12 22 22 22 24 25 25 25 25 25 25 25 25 25 25 25 25 25
Terminal No.	l Color of Wire	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]
72	۳	ROOM ANT2-	7	>	
73	5	ROOM ANT2+	8	ΡΠ	-
74	SB	PASSENGER DOOR ANT-	6	>	1
75	æ	PASSENGER DOOR ANT+	12	-	ı
9/	>	DRIVER DOOR ANT-	13	>	T.
77	5	DRIVER DOOR ANT+	41	ш	1
78	>	ROOM ANT1-	15	≥	I
79	E E	ROOM ANTI+	91	æ	1
8 3	æ :	NATS ANT AMP.	17	ω (1
100	>	NAIS ANI AMP	90	r	1
85	œ ;	IGN RELAY (F/B) CONT	19	ω >	E de la constant
3 5	- 6	DOSES ENTRY RECEIVER COMM	07	- ;	- [With BOSE audio]
20 00	¥ >	COMBI SW INPUT 3	02	≥ (- [Without BOSE audio]
8 8	> {	COMBI SW INPUT 3	12	. او	- [With BUSE audio]
80 8	ž c	PUSH SW	12	ا ا	- [Without BOSE audio]
8 5	-	H-MAC	22	9 9	
6	<u>,</u>	KFY SLOT II I	24	5 0	1
93	>	ONI NO	25	>	İ
94	>	PUDDLE LAMP CONT	26	œ	П
92	BG	ACC RELAY CONT	58	SHIELD	-
96	GR	A/T SHIFT SELECTOR POWER SUPPLY	30	W	-
97	_	S/L CONDITION 1	31	PC	I
86	۵	S/L CONDITION 2	32	g	I
66	۳	SHIFT P	33	BR	1
00	g	PASSENGER DOOR REQUEST SW	34	>	I
101	SB	DRIVER DOOR REQUEST SW	35	5	ı
102	BG	BLOWER FAN MOTOR RELAY CONT	43	٦	
103	ΓC	KEYLESS ENTRY RECEIVER POWER SUPPLY	44	٨	
106	>	S/L UNIT POWER SUPPLY	45	œ	I
107	PC	COMBI SW INPUT 1	46	*	ı
108	œ	COMBI SW INPUT 4	52	œ	ſ
109	>	COMBI SW INPUT 2	53	g	ı
110	g	HAZARD SW	54	*	ı
Ξ	>	S/L UNIT COMM	55	BG	Ī

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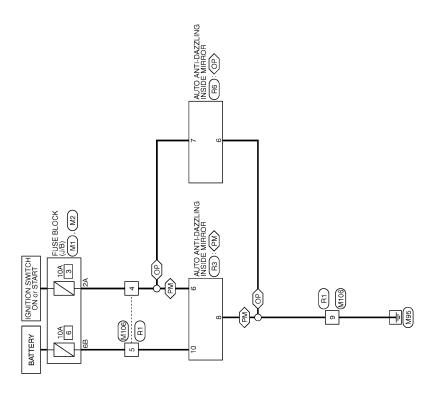
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AUTO ANTI-DAZZLING INSIDE MIRROR SYSTEM

Wiring Diagram - INSIDE MIRROR SYSTEM -

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INSIDE MIRROR

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Convector Name Still BLOCK (J. 18) Convector Name April 12 Still BLOCK (J. 18) Convector Name April 12 Still BLOCK (J. 18) Convector Name C	INSIDE MIRROR	IRROR	Connector No.	П	M106	4 W	- [Without automatic drive positioner]	
Signari Name Specification	tor Name		Connecto	r Name	WIRE TO WIRE	+	1 1	
Signal Name Specification Color tor Type	NS06FW-M2	Connecto	П	NH10MW-CS10	H	1		
A			Œ			+	1 1	
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All connector Name All con	4	-	2	SHIELD	-	Connector No.	R3	
NSTORY-CS Signal Name [Specification] See Name Specification] Name	+	1	e .	7	1	Connector Name	AUTO ANTI-DAZZLING INSIDE MIRROR	
NS Signal Name Specification Connector Name Connector Name Specification Connector Name Conn	+		4 u	\$ >	1 1	Connector Type	THIOGO-NH	
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14 R - - - - - - - - -	tor No.	M2	12	œ	1		8	
14 R	ctor Name		13	PI	and the state of t			
15 SHELD The Chief and All of Wise Signal Name Specification	tor Type	SO-MEOLON	4 1	¥ >	- [With NAVI] - [Without NAVI]	_		
16 G	ode i	Notice of	1 5	SHIFLD	- Lwerbac newy		Signal Name [Specification]	
16 BR			91	9	- [With NAVI]	1	NBI	
4B 3E			16	BR	- [Without NAVI]	Н	GND	
Connector No. RI Connector No. RI Connector No. Co		4B 3B 2B 1B 108 9B 8B 7B 6B 5B	81	ω	1	4	BAT	
Connector Name Specification Connector Type WIRE TO WIRE Connector Name AUTO ANTI Connector Type AUTO-NET Connector Type Connector T			Connecto	П	RI	Connector No.	R6	
Commerciar Com	-		Connecto	r Name	WIRE TO WIRE	Connector Name	AUTO ANTI-DAZZLING INSIDE MIRROR	
Color Colo			Connecto		NH10EW-CS10	Connector Type	JAA07EB	
G S A	۵	1	,			[
Harmon Color Signal Name [Specification] Color Color	H		F			匮		
Y Y Y Y Y Y Y Y Y Y	BG		HS	g	4	HS.		
P	4	1)	,] !		-	
SB	4	1		_	13 12 11 10 9		ᆌ	
Terminal Color Term	+	1			18 17 16 15 14 8			
Codor of Wire Signal Name [Specification]	4	1						
Or Wire No. or Wire No. or Wire SHELD - 6 B C C C C C C C C C C C C C C C C C C			Terminal	Color	Signal Name [Specification]	_	Signal Name [Specification]	
SHILL			INO.	OI MILE	1	+		
L drive positioner]			- 2	SHIELD	1 1	+		
BR			3	٦	_			
			4	BR	- [With automatic drive positioner]			

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Revision: 2011 October MIR-27 2011 EX

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ECU DIAGNOSIS INFORMATION

DRIVER SEAT CONTROL UNIT

Reference Value

VALUES ON THE DIAGNOSIS TOOL

CONSULT-III MONITOR ITEM

Monitor Item	Condit	ion	Value/Status
CET CW	Cot quitob	Push	ON
SET SW	Set switch	Release	OFF
MEMORY OWA	M	Push	ON
MEMORY SW1	Memory switch 1	Release	OFF
MEMORY OWO	Manage Will O	Push	ON
MEMORY SW2	Memory switch 2	Release	OFF
OLIDE OW ED	011111 11111111111111111111111111111111	Operate	ON
SLIDE SW-FR	Sliding switch (front)	Release	OFF
OLIDE OW DD	Ol: 1: :(-1, /)	Operate	ON
SLIDE SW-RR	Sliding switch (rear)	Release	OFF
	2 11 11 11 11 11 11	Operate	ON
RECLN SW-FR	Reclining switch (front)	Release	OFF
		Operate	ON
RECLN SW-RR	Reclining switch (rear)	Release	OFF
		Operate	ON
LIFT FR SW-UP	Lifting switch front (up)	Release	OFF
		Operate	ON
LIFT FR SW-DN	Lifting switch front (down)	Release	OFF
		Operate	ON
LIFT RR SW-UP	Lifting switch rear (up)	Release	OFF
		Operate	ON
LIFT RR SW-DN	Lifting switch rear (down)	Release	OFF
		Up	ON
MIR CON SW-UP	Mirror switch	Other than above	OFF
		Down	ON
MIR CON SW-DN	Mirror switch	Other than above	OFF
		Right	ON
MIR CON SW-RH	Mirror switch	Other than above	OFF
		Left	ON
MIR CON SW-LH	Mirror switch	Other than above	OFF
		Right	ON
MIR CHNG SW-R	Changeover switch	Other than above	OFF
		Left	ON
MIR CHNG SW-L	Changeover switch	Other than above	OFF
TII T 0\14' : : 5	-	Up	ON
TILT SW-UP	Tilt switch	Other than above	OFF
		Down	ON
TILT SW-DOWN	Tilt switch	Other than above	OFF

< ECU DIAGNOSIS INFORMATION >

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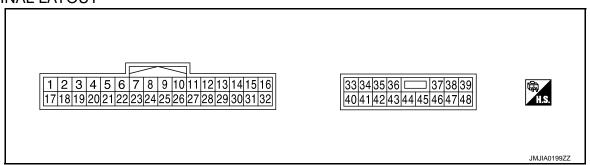
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Monitor Item	Condi	tion	Value/Status
TELESCO SW-FR	Talagania awitah	Forward	ON
TELESCO SW-FR	Telescopic switch	Other than above	OFF
TELESCO SW-RR	Tilt switch	Backward	ON
TELESCO SW-RR	THE SWILCH	Other than above	OFF
DETENT SW	AT selector lever	P position	OFF
DETENT SW	AT Selector level	Other than above	ON
STARTER SW	Ignition position	Cranking	ON
- STARTER SW	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 FR PULSE	Seat lifter (front)	Down	The numeral value increases *1
		Other than above	No change to numeral value*1
		Up	The numeral value decreases *1
LIFT RR PULSE	Seat lifter (rear)	Down	The numeral value increases *1
		Other than above	No change to numeral value*1
MIR/SEN RH U-D	Door mirror (passenger sid	le)	Change between 3.4 (close to peak) 0.6 (close to valley)
MIR/SEN RH R-L	Door mirror (passenger sid	le)	Change between 3.4 (close to left edge) 0.6 (close to right edge)
MIR/SEN LH U-D	Door mirror (driver side)		Change between 3.4 (close to peak) 0.6 (close to valley)
MIR/SEN LH R-L	Door mirror (driver side)		Change between 0.6 (close to left edge) 3.4 (close to right edge)
TILT SEN	Tilt position		Change between 1.2 (close to top) 3.4 (close to bottom)
TELESCO SEN	Telescopic position		Change between 3.4 (close to top) 0.8 (close to bottom)

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

TERMINAL LAYOUT



PHYSICAL VALUES

+ - Color Signal name Output Condition (Approx) Signal name Output Condition (Approx) (App	Term	ninal No.	Wire	Description				Voltage (V)
1 Ground L/W (RX) UART communication (RX) Input Ignition switch ON Input Ignition switch ON Input Input Input Ignition switch ON Input In	+	-		Signal name		Condition	1	Voltage (V) (Approx)
9 Ground W/G Reclining sensor signal Input Seat reclining Operate Stop Oor 5 10 Ground P/B Lifting sensor (rear) Input signal Input signal Input Seat lifting (rear) Operate Stop Oor 5 11 Ground BR Sliding switch backward signal Input selease Battery voltage Operate (backward signal Reclining switch Mark ward) Release Battery voltage Operate (ward) Release Battery voltage Operate (backward) Release Battery v	1	Ground	L/W		Input	Ignition switch ON		
9 Ground W/G Reclining sensor signal Input Seat reclining 10 Ground P/B Lifting sensor (rear) signal Input Seat lifting (rear) 11 Ground BR Silding switch backward signal Input Seat lifting switch (backward) Release Battery voltage 12 Ground SB Reclining switch backward signal Input Seat lifting switch (front) down signal Input Seat lifting switch (front) Topic (backward) Release Battery voltage 13 Ground LG/R Lifting switch (front) down signal Input Seat lifting switch (front) Topic (backward) Release Battery voltage 14 Ground G/B Lifting switch (rear) down signal Input Seat lifting switch (front) Topic (backward) Release Battery voltage (backward) Topic (down) Operate (down) Opera	3	_	R/Y	CAN-H	_	_		_
10 Ground P/B Lifting sensor (rear) Input Seat lifting (rear) Operate	9	Ground	W/G		Input	Seat reclining	Operate	
Coperate							Stop	0 or 5
11 Ground BR Sliding switch backward signal Input Sliding switch Operate (backward) Release Battery voltage	10	Ground	P/B		Input	Seat lifting (rear)	Operate	
11 Ground BR Sliding switch backward signal Input Sliding switch (backward) Release Battery voltage							Stop	0 or 5
12 Ground SB Reclining switch backward signal Input Reclining switch Release Battery voltage 13 Ground LG/R Lifting switch (front) down signal Input Lifting switch (front) Release Battery voltage 14 Ground G/B Lifting switch (rear) down signal Input Lifting switch (rear) Operate (down) Release Battery voltage 14 Ground G/B Lifting switch (rear) down signal Input Lifting switch (rear) Operate (down) Release Battery voltage 16 Ground O Sensor power supply Output — 5 17 Ground Y/R UART communication (TX) Output Ignition switch ON Ignition switch ON Input Ignition switch ON Input	11	Ground	BR		Input	Sliding switch	(back- ward)	
12 Ground SB Reclining switch backward signal Input Reclining switch Release Battery voltage								Battery voltage
13 Ground LG/R Lifting switch (front) Input Lifting switch (front) Release Battery voltage 14 Ground G/B Lifting switch (rear) down signal Input Lifting switch (rear) Input Lifting switch (rear) Release Battery voltage 16 Ground O Sensor power supply Output — 5 17 Ground Y/R UART communication (TX) Output Ignition switch ON Input Input Input Input Lifting switch (rear) Operate (down) Omerate (do	12	Ground	SB		Input	Reclining switch	(back- ward)	
13 Ground LG/R Lifting switch (front) down signal 14 Ground G/B Lifting switch (rear) down signal 15 Ground G/B Lifting switch (rear) down signal 16 Ground O Sensor power supply 17 Ground Y/R UART communication (TX) 18 Lifting switch (rear) Lifting switch (rear) (down)								Battery voltage
14 Ground G/B Lifting switch (rear) Input Lifting switch (rear) Operate (down) Release Battery voltage	13	Ground	LG/R		Input			0
14 Ground G/B Lifting switch (rear) down signal 16 Ground O Sensor power supply Output — 5 17 Ground Y/R UART communication (TX) 18 Ground O UART communication (TX) 19 Input Lifting switch (rear) (down) Release Battery voltage 5 Input Lifting switch (rear) (down) Release Battery voltage				s.g.rai		()		Battery voltage
16 Ground O Sensor power supply Output — 5 17 Ground Y/R UART communication (TX) Output Ignition switch ON	14	Ground	G/B		Input	Lifting switch (rear)		
17 Ground Y/R UART communication (TX) Output Ignition switch ON 2V/div JMJIA0121ZZ				-			Release	
17 Ground Y/R UART communication (TX) Output Ignition switch ON	16	Ground	0	Sensor power supply	Output	-		5
19 — V CAN-L — — — —	17	Ground	Y/R		Output	Ignition switch ON		
	19	_	V	CAN-L	_	_		

< ECU DIAGNOSIS INFORMATION >

[WITH ADP]

Term	ninal No.	Wire	Description				\\altaga \\\\
+	-	color	Signal name	Input/ Output	Condition	n	Voltage (V) (Approx)
-						P position	0
21	Ground	L/Y	Detention switch	Input	A/T selector lever	Except P position	20mSec/div WWW.WW.WW. 5V/div JMJIA0120ZZ
24	Ground	R	Sliding sensor signal	Input	Seat sliding	Operate	10mSec/div 2V/div JMJIA0119ZZ
						Оюр	
25	Ground	Y/B	Lifting sensor (front) signal	Input	Seat lifting (front)	Operate	10mSec/div 2V/div JMJIA0119ZZ
						Stop	0 or 5
26	Ground	Υ	Sliding switch forward signal	Input	Sliding switch	Operate (forward)	0
			olgilai			Release	Battery voltage
27	Ground	R/G	Reclining switch forward signal	Input	Reclining switch	Operate (forward)	0
			ward signal			Release	Battery voltage
28	Ground	W/B	Lifting switch (front) up signal	Input	Seat lifting switch (front)	Operate (up)	0
			olgital		(Holle)	Release	Battery voltage
29	Ground	P/L	Lifting switch (rear) up signal	Input	Seat lifting switch (rear)	Operate (up)	0
			olgridi		(IGGI)	Release	Battery voltage
31	Ground	GR	Sensor ground	1	_		0
32	Ground	B/W	Ground (signal)	_	_		0
33	Ground	R	Power source (C/B)	Input			Battery voltage
35	Ground	W/R	Sliding motor forward output signal	Output	Seat sliding	Operate (forward)	Battery voltage
						Release	0
36	Ground	G/Y	Reclining motor for- ward output signal	Output	Seat reclining	Operate (forward)	Battery voltage
			output signal			Release	0

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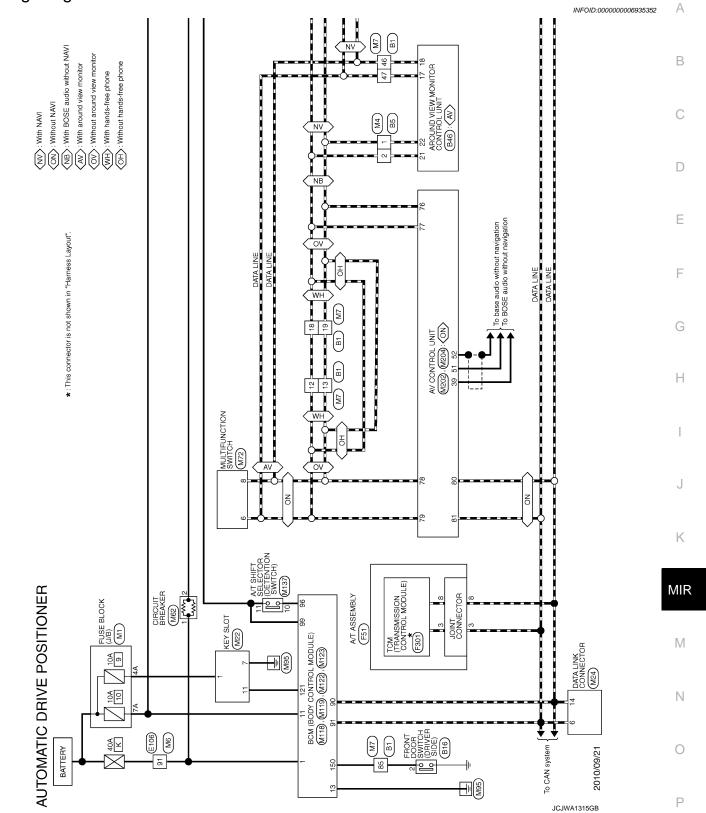
< ECU DIAGNOSIS INFORMATION >

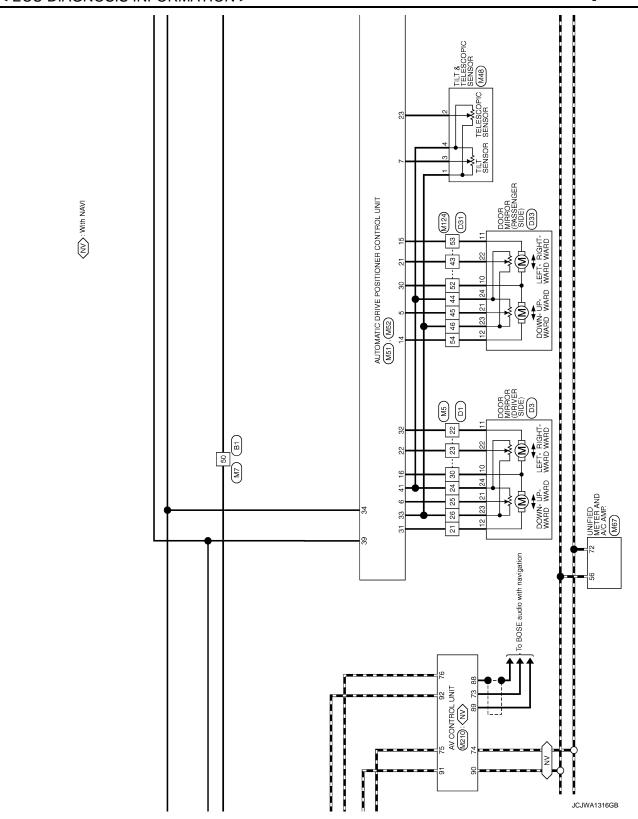
[WITH ADP]

Term	ninal No.	Wire	Description				\/oltogo /\/\
+	-	color	Signal name	Input/ Output	Condition	n	Voltage (V) (Approx)
37	Ground	G/W	Lifting motor (front) down output signal	Output	Seat lifting (front)	Operate (down)	Battery voltage
			down output signal			Stop	0
38	Ground	L/Y	Lifting motor (rear) up output signal	Output	Seat lifting (rear)	Operate (up)	Battery voltage
			output signal			Stop	0
39	Ground	R/B	Lifting motor (rear) down output signal	Output	Seat lifting (rear)	Operate (down)	Battery voltage
			down output signal			Stop	0
40	Ground	R/W	Power source (Fuse)	Input	_		Battery voltage
42	Ground	W/B	Sliding motor back- ward output signal	Output	Seat sliding	Operate (back- ward)	Battery voltage
						Stop	0
44	Ground	Р	Reclining motor back- ward output signal	Output	Seat reclining	Operate (back- ward)	Battery voltage
						Stop	0
45	Ground	L/R	Lifting motor (front) up output signal	Output	Seat lifting (front)	Operate (up)	Battery voltage
			output signal			Stop	0
48	Ground	В	Ground (power)	_	_		0

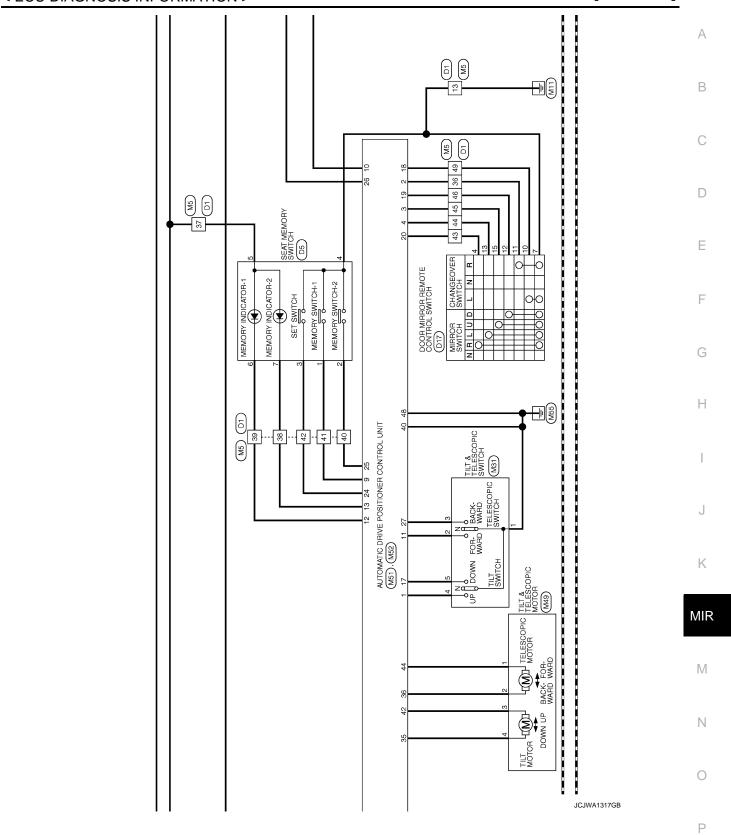
[WITH ADP]

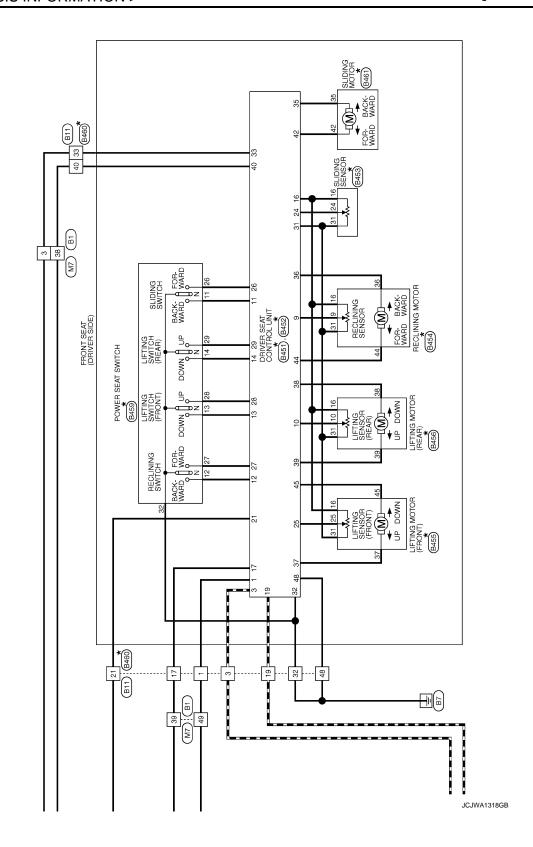
Wiring Diagram - AUTOMATIC DRIVE POSITIONER CONTROL SYSTEM -





[WITH ADP]





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

< ECU DIAGNOSIS INFORMATION >

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ocification)	А
Signal Name [Specification]	В
S S S S S S S S S S S S S S S S S S S	С
Connector No. B16 Connector Type A031 H.S. H.S. Terminal Color No. of Wire	D
110 B B B B B B B B B B B B B B B B B B B	Е
B11 WRE TO WIRE NS16FW-CS NS16FW-CS Signal Name [Specification] 40 20 17 3 19	F
8 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	G
1 1 2 8 8 8 8 8 8 8 8 8	Н
22 12 13 14 15 16 28 29 50 33 32 32 50 eorification]	
m m s m m m m m m m m m m m m m m m m m	I
NRE TO N	J
R	К
Connector Na Conne	
## To the second of the second	MIR
Connector Name Bit Connector Name Connector Name Connector Name Connector Name Connector Name Connector Type TH80PW-CS16-TM4 Th80PW-CS16	M
Signal Name	
NIC DRIVE P	Ν
AUTOMAT Commetter No. Commetter No. Commetter No. Commetter Type Terminal Color No. S. G. G. S. G. G. S. G. G. S. G. G. S. G. C. S. G. S.	0
AUTC Connected C	JCJWA1319GB
	P

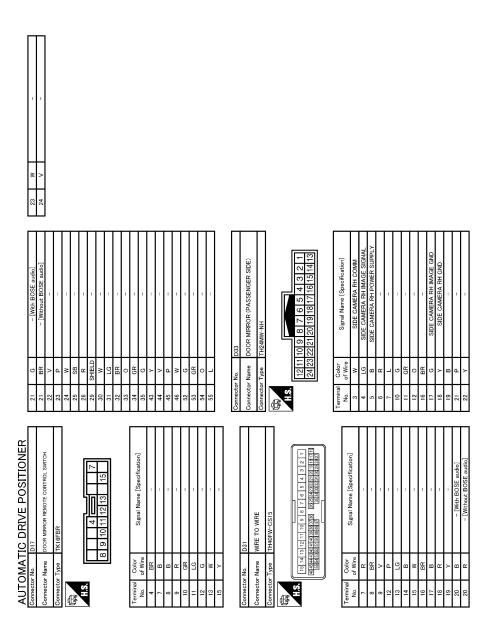
MIR-37 2011 EX Revision: 2011 October

O	9	Connector Type NS06FW-CS	· · · · · · · · · · · · · · · · · · ·	45 <u> </u>		Terminal Color Signal Name [Specification]	16 0 –	Y/B	31 GR	+		Connector No BASS	Т	Connector Name LIFTING MOTOR (REAR)	Connector Type NS06FBR-CS	đị.	CHAN	is.	38 38	10 31 10		ŀ	Terminal Color Signal Name [Specification]	T	H	7	+	38 K/B								
ŀ	30 G/W FRONT LIFTING MOTOR (DOWNARD) 38 I / FRONT LIFTING MOTOR (DOWNARD) 38 I / DEAD LIFTING MOTOR (LIDAMARD)	R/B	40 R./W BAT (FUSE) 42 W/B SLIDING MOTOR (BACKWARD) 44 P RECLINING MOTOR (BACKWARD)	B B	Connector No. B453	Connector Name SLIDING SENSOR	Connector Type 6098 0241		Attito		24 31 16			Terminal Color	No. of Wire Signal Name Lopechication	Н	+	31 GK		Connector No. B454	Connector Name RECLINING MOTOR	Т	Connector Type NS06FW-CS	图		36 0 44	16 31 9			la l	No. of Wire 9 W/G -	H	31 GR 36 G/Y -	Н		
O	Connector Name DRIVER SEAT CONTROL UNIT	Connector Type TH32FW	修	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 86 27 28 29 30 31 32		Terminal Color Signal Name [Specification] No.	1 L/W RX	R/Y	9 W/G PULSE (RECLINING)	S	SB	13 LG/R FRONT LIFTING SW (DOWNWARD)	90	Y/R	19 V CAN-L	L/Y	œ Ş	4/B	26 Y SLIDING SW (FORWARD)	W/B	P/L REAR L	GR	32 B/W GND (SIGNAL)		Connector No. B452	Connector Name DRIVER SEAT CONTROL UNIT	т	٦.	修		34 35 36 3 7 38	40 41 42 43 44 45 46 47 48		Terminal Color Signal Name [Specification]	œ	35 W/R SLIDING MOTOR (FORWARD)
AUTOMATIC DRIVE POSITIONER	ne	Connector Type TH40FW-NH	鹭	2 4 6 8 10 12 14 16 18 20 22 24 30 80 22 44 80 80 40 17 19 21 20 120 120 120 120 120 120 120 120 1		Terminal Color Signal Name [Specification] No. of Wire	1 B GND		3 P IGNITION SIGNAL	BG ILLUMIN	VEHIC	7 V REVERSE SIGNAL	+	S S	18 LG AV COMM (L)	SB	+	5 °	24 G AUXILIARY INFARED (=) 27 W CAMFRA IMAGE SIGNAL	SHIELD	s ≻	G SIDE CAME	ᇬ	33 W SIDE CAMERA REI GIND	R SIDE	٦	BR REAR CAME	3/ SHIELD SHIELD SHIELD 38 R REAR CAMERA GND	Y	Μ						

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< ECU DIAGNOSIS INFORMATION >

N LH COMM HIMAGE SIGNAL HOWER SUPPLY RA LH GND Specification]	А
SIDE CAMERA LISTE	В
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five positioned drive drive positioned drive	Е
automatic c automa	F
21 0 0 22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	G H
cification]	
Name Edit	J
Connector No. Substitution Connector No. Connector Name Connecto	К
	MIR
IC DRIVE POSITION B469 POWER SEAT SWITCH INSIDEW-CS Signal Name [Specification]	M
ATIC DA 18459 B 18450 B 1845	N
AUTOMA Connector Name Connector Na	0
	Р



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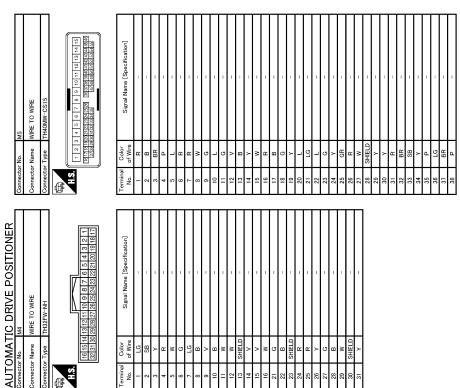
< ECU DIAGNOSIS INFORMATION >

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Dollreation]	А
START RLY GND GND GND	В
0 0 0 0 0 0 0 0 0 0	D
ModuLE) ModuLE)	E
F51 A/T ASSEMBLY RKIOFG-DGY Signal Name [Specification] Sig	F
SHELD 100 P 100	G
	Н
	I
	J
	K
5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	
	MIR
AUTOMATIC DRIVE POSITIONER Journector Name WRE TO WRE WRE TO WRE WRE TO WRE TH80PW-CS16-TM4 TH80PW-CS16	М
Signal Nam	N
OMATI ONAM	
AUTOMA Connector Name Connector Type Terminal Color No. of Wir No. of Wir 1	0
lC1	wa1323GB P
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1	1	1	1	-	-	-	 [With automatic drive positioner] 	 [Without automatic drive positioner] 	-	-	-	=	-	_
BG	SB	7	Я	BR	۸	9	SB	۸	Ь	В	æ	^	ΓG	SB
39	40	14	42	43	44	45	46	46	49	20	25	23	54	22



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	49 V	G 09	П	П	┪	┱	T	Т	Т	G9 SHIELD	П	73 G	+	75 W	+	9 V	+	+	+	$^{+}$	00 50	+	+	99 00 00	+	+	+	+	+	+	+	8 8	┨																													[)	
								ı		. I	Let'	-	_		cification]		ve positioner]	Irive positioner																																												E	Ξ	
	1 1				WIRE TO WIRE		MW-CS16-1M4	-	20 10 10 10 10 10 10 10 10 10 10 10 10 10		8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10 20 21 21 22 22 23 23 23 23 23 23 23 23 23 23 23	BL		Signal Name [Specification]	Darbat	- [With automatic drive positioner]	- [Without automatic d										1		1	. 1		1		1		1	1	1	1	1	1	1	1	1	1	1	1	-	1												ı	=	
	> %	3		Connector No. M7	Connector Name WIRE	Ť	1				в о п у	10			al Color	1	+	· * (5 6	20 3	\$ 0	o 8	8 .	2 >	- 0	9 3	× 5	g C	2 8	CHIELD	۱۳ ×	- >	- α	2 3	3 0	۲ <u>آ</u>	SHIELD	-	a ;	SB	<u> </u>	۵	_	Ь	BR	\	7	GR	FG	SB												(3	
	66			Connec	Connec		Coune	13	V E	4					Terminal	o c	2	7) 1	0	7	`	9	7 9	2 3	± 4	2 5	9	9	6	3 5	2 66	27	7.6	7 8	87 6	67 S	8 3	33	32	33	34	32	36	37	38	39	44	42	46	47]											ŀ	-	
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	49	51	52	53	24	96	/c	8 9	8 19	62	63	64	92	99	/9	8 8	80 6	2 7	- 5	7 %	2 5	7.4	ŧ	0 6	0 4	9		, %	2 0	2 2	5 5	2 6	8 2	5 6	78	3 3	84	82	98	83	88	06	91	95	93	94	92	96	6	86														
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AUTOMATIC DRIVE POSITIONER		æ	316-TM4			-	8 8	8 3 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8			Signal Name [Specification]	Tipopopopopopopopopopopopopopopopopopopo		1			'										'					1	1		1	1	1	1		1	1	1	1	-		-	1	1	_	-												ľ	/	
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AUTOMAT	Connector No.	Connector Name	Connector Type	4	李	H.S.					Terminal Color	No. of Wire		+	T	<u>څ</u>	5 x	× 6	e 5	+	¥ 0	+	+	± 4	+	+	+	A 00	+	+	+	- H	╁	+	Λ 07	+	+	+	+	7	┪	35 R	┪	Н	38 BG		H	H	43 BG	Н	ł											()	
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AUTOMATIC DRIVE POSITIONER	Commenter No MOI	Connector No	9	ç	(ddywrrubid) wb doddiw dd	_
т	т	COLLEGE NO.	1	07 6	1	_
Connector Name KEY SLOT	Connector Name TILT & TELESCOPIC SWITCH	Connector Name	TILT & TELESCOPIC MOTOR	21	MIRKOR SENSOR (RH HORIZONI AL) MIRROR SENSOR (I H HORIZONI AL)	_
Connector Type TH12FW-NH	Connector Type TK06FGY	Connector Type	NS04FW-CS	23	+	_
1	1	[1	24	R SET SW	_
修	ょ	F		25	SB ADDRESS2	_
7	[Š		26	Y RX (UART)	
			_ <u>_</u>	27	G TELESCOPIC SW (BACKWARD)	
1 2 3 5 6	3 4 1 5 2		4 3 2 1	30	R MIRROR MOTOR (RH COMMON)	
7 11			1 2 2 1	31	LG MIRROR MOTOR (LH VERTICAL)	
				32	L MIRROR MOTOR (LH HORIZONTAL)	_
-1-0	-1-0	⊢				
Frminal Color Signal Name [Specification] No. of Wire	l erminal Color Signal Name [Specification]	No. of Wire	Signal Name [Specification]	Connector No.	M52	_
T	- 8	T	1		Т	_
	2 GR –	2 GR	1	Connector Name	me AUTOMATIC DRIVE POSITIONER CONTROL UNIT	
3 W DATA	3 6	3 BG	1	Connector Type	pe NS16FW-CS	_
5 Y ILL BAT	+	4	1	4		
9 FG ITT	5 W			厚		
				Š		
11 BR KEY SWITCH SIGNAL		Connector No.	M51		33 34 35 36 1 39	
	Connector No. M48	Coppector Name	ALITOMATIC DRIVE BOSITIONER CONTROL LINIT		40 41 42 44 48	
	Connector Name TILT & TELESCOPIC SENSOR	COLLINGTON MAILIE				
Connector No. M24	\Box	Connector Type	TH32FW-NH			
Connector Name DATA LINK CONNECTOR	Connector Type TK04FW	4		ŀ	-	
Т	€	季		la	Color Signal Name [Specification]	
Connector Type BD16FW	Ath	E.S.		1	Le Le	_
4	HS.	+	3 4 5 6 7 0 10 11 10 19 14 15 16	33	POWER	_
MATI		7 4	10 00 01 00 02 04 05 06 02 00 01 01 01 01 01	34	R BAT (FUSE)	_
	4 3 2 1		22 23 24 23 20 27 30 31	35	4	_
				36	TELESCOP	_
12/4/5/6/7/9				39	SB BAT (C/B)	
4 0 0 /		Terminal Color	r Simul Namo [Specification]	40	B GND(SIGNAL)	
	Terminal Color Simpl Name [Specification]	No. of Wire		41	Y GND(SENSOR)	
	No. of Wire	۱	TILT SW (UPWARD)	42	BG TILT MOTOR (DOWNWARD)	
lal	1 W	2 LG	MIRROR SELECT SW (RH)	44	G TELESCOPIC MOTOR (BACKWARD)	
No. of Wire Signal Ivalie Capecilication	2 р –	3 G	MIRROR SW (UPWARD)	48	B GND(POWER)	
3 F.G	3 BG -	>	MIRROR SW (LEFTWARD)			
4 B -		5 R	MIRROR SENSOR (RH VERTICAL)			
- B		6 GR	MIRROR SENSOR (LH VERTICAL)			
- 7 9		7 BG	TILT SENSOR			
- ^ L		П 6	ADDRESS1			
1 · · · · · · ·		. 01	TX (IIABT)			
╀		Ŧ	TEL ESCO			
ł		ł	ļ			
+		21	IONI			
		+	ZONI ZONI			
		+	MIRROR MOTOR (RH VERTICAL)			
		15	MIRROR MOTOR (RH HORIZONTAL)			
		+	MIRROR MOTOR (LH COMMON)			
		+	IILI SW (DOWNWARD)			
		+	4			
		19 SB	MIRROR SW (DOWNWARD)			

JCJWA1326GB

< ECU DIAGNOSIS INFORMATION >

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81 W NATS ANT AMP. 82 R TGN RELAY (FORMM 83 W RELAY (FORMM 84 W COMBIE SW INPUT 3 89 W COMBIE SW INPUT 3 80 P CAN-1 91 LC CAN-1 92 LG KEY SLOT ILL 93 V CONDITION 94 W PUDDLE LAMP CONT 95 BG A/T SHIFT SELECTOR POWER SUPPLY 96 BG A/T SHIFT SELECTOR POWER SUPPLY 100 G PASSENGER DOOR REQUEST SW 101 G COMBIE SW INPUT 1 102 LG COMBIE SW INPUT 2 110 G HAZARD SW 111 Y S/L UNIT COMM 112 COMBIE SW INPUT 2 113 W COMBIE SW INPUT 2 114 W S/L UNIT COMM 115 COMBIE SW INPUT 2 115 W S/L UNIT COMM 115 W S/L U	
Connector No. MI19 Connector Name BCM (BODY CONTROL MODULE)	
70 R	
Commetter Name GIRCUIT BREAKER	JCJWA1327GB

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AUTOMA	AUTOMATIC DRIVE POSITIONER									
Connector No.	M123	7	Υ	_	2	۸	-	Connector No.	4o. M204	
Connector Name	BCM (BODY CONTROL MODULE)	80	Ρ	1	က	٦	1	Connector Name	Name AV CONTROL UNIT	
Connector Time	Т	6 5	+		4 4	m (1 1	Connector Tune	Т	
Connector Type	7	2 5	- ; -	1	n r	5 6	ii i	Connector	7	
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131 130 12	23 128 127 126 125 125 125 125 125 120 119 118 117 116 115 115 115 115 115 115	-	╀	1	=	_	1		77 78 79 80 81 82 83 84 85 86 87	
151 150 1	48 [48] [47] [46] [45] [44] [43] [42] [41] [40] [38] [38] [43] [48] [43] [43] [43]	82	╁	-					92 93 94 95 96 97 98 99 100 101 102 103 104 105 104 101	
		61	┝	1				l		
		20	H	- [With BOSE audio]	Connec	Connector No.	M202			
lal	Cinnel Monte [Consideration]	20	М	- [Without BOSE audio]	Č	Noncoton Money	TINIT IORIEN	Terminal	Color Sizzel Name [Saccification]	
No. of Wire		21	9	- [With BOSE audio]	500	allie indilie	AV CONTROL ON!	No.	of Wire	
4		21	\dashv	- [Without BOSE audio]	Connec	Connector Type	TH24FW-NH	76		
116 SB		22	Н	-	q			7.7		
4		23	æ	1	手			78		
\dashv	DR DC	24	g	-	HS.		<u></u>	79	SB AV COMM (H)	
121 BR	7	25	>	1		36 37	38 30 A0 A1 A2 A3 A4 A5 A6 A7	80	P CAN-L	
4		56	┪	1		3 5	04 04 44 04 04 04 04 04 04 04 04 04 04 0	81	L CAN-H	
124 LG	4	59	ά			48 43	48 48 30 30 30 30 30 30 30 30 30 30 30 30 30	7		
4	+		+	1				7	SHIELD	
4	PUSH-BUTTON	31	4	1		Į.		87		
134 GR	4	32	+	1	Terminal		Signal Name [Specification]	88	4	
4	4	33	BR	1	No	of Wire	,	92	R VEHICLE SPEED SIGNAL (8-PULSE)	
138 Y	RECEIVER/SENSOR POWER SUPPLY	34	4	1	36	BG	SIGNAL VCC	93	PA	
4	TIRE PRESS	32	G	1	37	2	SIGNAL GND	94		
-	_	43	_	1	38	œ	웊	92	G IGNITION SIGNAL	
4	SECI	44	+	1	39	æ	COMM (DISP->CONT)	96	Y DISK EJECT SIGNAL	
_	COMBI SW OUTPUT 5	42	œ	1	9	В	RGB AREA (YS) SIGNAL			
143 P	COMBI SW OUTPUT 1	46	\dashv	1	14	SHIELD	SHIELD			
144 G	COMBI SW OUTPUT 2	52	+	1	45	≯	RGB SYNC			
4		53	+	1	2	G	RGB (R:RED) SIGNAL			
+		54	+		44	-	RGB (G:GREEN) SIGNAL			
150 LG	┥	99	BG	1	45	۵	RGB (B:BLUE) SIGNAL			
151 G	REAR WINDOW DEFOGGER RELAY CONT				46	>	COMPOSITE IMAGE SIGNAL GND			
		o constant	No so to conso	141.02	4 4	g >	COMPOSITE IMAGE SIGNAL			
		50	CCO NO.	MILS/	ç ç	- 6	OOV PERMINANT			
COLLECCO NO.	т	Conne	Connector Name	A/T SHIFT SELECTOR	D 1	É	INVENTER GIND			
Connector Name	WIRE TO WIRE	J.	T.mo	THE WILLIAM	8 5	5 >	(GSIG) TIAOO) MAAOO			
	Т	2000	cror i ype	HILZFW-NH	<u>.</u>	- [COMM (CONT-/DISP)			
connector 1ype	I H40MW-CS15	Œ			35	SHIELD	SHIELD			
C C		¥.	,		2 02	SHELD	SHIELD			
		Ź	ń	/ \ \	S	SPIELD	SHIELD			
	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15			3						
272	16 17 18 19 20 21 122 120 124 125 125 125 125 125 125 125 125 125 125			7 8 9 10 11						
]										
		Terminal		Signal Name [Specification]						
Terminal Color	Signal Name [Specification]	Š,	5							
No. of will			Μ	_						

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< ECU DIAGNOSIS INFORMATION >

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Fail Safe

AUTOMATIC DRIVE POSITIONER

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

< ECU DIAGNOSIS INFORMATION >

[WITH ADP]

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

DTC Index

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

^{*1.}

^{• 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.

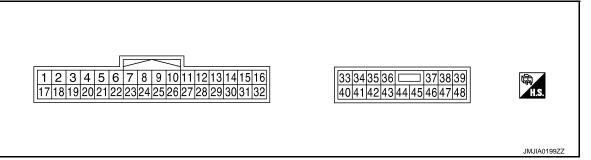
< ECU DIAGNOSIS INFORMATION >

[WITH ADP]

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

Reference Value

TERMINAL LAYOUT



PHYSICAL VALUES

Terr	minal No.		Description				
+	-	Wire color	Signal name	Input/ Out- put	Conditi	on	Voltage (V) (Approx.)
1	Ground	Y	Tilt switch up signal	Input	Tilt switch	Operate (up)	0
ı	Giodila	ī	The switch up signal	input	THE SWILCH	Other than above	5
			Changeover switch RH		Changeover	RH	0
2	Ground	LG	signal	Input	switch position	Neutral or LH	5
3	Cravinal	G	Missos quitale un aignal	lanut	Mirror switch	Operated (up)	0
3	Ground	G	Mirror switch up signal	Input	Will Tor Switch	Other than above	5
4	0		NA:	la a set	Naimen envited	Operated (left)	0
4	Ground	V	Mirror switch left signal	Input	Mirror switch	Other than above	5
5	Ground	R	Door mirror sensor (RH) up/down signal	Input	Door mirror RH po	osition	Change between 3.4 (close to peak) 0.6 (close to valley)
6	Ground	GR	Door mirror sensor (LH) up/down signal	Input	Door mirror LH po	osition	Change between 3.4 (close to peak) 0.6 (close to valley)
7	Ground	0	Tilt sensor signal	Input	Tilt position		Change between 1.2 (close to top) 3.4 (close to bottom)
						Push	0
9	Ground	L	Memory switch 1 signal	Input	Memory switch 1	Other than above	5
10	Ground	V	UART communication (TX)	Out- put	Ignition switch ON	l .	2mSec/div 2mSec/div 2W/div JMJIA0118ZZ

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< ECU DIAGNOSIS INFORMATION >

Terr	minal No.		Description				
+	-	Wire color	Signal name	Input/ Out- put	Conditi	on	Voltage (V) (Approx.)
11	Ground	GR	Telescopic switch for-	Input	Telescopic	Operate (forward)	0
- ''	Ground	GIX	ward signal	прис	switch	Other than above	5
				Out-	Memory indictor	Illuminate	0
12	Ground	0	Memory indictor 1 signal	put	1	Other than above	Battery voltage
				Out-	Memory indictor	Illuminate	0
13	Ground	Р	Memory indictor 2 signal	put	2	Other than above	Battery voltage
14	Ground	W	Door mirror motor (RH)	Out-	Door mirror RH	Operate (up)	Battery voltage
14	Ground	VV	up output signal	put	Door Hillion Kin	Other than above	0
15	Ground G		Door mirror motor (RH)	Out-	Door mirror RH	Operate (left)	Battery voltage
15	Ground	G	left output signal	put	Door millor KH	Other than above	0
			Door mirror motor (LH)			Operate (down)	Battery voltage
16	Ground	Y	down output signal	Out-	Door mirror (LLI)	Other than above	0
10	Ground	T	Door mirror motor (LH)	put	Door mirror (LH)	Operate (right)	Battery voltage
			right output signal			Other than above	0
17	Ground	W	Tilt quitab down aignal	loout	Tilt switch	Operate (down)	0
17	Ground	VV	Tilt switch down signal	Input	THE SWITCH	Other than above	5
			Changeover switch LH		Changeover	LH	0
18	Ground	Р	signal	Input	switch position	Neutral or RH	5
19	Ground	SB	Mirror switch down sig-	Innut	Mirror switch	Operate (down)	0
19	Ground	SB	nal	Input	WIIITOI SWITCH	Other than above	5
20	Ground	BR	Mirror switch right signal	Innut	Mirror switch	Operate (right)	0
20	Giodrid	DΚ	will of switch right signal	Input	WIIITOI SWILCH	Other than above	5
21	21 Ground L		Door mirror sensor (RH) left/right signal	Input	Door mirror RH po	osition	Change between 3.4 (close to left edge) 0.6 (close to right edge)
22	22 Ground G		Door mirror sensor (LH) left/right signal	Input	Door mirror LH po	osition	Change between 0.6 (close to left edge) 3.4 (close to right edge)
23	Ground	Р	Telescopic sensor signal	Input	Telescopic positio	n	Change between 0.8 (close to top) 3.4 (close to bottom)

< ECU DIAGNOSIS INFORMATION >

[WITH ADP]

Terr	Terminal No.		Description				
+	-	Wire color	Signal name	Input/ Out- put	Condition	on	Voltage (V) (Approx.)
						Push	0
24	Ground	R	Set switch signal	Input	Set switch	Other than above	5
						Push	0
25	Ground	SB	Memory switch 2 signal	Input	Memory switch 2	Other than above	5
26	Ground	Y	UART communication (RX)	Input	Ignition switch ON	I	10mSec/div
27	Ground	G	Telescopic switch back-	Input	Telescopic	Operate (back- ward)	0
			ward signal	•	switch	Other than above	5
			Door mirror motor (RH)			Operate (down)	Battery voltage
30	Ground	R	down output signal	Out-	Door mirror (RH)	Other than above	0
30	Ground	K	Door mirror motor (RH)	put	Door Hillion (IXII)	Operate (right)	Battery voltage
			right output signal			Other than above	0
31	Ground	LG	Door mirror motor (LH)	Out-	Door mirror (LH)	Operate (up)	Battery voltage
	Ground	LO	up output signal	put	Door Hillion (Erry	Other than above	0
32	Ground	L	Door mirror motor (LH)	Out-	Door mirror (LH)	Operate (left)	Battery voltage
			left output signal	put		Other than above	0
33	Ground	R	Sensor power supply	Input	_		5
34	Ground	R	Power source (Fuse)	Input	_		Battery voltage
35	Ground	L	Tilt motor up output sig-	Out-	Steering tilt	Operate (up)	Battery voltage
			nal	put	_	Other than above	0
36	36 Ground GR		Telescopic motor for-	Out-	Steering tele-	Operate (forward)	Battery voltage
			ward output signal	put	scopic	Other than above	0
39	Ground	SB	Power source (C/B)		_		Battery voltage
40	Ground	В	Ground	_	_		0
41	Ground	Υ	Sensor ground	_	_		0

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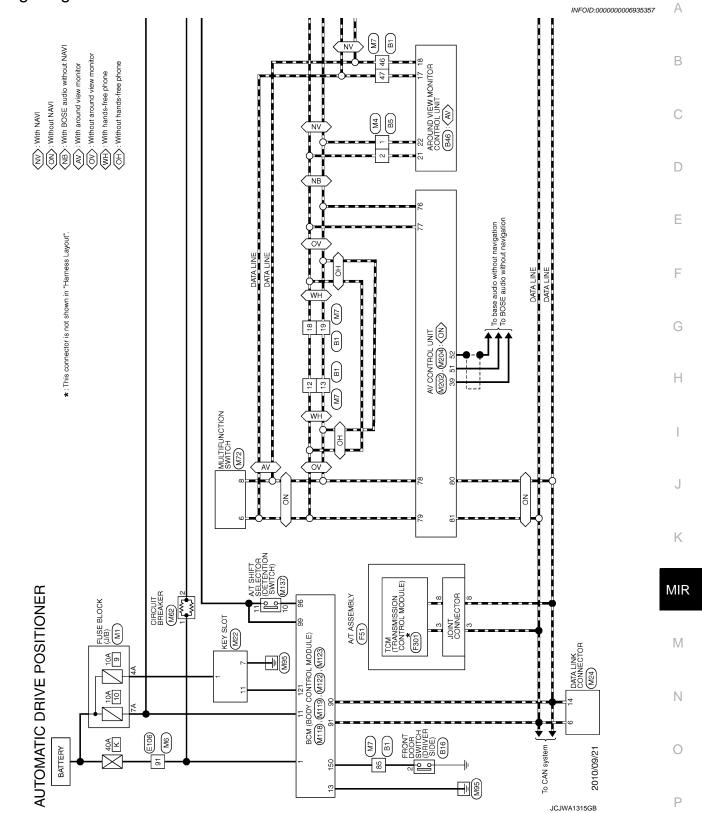
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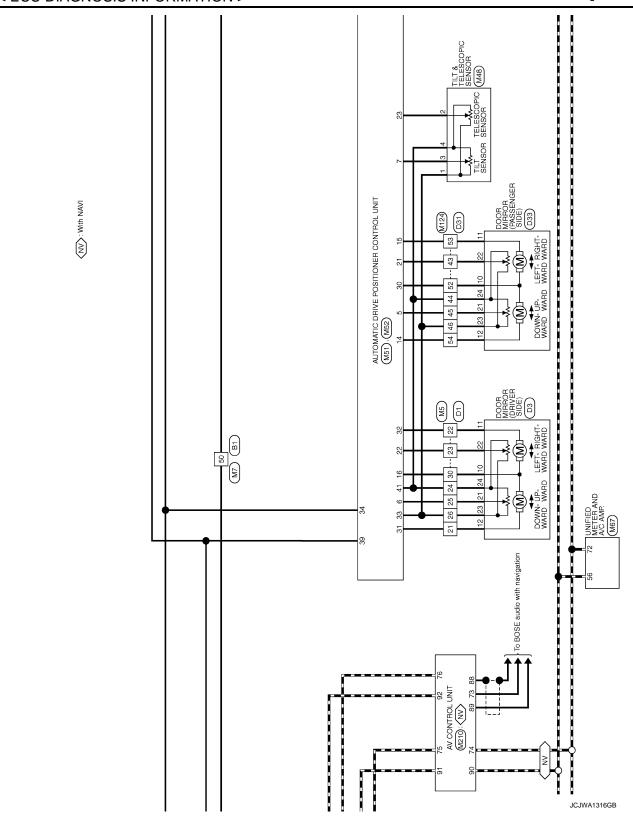
< ECU DIAGNOSIS INFORMATION >

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

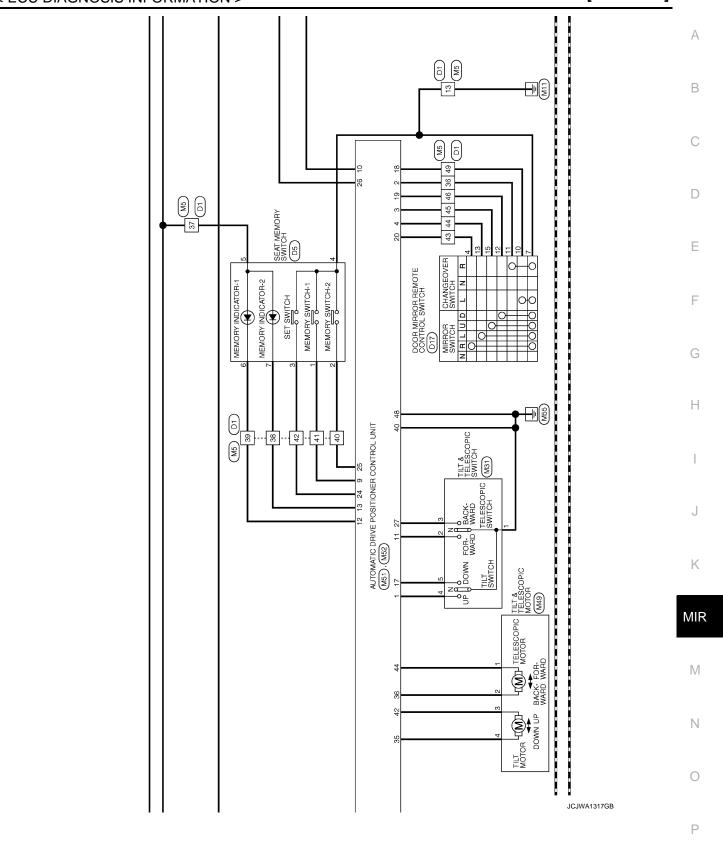
[WITH ADP]

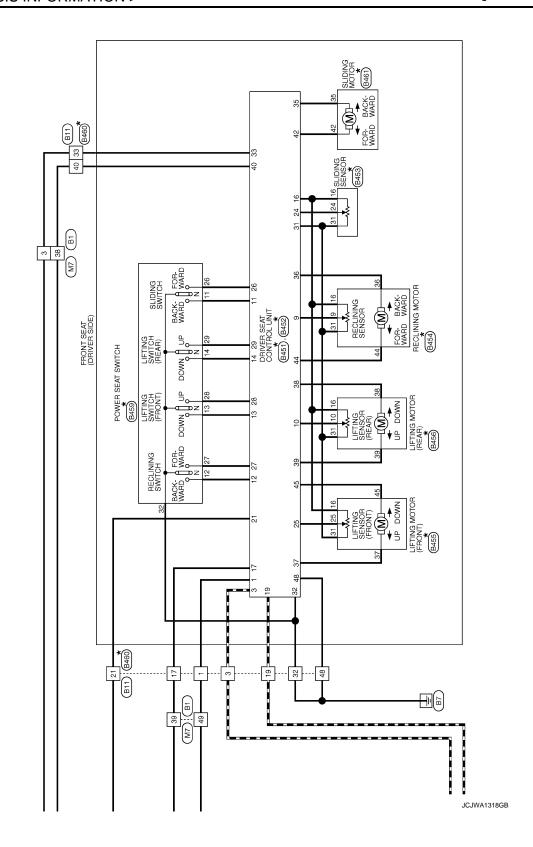
Wiring Diagram - AUTOMATIC DRIVE POSITIONER CONTROL SYSTEM -





< ECU DIAGNOSIS INFORMATION >





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

< ECU DIAGNOSIS INFORMATION >

[WITH ADP]

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	MIR
Connector Name Bit	M
Name	N
AUTOMA Connector Name Connector Name Connector Name Lis 14 Color No. 15 Color No. 16 Color No. 17 Color No. 18 Color No. 19 Color No. 10 Color No. 10 Color No. 11 Color 11 Color 12 Color No. 13 Color 14 Color 15 Color 16 Color 17 Color 18 Color 18 Color 19 Color 10 0	
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Compactor No DARS	e e	Connector Type NS06FW-CS	E	45 <u>37</u> 16 31 25		Terminal Color Signal Name [Specification]	H	Y/B	37 G/W	H		Connector No 19456	Г		Connector Type NS06FBR-CS	4	a distriction of the second of	38 39	16.31.10			lal	of Wire	0 0 91	31 GR –	\dashv	39 R/B =							
26 C/V DECLINING MOTOD (FORWARD)	G/W FR	R/B F	40 R/W BAT (FUSE) 42 W/B SLIDING MOTOR (BACKWARD) 44 P RECLINING MOTOR (BACKWARD)	B B	Connector No. B453	Connector Name SLIDING SENSOR	Connector Type 6098 0241	4		띡 -	24 31 16			lal	of Wire	+	31 GR -	┨		Connector No. B454	Connector Name RECLINING MOTOR	Connector Type NS06FW-CS	1		36 [44	16 31 9			-a	of Wire W/G	16 0 - 31 GR -	36 G/Y		
Connector No DARI	Je J	Connector Type TH32FW	修	1 2 3 4 5 6 7 8 9 10 11 12 18 14 15 16 17 18 14 15 16 17 18 14 15 16 17 18 14 15 16 17 18 14 15 16 17 18 14 15 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18		Terminal Golor Signal Name [Specification]	Н	R/Y	10 P/R PILISE (RR LIFTING)	BR SL	SB	13 LG/R FRONT LIFTING SW (DOWNWARD)	30	Y/R	>	۲ (24 R PULSE (SLIDING) 25 Y/B PULI SE (FR IFTING)	S .	R/G	W/B	29 P/L REAR LIFTING SW (UPWARD) 31 GR SENSOR GND	B/W		Connector No. B452	Connector Name DRIVER SEAT CONTROL LINIT	Т	Connector Type NS16FW-CS	修		33 34 35 36		E E	of Wire	33 R BAT (C/B) 35 W/R SLIDING MOTOR (FORWARD)
AUTOMATIC DRIVE POSITIONER	9	Connector Type TH40FW-NH	修	2 4 6 8 10 12 14 16 18 20 12 24 20 20 30 32 54 50 50 40 1 1 3 1 7 9 11 13 17 19 21 20 35 27 20 21 30 55 27 20 21 30 55 27 20 21 30 55 27 20 21 20 35 27 20 21 20 35 27 20 21 20 35 27 20 21 20 35 27 20 21 20 35 27 20 21 20 35 27 20 21 20 35 27 20 21 20 35 27 20 21 20 35 27 20 21 20 35 27 20 21 20 35 27 20 21 20 35 27 20 21 20 35 27 20 21 20 20 21 2		Terminal Golor Signal Name [Specification]	H	+	4 GR AGG	Н	VEHICLE	7 V REVERSE SIGNAL	. 8	SB		gs :	22 LG AUXII IARY INFARED I FD (+)	g	W	SHIELD	29 Y SIDE CAMERA RH IMAGE SIGNAL 30 G SIDE CAMERA RH IMAGE GND	SHIELD	в:	34 R SIDE CAMERA RH COMIM 34 R SIDE CAMERA RH POWER SUPPLY	7	BR REAR CAME	37 SHIELD SHIELD 38 P BEAB CAMERA GND	£ >-	Н					

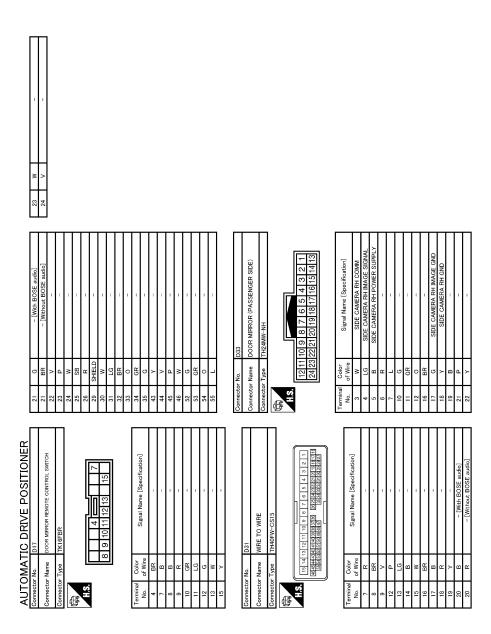
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< ECU DIAGNOSIS INFORMATION >

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< ECU DIAGNOSIS INFORMATION >

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ocification] NobuLE) NobuLE	Е
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	MIR
AUTOMATIC DRIVE POSITIONER Journector Name WIRE TO WIRE Journector Type TH80PW-CS16-TM4 WIRE TO WIRE 1 1 R R	M
EIOG WINE TO WINE THROUGH-CSIG-TMA Signal Nam Signal Nam	Ν
AUTOMAT Connector No. Connector Type Connector Type I Teminal Color No. Of Wire I R R	
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No. Mis Nume WIRE TO WIRE	Signal Name [Specification]	T	1	ı	-			1	1	1	-	1	1	I	1	1	ĺ	1	1	-			i	1	ì	-	_	1	1	1	1	ı	1	1	ı		
r No.	Color of Wire	~	В	BR	- ۵	، ا	2 2	3	9	٦	9	>	В	>	×	۳	В	5	≻ .	١.	2 -	9	≻	GR	Я	Μ	SHIELD	>	>	~	BR	SB	≻	٩	<u>5</u>	Ж c	ı
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< ECU DIAGNOSIS INFORMATION >

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1			0 5	2 00								
			20	>	- [With BOSE audio]	Connec	Connector No. M	M202	Г			
la l	Color	Cincol Monte Consistention	20	Α	- [Without BOSE audio]		N notes of	TIMIT IOGENOOVY	l _e	la l	Color Simul Name [Sacrification]	_
┪	of Wire	Ognal value [opeomoadori]	21	ŋ	- [With BOSE audio]		П	, COMMISSION (1)	 	┪	e	_
<u>=</u>	۵	OPLICAL SENSOR	21	-	- [Without BOSE audio]	Connec	Connector Type T	TH24FW−NH	_]	\dashv		_
9 :	BS c	STOP LAMP SW 1	22	8 8		4				+	SB AV COMM (H)	_
2 9	2 8	S INF LAMP SW Z	53 63	5	i I	1			1	8/8	LG AV COMM (L)	т
121	8 8	KEY SLOT SW	\$ 52	>		2		- - - -		+		_
123	*	IGN F/B	56	~	1		363/3	39 40 41 42 43 44 45	<u> </u>	┞		_
124	PC	PASSENGER DOOR SW	29	SHIELD	-		48 49 50	50 51 52 53 54 55 56 57 58 59	L	82 E	B SW GND	
132	BR	POWER WINDOW SW COMM	30	Μ	1				Ш	Н	SHIELD	
133	м	PUSH-BUTTON IGNITION SW ILL POWER	31	Ľ	1	<u> </u>	ŀ]	4		
134	R 6	LOCK IND	32	υ (1	Termina	al Color	Signal Name [Specification]		+	P TEL VOICE SIGNAL (-)	$\overline{}$
130	2 >	DECENTED SENSOR GIND	3 8	<u></u>		S S	200	SIGNAL VCC	т Т	26	\downarrow	_
139	-	TIRE PRESSURE RECEIVER COMM	32	0	1	37	2 2	SIGNAL GND	L T	╁	BG REVERSE SIGNAL	_
140	GR.	SHIFT N/P	\$	-	1	38	۳	웊	L T	┝		_
141	5	SECURITY INDICATOR OUTPUT	44	>	-	39	BR	COMM (DISP->CONT)	П	96	DISK EJECT SIGNAL	П
142	BG	COMBI SW OUTPUT 5	42	ď	Í	9	В	RGB AREA (YS) SIGNAL	1			
143	۵ د	COMBI SW OUTPUT 1	52	≥ α		14 64	SHIELD	SHIELD	Τ			
145	, _	COMBI SW OUTPUT 3	3 23	2 0	1	4 54	: 0	RGB (R:RED) SIGNAL	Τ			
146	SB	COMBI SW OUTPUT 4	54	*	-	44		RGB (G:GREEN) SIGNAL	П			
150	ΓG	DRIVER DOOR SW	99	BG	-	45	Ь	RGB (B:BLUE) SIGNAL				
151	5	REAR WINDOW DEFOGGER RELAY CONT				46	> 87	COMPOSITE IMAGE SIGNAL GND	Т			
			Connector No.	or No.	M137	48	3 >	INVERTER VCC	Τ			
Connector No.		M124	Connector Name	or Name	A/T SHIET SELECTOR	49	BR	INVERTER GND	П			
actor	Connector Name	WIRE TO WIRE	3000	Piller I	3 - CIII - CIEC	20	g	ΝΡ				
	┑		Connector Type	or Type	TH12FW-NH	21	7	COMM (CONT->DISP)	Τ			
ector	Connector Type	TH40MW-CS15	Œ			52	+	SHIELD				
1			李			58	SHIELD	SHIELD	T			
			Ş		7	3	1	0.000	1			
	1 2 3 161718192 2728293	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 9 10 11 12 13 14 15 15 15 15 15 15 15			7 8 9 10 11							
'			Terminal	_	Simal Name [Spacification]	_						
Terminal	Color	Signal Name [Specification]	Š,	of Wire								
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AUTOMATIC DRIVE POSITIONER	M210	AV CONTROL UNIT	TH32FW-NH		64 65 66 67 68 69 70 71 72 73 74 75 76	78 79 80 81 82 83 84 85 86 87 88 89 90 91 92
AUTOMATIC	Connector No. M.	Connector Name A	Connector Type TF	H.S.	61 62 63 64	77 78 79 80

Signal Name [Specification]	PARKING BRAKE SIGNAL	COMPOSITE IMAGE SIGNAL GND	COMPOSITE IMAGE SIGNAL	MICROPHONE SHIELD	MICROPHONE VCC	COMM (CONT->DISP)	CAN-L	AV COMM (L)	AV COMM (L)	ILLUMINATION	IGNITION SIGNAL	REVERSE SIGNAL	VEHICLE SPEED SIGNAL (8-PULSE)	SHIELD	MICROPHONE SIGNAL	SHIELD	COMM (DISP->CONT)	CAN-H	AV COMM (H)	AV COMM (H)
Color of Wire	>	9	۳	SHIELD	۳	2	Ь	FG	ΡΠ	ч	g	BG	۲	SHIELD	5	SHIELD	5	٦	SB	SB
Terminal No.	65	- 67	89	71	72	7.3	74	75	9/	79	80	81	82	83	87	88	68	90	91	66

[WITH ADP]

BCM (BODY CONTROL MODULE)

Reference Value

VALUES ON THE DIAGNOSIS TOOL

CONSULT-III MONITOR ITEM

Monitor Item	Condition	Value/Status
FR WIPER HI	Other than front wiper switch HI	Off
FR WIPER III	Front wiper switch HI	On
FR WIPER LOW	Other than front wiper switch LO	Off
FR WIPER LOW	Front wiper switch LO	On
ED WACHED OW	Front washer switch OFF	Off
FR WASHER SW	Front washer switch ON	On
ED WIDED INT	Other than front wiper switch INT	Off
FR WIPER INT	Front wiper switch INT	On
ED WIDER STOR	Front wiper is not in STOP position	Off
FR WIPER STOP	Front wiper is in STOP position	On
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	Wiper intermittent dial position
DD WIDED ON	Other than rear wiper switch ON	Off
RR WIPER ON	Rear wiper switch ON	On
DD WIDED INT	Other than rear wiper switch INT	Off
RR WIPER INT	Rear wiper switch INT	On
	Rear washer switch OFF	Off
RR WASHER SW	Rear washer switch ON	On
	Rear wiper is in STOP position	Off
RR WIPER STOP	Rear wiper is not in STOP position	On
TUDA CIONAL D	Other than turn signal switch RH	Off
TURN SIGNAL R	Turn signal switch RH	On
	Other than turn signal switch LH	Off
TURN SIGNAL L	Turn signal switch LH	On
TAIL LAMB OW	Other than lighting switch 1ST and 2ND	Off
TAIL LAMP SW	Lighting switch 1ST or 2ND	On
	Other than lighting switch HI	Off
HI BEAM SW	Lighting switch HI	On
LIEAD LAMB OW	Other than lighting switch 2ND	Off
HEAD LAMP SW 1	Lighting switch 2ND	On
LIEAR LAMB OW O	Other than lighting switch 2ND	Off
HEAD LAMP SW 2	Lighting switch 2ND	On
	Other than lighting switch PASS	Off
PASSING SW	Lighting switch PASS	On
ALITO LIGHT COM	Other than lighting switch AUTO	Off
AUTO LIGHT SW	Lighting switch AUTO	On
	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

< ECU DIAGNOSIS INFORMATION >

[WITH ADP]

Monitor Item	Condition	Value/Status
OOD SW DD	Driver door closed	Off
DOOR SW-DR	Driver door opened	On
DOOR SW-AS	Passenger door closed	Off
700K 3W-A3	Passenger door opened	On
DOOR SW-RR	Rear RH door closed	Off
700K 3W-KK	Rear RH door opened	On
DOOR SW-RL	Rear LH door closed	Off
JOON OW ILL	Rear LH door opened	On
DOOR SW-BK	Back door closed	Off
OOK OW BIK	Back door opened	On
CDL LOCK SW	Other than power door lock switch LOCK	Off
,DL LOOK OVV	Power door lock switch LOCK	On
CDL UNLOCK SW	Other than power door lock switch UNLOCK	Off
DE SINESSIN SVV	Power door lock switch UNLOCK	On
(EY CYL LK-SW	Other than driver door key cylinder LOCK position	Off
	Driver door key cylinder LOCK position	On
KEY CYL UN-SW	Other than driver door key cylinder UNLOCK position	Off
LI OIL OIV-OVV	Driver door key cylinder UNLOCK position	On
KEY CYL SW-TR	NOTE: The item is indicated, but not monitored.	Off
HAZARD SW	Hazard switch is OFF	Off
IAZARD SW	Hazard switch is ON	On
EAR DEF SW	NOTE: The item is indicated, but not monitored.	Off
R CANCEL SW	NOTE: The item is indicated, but not monitored.	Off
TR/BD OPEN SW	Back door opener switch OFF	Off
R/DD OPEN SW	While the back door opener switch is turned ON	On
FRNK/HAT MNTR	NOTE: The item is indicated, but not monitored.	Off
RKE-LOCK	LOCK button of the key is not pressed	Off
THE LOOK	LOCK button of the key is pressed	On
RKE-UNLOCK	UNLOCK button of the key is not pressed	Off
ANL-UNLOUN	UNLOCK button of the key is pressed	On
RKE-TR/BD	NOTE: The item is indicated, but not monitored.	Off
RKE-PANIC	PANIC button of the key is not pressed	Off
ME-PAINIU	PANIC button of the key is pressed	On
DICE DAM ODEN	UNLOCK button of the key is not pressed	Off
RKE-P/W OPEN	UNLOCK button of the key is pressed and held	On
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
ODTIONI OTNICOS	Bright outside of the vehicle	Close to 5 V
OPTICAL SENSOR	Dark outside of the vehicle	Close to 0 V

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
REQ SW -DR	Driver door request switch is not pressed	Off
KEQ 5W -DK	Driver door request switch is pressed	On
DEC OW AC	Passenger door request switch is not pressed	Off
REQ SW -AS	Passenger door request switch is pressed	On
REQ SW -RR	NOTE: The item is indicated, but not monitored.	Off
REQ SW -RL	NOTE: The item is indicated, but not monitored.	Off
REQ SW -BD/TR	Back door request switch is not pressed	Off
REQ 3W -DD/TR	Back door request switch is pressed	On
DUCLICM	Push-button ignition switch (push switch) is not pressed	Off
PUSH SW	Push-button ignition switch (push switch) is pressed	On
ION DIVO E/D	Ignition switch in OFF or ACC position	Off
IGN RLY2 -F/B	Ignition switch in ON position	On
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
BRAKE SW 1	The brake pedal is not depressed when No. 7 fuse is blown, or No. 7 fuse is normal	On
BRAKE SW 2	The brake pedal is not depressed	Off
DRAKE SW Z	The brake pedal is depressed	On
DETE/CANCL SW	Selector lever in P position	Off
DETE/CANCL SW	Selector lever in any position other than P	On
CET DN/N C/M	Selector lever in any position other than P and N	Off
SFT PN/N SW	Selector lever in P or N position	On
S/L -LOCK NOTE:	Steering is unlocked	Off
For models without steering lock unit, this item is not monitored.	Steering is locked	On
S/L -UNLOCK	Steering is locked	Off
NOTE: For models without steering lock unit, this item is not monitored.	Steering is unlocked	On
S/L RELAY-F/B NOTE:	Ignition switch in OFF or ACC position	Off
For models without steering lock unit, this item is not monitored.	Ignition switch in ON position	On
LINI Z CENI DD	Driver door is unlocked	Off
UNLK SEN -DR	Driver door is locked	On
DUCU CW IDDM	Push-button ignition switch (push-switch) is not pressed	Off
PUSH SW -IPDM	Push-button ignition switch (push-switch) is pressed	On
ION DIVA E/D	Ignition switch in OFF or ACC position	Off
IGN RLY1 -F/B	Ignition switch in ON position	On
DETE OW IDDA	Selector lever in any position other than P	Off
DETE SW -IPDM	Selector lever in P position	On
OFT DAL IDDA	Selector lever in any position other than P and N	Off
SFT PN -IPDM	Selector lever in P or N position	On

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Monitor Item	Condition	Value/Status		
SFT P -MET	Selector lever in any position other than P	Off		
SFIF-WEI	Selector lever in P position	On		
OETNI MET	Selector lever in any position other than N	Off		
SFT N -MET	Selector lever in N position	On		
	Engine stopped	Stop		
ENOINE OTATE	While the engine stalls	Stall		
ENGINE STATE	At engine cranking	Crank		
	Engine running	Run		
S/L LOCK-IPDM	Steering is unlocked	Off		
NOTE: For models without steering lock unit, this item is not monitored.	Steering is locked	On		
S/L UNLK-IPDM	Steering is locked	Off		
NOTE: For models without steering lock unit, this item is not monitored.	Steering is unlocked	On		
S/L RELAY-REQ NOTE:	Steering lock system is not the LOCK condition and the changing condition from LOCK to UNLOCK.	Off		
For models without steering lock unit, this item is not monitored.	Steering lock system is the LOCK condition or the changing condition from LOCK to UNLOCK.	On		
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	Steering is locked	Reset		
ID ORT LAG	Steering is unlocked	Set		
PRMT ENG STRT	The engine start is prohibited	Reset		
TRWIT ENG STRT	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		
NET OW -SLOT	The key is inserted into key slot	On		
RKE OPE COUN1	During the operation of the key	Operation frequency o the key		
RKE OPE COUN2	NOTE: The item is indicated, but not monitored.	_		
CONFRM ID ALL	The key ID that the key slot receives does not accord with any key ID registered to BCM.	Yet		
SOM INVIDALE	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		
CONTINII 104	The key ID that the key slot receives accords with the fourth key ID registered to BCM.	Done		

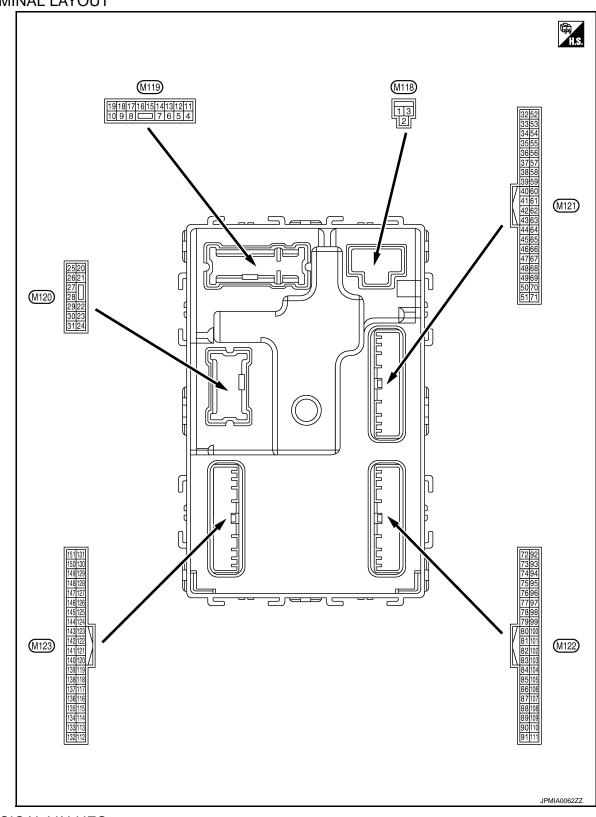
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< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status	
CONFIRM ID3	The key ID that the key slot receives does not accord with the third key ID registered to BCM.	Yet	
CONFINITIOS	The key ID that the key slot receives accords with the third key ID registered to BCM.	Done	
CONFIRM ID2	The key ID that the key slot receives does not accord with the second key ID registered to BCM.	Yet	
CONTINUEDZ	The key ID that the key slot receives accords with the second key ID registered to BCM.	Done	
CONFIRM ID1	The key ID that the key slot receives does not accord with the first key ID registered to BCM.	Yet	
CONFIRMIDI	The key ID that the key slot receives accords with the first key ID registered to BCM.	Done	
TP 4	The ID of fourth key is not registered to BCM	Yet	
17 4	The ID of fourth key is registered to BCM	Done	
TP 3	The ID of third key is not registered to BCM	Yet	
1173	The ID of third key is registered to BCM	Done	
TP 2	The ID of second key is not registered to BCM	Yet	
IP 2	The ID of second key is registered to BCM	Done	
TD 4	The ID of first key is not registered to BCM	Yet	
TP 1	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 DECCT ED4	ID of front RH tire transmitter is registered	Done	
ID REGST FR1	ID of front RH tire transmitter is not registered	Yet	
ID REGST RR1	ID of rear RH tire transmitter is registered	Done	
ID REGOT KRT	ID of rear RH tire transmitter is not registered	Yet	
ID REGST RL1	ID of rear LH tire transmitter is registered	Done	
ID NEGOT NET	ID of rear LH tire transmitter is not registered	Yet	
WARNING LAMP	Tire pressure indicator OFF	Off	
WARNING LAWIP	Tire pressure indicator ON	On	
BUZZER	Tire pressure warning alarm is not sounding	Off	
DOLLEN	Tire pressure warning alarm is sounding	On	

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TERMINAL LAYOUT



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Term	inal No.	Description				
(Wire	e color)	Signal name	Input/		Condition	Value (Approx.)
+	-	Signal name	Output			('FF'')
1 (W)	Ground	Battery power supply	Input	Ignition switch OF	F	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		lata da un anno la mar			battery saver is activated. oom lamp power supply)	0 V
4 (LG)	Ground	Interior room lamp power supply	Output	ed.	battery saver is not activat- or room lamp power supply)	Battery voltage
5	Ground	Passenger door UN-	Output	Passenger door	UNLOCK (Actuator is activated)	Battery voltage
(L)	Ground	LOCK	Output	r adderiger addr	Other than UNLOCK (Actuator is not activated)	0 V
7	Ground	Step lamp	Output	Step lamp	ON	0 V
(Y)	Orodria	Grop ramp	Output	Ctop lamp	OFF	Battery voltage
8	Catoling	All doors, fuel lid	Output	All doors	LOCK (Actuator is activated)	Battery voltage
(V)		LOCK	o a.pa.	7 33313	Other than LOCK (Actuator is not activated)	0 V
9	9 Ground	Driver door, fuel lid	Output	Driver door	UNLOCK (Actuator is activated)	Battery voltage
(G)	Ground	UNLOCK	Output		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)	Ground	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)	Ground	switch illumination ground	Output	Tail lamp	ON	(V) 10 0 2 ms JSNIA0010GB
15	Ground	ACC indicator lamp	Output	Ignition switch	OFF or ON	Battery voltage
(Y)	Ciouna		Caiput	.9	ACC	0 V

< ECU DIAGNOSIS INFORMATION >

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

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

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value
+	e color)	Signal name	Input/ Output		Condition	(Approx.)
39		Back door antenna		When the back door opener re-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 S S S S S S S S S
(W)	Ground	(+)	Output	quest switch is operated with ig- nition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB
47	Cround	Ignition relay (IPDM	Output	Ignition switch	OFF or ACC	Battery voltage
(Y)	Ground	E/R) control	Output	ignition switch	ON	0 V
52	Granad	Startor rolay control	Outout	Ignition switch	When selector lever is in P or N position	Battery voltage
(SB)	Ground	Starter relay control	Output	ON	When selector lever is not in P or N position	0 V
60* ¹	_	Push-button ignition	_	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
0.4		Intelligent Key warn-		Intelligent Key	Sounding	1.0 V
64 (V)	Ground	ing buzzer (Engine room)	Output	warning buzzer (Engine room)	Not sounding	Battery voltage
		100111)		(Engine 100III)	- 3	(V)
65 (BG)	Ground	Rear wiper stop position	Input	Rear wiper	In stop position	10 5 0 JPMIA0016GB
						1.0 V
					Not in stop position	0 V

< ECU DIAGNOSIS INFORMATION >

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

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value
(Wir	e color)	Signal name	Input/ Output		Condition	(Approx.)
72		Room antenna 2 (–)		Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB
(R)	Ground	(Center console)	Output	ŎFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB
73		Room antenna 2 (+)		Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB
(G)	Ground	(Center console)	Output	ÖFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 1 1 1 1 1 1 1 1 1 1
74	Ground	Passenger door an-	Outout	When the passenger door re-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(SB)	Ground	tenna (–)	Output	quest switch is operated with ig- nition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB

		IOSIS INFORMAT	10117	ı		[ושא וווואן
	inal No. e color)	Description	T		On a distant	Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
75	Ground	Passenger door an-	Output	When the passenger door re-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(GR)	Glound	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
76		Driver door antenna		the antenna detection When the driver	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB
(V)	Ground	(-)	Output	door request switch is operat- ed with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB
77		Driver door antenna		When the driver door request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB
(LG)	Ground	(+)	Output	switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 1

< ECU DIAGNOSIS INFORMATION >

[WITH ADP]

	inal No.	Description				Value
+	e color)	Signal name	Input/ Output		Condition	(Approx.)
78		Room antenna 1 (–)		Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB
(Y)	Ground	(Instrument panel)	Output	ŎFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 1
79	Ground	Room antenna 1 (+)	Outout	Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GB
(BR)	Giound	(Instrument panel)	Output	ŌFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB
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 (D)	Ground	Ignition relay [Fuse	Output	Ignition switch	OFF or ACC	0 V
(R)		block (J/B)] control		ON	Battery voltage	

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	inal No. e color)	Description			Condition	Value
+	_	Signal name	Input/ Output		Condition	(Approx.)
83		Remote keyless entry receiver communication	Input/ Output	During waiting		(V) 15 10 5 0 1 ms JMKIA0064GB
(Y) G	Ground			When operating e	ither button on the key	(V) 15 10 5 0 1 ms JMKIA0065GB
					All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB
87	Ground	Combination switch	Input	Combination	Front fog lamp switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0037GB
(BR)		INPUT 5	switch	SWITCH	Rear wiper switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0039GB 1.3 V
					Any of the conditions below with all switches OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 6 • Wiper intermittent dial 7	(V) 15 10 5 0 2 ms JPMIA0040GB 1.3 V

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				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
					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 5 0 2 ms JPMIA0039GB 1.3 V
					Any of the conditions below with all switches OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3	(V) 15 10 5 0 2 ms JPMIA0040GB 1.3 V
89* ²		Push-button ignition		Push-button igni-	Pressed	0 V
(BR)	Ground	switch (Push switch)	Input	tion switch (push switch)	Not pressed	Battery voltage
90 (P)	Ground	CAN-L	Input/ Output	_	'	_
91		CAN-H	Input/			

Signal name		inal No. e color)	Description			Condition	Value
Ground Key slot illumination Output Key slot illumination Output Key slot illumination Output Key slot illumination Output Ground Output Ignition switch Or Or Or Or Or Or Or O		1	Signal name	Input/ Output		Condition	
Ground G						OFF	Battery voltage
Second Continue		Ground	Key slot illumination	Output		Blinking	15 10 5 0
Ground ON indicator lamp Output Ignition switch OFF or ACC Battery voltage							
Ground ON indicator lamp Output Ignition switch ON							
Ground Puddle lamp control Output Puddle lamp OFF Battery voltage		Ground	ON indicator lamp	Output	Ignition switch		
Puddle lamp control Output Puddle lamp ON	(V)			-			
Second S		Ground	Puddle lamp control	Output	Puddle lamp		<u> </u>
Ground ACC relay control Qutput Ignition switch ACC or ON Battery voltage	(1)						
Second Ground AT shift selector (Detention switch) power supply Ground Ground Steering lock condition No. 1 Input Steering lock UNLOCK status Battery voltage		Ground	ACC relay control	Output	Ignition switch		
Ground supply and tention switch) power supply 97-2 Ground Steering lock condition No. 1 98-2 Ground Steering lock condition No. 2 99 Ground Steering lock condition No. 2 99 Ground Relatery voltage 90 Ground Relatery voltage 90 Ground Relatery voltage 90 Ground Relatery voltage 90 Ground Relatery voltage 91 Description OV 92 Any position other than P 93 Battery voltage 94 ON (Pressed) 95 ON (Pressed) 96 ON (Pressed) 97 ON (Pressed) 98 Battery voltage 99 ON (Pressed) 90 OFF (Not pressed)	(DG)		A/T - 1.10 1 1 1/D -			ACC or ON	Battery voltage
Common C		Ground	tention switch) power	Output	_		Battery voltage
Steering lock condition No. 2 Input Steering lock Input Steering lock Input Steering lock Input Steering lock Input Input Steering lock Input Inpu	97* ²	Steering lock cor	Steering lock condi-	Innut	Stooring look	LOCK status	0 V
Ground Converged Converg	(L)	Ground	tion No. 1	input	Steering lock	UNLOCK status	Battery voltage
Ground G	98* ²	Ground	Steering lock condi-	Input	Steering lock	LOCK status	Battery voltage
Caround Caro	(P)	Ground	tion No. 2	IIIput		UNLOCK status	0 V
Any position other than P Battery voltage ON (Pressed) OFF (Not pressed)		Ground		Innut	Selector lever	P position	0 V
Ground Ground Passenger door request switch Passenger door request switch OFF (Not pressed)	(R)	Cround	tion switch	трас		Any position other than P	Battery voltage
Ground Passenger door request switch Input Passenger door request switch OFF (Not pressed)						ON (Pressed)	0 V
Ground Ground Driver door request switch Driver door request switch OFF (Not pressed) OFF (Not pressed) OFF or ACC OFF or ACC OV OFF or ACC OV		Ground		Input		OFF (Not pressed)	15 10 5 0 10 ms JPMIA0016GB
Ground Switch Driver door request switch Driver door request switch OFF (Not pressed) OFF (Not pressed) OFF or ACC OFF or ACC OV						ON (Pressed)	0 V
102 Ground Blower fan motor re-Output Ignition switch		Ground		Input		OFF (Not pressed)	15 10 5 0 10 ms JPMIA0016GB
Ground Ground Output Ignition switch	102		Player for motor re			OFF or ACC	
		Ground		Output	Ignition switch		

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value
+	e color)	Signal name	Input/ Output		Condition	(Approx.)
103 (LG)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch OF	F	Battery voltage
106* ² (W)	Ground	Steering lock unit power supply	Output	Ignition switch	OFF or ACC	Battery voltage 0 V
(,					All switches OFF	(V) 15 10 5 0 2 ms JPMIA0041GB
					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 5 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

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

< ECU DIAGNOSIS INFORMATION >

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

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)
			-		LOCK status	Battery voltage
111* ² (Y)	Ground	Steering lock unit communication	Input/ Output	Steering lock	LOCK or UNLOCK	(V) 15 10 50 ms JMKIA0066GB
					For 15 seconds after UN- LOCK	Battery voltage
					15 seconds or later after UNLOCK	0 V
113	Ground	Optical sensor	Input	Ignition switch	When bright outside of the vehicle	Close to 5 V
(P)	Orouna	Optical serisor	input	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	Otop lamp switch	ON (Brake pedal is depressed)	Battery voltage
(P)	Cround	Stop lamp switch 2	iiiput		OFF (Brake pedal is not de- brake hold relay OFF	0 V
		(With ICC)			ON (Brake pedal is de- rake hold relay ON	Battery voltage
119 (SB)	Ground	Front door lock assembly driver side (Unlock sensor)	Input	Driver door	LOCK status (Unlock sensor switch OFF)	(V) 15 10 5 0 10 ms JPMIA0012GB
					UNLOCK status (Unlock switch sensor ON)	0 V
121	Ground	Key slot switch	Input	When the key is in	serted into key slot	Battery voltage
(BR)	Sibulia	Noy Siot Switter	input	When the key is no	ot inserted into key slot	0 V
123	Ground	IGN feedback	Input	Ignition switch	OFF or ACC	0 V
(W)			F- 4-1	J : 2	ON	Battery voltage

< ECU DIAGNOSIS INFORMATION >

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	inal No. e color)	Description				Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
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		(V) 15 10 5 0 10 ms JPMIA0013GB 10.2 V
				Ignition switch OFI	or ACC	Battery voltage
					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 UPMIA0159GB
					OFF	0 V
134	Ground	LOCK indicator lamp	Output	LOCK indicator	OFF	Battery voltage
(GR)	Ciodila	-	Carput	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)	Orodila	power supply	Jaipat	- 191111011 SWITOII	ACC or ON	5.0 V

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	inal No. e color)	Description			O andition	Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
139	Ground	Tire pressure receiv-	Input/	Ignition switch	Standby state	(V) 6 4 2 0 ••• 0.2s OCC3881D
(L)	Gloane	er communication	Output	ON	When receiving the signal from the transmitter	(V) 6 4 2 0 ••• 0.2s
140		Selector lever P/N			P or N position	Battery voltage
(GR)	Ground	position	Input	Selector lever	Except P and N positions	0 V
					ON	0 V
141 (G)	Ground	Security indicator	Output	Security indicator	Blinking	(V) 15 10 5 0 11.3 V
					OFF	Battery voltage
					All switches OFF	0 V
142 (BG)	Ground	Combination switch OUTPUT 5	Output	Combination switch (Wiper intermit- tent dial 4)	Lighting switch 1ST Lighting switch HI Lighting switch 2ND	(V) 15 10 5
					Turn signal switch RH	2 ms JPMIA0031GB
					All switches OFF (Wiper intermittent dial 4)	0 V
143 (P)	Ground	Combination switch OUTPUT 1	Output	Combination switch	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	(V) 15 10 5 0 2 ms JPMIA0032GB

< ECU DIAGNOSIS INFORMATION >

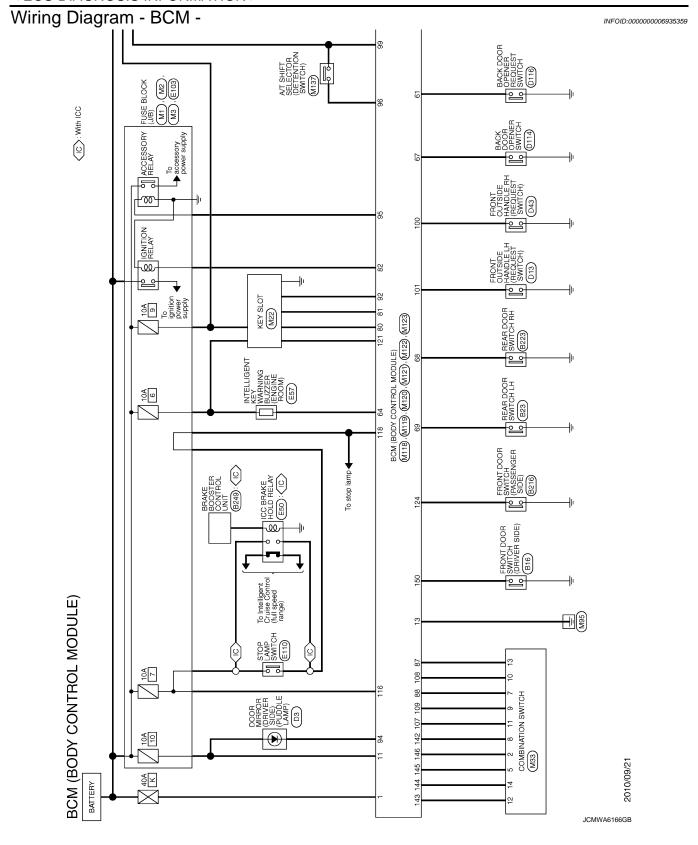
[WITH ADP]

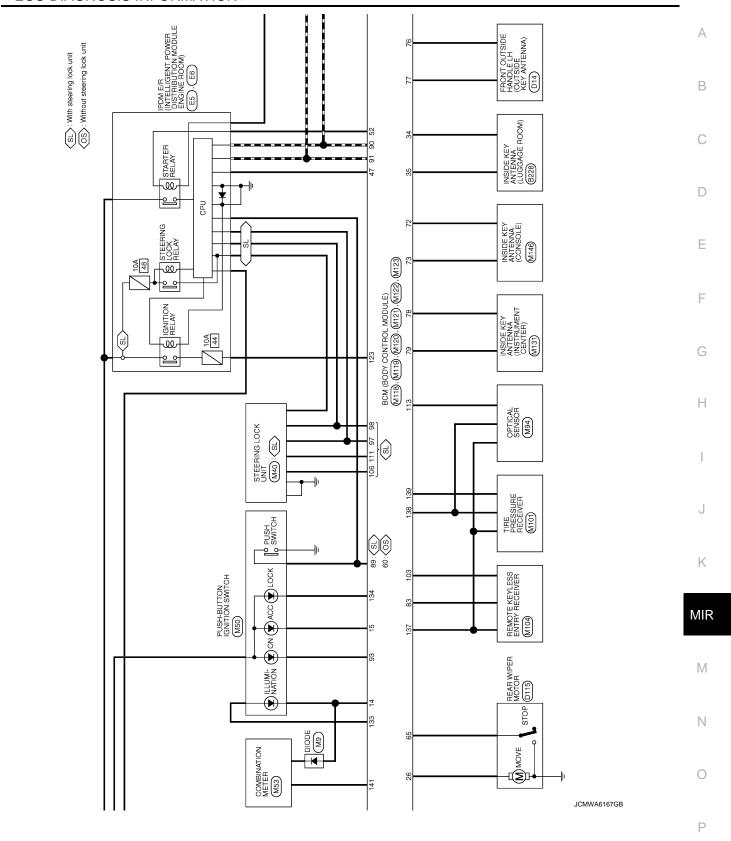
	inal No.	Description				Value
+	e color)	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF (Wiper intermittent dial 4)	0 V
					Front washer switch ON (Wiper intermittent dial 4)	
144		Combination switch		Combination	Rear wiper switch ON (Wiper intermittent dial 4)	(V) 15
(G)	Ground	OUTPUT 2	Output	switch	Rear washer switch ON (Wiper intermittent dial 4)	10 5 0
					Any of the conditions below with all switches OFF Wiper intermittent dial 1 Wiper intermittent dial 5 Wiper intermittent dial 6	2 ms JPMIA0033GB
					All switches OFF	0 V
					Front wiper switch INT	
				Combination	Front wiper switch LO	(V)
145 (L)	Ground	Combination switch OUTPUT 3	Output	switch (Wiper intermit- tent dial 4)	Lighting switch AUTO	10 5 0 2 ms JPMIA0034GB
					All switches OFF	0 V
					Front fog lamp switch ON	
				Combination	Lighting switch 2ND	(V)
146 (SB)	Ground	Combination switch OUTPUT 4	Output	switch (Wiper intermit- tent dial 4)	Lighting switch PASS Turn signal switch LH	2 ms 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)	11.8 V 0 V
					ON (Door open)	υv
151		Rear window defog-		Rear window de-	Active	0 V

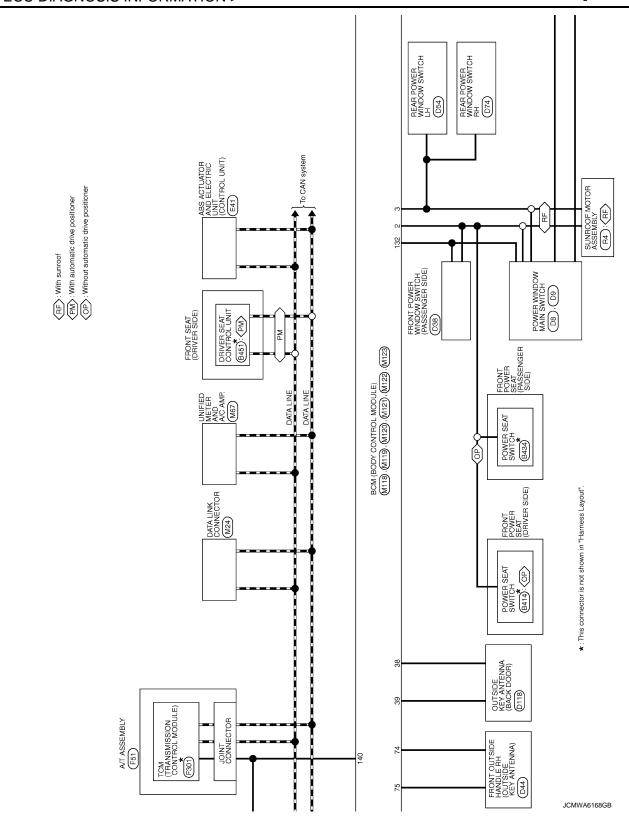
NOTE:

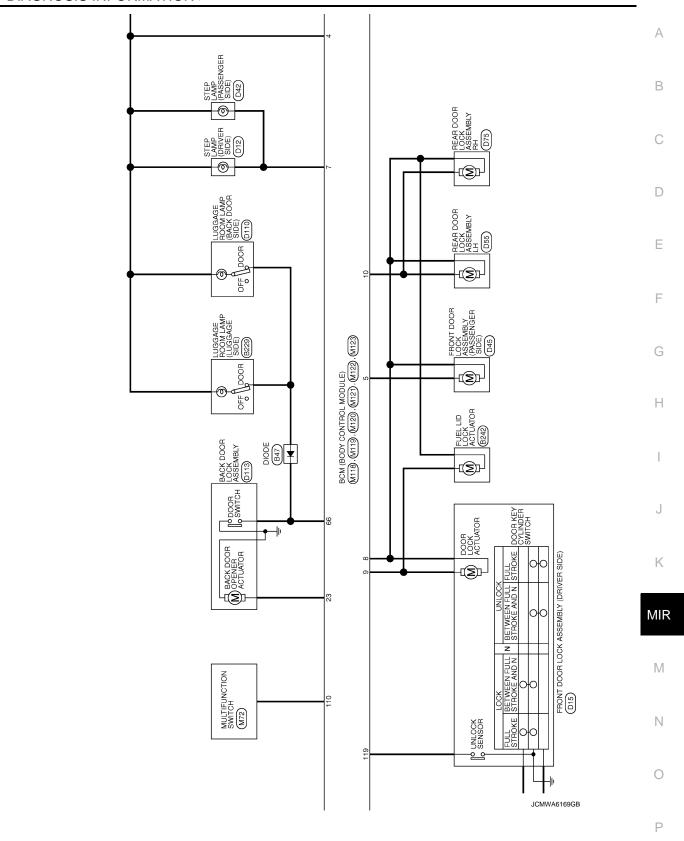
• *1: Without steering lock unit

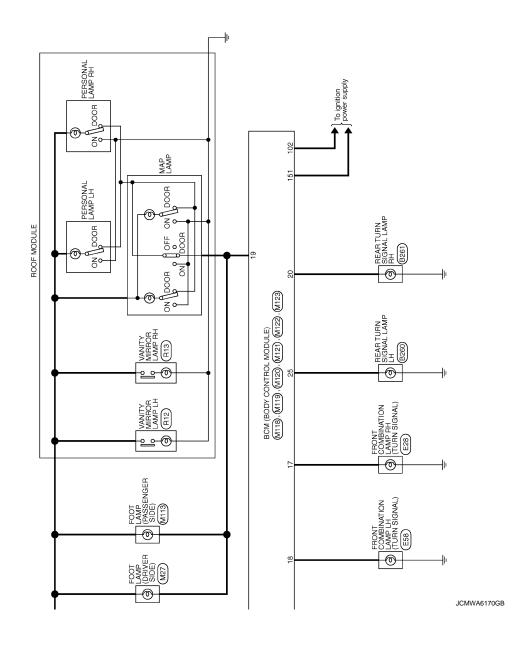
• *2: With steering lock unit









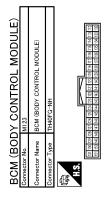


< ECU DIAGNOSIS INFORMATION >

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MATS ANT AMP IGN RELAY (F.B. CONT COMEI SW INPUT 5 COMEI SW INPUT 7 AAT SHIFT SELECTOR POWER SUPPLY SAL CONDITION 1 COMEI SW INPUT 1 COMEI SW INPUT 2 SAL UNIT DOWER SUPPLY SAL UNIT DOWER SUPPLY SAL UNIT DOWER SUPPLY COMEI SW INPUT 2 COMEI SW INPUT 3 COMEI SW INPUT 3 COMEI SW INPUT 3 COMEI SW INPUT 3 AND COMEI SW INPUT 3 COMEI	В
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POY CONTROL MODULE) WHI INCOME TO BE SENT OF THE SEN	Е
BCM (BODY CONTROL MODULE) TH40FGY-NH TH40FGY-NH Signal Name [Specification] ULOGAGE ROOM ANTT- ULOGAGE ROOM ANTT- ULUGAGE ROOM ANTT- EACK DOOR OFFILE RELAY (BOM E-PS) CONT TOWN BACK DOOR OFFILE RELAY (BOM E-PS) CONT FLUSH SWI (Without steering LOUEST SWI FRAN WHER STOP POSITION BACK DOOR OFFILER SW FRAN BACK BOOR SW FRAN BACK BACK BACK FROM ANTT- DRIVER BOOR SWITH- ROOM ANTT- ROOM ANTT- ROOM ANTT- BROM ANTT- BROM ANTT- ROOM ANTT- ROOM ANTT-	F
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M (BODY CONTROL MODULE) M (BODY CONTROL MODULE) Signal Name [Specification] TURN SIGNAL IN (FRONT) ROOM LAMP TIMER CONTROL ACC IND TURN SIGNAL IN (FRONT) ROOM LAMP TIMER CONTROL ACC IND TURN SIGNAL IN (FRONT) TURN SIGNAL IN (FRONT) ROOM LAMP TIMER CONTROL SIGNAL IN (FRONT) TURN SIGNAL IN (FRONT) ROOM LAMP TIMER CONTROL SIGNAL IN (FRONT) TURN SIGNAL IN (FRONT) ROOM LAMP TIMER CONTROL SIGNAL IN (FRONT) TURN SIGNAL IN (FRONT) ROOM LAMP TIMER CONTROL SIGNAL IN (FRONT) TURN SIGNAL IN (FRONT) REAR WIPER OUTPUT TURN SIGNAL IN (FRONT) TURN SIGNAL IN (FRONT) REAR WIPER OUTPUT TURN SIGNAL IN (FRONT) REAR WIPER OUTPUT	I
INSIGNATION MODULE) INSIGNA-CS INSIGNA-CS INSIGNA-CS Signal Name (Specification) INTERIOR ROOM LAMP POWER SUPPLY PASSENGER DOORS FUEL ID INCK OUTPUT ALL DOOR FUEL ID INCK OUTPUT REAR DOOR FUEL ID INCK OUTPUT ROOM LAMP TIMER CONTROL MIZO ILLEN SIGNAL LH (FRONT) TURN SIGNAL LH (FRONT) TURN SIGNAL LH (FRONT) TURN SIGNAL LH (FRONT) ROOM LAMP TIMER CONTROL MIZO BACK DOOR OPEN OUTPUT TURN SIGNAL LH (FRONT) REAR WIPER OUTPUT TURN SIGNAL LH (FRONT) REAR WIPER OUTPUT TURN SIGNAL LH (FRONT) REAR WIPER OUTPUT THEN SIGNAL LH (FRONT) REAR WIPER OUTPUT THEN SIGNAL LH (FRONT)	J
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Y CONTROL MODULE) M33 COMBINATION SWITCH THIGFW-NH I Z 3 4 5 6 7 8 9 1011121314 Signal Name [Specification] FR WASHER(-) OUTPUT 3 OUTPUT 2 NADUT 1 NADUT	M
CONTROL	N
Connector Name	0
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Terminal	Color	[
No.	of Wire	Signal Name [Specification]
113	Ь	OPLICAL SENSOR
116	SB	STOP LAMP SW 1
118	Ь	STOP LAMP SW 2
119	SB	DR DOOR UNLOCK SENSOR
121	BR	KEY SLOT SW
123	М	IGN F/B
124	PC	PASSENGER DOOR SW
132	BR	POWER WINDOW SW COMM
133	М	PUSH-BUTTON IGNITION SW ILL POWER
134	GR.	LOCK IND
137	ВB	RECEIVER/SENSOR GND
138	٨	RECEIVER/SENSOR POWER SUPPLY
139	٦	TIRE PRESSURE RECEIVER COMM
140	AD.	SHIFT N/P
141	5	SECURITY INDICATOR OUTPUT
142	BG	COMBI SW OUTPUT 5
143	d	COMBI SW OUTPUT 1
144	5	COMBI SW OUTPUT 2
145	٦	COMBI SW OUTPUT 3
146	SB	COMBI SW OUTPUT 4
150	ΓG	DRIVER DOOR SW
151	5	REAR WINDOW DEFOGGER RELAY CONT

JCMWA6172GB

Fail-safe

FAIL-SAFE CONTROL BY DTC

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

< ECU DIAGNOSIS INFORMATION >

[WITH ADP]

Display contents of CONSULT	Fail-safe	Cancellation
B2013: ID DISCORD BCM-S/L	Inhibit engine cranking	Erase DTC
B2014: CHAIN OF S/L-BCM	Inhibit engine cranking	Erase DTC
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
B2557: VEHICLE SPEED	Inhibit steering lock	When normal vehicle speed signals are received from ABS actuator and electric unit (control unit) for 500 ms
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
B2601: SHIFT POSITION	Inhibit steering lock	500 ms after the following signal reception status becomes consistent • Selector lever P position switch signal • P range signal (CAN)
B2602: SHIFT POSITION	Inhibit steering lock	5 seconds after the following BCM recognition conditions are fulfilled Ignition switch is in the ON position Selector lever P position switch signal: Except P position (battery voltage) Vehicle speed: 4 km/h (2.5 MPH) or more
B2603: SHIFT POSI STATUS	Inhibit steering lock	 500 ms after the following BCM recognition conditions are fulfilled Ignition switch is in the ON position Selector lever P position switch signal: Except P position (battery voltage) Selector lever P/N position signal: Except P and N positions (0 V)
B2604: PNP SW	Inhibit steering lock	500 ms after any of the following BCM recognition conditions are fulfilled • Status 1 - Ignition switch is in the ON position - Selector lever P/N position signal: P and N position (battery voltage) - P range signal or N range signal (CAN): ON • Status 2 - Ignition switch is in the ON position - Selector lever P/N position signal: Except P and N positions (0 V) - P range signal and N range signal (CAN): OFF
B2605: PNP SW	Inhibit steering lock	500 ms after any of the following BCM recognition conditions are fulfilled Ignition switch is in the ON position Power position: IGN Selector lever P/N position signal: Except P and N positions (0 V) Interlock/PNP switch signal (CAN): OFF Status 2 Ignition switch is in the ON position Selector lever P/N position signal: P or N position (battery voltage) PNP switch signal (CAN): ON
B2606: S/L RELAY	Inhibit engine cranking	 500 ms after the following CAN signal communication status becomes consistent Steering lock relay signal (Request signal) Steering lock relay signal (Condition signal)

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< ECU DIAGNOSIS INFORMATION >

[WITH ADP]

Display contents of CONSULT	Fail-safe	Cancellation
B2607: S/L RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status becomes consistent • Steering lock relay signal (Request signal) • Steering lock relay signal (Condition 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)
B2609: S/L STATUS	Inhibit engine cranking Inhibit steering lock	When the following steering lock conditions agree BCM steering lock control status Steering lock condition No. 1 signal status Steering lock condition No. 2 signal status
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)
B2612: S/L STATUS	Inhibit engine cranking Inhibit steering lock	When any of the following conditions are fulfilled Steering lock unit status signal (CAN) is received normally The BCM steering lock control status matches the steering lock status recognized by the steering lock unit status signal (CAN from IPDM E/R)
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
B2619: BCM	Inhibit engine cranking	1 second after the steering lock unit power supply output control inside BCM becomes normal
B261E: VEHICLE TYPE	Inhibit engine cranking	BCM initialization
B26E9: S/L STATUS	Inhibit engine cranking Inhibit steering lock	When BCM transmits the LOCK request signal to steering lock unit, and receives LOCK response signal from steering lock unit, the following conditions are fulfilled • Steering condition No. 1 signal: LOCK (0 V) • Steering condition No. 2 signal: LOCK (Battery voltage)

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:0000000006935361

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)

< ECU DIAGNOSIS INFORMATION >

[WITH ADP]

Priority	DTC	
3	B2190: NATS ANTENNA AMP B2191: DIFFERENCE OF KEY B2192: ID DISCORD BCM-ECM B2193: CHAIN OF BCM-ECM B2195: ANTI SCANNING	
	 B2013: ID DISCORD BCM-S/L B2014: CHAIN OF S/L-BCM B2553: IGNITION RELAY B2555: STOP LAMP B2556: PUSH-BTN IGN SW B2557: VEHICLE SPEED 	
	 B2560: STARTER CONT RELAY B2601: SHIFT POSITION B2602: SHIFT POSITION B2603: SHIFT POSI STATUS B2604: PNP SW B2605: PNP SW 	
	 B2606: S/L RELAY B2607: S/L RELAY B2608: STARTER RELAY B2609: S/L STATUS 	
4	B260A: IGNITION RELAY B260B: STEERING LOCK UNIT B260C: STEERING LOCK UNIT B260D: STEERING LOCK UNIT	
	 B260F: ENG STATE SIG LOST B2612: S/L STATUS B2614: ACC RELAY CIRC B2615: BLOWER RELAY CIRC 	
	 B2616: IGN RELAY CIRC B2617: STARTER RELAY CIRC B2618: BCM B2619: BCM 	
	 B261A: PUSH-BTN IGN SW B261E: VEHICLE TYPE B26E9: S/L STATUS 	
	B26EA: KEY REGISTRATION C1729: VHCL SPEED SIG ERR U0415: VEHICLE SPEED SIG	
	 C1704: LOW PRESSURE FL C1705: LOW PRESSURE FR C1706: LOW PRESSURE RR C1707: LOW PRESSURE RL C1708: [NO DATA] FL 	Λ
5	 C1708: [NO DATA] FL C1709: [NO DATA] FR C1710: [NO DATA] RR C1711: [NO DATA] RL C1716: [PRESSDATA ERR] FL 	
	 C1716. [FRESSDATA ERR] FL C1717: [PRESSDATA ERR] FR C1718: [PRESSDATA ERR] RR C1719: [PRESSDATA ERR] RL C1734: CONTROL UNIT 	
6	B2621: INSIDE ANTENNA B2622: INSIDE ANTENNA B2623: INSIDE ANTENNA	

DTC Index

INFOID:0000000006935362

NOTE:

The details of time display are as follows.

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

< ECU DIAGNOSIS INFORMATION >

[WITH ADP]

IGN counter is displayed on Freeze Frame Data. For details of Freeze Frame Data, refer to BCS-18, "COM-MON ITEM: CONSULT-III 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-38
U1010: CONTROL UNIT (CAN)	_	_	_	_	BCS-39
U0415: VEHICLE SPEED SIG	_	_	_	_	BCS-40
B2013: ID DISCORD BCM-S/L*	×	×	_	_	<u>SEC-49</u>
B2014: CHAIN OF S/L-BCM*	×	×	_	_	SEC-50
B2190: NATS ANTENNA AMP	×	_	_	_	SEC-42
B2191: DIFFERENCE OF KEY	×	_	_	_	SEC-45
B2192: ID DISCORD BCM-ECM	×	_	_	_	SEC-46
B2193: CHAIN OF BCM-ECM	×	_	_	_	SEC-47
B2195: ANTI SCANNING	×	_	_	_	SEC-48
B2553: IGNITION RELAY	_	×	_	_	PCS-50
B2555: STOP LAMP	_	×	_	_	SEC-53
B2556: PUSH-BTN IGN SW	_	×	×	_	SEC-55
B2557: VEHICLE SPEED	×	×	×		SEC-57
B2560: STARTER CONT RELAY	×	×	×		SEC-58
B2562: LOW VOLTAGE	_	×	_	_	BCS-41
B2601: SHIFT POSITION	×	×	×	_	SEC-59
B2602: SHIFT POSITION	×	×	×		SEC-62
B2603: SHIFT POSI STATUS	×	×	×	_	SEC-64
B2604: PNP SW	×	×	×	_	SEC-67
B2605: PNP SW	×	×	×		SEC-69
B2606: S/L RELAY*	×	×	×		SEC-71
B2607: S/L RELAY*	×	×	×	_	SEC-72
B2608: STARTER RELAY	×	×	×	_	SEC-74
B2609: S/L STATUS*	×	×	×	_	SEC-76
B260A: IGNITION RELAY	×	×	×	_	PCS-52
B260B: STEERING LOCK UNIT*	_	×	×	_	SEC-80
B260C: STEERING LOCK UNIT*		×	×	_	SEC-81
B260D: STEERING LOCK UNIT*	_	×	×		SEC-82
B260F: ENG STATE SIG LOST	×	×	×	_	SEC-83
B2612: S/L STATUS*	×	×	×	_	SEC-87
B2614: ACC RELAY CIRC	_	×	×	_	PCS-54
B2615: BLOWER RELAY CIRC	_	×	×	_	PCS-57
B2616: IGN RELAY CIRC	_	×	×	_	PCS-60
B2617: STARTER RELAY CIRC	×	×	×	_	SEC-91
B2618: BCM	×	×	×	_	PCS-63

< ECU DIAGNOSIS INFORMATION >

[WITH ADP]

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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
B2619: BCM*	×	×	×	_	SEC-93
B261A: PUSH-BTN IGN SW	_	×	×	_	SEC-94
B261E: VEHICLE TYPE	×	×	× (Turn ON for 15 seconds)	_	<u>SEC-97</u>
B2621: INSIDE ANTENNA	_	×		_	DLK-59
B2622: INSIDE ANTENNA	_	×		_	DLK-61
B2623: INSIDE ANTENNA	_	×	_	_	DLK-63
B26E1: ENG STATE NO RES	×	×	×	_	SEC-84
B26E9: S/L STATUS*	×	×	× (Turn ON for 15 seconds)	_	SEC-85
B26EA: KEY REGISTRATION	_	×	× (Turn ON for 15 seconds)	_	SEC-86
C1704: LOW PRESSURE FL	_	_	_	×	
C1705: LOW PRESSURE FR	_	_	_	×	<u>WT-23</u>
C1706: LOW PRESSURE RR	_	_	_	×	
C1707: LOW PRESSURE RL	_	_	_	×	
C1708: [NO DATA] FL	_	_	_	×	<u>WT-25</u>
C1709: [NO DATA] FR	_	_	_	×	
C1710: [NO DATA] RR	_	_	_	×	
C1711: [NO DATA] RL			_	×	
C1716: [PRESSDATA ERR] FL	_	_	_	×	WT-28
C1717: [PRESSDATA ERR] FR	_	_	_	×	
C1718: [PRESSDATA ERR] RR	_	_	_	×	
C1719: [PRESSDATA ERR] RL	_		_	×	
C1729: VHCL SPEED SIG ERR	_		_	×	WT-30
C1734: CONTROL UNIT	_	_	_	×	WT-32

^{*:} For models without steering lock unit, this DTC is not applied.

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[WITH ADP]

SYMPTOM DIAGNOSIS

DOOR MIRROR DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000006346094

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-12, "AUTOMATIC DRIVE POSITIONER SYSTEM</u>: System Diagram"

2.check door mirror remote control switch (mirror switch)

Check mirror switch.

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

Is the inspection result normal?

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-42, "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:0000000006346095 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-42, "Intermittent Incident". NO >> GO TO 1. Н K

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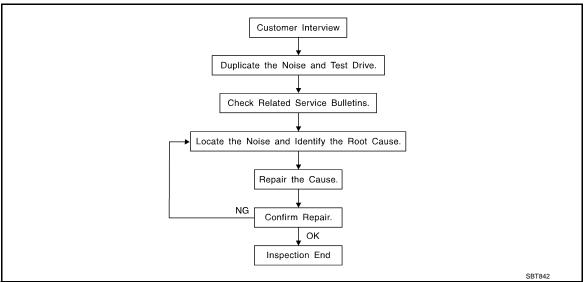
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[WITH ADP]

SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow



CUSTOMER INTERVIEW

Interview the customer if possible, to determine the conditions that exist when the noise occurs. Use the Diagnostic Worksheet during the interview to document the facts and conditions when the noise occurs and any of customer's comments; refer to MIR-110, "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
 - 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.

SQUEAK AND RATTLE TROUBLE DIAGNOSES

[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-108, "Inspection Procedure".

REPAIR THE CAUSE

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

CAUTION:

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

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

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

URETHANE PADS [1.5 mm (0.059 in) thick]

Insulates connectors, harness, etc.

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

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

INSULATOR (Foam blocks)

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

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

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

INSULATOR (Light foam block)

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

FELT CLOTHTAPE

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

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

UHMW (TEFLON) TAPE

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

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SQUEAK AND RATTLE TROUBLE DIAGNOSES

< 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:0000000006346097

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

INSTRUMENT PANEL

Most incidents are caused by contact and movement between:

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

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

CAUTION:

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

CENTER CONSOLE

Components to pay attention to include:

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

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

DOORS

Pay attention to the:

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

Tapping or moving the components or pressing on them while driving to duplicate the conditions can isolate many of these incidents. You can usually insulate the areas with felt cloth tape or insulator foam blocks from the Nissan Squeak and Rattle Kit (J-43980) to repair the noise.

TRUNK

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

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

< SYMPTOM DIAGNOSIS >

[WITH ADP]

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

SUNROOF/HEADLINING

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

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

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

SEATS

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

Cause of seat noise include:

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

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

UNDERHOOD

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

Causes of transmitted underhood noise include:

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

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

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Diagnostic Worksheet

INFOID:0000000006346098



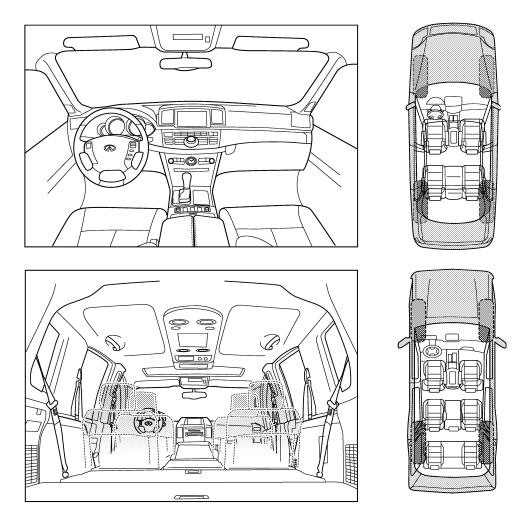
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

Dear Infiniti Customer:

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

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

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



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

< SYMPTOM DIAGNOSIS >

[WITH ADP]

II. WHEN DOES IT OCCUR? (please cl	heck the boxes that apply)	
anytime	after sitting out in the rain	
1st time in the morning	when it is raining or wet	
only when it is cold outside	dry or dusty conditions	
only when it is hot outside	other:	
III. WHEN DRIVING:	IV. WHAT TYPE OF NOISE	
through driveways	squeak (like tennis shoes on a clean floor)	
over rough roads	creak (like walking on an old wooden floor)	
over speed bumps	rattle (like shaking a baby rattle)	
only about mph	knock (like a knock at the door)	
on acceleration	tick (like a clock second hand)	
☐ coming to a stop☐ on turns: left, right or either (circle)	☐ thump (heavy, muffled knock noise)☐ buzz (like a bumble bee)	
☐ with passengers or cargo	Duzz (like a bullible bee)	
other:		
☐ after driving miles or m	- ninutes	
TO DE COMBI ETED DV DEM EDOU	D DEDOCUME!	
	PPERSONNEL	
	PPERSONNEL	
	P PERSONNEL	
	PPERSONNEL	
	YES NO Initials of person performing	
Test Drive Notes:	YES NO Initials of person	
Test Drive Notes:	YES NO Initials of person	
Test Drive Notes: Vehicle test driven with customer	YES NO Initials of person	
Vehicle test driven with customer - Noise verified on test drive	YES NO Initials of person performing	
Vehicle test driven with customer - Noise verified on test drive - Noise source located and repaired - Follow up test drive performed to confi	YES NO Initials of person performing U U U U U U U U U U U U U U U U U U U	
Vehicle test driven with customer - Noise verified on test drive - Noise source located and repaired - Follow up test drive performed to confi	YES NO Initials of person performing	
Vehicle test driven with customer - Noise verified on test drive - Noise source located and repaired - Follow up test drive performed to confi	YES NO Initials of person performing	
- Noise source located and repaired - Follow up test drive performed to confi VIN:	YES NO Initials of person performing	

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PRECAUTIONS

< PRECAUTION > [WITH ADP]

PRECAUTION

PRECAUTIONS

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

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

WARNING:

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.

PREPARATION

< PREPARATION > [WITH ADP]

PREPARATION

PREPARATION

Commercial Service Tools

Tool name		Description
Remover tool	PIIB7923J	Remove the clip and pawl and metal clip

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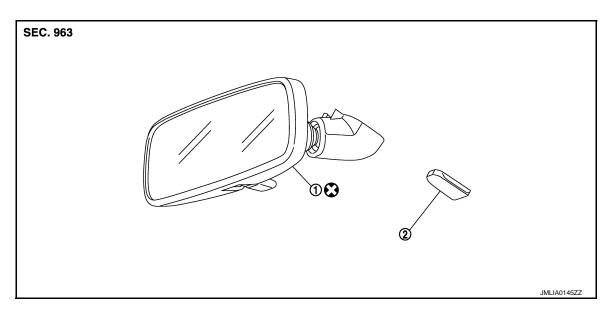
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REMOVAL AND INSTALLATION

INSIDE MIRROR

Exploded View INFOID:0000000006346101

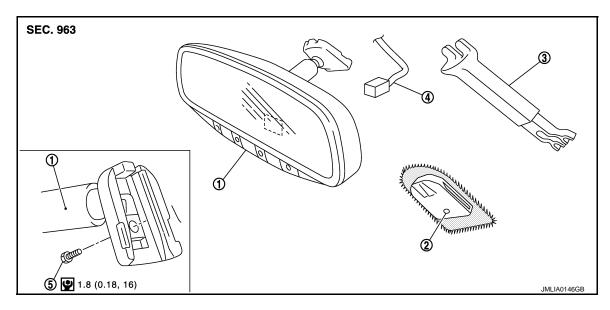
Base



- 1. Inside mirror
- 2. Mirror base

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

Option



- 1. Inside mirror
- 2. Mirror base
- 5. TORX bolt

3. Inside mirror cover

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

Removal and Installation

4. Harness connector

INFOID:0000000006346102

REMOVAL

Base model

INSIDE MIRROR

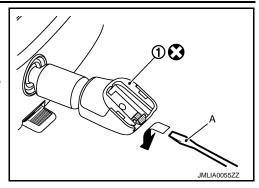
< REMOVAL AND INSTALLATION >

[WITH ADP]

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

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.
- 3. 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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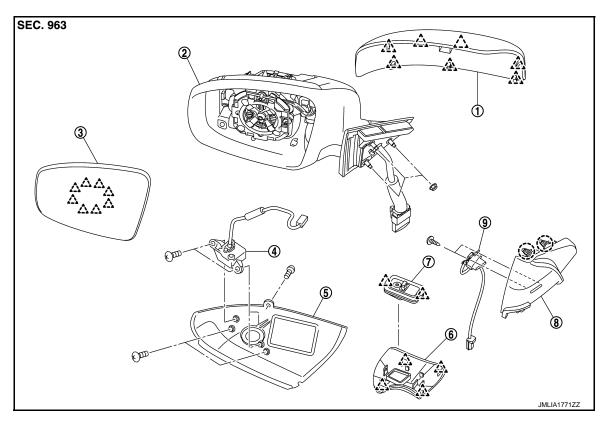
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OUTSIDE MIRROR

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

REMOVAL

- 1. Remove front door finisher.
 - Driver side: Refer to INT-12, "DRIVER SIDE: Removal and Installation".
 - Passenger side: Refer to <u>INT-15</u>, "PASSENGER SIDE: Removal and Installation".
- 2. Disconnect BSW indicator harness connector. (if equipped)
- Remove door corner cover fixing clips and remove door corner cover.
- 4. Disconnect door mirror harness connector.
- 5. Remove mounting nuts, and then remove door mirror assembly.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

Perform camera image calibration. Refer to <u>AV-425, "CALIBRATING CAMERA IMAGE (AROUND VIEW MONITOR)</u>: Work Procedure".

[WITH ADP]

DOOR MIRROR ASSEMBLY: Disassembly and Assembly

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DISASSEMBLY

- Remove door mirror cover. Refer to <u>MIR-117</u>, "<u>DOOR MIRROR COVER</u>: <u>Removal and Installation</u>".
- 2. Remove side camera after removing door mirror assembly.(BOSE audio with navigation model)
 - Side camera LH: Refer to <u>AV-533</u>, "Removal and Installation".
 - Side camera RH: Refer to AV-534, "Removal and Installation".
- 3. Remove base cover and puddle lamp.

ASSEMBLY

Assemble in the reverse order of disassemble.

GLASS MIRROR

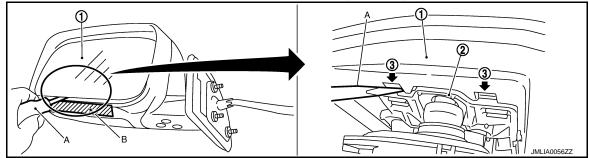
GLASS MIRROR: Removal and Installation

INFOID:0000000006346107

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: Removal and Installation

INFOID:0000000006346109

CAUTION:

Do not damage the mirror bodies.

DISASSEMBLY

- Remove the glass mirror. Refer to MIR-117, "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.

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DOOR MIRROR REMOTE CONTROL SWITCH

< REMOVAL AND INSTALLATION >

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DOOR MIRROR REMOTE CONTROL SWITCH

Exploded View

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

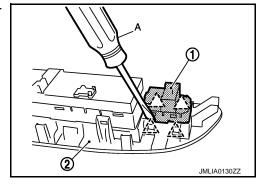
Removal and Installation

INFOID:0000000006346111

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 flat-bladed screwdriver (A).





INSTALLATION

Install in the reverse order of removal.

DOOR MIRROR SYSTEM

< SYSTEM DESCRIPTION >

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SYSTEM DESCRIPTION

DOOR MIRROR SYSTEM

Component Description

INFOID:0000000006346112	

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

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INSIDE MIRROR SYSTEM

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INSIDE MIRROR SYSTEM

System Description

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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:0000000006346114

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.

DTC/CIRCUIT DIAGNOSIS

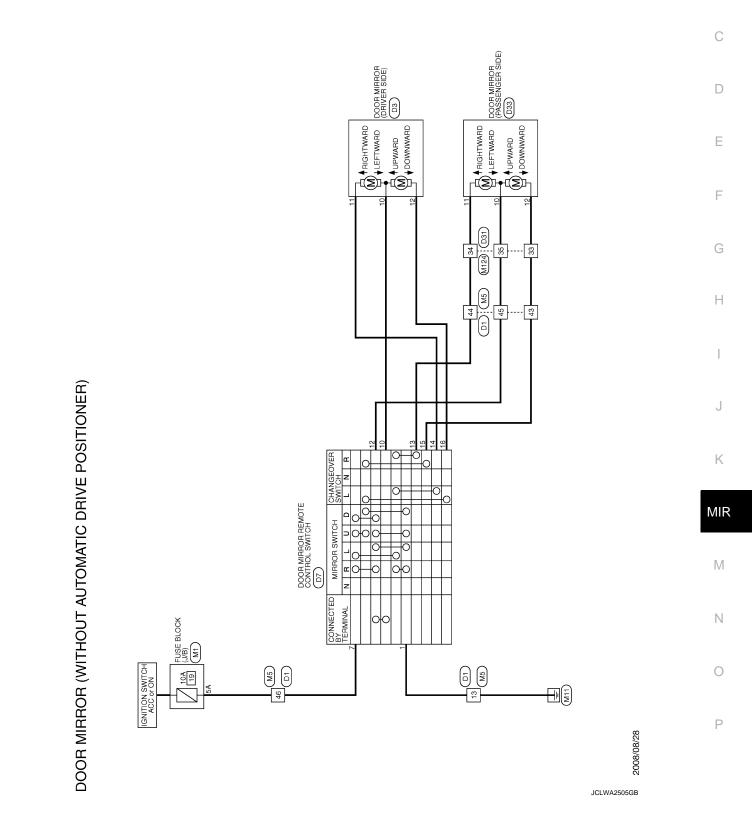
DOOR MIRROR SYSTEM

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

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DOOR MIRROR SYSTEM

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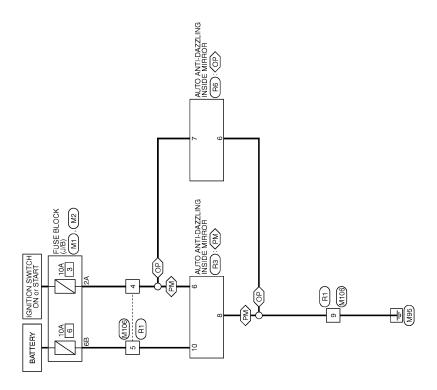
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AUTO ANTI-DAZZLING INSIDE MIRROR SYSTEM

Wiring Diagram - INSIDE MIRROR SYSTEM -

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INSIDE MIRROR

91/20/600Z JCLWA3671GB

AUTO ANTI-DAZZLING INSIDE MIRROR SYSTEM

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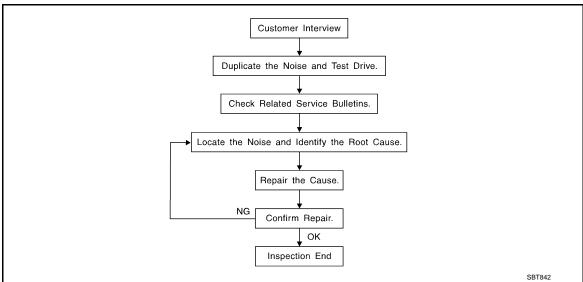
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Revision: 2011 October MIR-125 2011 EX

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-130. "Diagnostic Worksheet". This information is necessary to duplicate the conditions that exist when the noise occurs.

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

DUPLICATE THE NOISE AND TEST DRIVE

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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.
- 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
- placing a piece of paper between components that you suspect are causing the noise.
- looking for loose components and contact marks. Refer to MIR-128, "Inspection Procedure".

REPAIR THE CAUSE

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

CAUTION:

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

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

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

URETHANE PADS [1.5 mm (0.059 in) thick]

Insulates connectors, harness, etc.

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

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

INSULATOR (Foam blocks)

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

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

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

INSULATOR (Light foam block)

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

FELT CLOTHTAPE

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

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68370-4B000: 15 imes 25 mm (0.59 imes 0.98 in) pad/68239-13E00: 5 mm (0.20 in) wide tape roll The following materials, not found in the kit, can also be used to repair squeaks and rattles.

UHMW (TEFLON) TAPE

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

SILICONE GREASE

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

SILICONE SPRAY

Use when grease cannot be applied.

DUCT TAPE

Use to eliminate movement.

CONFIRM THE REPAIR

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

Inspection Procedure

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

INSTRUMENT PANEL

Most incidents are caused by contact and movement between:

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

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

CAUTION:

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

CENTER CONSOLE

Components to pay attention to include:

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

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

DOORS

Pay attention to the:

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

Tapping or moving the components or pressing on them while driving to duplicate the conditions can isolate many of these incidents. You can usually insulate the areas with felt cloth tape or insulator foam blocks from the Nissan Squeak and Rattle Kit (J-43980) to repair the noise.

TRUNK

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

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

[WITHOUT ADP] < SYMPTOM DIAGNOSIS > The trunk lid torsion bars knocking together A loose license plate or bracket Most of these incidents can be repaired by adjusting, securing or insulating the item(s) or component(s) causing the noise.

SUNROOF/HEADLINING

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

- Sunroof lid, rail, linkage or seals making a rattle or light knockingnoise
- Sunvisor shaft shaking in the holder
- 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 consistof insulating with felt cloth tape.

SEATS

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

Cause of seat noise include:

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

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

UNDERHOOD

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

Causes of transmitted underhood noise include:

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

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

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Diagnostic Worksheet

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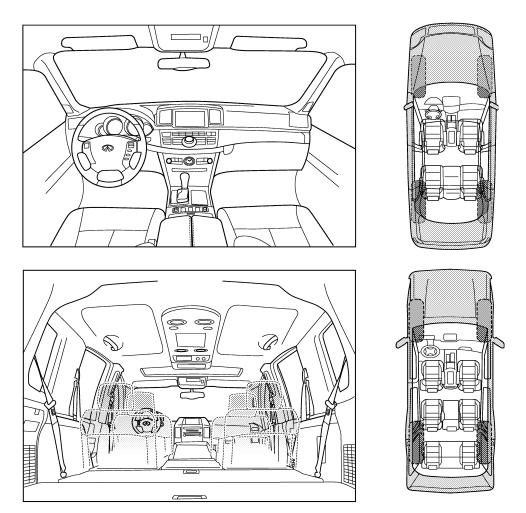
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

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.

< SYMPTOM DIAGNOSIS >

[WITHOUT ADP]

II. WHEN DOES IT OCCUR? (plea	se 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☐ only when it is hot outside	☐ dry or dusty conditions☐ other:	
_ only when it is not outside	Outer.	
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 ☐ on acceleration	knock (like a knock at the door)tick (like a clock second hand)	
coming to a stop	thump (heavy, muffled knock noise)	
on turns: left, right or either (circl	le)	
with passengers or cargo		
☐ other: miles or	minutos	
	RSHIP PERSONNEL	
	RSHIP PERSONNEL	
	RSHIP PERSONNEL	
TO BE COMPLETED BY DEALER Test Drive Notes:	YES NO Initials of person performing	
	YES NO Initials of person	
Test Drive Notes:	YES NO Initials of person	
Vehicle test driven with customer - Noise verified on test drive - Noise source located and repaire	YES NO Initials of person performing	
Vehicle test driven with customer - Noise verified on test drive	YES NO Initials of person performing	
Vehicle test driven with customer - Noise verified on test drive - Noise source located and repaire - Follow up test drive performed to	YES NO Initials of person performing	
Vehicle test driven with customer - Noise verified on test drive - Noise source located and repaire	YES NO Initials of person performing	
Vehicle test driven with customer - Noise verified on test drive - Noise source located and repaire - Follow up test drive performed to	YES NO Initials of person performing	

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PRECAUTIONS

< PRECAUTION > [WITHOUT ADP]

PRECAUTION

PRECAUTIONS

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

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

WARNING:

Always observe the following items for preventing accidental activation.

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

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

WARNING:

Always observe the following items for preventing accidental activation.

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

PREPARATION

< PREPARATION > [WITHOUT ADP]

PREPARATION

PREPARATION

Commercial Service Tools

Tool name		Description
Remover tool	PIIB7923J	Remove the clip and pawl and metal clip

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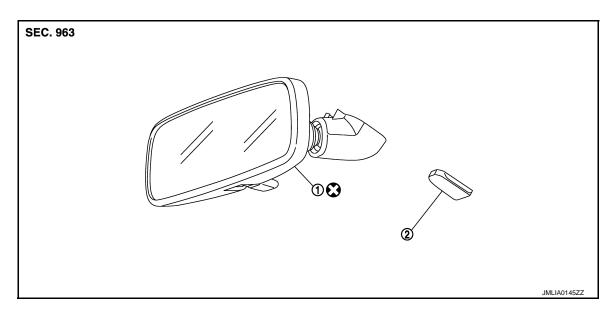
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REMOVAL AND INSTALLATION

INSIDE MIRROR

Exploded View

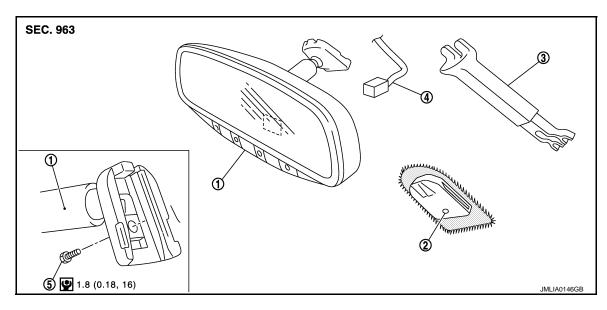
Base



- 1. Inside mirror
- 2. Mirror base

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

Option



- 1. Inside mirror
- 2. Mirror base
- 5. TORX bolt

3. Inside mirror cover

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

Removal and Installation

4. Harness connector

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REMOVAL

Base model

INSIDE MIRROR

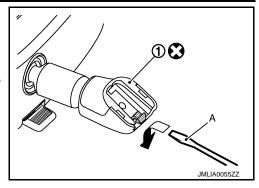
< REMOVAL AND INSTALLATION >

[WITHOUT ADP]

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

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.
- 3. 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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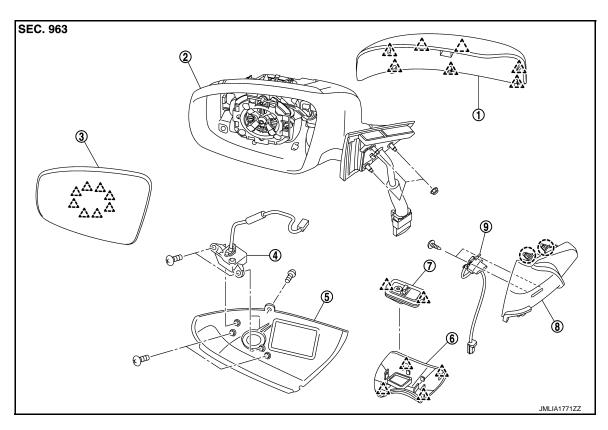
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OUTSIDE MIRROR

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

REMOVAL

- 1. Remove front door finisher.
 - Driver side: Refer to INT-12, "DRIVER SIDE: Removal and Installation".
 - Passenger side: Refer to <u>INT-15</u>, "<u>PASSENGER SIDE</u>: 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-425, "CALIBRATING CAMERA IMAGE (AROUND VIEW MONITOR)</u>: Work Procedure".

DOOR MIRROR ASSEMBLY: Disassembly and Assembly

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DISASSEMBLY

- Remove door mirror cover. Refer to MIR-137, "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-533</u>, "Removal and Installation".
 - Side camera RH: Refer to AV-534, "Removal and Installation"
- Remove base cover and puddle lamp.

ASSEMBLY

Assemble in the reverse order of disassemble.

GLASS MIRROR

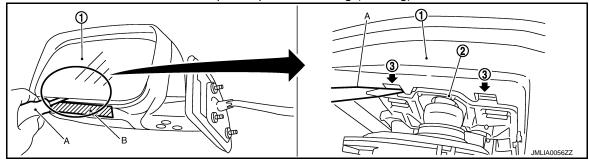
GLASS MIRROR: Disassembly and Assembly

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DISASSEMBLY

- Place the glass mirror upward.
- Put a strip of protective tape (B) on housing assembly.
- 3. 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.



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

NOTE:

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

ASSEMBLY

Assemble in the reverse order of disassemble.

CAUTION:

After installation, visually check that pawls are securely engaged.

DOOR MIRROR COVER

DOOR MIRROR COVER: Disassembly and Assembly

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CAUTION:

Do not damage the mirror bodies.

DISASSEMBLY

- Remove the glass mirror. Refer to MIR-137, "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

< REMOVAL AND INSTALLATION >

[WITHOUT ADP]

DOOR MIRROR REMOTE CONTROL SWITCH

Exploded View

Refer to INT-18, "Exploded View"

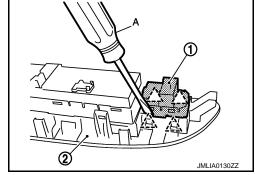
Removal and Installation

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REMOVAL

- 1. Remove the power window main switch finisher. Refer to INT-12, "DRIVER SIDE: Exploded View".
- 2. Remove door mirror remote control switch (1) from power window main switch finisher (2) using flat-bladed screwdriver (A).





INSTALLATION

Install in the reverse order of removal.