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DIAGNOSIS AND REPAIR WORKFLOW

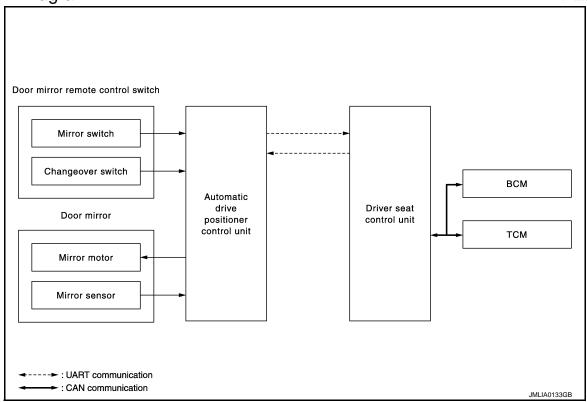
[WITH ADP] < BASIC INSPECTION > **BASIC INSPECTION** Α DIAGNOSIS AND REPAIR WORKFLOW Work Flow INFOID:0000000005173957 **DETAILED FLOW** 1. OBTAIN INFORMATION ABOUT SYMPTOM Interview the customer to obtain the malfunction information (conditions and environment when the malfunction occurred) as much 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:0000000005173958



System Description

INFOID:0000000005173959

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 1. Apply the parking brake. Е Push the ignition switch to the ON position. (Do not start the engine.) 3. Push the memory switch 1 or 2 fully for at least 1 second to operate the automatic drive positioner. Turn the door mirror control switch (changeover switch) to L (left). F Depress the brake pedal. Move the A/T shift selector to R position (reverse). 7. Adjust the mirror to the desired viewing position for backing up by operating the door mirror control switch (mirror switch). 8. Push the SET switch and, within 5 seconds, push the memory switch 1 or 2 selected in step 3 fully for at Н least 1 second. The indicator light for the pushed memory switch will come on and stay pushing the switch. After the indicator light goes off, the selected mirror position is stored in the selected memory (1 or 2). 9. Turn the door mirror control switch (changeover switch) to R (right). Repeat the above procedure to adjust the right mirror position and store in the selected memory.

AUTOMATIC DRIVE POSITIONER SYSTEM LINKED OPERATION

Description

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

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

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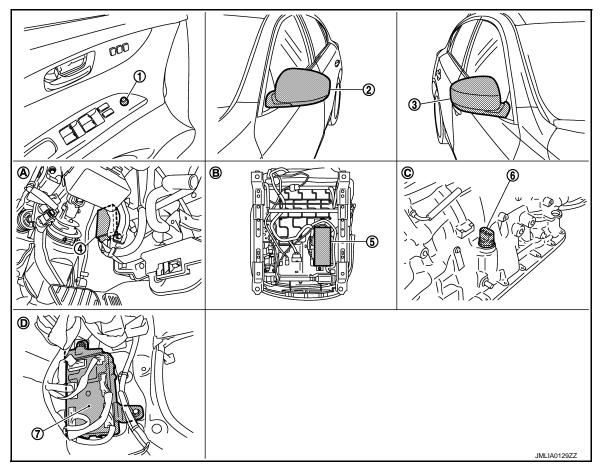
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MIR-5 2010 EX35 Revision: 2009 August

Component Parts Location

INFOID:0000000005173960



- 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:0000000005173961

Component		Function
Automatic drive positioner co	ontrol unit	Door mirror is supplied with power after receiving the input of the MIRROR SWITCH and CHANGEOVER SWITCH.
Door mirror remote control switch Changeover switch	It transmits mirror face adjust operation to AUTOMATIC DRIVE POSITIONER CONTROL UNIT.	
	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.	
TCM	The A/T shift position signal is transmitted to driver seat control unit via CAN communication.	

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INSIDE MIRROR SYSTEM

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[WITH ADP]

INSIDE MIRROR SYSTEM

System Description

INFOID:0000000005173962

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:0000000005173963

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

INFOID:0000000005173964

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

DIAGNOSTIC MODE

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

CONSULT-III Function

INFOID:0000000005173965

SELF-DIAGNOSIS RESULTS Refer to <u>ADP-144, "DTC_Index"</u>.

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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Revision: 2009 August MIR-9 2010 EX35

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
SEAT SLIDE VOLUME SET		40 mm
	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 TIET SETTING	ON (operated) – OFF (not operated)	OFF
EXIT SEAT SLIDE SETTING	Entry/exit assist (seat) can be selected:	ON
EXIT SEAT SLIDE SETTING	ON (operated) – OFF (not operated)	OFF

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DOOR MIRROR REMOTE CONTROL SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH ADP]

DTC/CIRCUIT DIAGNOSIS

DOOR MIRROR REMOTE CONTROL SWITCH MIRROR SWITCH

MIRROR SWITCH: Description

INFOID:0000000005173966

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:0000000005173967

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:0000000005173968

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		(/ .pp. 0/)
	4	Ground	Ground 5
D17	12		
ווט	13		
	15		

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK MIRROR SWITCH CIRCUIT

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

DOOR MIRROR REMOTE CONTROL SWITCH

< DTC/CIRCUIT DIAGNOSIS >

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Automatic drive p	ositioner control unit	Door mirror remote control switch		Continuity
Connector	Terminal	Connector Terminal		Continuity
M51	3	D17	15	
	4		13	Existed
	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-119, "Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-37, "Intermittent Incident".

>> INSPECTION END

MIRROR SWITCH: Component Inspection

1. CHECK MIRROR SWITCH

Turn ignition switch OFF.

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- 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		Continuity
	4			RIGHT	Existed
	7			Other than above	Not existed
	13			LEFT	Existed
D17		7 Mirro	Mirror switch	Other than above	Not existed
DII			WIIITOI SWILCII	UP	Existed
	15			Other than above	Not existed
	12			DOWN	Existed
	12			Other than above	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace door mirror remote control switch. Refer to MIR-119, "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

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INFOID:0000000005173970

1. CHECK CHANGEOVER SWITCH FUNCTION

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

Monitor item	Condition	
MIR CHNG SW-R/L	When operating the changeover toward the right or left side.	: ON
WIII GI ING 3W-N/L	Other than above.	: OFF

Is the inspection result normal?

YES >> Changeover switch function is OK.

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

CHANGEOVER SWITCH: Diagnosis Procedure

INFOID:0000000005173972

1. CHECK CHANGEOVER SWITCH INPUT SIGNAL

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

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK CHANGEOVER SWITCH CIRCUIT

DOOR MIRROR REMOTE CONTROL SWITCH

< DTC/CIRCUIT DIAGNOSIS >

1	Turn	ignition	ewitch	OFF
	. rum	lanillon	SWILCH	UFF.

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

Automatic drive p	Automatic drive positioner control unit		ote control switch	Continuity
Connector	Terminal	Connector Terminal		Continuity
M51	2	D17	11	Existed
IVIO	18	DII	10	LAISIEU

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

Automatic drive po	sitioner control unit		Continuity
Connector	Terminal	Ground	Continuity
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 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 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-119, "Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-37, "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	Con	dition	Continuity
Connector	Terr	minal	Con	uition	Continuity
	10			LEFT	Existed
D17	10	7	Changeaver awitch	Other than above	Not existed
DIT	11	,	Changeover switch	RIGHT	Existed
	11			Other than above	Not existed

Is the inspection result normal?

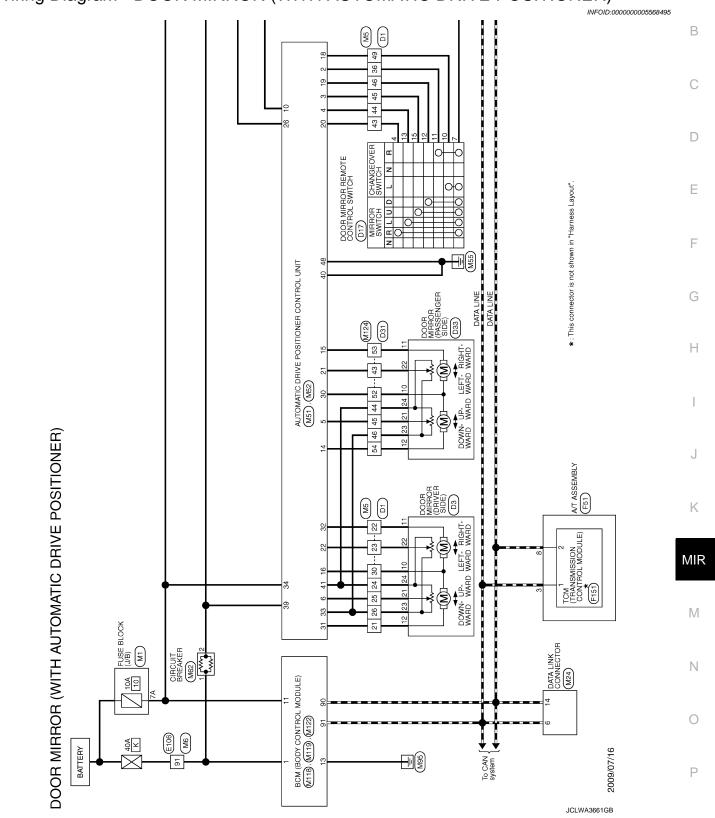
YES >> INSPECTION END

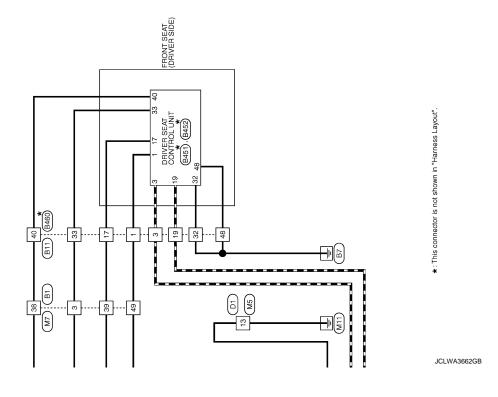
NO >> Replace door mirror remote control switch. Refer to MIR-119, "Removal and Installation".

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DOOR MIRROR SYSTEM

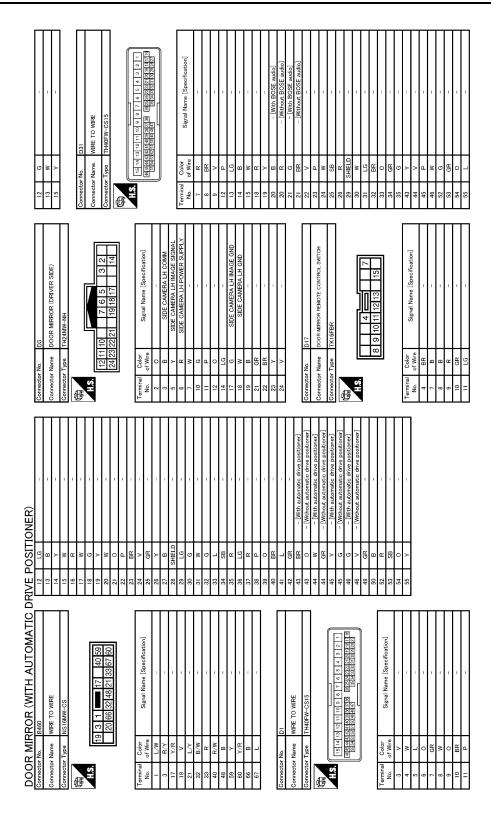
Wiring Diagram - DOOR MIRROR (WITH AUTOMATIC DRIVE POSITIONER) -





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STATE POSITIONER) 10	Connector No. B462	A B C C
Connector Name Mire To Wife Connector Name Mire To Wife Connector Name Connecto	R CAN-H CAN-H	F G H
	6.4 G R C C C C C C C C C C C C C C C C C C	J K
	Signal Name (Specification)	MI N
		(S3GB



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DOOR MIRROR SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

[WITH ADP]

			-	-	-	-	1	1				ONTROL MODULE)							1301	J				Signal Name [Specification]		ANH	AN-L	SENS2-	VIGN	SENS2+	LINE	REV LAMP RLY	RT RLY	Y SUPPLY-1	Y SUPPLY-2																															A B		
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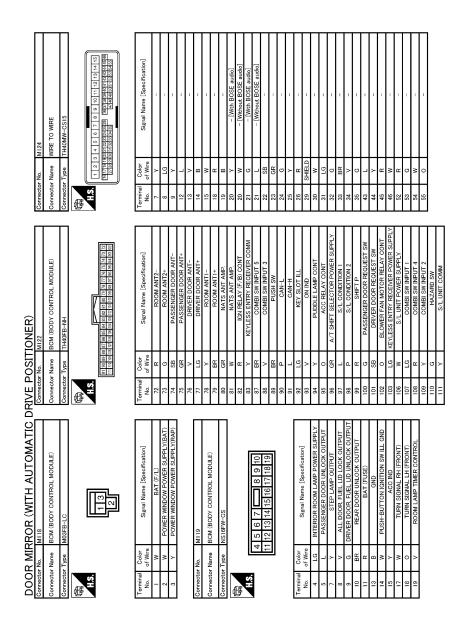
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JCLWA3668GB

AUTO ANTI-DAZZLING INSIDE MIRROR SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

[WITH ADP]

AUTO ANTI-DAZZLING INSIDE MIRROR SYSTEM

Wiring Diagram - INSIDE MIRROR SYSTEM -

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⟨PM⟩: With automatic drive positioner
⟨OP⟩: Without automatic drive positioner

BATTERY IGNITION SWITCH

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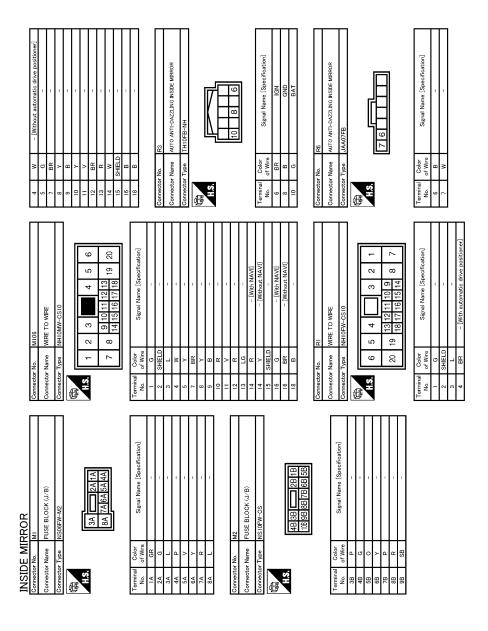
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INSIDE MIRROR

2009/07/16

JCLWA3671GB

Revision: 2009 August



JCLWA3672GB

DRIVER SEAT CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[WITH ADP]

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ECU DIAGNOSIS INFORMATION

DRIVER SEAT CONTROL UNIT

Reference Value

VALUES ON THE DIAGNOSIS TOOL

CONSULT-III MONITOR ITEM

Monitor Item	Condit	ion	Value/Status
SET SW	Set switch	Push	ON
OLI OVV	Set Switch	Release	OFF
MEMORY CWA	Mamanu avvitala 1	Push	ON
MEMORY SW1	Memory switch 1	Release	OFF
MEMORY SW2	Memory switch 2	Push	ON
WEWORT SW2	Memory Switch 2	Release	OFF
SLIDE SW-FR	Sliding switch (front)	Operate	ON
SLIDE SW-FK	Sliding Switch (front)	Release	OFF
SLIDE SW-RR	Sliding switch (roor)	Operate	ON
SLIDE SW-KK	Sliding switch (rear)	Release	OFF
DECLN SW ED	Poolining switch (front)	Operate	ON
RECLN SW-FR	Reclining switch (front)	Release	OFF
RECLN SW-RR	Paclining switch (rear)	Operate	ON
NLOLIN SW-KK	Reclining switch (rear)	Release	OFF
LIFT FR SW-UP	Lifting switch front (up)	Operate	ON
LII I I I I SW-OF	Litting Switch Horit (up)	Release	OFF
LIFT FR SW-DN	Lifting switch front (down)	Operate	ON
LII I I I I SW-DIN	Litting Switch Horit (down)	Release	OFF
LIFT RR SW-UP	Lifting switch rear (up)	Operate	ON
LII I TATA OVV OI	Enting Switch roai (up)	Release	OFF
LIFT RR SW-DN	Lifting switch rear (down)	Operate	ON
EN T THE OW BIT	Enting Switch roal (down)	Release	OFF
MIR CON SW-UP	Mirror switch	Up	ON
WIII CON ON OI	Will of Switch	Other than above	OFF
MIR CON SW-DN	Mirror switch	Down	ON
WIII CON OW BIN	WIIITOI SWITCH	Other than above	OFF
MIR CON SW-RH	Mirror switch	Right	ON
3311 311 1411		Other than above	OFF
MIR CON SW-LH	Mirror switch	Left	ON
	WILLIAM CONTROL	Other than above	OFF
MIR CHNG SW-R	Changeover switch	Right	ON
OI II O OW-IC	OnlingCover Switch	Other than above	OFF
MIR CHNG SW-L	Changeover switch	Left	ON
01110 011 1	Shangoover switch	Other than above	OFF
TILT SW-UP	Tilt switch	Up	ON
	THE OWNOR	Other than above	OFF
TILT SW-DOWN	Tilt switch	Down	ON
I.L. OW DOWN	THE OWNOR	Other than above	OFF

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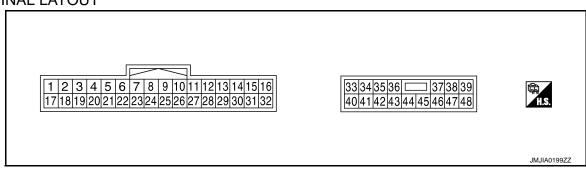
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< ECU DIAGNOSIS INFORMATION >

Monitor Item	Co	ondition	Value/Status
TELECCO CW ED	Talagagaig gwitah	Forward	ON
TELESCO SW-FR	Telescopic switch	Other than above	OFF
TELESCO SW-RR	Tilt switch	Backward	ON
TELESCO SW-RK	THE SWILCH	Other than above	OFF
DETENT SW	AT selector lever	P position	OFF
DETENT SW	Al Selector level	Other than above	ON
STARTER SW	Ignition position	Cranking	ON
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	side)	Change between 3.4 (close to peak) 0.6 (close to valley)
MIR/SEN RH R-L	Door mirror (passenger	rside)	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

DRIVER SEAT CONTROL UNIT

[WITH ADP]

Term	ninal No.	Wire	Description				Voltage (V)
+	-	color	Signal name	Input/ Output	Condition	1	(Approx)
1	Ground	L/W	UART communication (RX)	Input	Ignition switch ON		2mSec/div = = 2V/div JMJIA0118ZZ
3	_	R/Y	CAN-H	_	_		_
9	Ground	W/G	Reclining sensor sig- nal	Input	Seat reclining	Operate	10mSec/div 2V/div JMJIA0119ZZ
						Stop	0 or 5
10	Ground	P/B	Lifting sensor (rear) signal	Input	Seat lifting (rear)	Operate	10mSec/div
						Stop	0 or 5
11	Ground	BR	Sliding switch back- ward signal	Input	Sliding switch	Operate (back- ward)	0
						Release	Battery voltage
12	Ground	SB	Reclining switch back- ward signal	Input	Reclining switch	Operate (back- ward)	0
						Release	Battery voltage
13	Ground	LG/R	Lifting switch (front) down signal	Input	Lifting switch (front)	Operate (down) Release	0 Battery voltage
14	Ground	G/B	Lifting switch (rear) down signal	Input	Lifting switch (rear)	Operate (down)	0
						Release	Battery voltage
16	Ground	0	Sensor power supply	Output	-		5
17	Ground	Y/R	UART communication (TX)	Output	Ignition switch ON		10mSec/div
19	_	V	CAN-L	_	_		_

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< ECU DIAGNOSIS INFORMATION >

Term	ninal No.		Description				
+	-	Wire color	Signal name	Input/ Output	Condition	า	Voltage (V) (Approx)
						P position	0
21	Ground	L/Y	Detention switch	Input	A/T selector lever	Except P position	20mSec/div
24	Ground	R	Sliding sensor signal	Input	Seat sliding	Operate Stop	10mSec/div 2V/div JMJIA0119ZZ
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
			9			Release	Battery voltage
27	Ground	R/G	Reclining switch forward signal	Input	Reclining switch	Operate (forward)	0
						Release	Battery voltage
28	Ground	W/B	Lifting switch (front) up signal	Input	Seat lifting switch (front)	Operate (up)	0
			J		· - 7	Release	Battery voltage
29	Ground	P/L	Lifting switch (rear) up signal	Input	Seat lifting switch (rear)	Operate (up)	0
			o.g.r.a.		(roar)	Release	Battery voltage
31	Ground	GR	Sensor ground	_	_		0
32	Ground	B/W	Ground (signal)	_	_		0
33	Ground	R	Power source (C/B)	Input	_	1	Battery voltage
35	Ground	W/R	Sliding motor forward output signal	Output	Seat sliding	Operate (forward)	Battery voltage
						Release	0
36	Ground	G/Y	Reclining motor for- ward output signal	Output	Seat reclining	Operate (forward)	Battery voltage
						Release	0

DRIVER SEAT CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

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Term	ninal No.	Wire	Description				Voltage (V)
+	-	color	Signal name	Input/ Output	Condition	า	(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

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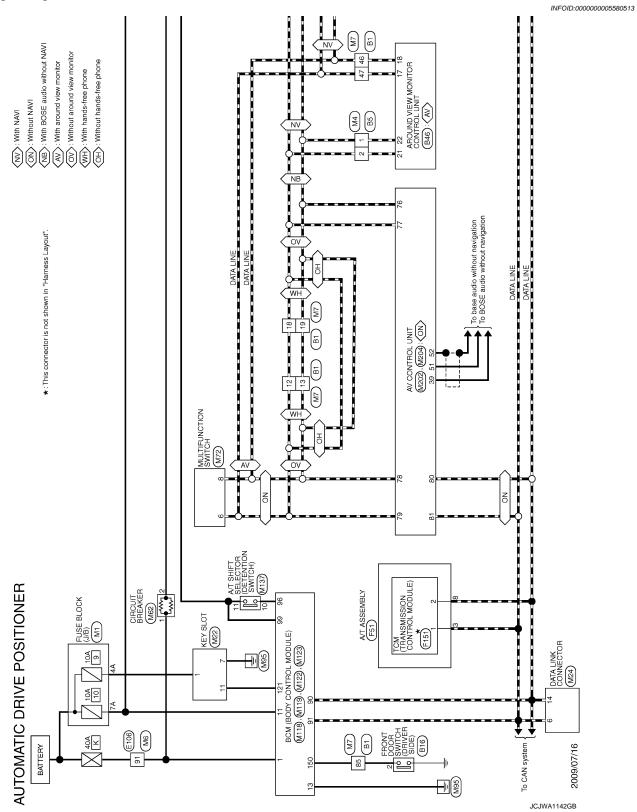
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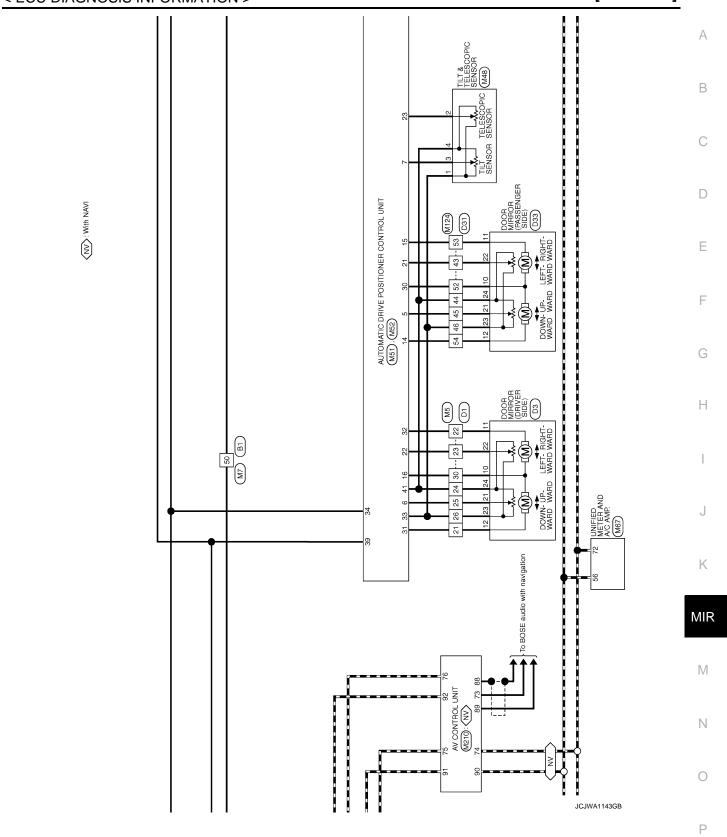
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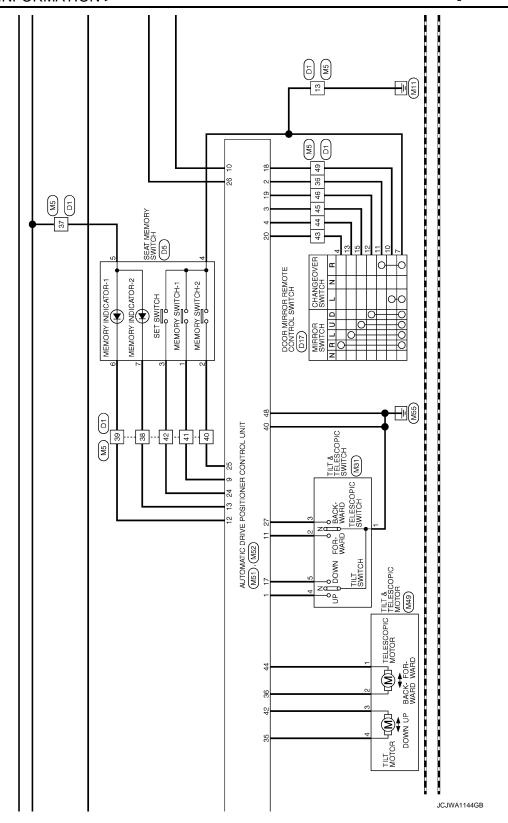
Wiring Diagram - AUTOMATIC DRIVE POSITIONER CONTROL SYSTEM -

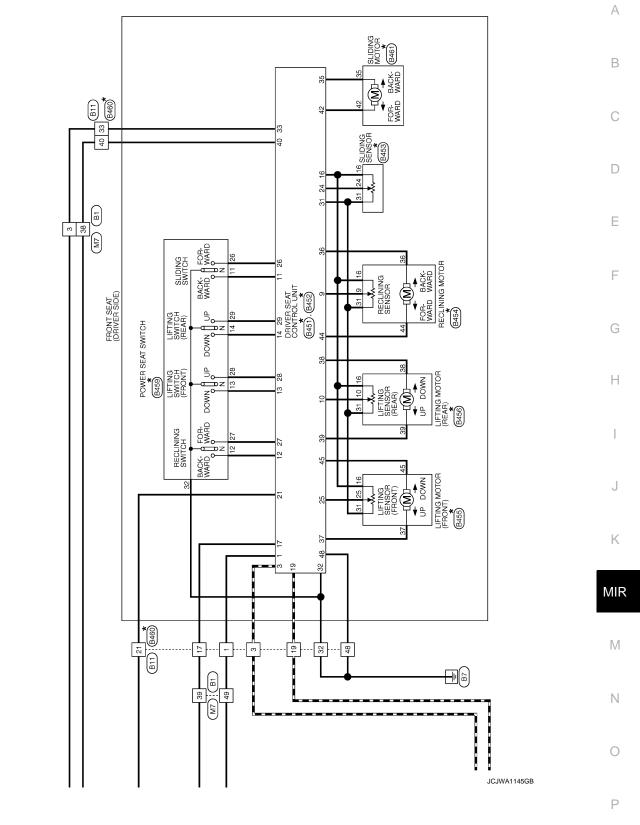


DRIVER SEAT CONTROL UNIT

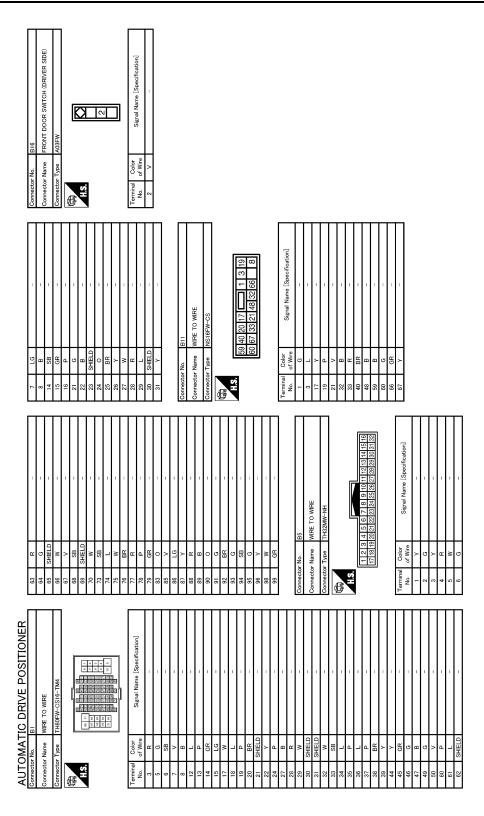
[WITH ADP]







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



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DRIVER SEAT CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

NISOBEN-CS Signal Name [Specification] Signal Name [Specific	A B C
Connector Name Color Name Col	D
(FORWARD) (FORWARD) (R (UPWMARD) (B (CACKWARD) (B) (B) (B) (B) (B) (B) (B) (B) (B) (B	Е
REAL LITING MOTOR (FORWARD) REAR LITING MOTOR (LOWARD) REAR LITING MOTOR (LOWARD) REAR LITING MOTOR (BACKWARD) REAR LITING MOTOR (BACKWARD) REAL MOTOR (BACKWARD) REAL MOTOR (BACKWARD) RECLINING MOTOR (LOWARD) RECLINING MOTOR (LOWARD) RECLINING SENSOR RECLINING SENSOR Signal Name [Specification] Signal Name [Specification] Signal Name [Specification] Signal Name [Specification] Signal Name [Specification] Signal Name [Specification] Signal Name [Specification] Signal Name [Specification]	F
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PRIVER SEAT CONTROL UNIT TH829FW	l J
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AUTOMATIC DRIVE POSITIONER							ı
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Connector Name DOWER SEAT SWITCH	Connector Name SI IDING MOTOR	24	>	_	9	R SIDE CAMERA LH POWER SUPPLY	1
		25	GR	-	7	- M	
Connector Type NS10FW-CS	Connector Type 6098-0239	26	Υ	_	10	- 9	
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SB	42 W/B =	38	1	1		ſ	ſ
+		39	0	1	Connector No.	D5	_
14 G/B –		40	R		Connector Name	Me SEAT MEMORY SWITCH	
26 Y –	Connector No. D1	41	L	_			
R/G	Connector Name MIRE TO WIRE	45	GR	_	Connector Type	be A08FW	_
Н		43	BR	 [With automatic drive positioner] 	ą		
29 P/L -	Connector Type TH40FW-CS15	43	0	 [Without automatic drive positioner] 	图		
H	¢	44	W	- [With automatic drive positioner]	<u> </u>		
l	修	44	æ	- [Without automatic drive positioner]			
		45	>	- [With automatic drive positioner]		0 5 6 7 0 14 14	
Connector No. B460	15 14 13 12 11 10 9	45	G	- [Without automatic drive positioner]		ᅦ	
	48 45 44 43 42 41 44 53 53 53 58 25 24 23 23 21 24 18 18 17 18	46	c	- [With automatic drive positioner]			
Connector Name WIRE TO WIRE	35343	46	>	- [Without automatic drive positioner]			
Connector Type NS16MW-CS		49	9	1	Terminal	Color	Г
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33 X 0 0 X	X 10 1						
+	A (
	5 2	ŀ	H				
- A 60	+	l erminal	Color	Signal Name [Specification]			
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DRIVER SEAT CONTROL UNIT

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V W W SB SB SHIELD	2 8 0 8 0	3 ≻ >	Δ ≥	σ <u>8</u>	50	_		tor No.	Connector Name	Connector Type			12 24	al Color of Wire	Α	<u> </u>	9 6	Ľ	5	당	0 8	5 0	_	В	۵	>	≥ >	1
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Name Type	التلك	Color of Wire	B B	ω ο	r R	9 5	≥	>		r No.	r Name	r Type	15 14	1000		Color of Wire	~	BR	>	٩ .	5 c	>	œ	>	В	œ	υ B	á
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8 G START RLY	3A	Terminal Color Signal Name [Specification] No. of Wire - - - - - - - - -		9A V 6A Y	74 R								
98 SHELD	(5 4 3 2 T) (0 9 8 7 G)	Terminal Color Nigrael Name [Specification] No of Wire Signal Name [Specification]	Н	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	₩	10 B	Connector No. F151 Connector Name TOM (TRANSMISSION CONTROL MODULE) Connector Type SP10FBGY		10 9 8 7 6 5 4 3 2 1	Signal Na	1 BR CAN-H 2 L/Y CAN-L	3 W/L ATF SENS2- 4 R VIGN	5 W/R ATF SENS2+ 6 L K LINE 7 O REV LAMP RLY
			1 1	- [With ICC] - [Without ICC]	- [With ICC] - [Without ICC]	- [Without ICG] - [With ICG] - [With ICG]	- [With IOC] - [Without IOC] - [Without IOC] - [Without IOC]		1 1 1 1		1 1	1 1	
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AUTOMATIC DRIVE POSITIONER Connector Name WRE TO WIFE Someocrar Type ITH80FW-CS16-TM4 Salah MA.	Signal Name (Specification) 63 64 64 64 64 64 64 64 64 64 64 64 64 64	- 68		- 73 - 74 - 74	- 75 75	- 76	78 - 78 - 79		- 86	1 1	- 91	- 93 - 94	- 96 - 96 - 97
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DRIVER SEAT CONTROL UNIT

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AUTOMATIC DRIVE POSITIONER Connector No.	Connector Name WIRE TO WIRE	T	Connector Type TH32FW-NH				16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	[32]31]30[23]28[27]28[25]24[23]22[21]20[18]18[17]			Terminal Color Signal Name [Specification]		+	9	+	+	+	+	-	\dashv	14 V –		16 W –	21 G		SH	24 R –	_	+	+	28 B	29 W =	7	31 Y =		Oppositor No ME	Т	Connector Name WIRE TO WIRE	Connector Type TH40MM-CS15	add i short			1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	[1617]1818202122223242526 [363733]3840[41424344]45[46				Color	No. of Wire Signal Name [Specification]

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Color of Wire Signal Name (Signal Name (Sign	- 49 V	Н	- d 09	M7	63 R	. 0	TH80MW-CS16-TM4 65 SHIELD	99	V 67	The second secon	2 7 HISTORIAN ON THE PROPERTY OF THE PROPERTY	15 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	128		75	Color Signal Name [Specification] 76 W	77 B	- [With automatic drive positioner] 78	- [Without automatic drive positioner] 79 GR	- 83	- 85 LG	- 86 R	> :: 683	333 6	C 06	5 16	- 92 V		- 94 V	5 96	W 00	96				SHIELD -		١ -					4			-		
	88	100		Connector No.		Connector	Connector Type		修	S		_				Terminal	Vo	8	8	2	9	7	ω ;	7 2	2 4	12	17	18	61	0.7	2 66	77 80	22	58	59	30	31	32	33	34	35	36	37	38	88	44	45	46
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Specification 65	Confidence No. Mo	WIRE TO WIRE	TLICONAM, CCIG. TAM	11160mm 0310 mm	25 55	999	57	50	09	19	62	Signal Name [Specification]	94	- 65	99 –		89	69 -	- 70			- 73	- 74	35	2/2	9/			78	8/.	8/	6, 00	3 8	- 82	- 83	- 84	_	- 88	- 87	- 88		61	- 92	- 93	- 8		96 -	

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DRIVER SEAT CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[WITH ADP]

MIRROR SW (RIGHTWARD) MIRROR SERSOR (LH HORZONTAL) TELESCOPO SENSOR SET SW ADDRESSZ ADDRESSZ RY (JART) TELESCOPIC SW (RACKWARD) MIRROR MOTOR (LH VERTICAL) MIRROR MOTOR (LH VERTICAL) MIRROR MOTOR (LH HORZONTAL) Sgral Name (Specification) POWER SURPAY (SENSOR) BAT (FLASE) GND (SENSOR) TELESCOPIC MOTOR (FORWARD) TELESCOPIC MOTOR (HORWARD) TELESCOPIC MOTOR (HORWARD) TELESCOPIC MOTOR (BOWWARD) TILL MOTOR (BOWWARD)	АВ
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NSO4FW-CS NSO4FW-CS NSO4FW-CS NSO4FW-CS NSO4FW-CS Sign N	F G
Connector No. Connector No. Connector No. Connector Type Connector Type Connector Type Connector No. Connector	Н
TILT & TELESCOPIC SWITCH TKODFGY Signal Name [Specification] Signal Name [Specification] Signal Name [Specification] Signal Name [Specification]	ı
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Connector Name KEY SLOT Connector Name KEY SLOT Connector Type THI/2FW-NIH Connector Type Terminal Color Connector Name Color Col	N O
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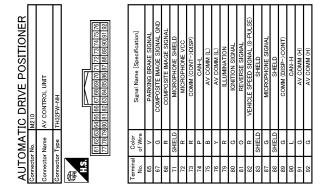
MIR-43 Revision: 2009 August 2010 EX35

81 W NATS ANT AMP.	œ	Y KEYLES	BR:	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	H 4	90 P	1	57 >	> >	94 T PUDDLE LAMP CONI	5	96 GR A/1 SHIFT SELECTOR POWER SUPPLY	-	3/F	œ	100 G PASSENGER DOOR REQUEST SW	101 SB DRIVER DOOR REQUEST SW	102 O BLOWER FAN MOTOR RELAY CONT	G.	3	= :	רפ	108 R COMBI SW INPUT 4	109 Y COMBI SW INPUT 2		>																										
r No. M119	Jie I	Т	r Type NS16FW-CS			7 0 0 0 7	6 8 1 · o	11 12 13 14 15 16 17 18 19			- 0	Color Signal Name [Specification]	4	LG INTERIOR ROOM LAMP POWER SUPPLY	L PASSENGER DOOR UNLOCK OUTPUT	Y STEP LAMP OUTPUT	V ALL DOOR, FUEL LID LOCK OUTPUT	G DRIVER DOOR. FUEL LID UNLOCK OUTPUT	t	+		B	W PUSH-BUTTON IGNITION SW ILL GND	→ ACC IND	W TIIIBN SIGNAL BH (FRONT)	1	ľ	V KOOM LAMP IIMER CON I KOL	No.	Т	r Name BCM (BODY CONTROL MODULE)	†	r Type TH40FB-NH				75 74	[111] THE HOSE HOSE HOSE HOSE THE HOSE HOSE HOSE SOS SOS SOS SOS SOS SOS SOS SOS SOS			Color Signal Name [Specification]		ROOM ANT2-	G ROOM ANT2+	SB PASSENGER DOOR ANT-	ļ		V DRIVER DOOR ANT-	LG DRIVER DOOR ANT+	Y ROOM ANTI-	BR ROOM ANT1+	
Y Connector No.	П	0000	Connector Type	₫	*	Ż	T	1				l erminal	t	4	2	7	∞	6	Ç.	· =		2	14	15	- 1	9			ON appearance No		Connector Name	1	Connector Type	þ	AND THE	2					la l	†	72	73	L	L	1	92	7.7	8/	6/	
70 R EACH DOOR MOTOR POWER SUPPLY	· В	72 P CAN-L		Γ	Т	Sonnector Name MULTIFUNCTION SWITCH	T. HOOLING T. T. HOOLING MILE	٦.				4 6 8 14 16	0	╛			[Ferminal Color Service 18, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19	No. of Wire ognal Name Lopecingation	GND		> (4 K	5 Y IIIL CONT	6 LG AV COMM (H)	>	> a	2	14 Y DISK EJECT SIGNAL 16 G HAZARD ON		Opposition No.	Τ	Connector Name BCM (BODY CONTROL MODULE)	П	Connector Type M03FB-LC]	n	<u></u>]	L	e .	No. of Wire	W BAT (F/L)	POWER WINDO	: >	3 Y POWER WINDOW POWER SUPPLY(

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DRIVER SEAT CONTROL UNIT

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	(design)	
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200 N N N N N N N N N N N N N N N N N N	G 5	
2 2 8 8 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9	H	
Signal Name [Specification]	Signal Name (Specification)	
CEIM TOTAL		
Cocor	Sample of Wife	
No.	<u> </u>	
AUTOMATIC DRIVE POSITIONER Demector Name BCM (BODY CONTROL MODULE)	MIF	2
IC DRIVE POSITIO MI23 BOM (BODY CONTROL MODULE) THOOFG-NH THE OPLICAL SENSOR Signal Name [Specification of the control of	S15	
	No. MH24 Nume WRE TO WRE Type TH40NW-CS15 [1 2 3 4 5 6 7 8 9 10 11 2 3 4 15 [2 2 3 4 5 6 7 8 9 10 11 2 3 4 15 [3 3 4 4 5 6 7 8 9 9 9 10 11 2 3 4 15 [4 4 5 4 5 7 8 9 9 9 9 9 9 9 9 [5 5 6 7 8 9 9 9 9 9 9 9 9 9	
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Fail Safe

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

DRIVER SEAT CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

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Operating in fail-safe mode	Malfunction Item	Related DTC	Diagnosis
	CAN communication	U1000	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	<u>ADP-55</u>
Only manual functions, except door mirror, operate normally.	UART communication	B2128	ADP-57
Only manual functions, except seat sliding, operate normally.	Seat sliding output	B2112	ADP-45
Only manual functions, except seat reclining, operate normally.	Seat reclining output	B2113	ADP-47

DTC Index

CONSULT-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

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^{• 0:} Current malfunction is present

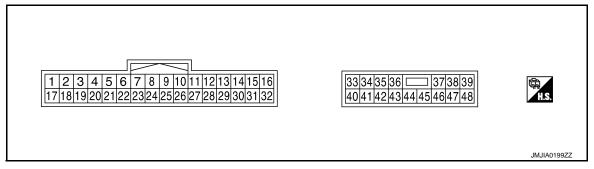
^{• 1-39:} Displayed if any previous malfunction is present when current condition is normal. The numeral value increases by one at each IGN ON to OFF cycle from 1 to 39. The counter remains at 39 even if the number of cycles exceeds it. However, the counter is reset to 1 if any malfunction is detected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

[WITH ADP]

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

Reference Value

TERMINAL LAYOUT



PHYSICAL VALUES

Teri	minal No.		Description				
+	-	Wire color	Signal name	Input/ Out- put	Condition	on	Voltage (V) (Approx.)
1	Ground	Y	Tilt switch up signal	Input	Tilt switch	Operate (up)	0
'	Oround		The switch up signal	input	The Switch	Other than above	5
			Changeover switch RH		Changeover	RH	0
2	Ground	LG	signal	Input	switch position	Neutral or LH	5
3	Ground	G	Mirror switch up signal	Input	Mirror switch	Operated (up)	0
3	Giodila	G	will of switch up signal	iliput	WIIITOI SWILCIT	Other than above	5
4	Ground	V	Mirror switch left signal	la a cut	Mirror switch	Operated (left)	0
4	Ground	V	will of switch left signal	Input	WIIITOI SWILCTI	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	sition	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	ı	2mSec/div 2V/div JMJIA0118ZZ

< ECU DIAGNOSIS INFORMATION >

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		10010	IN ONWATION >				-
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	OIX	ward signal	mput	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 Hillfor KH	Other than above	0
			Door mirror motor (LH)			Operate (down)	Battery voltage
40	0	V	down output signal	Out-	D	Other than above	0
16	Ground	Υ	Door mirror motor (LH)	put	Door mirror (LH)	Operate (right)	Battery voltage
			right output signal			Other than above	0
47	Ground	10/	Tilt switch dawn signal	la a t	Tile queitale	Operate (down)	0
17	Ground	W	Tilt switch down signal	Input	Tilt switch	Other than above	5
-			Oh a a sa a sa a sa itala IIII		Oh a sa sa sa sa sa	LH	0
18	Ground	Р	Changeover switch LH signal	Input	Changeover switch position	Neutral or RH	5
10	Ground	CD	Mirror switch down sig-	la a t	Naimen enritele	Operate (down)	0
19	Ground	SB	nal	Input	Mirror switch	Other than above	5
	0	DD	Minner	l '	Misson with	Operate (right)	0
20	Ground	BR	Mirror switch right signal	Input	Mirror switch	Other than above	5
21	Ground	L	Door mirror sensor (RH) left/right signal	Input	Door mirror RH po	osition	Change between 3.4 (close to left edge) 0.6 (close to right edge)
22	Ground	G	Door mirror sensor (LH) left/right signal	Input	Door mirror LH po	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)

Revision: 2009 August MIR-49 2010 EX35

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

< ECU DIAGNOSIS INFORMATION >

[WITH ADP]

Terr	minal No.		Description				
+	-	Wire color	Signal name	Input/ Out- put	Conditi	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 signai	put	Scopic	Other than above	0
48	Ground	В	Ground	_	_		0

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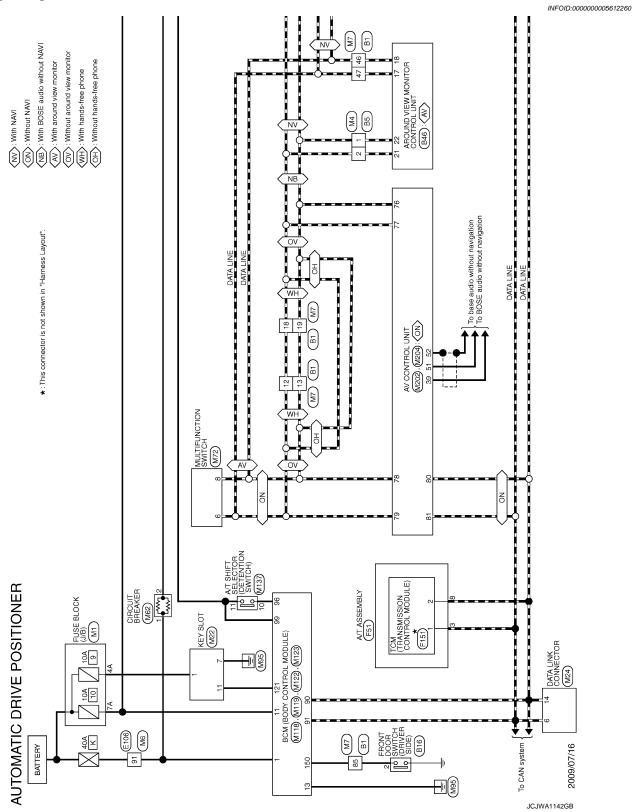
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[WITH ADP]

Wiring Diagram - AUTOMATIC DRIVE POSITIONER CONTROL SYSTEM -

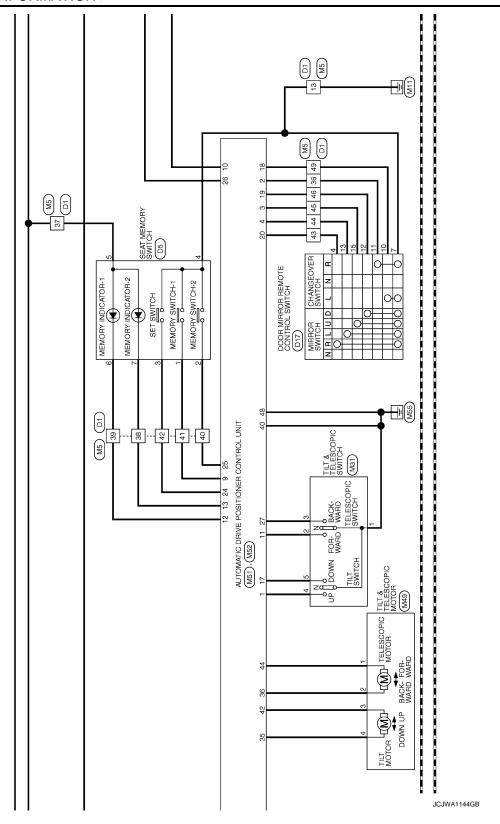


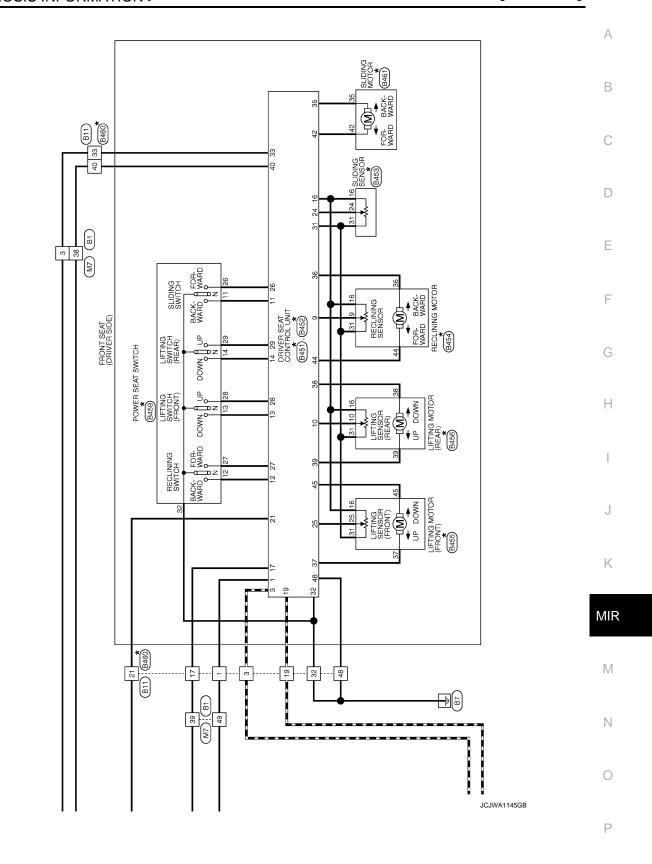
AUTOMATIC DRIVE POSITIONER CONTROL UNIT [WITH ADP] < ECU DIAGNOSIS INFORMATION > Α В C D AUTOMATIC DRIVE POSITIONER CONTROL UNIT (M51). (M52) NV : With NAVI Е F G Н Κ MIR \mathbb{N} 92
AV CONTROL UNIT
(M210): \langle NV \rangle Ν

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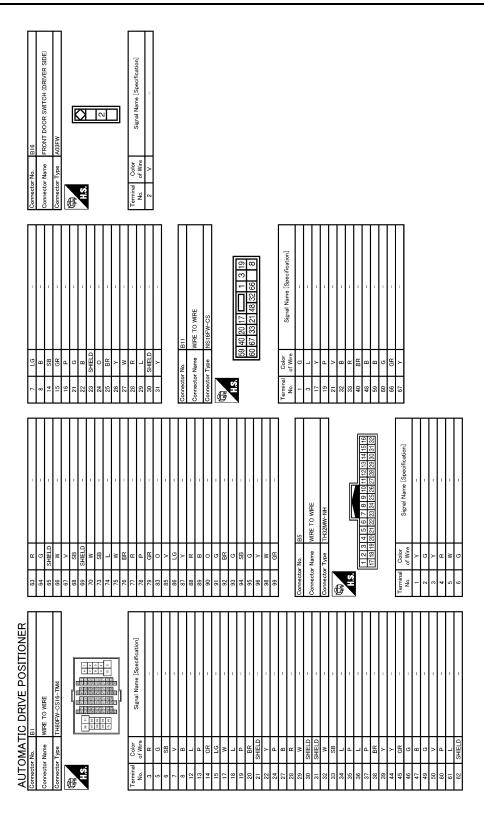
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*: This connector is not shown in "Harness Layout".



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Revision: 2009 August MIR-57 2010 EX35

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	9 W STANDBY SUPPLY-1	H			Connector No. M1	Connector Name FUSE BLOCK (J/B)	Т	Connector Type NS06FW-M2	4	CHAN		3A []2A 1A	84 7A 6A 5A 4A				Terminal Color Signal Name [Specification]	of Wire	1A GR –	2A G –	3A L	4A P		- Y Y9	7A R -	- T V8																									
ov current	98 SHIELD -	1 a			Connector No. F51	Connector Name A/T ASSEMBLY	- 1	Connector lype RK10FG-DGY	4		#S		4 0 4	9 2 8 5			na	No. of Wire	1 BR -	2 BR –	3 L -			-	7 R -	- d 8	9 GR	10 B -			Connector No. F151	Omer Month of The Australia Control Modified		Connector Type SP10FBGY	đị.	A-A-A-T	HS.		10 9 8 7 6 5 4 3 2 1			ŀ	la la	No. of Wire	1 BR CAN-H	2 L/Y CAN-L	. ATI	ď	5 W/R ATF SENS2+		7 O REV LAMP RLY
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AUTOMATIC DRIVE POSITIONER	E108	WIRE TO WIRE	TH80FW-CS16-TM4					0 10 10 10 10 10 10 10 10 10 10 10 10 10	10 20 20 20 20 20 20 20 20 20 20 20 20 20			Signal Name [Snecification]		1	1		1	_	-	-	-	-	-	_	ſ	_	-		1	-	-	-	-		1										1	1	-	1	1		_
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Revision: 2009 August MIR-61 2010 EX35

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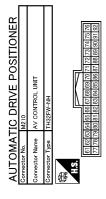
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81 W NATS ANT AMP.	œ:	83 Y KEYLESS EN IRY RECEIVER COMM 87 BR COMBI SW INPUT 5	>	BR	90 P CAN-L	٦	LG KE	93 V ON IND	94 Y PUDDLE LAMP CONT	95 O ACC RELAY CONT	96 GR A/T SHIFT SELECTOR POWER SUPPLY	97 L S/L CONDITION I	98 P S/L CONDITION 2	99 R SHIFT P	100 G PASSENGER DOOR REQUEST SW	101 SB DRIVER DOOR REQUEST SW	102 O RLOWER FAN MOTOR RELAY CONT	, U	3	= =	2	r	00	110 G HAZARD SW	111 Y S/L UNIT COMM																									
M119	BCM (BODY CONTROL MODULE)	NSI6FW-CS				5 6 7 8 9 10	12 13 14 15 16 17 18 19	21 21 21			Simul Name Consideration	oighal Ivame Lopechication	INTERIOR ROOM LAMP POWER SUPPLY	PASSENGER DOOR UNLOCK OUTPUT	STEP LAMP OUTPUT	ALL DOOR, FUEL LID LOCK OUTPUT	DRIVER DOOR FILE LTD LINI OCK OUTPLIT	REAR DOOR LINEOUS OUTPLIT	BAT (FIISE)	DAT (LOSE)	OND	PUSH-BULLON IGNITION SWILL GND	ACC IND	TURN SIGNAL RH (FRONT)	TURN SIGNAL LH (FRONT)	ROOM LAMP TIMER CONTROL		M122		BCM (BODY CONTROL MODULE)	TH40FB-NH				(87 86 85 84 83 82 81 80 79 78 77 76 75 74 73 72	10 10 10 33 38 87 30 31 01 01 01 01 01 01 01 01 01 01 01 01 01			Simpl Name [Superjour]	olgnal Name Lopecinication	ROOM ANT2-	BOOM ANT2+	PASSENGED DOOD ANT	DASSENGEN BOOK ANT	PASSENGER DOOR ANI+	DRIVER DOOR ANT-	DRIVER DOOR ANT+	ROOM ANT!-	ROOM ANT1+
Connector No.	Connector Name	Connector Type]]	修	S	4	<u>l</u> E	<u> </u>			Terminal Color	No. of Wire	4 LG	2 F	٧ /	8	6	o C	ł	$^{+}$	+	4 W	15 Y	17 W	18 0	V 61		Connector No		Connector Name	Connector Type	4	修	Si.	_ [91 90 89 86	2 50 0			Terminal Color	No. of Wire	72 R	H	Ŧ	$^{+}$	72 GK	۸ 92	77 LG	78 Y	79 BR
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70 R EACH DOOR MOTOR POWER SUPPLY	a (Connector No. M72	Compactor Name Mill TIELINGTON SMITCH	П	Connector Type TH16FW-NH	ą	(本)	7		_	1359			Terminal Color	No. of Wire Signal Name [Specification]	- B			× :	×		8 V AV COMM (L)	9 B SW GND	Y DISI	16 G HAZARD ON		Connector No. M118	Т	Connector Name BCM (BODY CONTROL MODULE)	Connector Type M03FB-LC	φ	(本)	[-		7]		Terminal Color Simple S	No. of Wire Signal Name [Specification]	1 W BAT (F/L)	DOWIED WINDO	;	3 Y POWER WINDOW POWER SUPPLY(RAP.				

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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	۸	ß	۲	SHIELD	н	ч	Ь	В	Υ	۳	9	0	۳	SHIELD	9	SHIELD	9	٦	G	g
Terminal No.	65	67	89	71	72	73	74	75	9/	79	80	81	82	83	87	88	68	90	91	92

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< ECU DIAGNOSIS INFORMATION >

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BCM (BODY CONTROL MODULE)

Reference Value INFOID:0000000005580517

VALUES ON THE DIAGNOSIS TOOL

CONSULT-III MONITOR ITEM	1
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Monitor Item	Condition	Value/Status
R WIPER HI	Other than front wiper switch HI	Off
K WIPEK III	Front wiper switch HI	On
R WIPER LOW	Other than front wiper switch LO	Off
-K WIFEK LOW	Front wiper switch LO	On
FR WASHER SW	Front washer switch OFF	Off
-K WASHER SW	Front washer switch ON	On
FR WIPER INT	Other than front wiper switch INT	Off
K WIFEK INT	Front wiper switch INT	On
R WIPER STOP	Front wiper is not in STOP position	Off
R WIPER STOP	Front wiper is in STOP position	On
NT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	Wiper intermittent dial position
D WIDED ON	Other than rear wiper switch ON	Off
RR WIPER ON	Rear wiper switch ON	On
D WIDED INT	Other than rear wiper switch INT	Off
RR WIPER INT	Rear wiper switch INT	On
ND W/4 OUED OW/	Rear washer switch OFF	Off
RR WASHER SW	Rear washer switch ON	On
RR WIPER STOP	Rear wiper is in STOP position	Off
	Rear wiper is not in STOP position	On
TUDNI CIONIAL D	Other than turn signal switch RH	Off
TURN SIGNAL R	Turn signal switch RH	On
TIDNI CIONIAL I	Other than turn signal switch LH	Off
URN SIGNAL L	Turn signal switch LH	On
TAIL AMD OW	Other than lighting switch 1ST and 2ND	Off
AIL LAMP SW	Lighting switch 1ST or 2ND	On
II DE AM CVA	Other than lighting switch HI	Off
II BEAM SW	Lighting switch HI	On
JEAD LAMD CVV 4	Other than lighting switch 2ND	Off
IEAD LAMP SW 1	Lighting switch 2ND	On
JEAD LAMP CW 2	Other than lighting switch 2ND	Off
HEAD LAMP SW 2	Lighting switch 2ND	On
DACCING CVA	Other than lighting switch PASS	Off
ASSING SW	Lighting switch PASS	On
LITO LIQUIT OW	Other than lighting switch AUTO	Off
UTO 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 >

Monitor Item	Condition	Value/Status
DOOD OW DD	Driver door closed	Off
DOOR SW-DR	Driver door opened	On
DOOR SW-AS	Passenger door closed	Off
DOOK SW-AS	Passenger door opened	On
DOOR SW-RR	Rear RH door closed	Off
DOOK SW-KK	Rear RH door opened	On
DOOR SW DI	Rear LH door closed	Off
DOOR SW-RL	Rear LH door opened	On
DOOR SW-BK	Back door closed	Off
DOOR SW-BR	Back door opened	On
CDL LOCK CW	Other than power door lock switch LOCK	Off
CDL LOCK SW	Power door lock switch LOCK	On
ODL HNI OOK OW	Other than power door lock switch UNLOCK	Off
CDL UNLOCK SW	Power door lock switch UNLOCK	On
KEN ON THE OW	Other than driver door key cylinder LOCK position	Off
KEY CYL LK-SW	Driver door key cylinder LOCK position	On
1/5/ 0// 111 0/4	Other than driver door key cylinder UNLOCK position	Off
KEY CYL UN-SW	Driver door key cylinder UNLOCK position	On
KEY CYL SW-TR	NOTE: The item is indicated, but not monitored.	Off
	Hazard switch is OFF	Off
HAZARD SW	Hazard switch is ON	On
REAR DEF SW	NOTE: The item is indicated, but not monitored.	Off
TR CANCEL SW	NOTE: The item is indicated, but not monitored.	Off
TD/DD ODEN OW	Back door opener switch OFF	Off
TR/BD OPEN SW	While the back door opener switch is turned ON	On
TRNK/HAT MNTR	NOTE: The item is indicated, but not monitored.	Off
DIVE I COV	LOCK button of the key is not pressed	Off
RKE-LOCK	LOCK button of the key is pressed	On
	UNLOCK button of the key is not pressed	Off
RKE-UNLOCK	UNLOCK button of the key is pressed	On
RKE-TR/BD	NOTE: The item is indicated, but not monitored.	Off
DICE DANIES	PANIC button of the key is not pressed	Off
RKE-PANIC	PANIC button of the key is pressed	On
	UNLOCK button of the key is not pressed	Off
RKE-P/W OPEN	UNLOCK button of the key is pressed and held	On
	LOCK/UNLOCK button of the key is not pressed and held simultaneously	Off
RKE-MODE CHG	LOCK/UNLOCK button of the key is pressed and held simultaneously	On
OPTICAL SENSOR	Bright outside of the vehicle	Close to 5 V

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status	
DEO CW. DD	Driver door request switch is not pressed	Off	
REQ SW -DR	Driver door request switch is pressed	On	
REQ SW -AS	Passenger door request switch is not pressed	Off	
REQ 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	
EQ SW -BD/TR	Back door request switch is not pressed	Off	
EQ OW BB/TK	Back door request switch is pressed	On	
PUSH SW	Push-button ignition switch (push switch) is not pressed	Off	
USH SW	Push-button ignition switch (push switch) is pressed	On	
NI DI VO. E/D	Ignition switch in OFF or ACC position	Off	
GN RLY2 -F/B	Ignition switch in ON position	On	
CC RLY -F/B	NOTE: The item is indicated, but not monitored.	Off	
LUCH SW	NOTE: The item is indicated, but not monitored.	Off	
	The brake pedal is depressed when No. 7 fuse is blown	Off	
RAKE SW 1	The brake pedal is not depressed when No. 7 fuse is blown, or No. 7 fuse is normal	On	
DAKE SW 2	The brake pedal is not depressed	Off	
BRAKE SW 2	The brake pedal is depressed	On	
ETE/CANCL CVA/	Selector lever in P position	Off	
DETE/CANCL SW	Selector lever in any position other than P	On	
FT PN/N SW	Selector lever in any position other than P and N	Off	
FI FIN/IN SVV	Selector lever in P or N position	On	
/L -LOCK	Steering is unlocked	Off	
/L -LOCK	Steering is locked	On	
/I LINII 001/	Steering is locked	Off	
/L -UNLOCK	Steering is unlocked	On	
/L DELAY E/D	Ignition switch in OFF or ACC position	Off	
/L RELAY-F/B	Ignition switch in ON position	On	
NULL OF N. D.D.	Driver door is unlocked	Off	
NLK SEN -DR	Driver door is locked	On	
11011 014, 122	Push-button ignition switch (push-switch) is not pressed	Off	
USH SW -IPDM	Push-button ignition switch (push-switch) is pressed	On	
	Ignition switch in OFF or ACC position	Off	
GN RLY1 -F/B	Ignition switch in ON position	On	
	Selector lever in any position other than P	Off	
ETE SW -IPDM	Selector lever in P position	On	
	Selector lever in any position other than P and N	Off	
FT PN -IPDM	Selector lever in P or N position	On	
	Selector lever in any position other than P	Off	
FT P -MET	Selector lever in P position	On	

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status		
SFT N -MET	Selector lever in any position other than N	Off		
SFT IN -IVIET	Selector lever in N position	On		
	Engine stopped	Stop		
ENGINE STATE	While the engine stalls	Stall		
ENGINE STATE	At engine cranking	Crank		
	Engine running	Run		
0// 1 0 0 1/ 10 0 14	Steering is unlocked	Off		
S/L LOCK-IPDM	Steering is locked	On		
0/1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Steering is locked	Off		
S/L UNLK-IPDM	Steering is unlocked	On		
	Steering lock system is not the LOCK condition and the changing condition from LOCK to UNLOCK.	Off		
S/L RELAY-REQ	Steering lock system is the LOCK condition or the changing condition from LOCK to UNLOCK.	On		
VEH SPEED 1	While driving	Equivalent to speedometer reading		
VEH SPEED 2	While driving	Equivalent to speedometer 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		
	Steering is locked	Reset		
ID OK FLAG	Steering is unlocked	Set		
	The engine start is prohibited	Reset		
PRMT ENG STRT	The engine start is permitted	Set		
PRMT RKE STRT	NOTE: The item is indicated, but not monitored.	Reset		
	The key is not inserted into key slot	Off		
KEY SW -SLOT	The key is inserted into key slot	On		
RKE OPE COUN1	During the operation of the key	Operation frequency of the key		
RKE OPE COUN2	NOTE: The item is indicated, but not monitored.			
	The key ID that the key slot receives does not accord with any key ID registered to BCM.	Yet		
CONFRM ID ALL	The key ID that the key slot receives accords with any key ID registered to BCM.	Done		
CONFIDM ID 4	The key ID that the key slot receives does not accord with the fourth key ID registered to BCM.	Yet		
CONFIRM ID4	The key ID that the key slot receives accords with the fourth key ID registered to BCM.	Done		
CONFIDMIDO	The key ID that the key slot receives does not accord with the third key ID registered to BCM.	Yet		
CONFIRM ID3	The key ID that the key slot receives accords with the third key ID registered to BCM.	Done		

< ECU DIAGNOSIS INFORMATION >

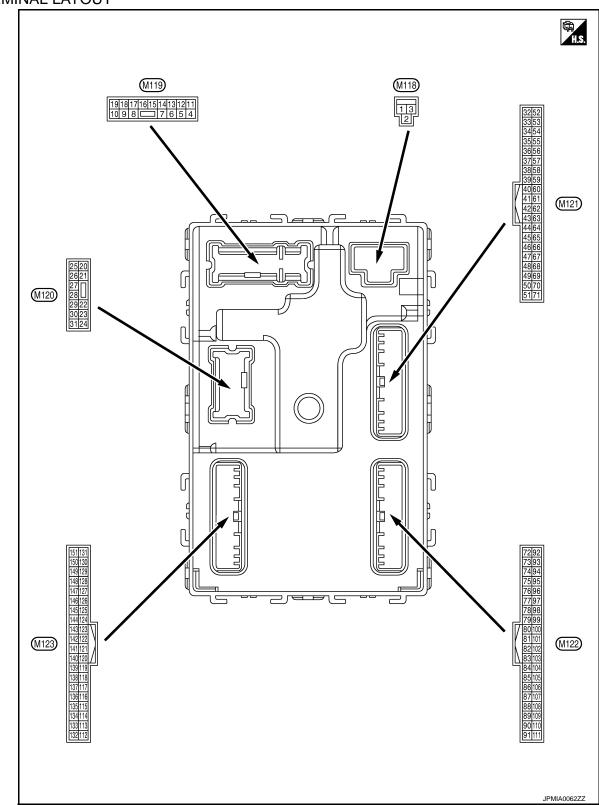
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Monitor Item	Condition	Value/Status
CONFIRM ID2	The key ID that the key slot receives does not accord with the second key ID registered to BCM.	Yet
CONTINUID2	The key ID that the key slot receives accords with the second key ID registered to BCM.	Done
CONFIRM ID1	The key ID that the key slot receives does not accord with the first key ID registered to BCM.	Yet
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
1 P 4	The ID of fourth key is registered to BCM	Done
TP 3	The ID of third key is not registered to BCM	Yet
IP 3	The ID of third key is registered to BCM	Done
TP 2	The ID of second key is not registered to BCM	Yet
IP 2	The ID of second key is registered to BCM	Done
TP 1	The ID of first key is not registered to BCM	Yet
IFI	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 DECCT EL4	ID of front LH tire transmitter is registered	Done
ID REGST FL1	ID of front LH tire transmitter is not registered	Yet
ID DECCE ED4	ID of front RH tire transmitter is registered	Done
ID REGST FR1	ID of front RH tire transmitter is not registered	Yet
ID DECCE DD4	ID of rear RH tire transmitter is registered	Done
ID REGST RR1	ID of rear RH tire transmitter is not registered	Yet
ID DECOT DI 4	ID of rear LH tire transmitter is registered	Done
ID REGST RL1	ID of rear LH tire transmitter is not registered	Yet
VAVA DALIAIO I ARAD	Tire pressure indicator OFF	Off
WARNING LAMP	Tire pressure indicator ON	On
DUZZED	Tire pressure warning alarm is not sounding	Off
BUZZER	Tire pressure warning alarm is sounding	On

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TERMINAL LAYOUT



PHYSICAL VALUES

< ECU DIAGNOSIS INFORMATION >

	inal No. e color)	Description			• "	Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
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					battery saver is activated. com lamp power supply)	0 V
4 (LG)	Ground	Interior room lamp power supply	Output	ed.	battery saver is not activator room lamp power supply)	Battery voltage
5	Ground	Passenger door UN-	Output	Passenger door	UNLOCK (Actuator is activated)	Battery voltage
(L)	Giodila	LOCK	Output	rassenger door	Other than UNLOCK (Actuator is not activated)	0 V
7	Craund	Cton lown	O. 14m . 14	Cton lama	ON	0 V
(Y)	Ground	Step lamp	Output	Step lamp	OFF	Battery voltage
8	Ground	All doors, fuel lid	Output	utput All doors	LOCK (Actuator is activated)	Battery voltage
(V)	(V) Glound L	LOCK	Japat	All uoois	Other than LOCK (Actuator is not activated)	0 V
9	(-round	Driver door, fuel lid	Output	put Driver door	UNLOCK (Actuator is activated)	Battery voltage
(G)	Giodila	UNLOCK	Output	Driver door	Other than UNLOCK (Actuator is not activated)	0 V
10	Ground	Rear RH door and rear LH door UN-	Output	Rear RH door	UNLOCK (Actuator is activated)	Battery voltage
(BR)	Ciouna	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 (W)	Ground	Push-button ignition switch illumination ground	Output	Tail lamp	ON	NOTE: When the illumination brightening/dimming level is in the neutral position (V) 10 0 2 ms
15	_		_		OFF or ON	JSNIA0010GB Battery voltage
	Ground	ACC indicator lamp	Output	Ignition switch	ACC	0 V

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	inal No.	Description				Value
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)
					Turn signal switch OFF	0 V
17 (W)	Ground	Turn signal RH (Front)	Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 1
					Turn signal switch OFF	6.5 V 0 V
18 (O)	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		Room lamp timer		Interior room	OFF	Battery voltage
(V)	Ground	control	Output	lamp	ON	0 V
					Turn signal switch OFF	0 V
20 (V)	Ground	Turn signal RH (Rear)	Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 1 s PKID0926E 6.5 V
23	Crownd	Dealt dear anon	Output	Doely door	OPEN (Back door opener actuator is activated)	Battery voltage
(G)	Ground	Back door open		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 6.5 V
26			_		OFF (Stopped)	0 V
(G)	Ground	Rear wiper	Output	Rear wiper	ON (Operated)	Battery voltage
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< ECU DIAGNOSIS INFORMATION >

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

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value
+	e color)	Signal name	Input/ Output		Condition	(Approx.)
39	Cround	Back door antenna		When the back door opener re- quest switch is operated with ig- nition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB
(W)	Ground	(+)	Output		When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s
47	Cravad	Ignition relay (IPDM	Outnut	lanition quitab	OFF or ACC	Battery voltage
(Y)	Ground	E/R) control	Output	Ignition switch	ON	0 V
52	Ground	Starter relay control	Output	Ignition switch ON	When selector lever is in P or N position	Battery voltage
(SB)	Giouna				When selector lever is not in P or N position	0 V
					ON (Pressed)	0 V
61 (W)	Ground	Back door opener request switch	Input	Back door opener request switch	OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB 1.0 V
64		Intelligent Key warn-		Intelligent Key	Sounding	0 V
(V)	Ground	ing buzzer (Engine room)	Output	warning buzzer (Engine room)	Not sounding	Battery voltage
65 (O)	Ground	Rear wiper stop position	Input	Rear wiper	In stop position Not in stop position	(V) 15 10 5 0 10 ms JPMIA0016GB 1.0 V 0 V

< ECU DIAGNOSIS INFORMATION >

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

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	inal No. e color)	Description	1		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output		Condition		
72	Ground	Room antenna 2 (–) (Center console)	Output	Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB	
(R)	Glodina			ÖFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 11 1 s JMKIA0063GB	
73	Ground	Room antenna 2 (+) (Center console)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB	
(G)	Ground				When Intelligent Key is not in the passenger compartment	(V) 15 10 5 1	
74	Ground	Passenger door antenna (-)	Output	When the passenger door request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	
(SB)					When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	

< ECU DIAGNOSIS INFORMATION >

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

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value
+ (VVire	e color)	Signal name	Input/ Output		Condition	(Approx.)
78	Ground	Room antenna 1 (–)		lgnition switch OFF W in	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GB
(Y)	Glound	(Instrument panel)	Guipar		When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB
79	Ground	Room antenna 1 (+) (Instrument panel)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB
(BR)	Ground				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	1		ON	Battery voltage

< ECU DIAGNOSIS INFORMATION >

	ninal No. re color)	Description	TI		O a selfer a	Value
+	- COIOT)	Signal name	Input/ Output		Condition	(Approx.)
83		Remote keyless entry receiver communication	Input/	During waiting		(V) 15 10 5 0 1 ms JMKIA0064GB
(Y) Groun	Ground		Output	When operating either button on the key		(V) 15 10 5 1 ms JMKIA0065GB
		Combination switch INPUT 5	Input	Combination switch	All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB
87	Ground				Front fog lamp switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0037GB 1.3 V
(BR)	Stound				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

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				
(Wire	e color)	Signal name	Input/ Output		Condition	Value (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 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
					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	Constitution	Push-button ignition	lm=t	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 (L)	Ground	CAN-H	Input/ Output	_		_

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description				Value
+ (VVire	e color)	Signal name	Input/ Output		Condition	(Approx.)
92 (LG)	Ground	Key slot illumination	Output	Key slot illumina- tion	OFF Blinking	Battery voltage (V) 15 10 5 U 1 s JPMIA0015GB
93 (V)	Ground	ON indicator lamp	Output	Ignition switch	ON OFF or ACC ON	6.5 V 0 V Battery voltage 0 V
94 (Y)	Ground	Puddle lamp control	Output	Puddle lamp	OFF ON	Battery voltage 0 V
95 (O)	Ground	ACC relay control	Output	Ignition switch	OFF ACC or ON	0 V Battery voltage
96 (GR)	Ground	A/T shift selector (Detention switch) power supply	Output	_		Battery voltage
97 (L)	Ground	Steering lock condition No. 1	Input	Steering lock	LOCK status UNLOCK status	0 V Battery voltage
98 (P)	Ground	Steering lock condition No. 2	Input	Steering lock	LOCK status UNLOCK status	Battery voltage 0 V
99 (R)	Ground	Selector lever P position switch	Input	Selector lever	P position Any position other than P	0 V Battery voltage
100 (G)	Ground	Passenger door request switch	Input	Passenger door request switch	ON (Pressed) OFF (Not pressed)	0 V (V) 15 10 5 10 10 ms JPMIA0016GB 1.0 V
101 (SB)	Ground	Driver door request switch	Input	Driver door request switch	ON (Pressed) OFF (Not pressed)	0 V (V) 15 10 5 10 JPMIA0016GB 1.0 V
102 (O)	Ground	Blower fan motor re- lay control	Output	Ignition switch	OFF or ACC	0 V Battery voltage

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	inal No.	Description				
(Wire	e color)	Signal name	Input/ Output		Condition	Value (Approx.)
103 (LG)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch OFF		Battery voltage
106 (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 1.3 V
					Front washer switch ON	(V) 15 10 5 0 2 ms JPMIA0039GB 1.3 V

< ECU DIAGNOSIS INFORMATION >

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	inal No. e color)	Description	1			Value	А
+	e color) -	Signal name	Input/ Output		Condition	(Approx.)	
					All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4 V	B C D
					Lighting switch AUTO (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3 V	E F
108 (R)	Ground	Combination switch INPUT 4	Input	Combination switch	Lighting switch 1ST (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3 V	G H I
					Rear wiper switch INT (Wiper intermittent dial 4)	(V) 15 10 5 2 ms JPMIA0040GB	J K
					Any of the conditions below with all switches OFF Wiper intermittent dial 1 Wiper intermittent dial 5 Wiper intermittent dial 6	(V) 15 10 5 0 2 ms	M
							0

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	inal No. e color)	Description			O Pri	Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF	(V) 15 10 5 0 2 ms JPMIA0041GB
					Lighting switch PASS	(V) 15 10 5 0 2 ms JPMIA0037GB
109 (Y)	Ground	Combination switch INPUT 2	Input	Combination switch (Wiper intermit- tent dial 4)	Lighting switch 2ND	(V) 15 10 5 0 2 ms JPMIA0036GB
					Front wiper switch INT	(V) 15 10 2 ms JPMIA0038GB
					Front wiper switch HI	(V) 15 10 5 0 2 ms JPMIA0040GB
-					ON	0 V
110 (G)	Ground	Hazard switch	Input	Hazard switch	OFF	(V) 15 10 5 0 10 ms JPMIA0012GB 1.1 V

< ECU DIAGNOSIS INFORMATION >

[WITH ADP]

	inal No.	Description				Value
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)
					LOCK status	Battery voltage
111 (Y)	Ground	Steering lock unit communication	Input/ Output	Steering lock	LOCK or UNLOCK	(V) 15 10 5 0 JMKIA0066GB
					For 15 seconds after UN- LOCK	Battery voltage
					15 seconds or later after UNLOCK	0 V
113	Cround	Ontical concer	loout	Ignition switch	When bright outside of the vehicle	Close to 5 V
(P)	Ground	Optical sensor	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	Stop lamp switch	ON (Brake pedal is depressed)	Battery voltage
(P)	Giodila	Stop lamp switch 2	Input		OFF (Brake pedal is not de- brake hold relay OFF	0 V
		(With ICC)		Stop lamp switch or pressed) or ICC b	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 ir	nserted into key slot	Battery voltage
(BR)	Cround	1.toy olot owiton	mpat	When the key is n	ot inserted into key slot	0 V
123	Ground	IGN feedback	Input	Ignition switch	OFF or ACC	0 V
(W)			1	J	ON	Battery voltage

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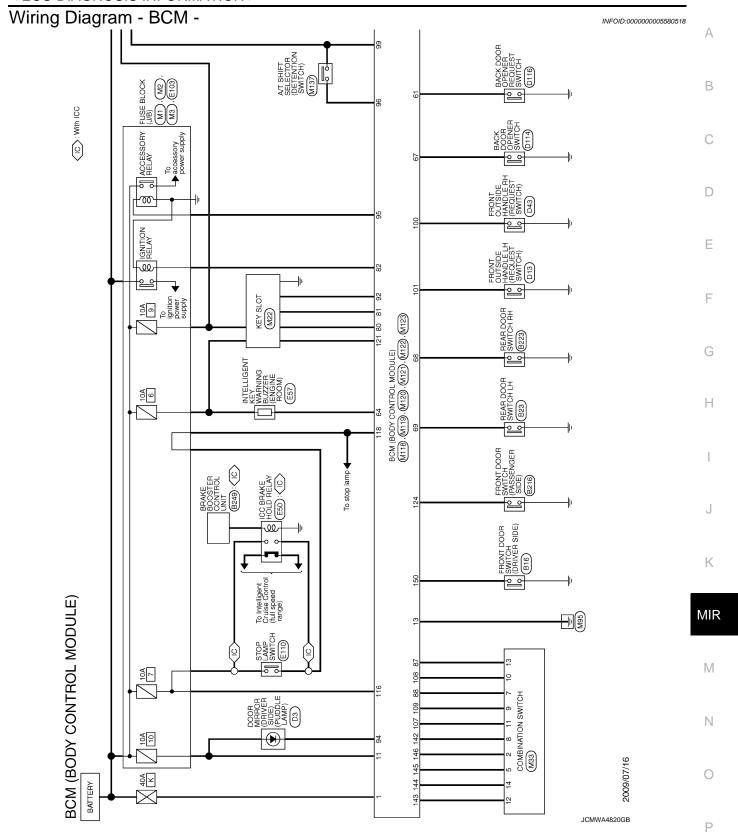
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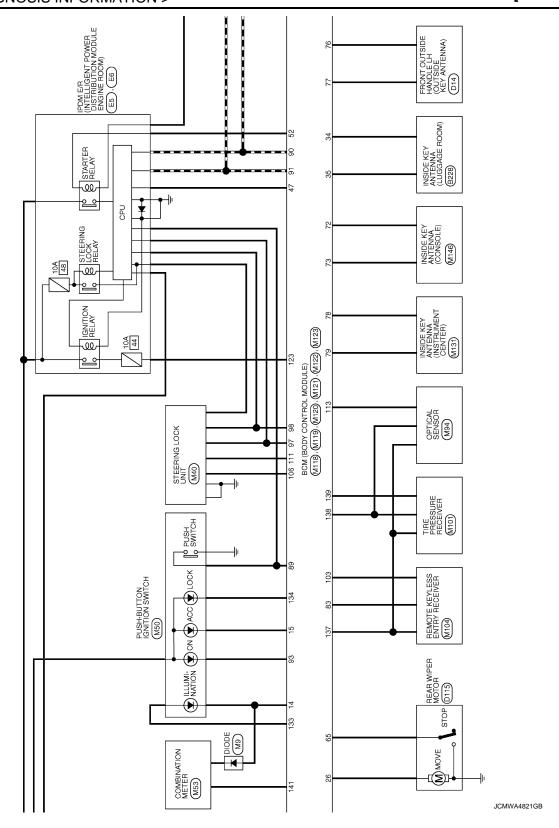
	inal No.	Description				Value
+	e color)	Signal name	Input/ Output		Condition	(Approx.)
124 (LG)	Ground	Passenger door switch	Input	Passenger door switch	OFF (Door close)	(V) 15 10 5 0 10 ms 11.8 V
					ON (Door open)	0 V
132 (BR)	Ground	Power window switch communication	Input/ Output	Ignition switch ON		(V) 15 10 5 0 10 ms JPMIA0013GB
				Ignition switch OF	F 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 0 JPMIA0159GB
					OFF	0 V
134 (GR)	Ground	LOCK indicator lamp	Output	LOCK indicator lamp	OFF	Battery voltage
137 (O)	Ground	Receiver and sensor ground	Input	Ignition switch ON	ON	0 V
138		Receiver and sensor	.	195	OFF	0 V
(Y)	Ground	power supply	Output	Ignition switch	ACC or ON	5.0 V

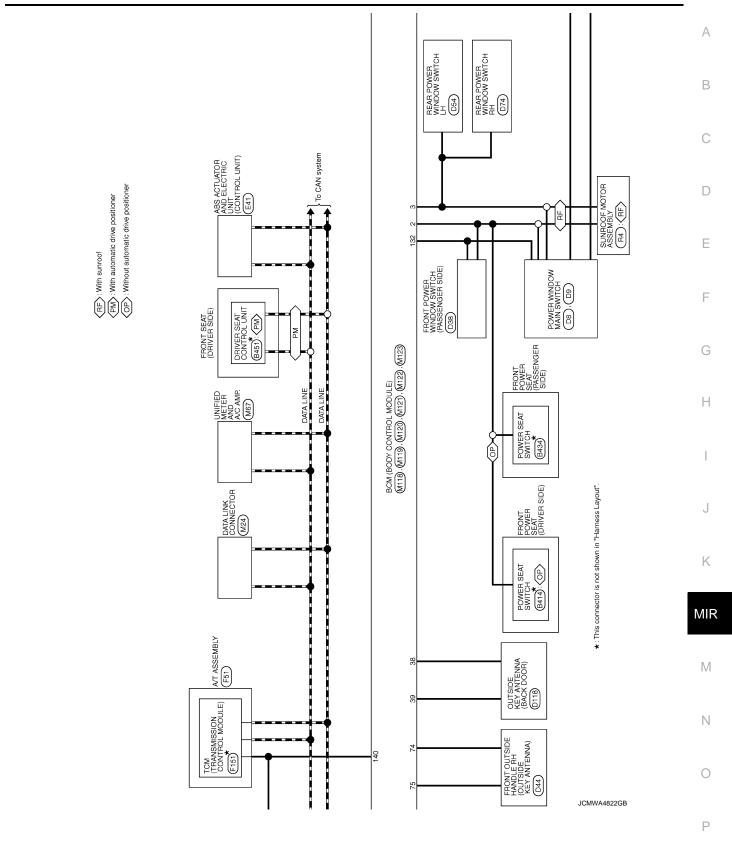
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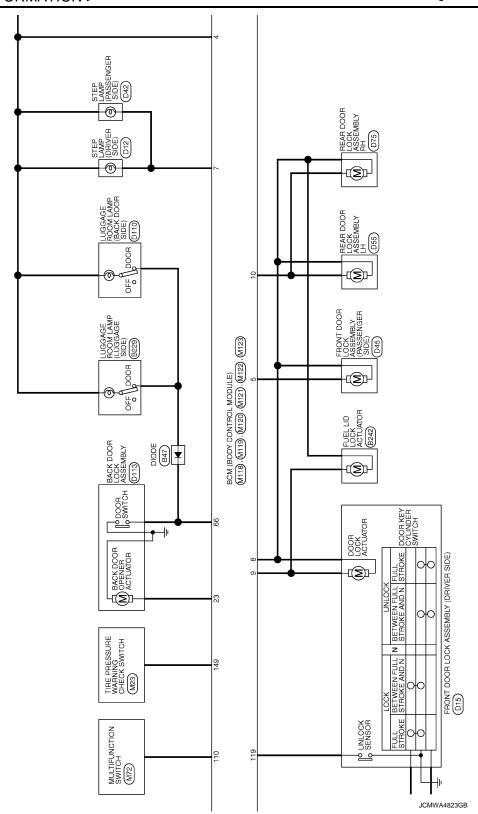
	inal No.	Description				Value
(Wire	e color) –	Signal name	Input/ Output		Condition	(Approx.)
139		Tire pressure receiv-	Input/	Ignition switch	Standby state	(V) 6 4 2 0 ••• 0.2s OCC3881D
(L)	Ground	er communication	Output	ŎN	When receiving the signal from the transmitter	(V) 6 4 2 0 • • 0.2s OCC3880D
140	Ground	und Selector lever		P or N position	Battery voltage	
(GR)	Ground	position	mpat	Colocial level	Except P and N positions	0 V
					ON	0 V
141 (G)	Ground	Security indicator	Output	out Security indicator	Blinking	(V) 15 10 5 0 JPMIA0014GB 11.3 V
					OFF	Battery voltage
142 (O)	Ground	Combination switch OUTPUT 5	Output	Combination switch (Wiper intermit- tent dial 4)	All switches OFF Lighting switch 1ST Lighting switch HI Lighting switch 2ND Turn signal switch RH	0 V (V) 15 10 2 ms JPMIA0031GB 10.7 V
					All switches OFF (Wiper intermittent dial 4) Front wiper switch HI (Wiper intermittent dial 4)	0 V
143 (P)	Ground	Combination switch OUTPUT 1	Output	Combination switch	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

	inal No. e color)	Description			Condition	Value			
+	-	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 OUTPUT 2	Output	Combination switch	Rear wiper switch ON (Wiper intermittent dial 4)	(V) 15			
(G)	Ground				Rear washer switch ON (Wiper intermittent dial 4)	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				
145		Combination switch	0.1.1	Combination switch	Front wiper switch LO	(V) 15 10 5			
145 (L) Ground	Ground	OUTPUT 3	Output	(Wiper intermittent dial 4)	Lighting switch AUTO	0 2 ms JPMIA0034GB			
						10.7 V			
					All switches OFF	0 V			
				Combination switch (Wiper intermit- tent dial 4)	Front fog lamp switch ON	(V)			
4.40		Combination switch OUTPUT 4			Lighting switch 2ND	15			
146 (SB)	Ground		Output		Lighting switch PASS Turn signal switch LH	5 0 2 ms JPMIA0035GB			
149 (W)	Ground	Tire pressure warning check switch	Input	Ignition switch ON		(V) 15 10 5 0 10 ms JPMIA0011GB			
150 (LG)	Ground	Driver door switch	Input	Driver door switch	OFF (Door close)	(V) 15 10 5 0 10 ms JPMIA0011GB			
					ON (Door open)	0 V			
151		Rear window defog-		Rear window de-	Active	0 V			
(G)	Ground	ger relay control	Output	fogger	Not activated	0 V Battery voltage			





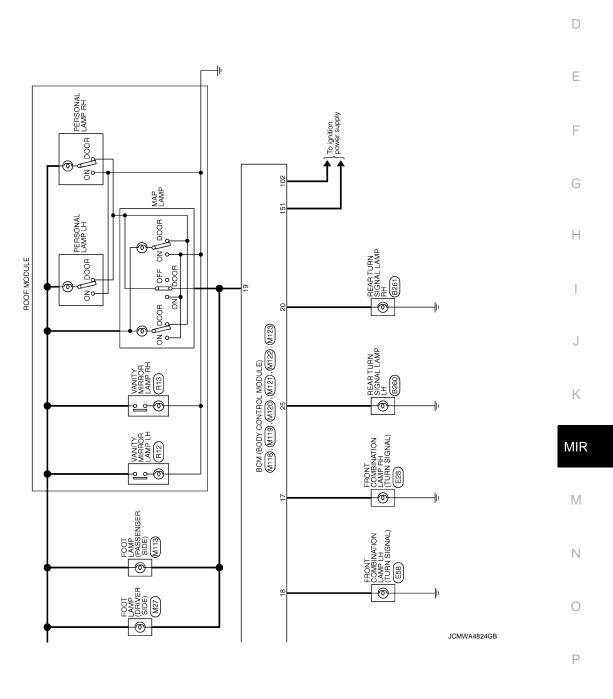




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דוו	Connector No. M33	Connector No.	or No.	M119		Connector No.	or No.	M121	81	≥	NATS ANT AMP.
COMBINATION SWITCH	N SWITCH	Connect	Connector Name	BCM (BODY CONTROL MODULE)	AODULE)	Connect	Connector Name	BCM (BODY CONTROL MODULE)	82	: ۲	IGN RELAY (F/B) CONT
THE WORLD		, and	Constant Land	O WEIGH		today	Tangent True	THAOCION AND	88 8	> 8	KEYLESS ENTRY RECEIVER COMM
NI AA IO I U I		00	odk i on	No lorw Co		00	odk i she	- 15-15-15-15-15-15-15-15-15-15-15-15-15-1	ò	<u>ځ</u> >	COMBI SW INPUT 3
		修				修			68	88	MS HSMA
П	V	S H	Ľ						06	۵	CAN-L
_	ļ		_	4 5 6 7 0 8	9 10				91	٦	CAN-H
7	4			11 12 13 14 15 16 17	18		51 50 49 4	48 47 46 45 44 43 42 41 40 39 38 37 36 35 34 33 32 88 67 88 65 84 63 67 67 60 69 58 67 56 55 54 53 50	92	ΓG	KEY SLOT ILL
7 8 9	10 11 12 13 14		2	2				20 20 20 20 20 20 20 20 20 20 20 20 20 2	93	>	ON IND
	1								94	>	PUDDLE LAMP CONT
			ŀ				ŀ		92	۰	ACC RELAY CONT
	Signal Name [Specification]	Terminal	Color	Signal Name [Specification]	pecification]	Terminal	Color	Signal Name [Specification]	96	뜡.	A/T SHIFT SELECTOR POWER SUPPLY
	C)GINSWW GI	oj 🔻	0	+	> logi is dawod o	No.	o wire	TINA MOOD POACOLL	6	-	S/L CONDITION I
	OUTPUT 4	÷	3 -	PASSENGER DOOR IN OCK OUTBUT	IN OCK OUTPUT	* K	9 >	LIIGGAGE ROOM ANT+	e g	۵	SHIET P
	FR WASHFR(+)	۲	· >	STEP I AMP OUTPUT	OUTPUT	38		BACK DOOR ANT-	001	: 0	PASSENGER DOOR REQUEST SW
	IGN	- 00	>	ALL DOOR, FUEL LID LOCK OUTPUT	LOCK OUTPUT	8	>	BACK DOOR ANT+	101	SB	DRIVER DOOR REQUEST SW
	OUTPUT 3	6	g	DRIVER DOOR, FUEL LID UNLOCK OUTPU	D UNLOCK OUTPUT	47	>	IGN RELAY (IPDM E/R) CONT	102	0	BLOWER FAN MOTOR RELAY CONT
	GND	10	BB	REAR DOOR UNLOCK OUTPUT	OCK OUTPUT	52	SB	STARTER RELAY CONT	103	P.	KEYLESS ENTRY RECEIVER POWER SUPPL
	INPUT 3	Ξ	٣	BAT (FUSE	JSE)	61	М	BACK DOOR OPENER REQUEST SW	106	×	S/L UNIT POWER SUPPLY
	OUTPUT 5	13	8	GND		64	>	I-KEY WARN BUZZER (ENG ROOM)	107	S S	COMBI SW INPUT 1
	INPUT 2	14	*	PUSH-BUTTON IGNITION SWILL GND	TION SW ILL GND	65	0	REAR WIPER STOP POSITION	108	œ	COMBI SW INPUT 4
	INPUT 4	15	≻	ACC IND	9	99	œ	BACK DOOR SW	109	>	COMBI SW INPUT 2
	INPUT 1	17	Μ	TURN SIGNAL RH (FRONT)	RH (FRONT)	67	GR	BACK DOOR OPENER SW	110	9	HAZARD SW
	OUTPUT 1	18	0	TURN SIGNAL LH (FRONT)	.H (FRONT)	89	BR	REAR RH DOOR SW	111	>	S/L UNIT COMM
	INPUT 5	10	>	ROOM LAMP TIMER CONTROI	ER CONTROL	69	œ	REAR LH DOOR SW			
	OUIPOLZ										
		Connector No.	or No.	M120		Connector No.	or No.	M122			
M118		tonno	Connector Name	BCM (BODY CONTROL MODILLE)	AODIII E)	Connect	Connector Name	BCM (BODY CONTROL MODILIE)			
BCM (BOD	BCM (BODY CONTROL MODULE)				/			/			
		Connect	onnector Type	NS12FW-CS		Connect	Connector Type	TH40FB-NH			
M03FB-LC		€				Œ					
						E					
_		Ž	_	20 24 7 22 23	24	2					
	1 3			25 26 27 28 29 30			91 90 89 8	98 87 86 85 84 83 82 81 90 79 78 77 76 75 74 73 72 82 82 82 82 82 82 82 82 82 82 82 82 82			
•					1						
		Terminal	\vdash	Signal Name [Specification]	oecification]	Termina	\vdash	Signal Name [Specification]			
	Signal Name [Specification]	No.	ot Wire			o i	ot Wire				
		20	> (TURN SIGNAL RH (REAR)	RH (REAR)	72	œ (ROOM ANT2-			
TWO	BAT (F/L)	8 8	5 (THEN SICHALL HOPEN	EN OUTPUT	2 5	5 E	ROOM AN 12+			
TOWER THE	POWER WINDOW POWER SUPPLIGRAL)	cy .	5	I DRIN SIGNAL LH (REAR)	LH (REAR)	4	g	PASSENGER DOOR AN I =			
POWER	POWER WINDOW POWER SUPPLY(RAP)	56	<u>5</u>	REAR WIPER OUTPUT	OUTPUT	75	g >	PASSENGER DOOR ANT+			
						6 E	> 0	DRIVER DOOR ANT-			
						2 2	5 >	DRIVER DOOK AN I+			
						φ P	- 8	POOM ANTI-			
						6/8	6 8	NATS ANT AMP			
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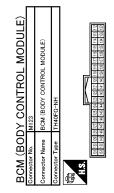
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Signal Name [Specification]	OPLICAL SENSOR	STOP LAMP SW 1	STOP LAMP SW 2	DR DOOR UNLOCK SENSOR	KEY SLOT SW	IGN F/B	PASSENGER DOOR SW	POWER WINDOW SW COMM	PUSH-BUTTON IGNITION SWILL POWER	LOCK IND	RECEIVER/SENSOR GND	RECEIVER/SENSOR POWER SUPPLY	TIRE PRESSURE RECEIVER COMM	SHIFT N/P	SECURITY INDICATOR OUTPUT	COMBI SW OUTPUT 5	COMBI SW OUTPUT 1	COMBI SW OUTPUT 2	COMBI SW OUTPUT 3	COMBI SW OUTPUT 4	TIRE PRESS WARNING CHECK SW	DRIVER DOOR SW	REAR WINDOW DEFOGGER RELAY CONT
Color of Wire	۵	SB	Д	SB	BR	W	97	BR	W	GR	0	Υ	7	GR	9	0	Д	ŋ	٦	SB	M	PT	5
Terminal No.	113	116	118	119	121	123	124	132	133	134	137	138	139	140	141	142	143	144	145	146	149	150	151

Fail-safe

FAIL-SAFE CONTROL BY DTC

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

< ECU DIAGNOSIS INFORMATION >

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 $ON \rightarrow OFF$
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)

< ECU DIAGNOSIS INFORMATION >

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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)

HIGH FLASHER OPERATION

BCM detects the turn signal lamp circuit status by the current value.

BCM increases the turn signal lamp blinking speed if the bulb or harness open is detected with the turn signal lamp operating.

NOTE:

The blinking speed is normal while activating the hazard warning lamp.

REAR WIPER MOTOR PROTECTION

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

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

Condition of cancellation

- 1. More than 1 minute is passed after the rear wiper stops.
- Turn rear wiper switch OFF.
- Operate the rear wiper switch or rear washer switch.

DTC Inspection Priority Chart

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

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Priority	DTC
1	B2562: LOW VOLTAGE
2	U1000: CAN COMM CIRCUIT U1010: CONTROL UNIT (CAN)
3	B2190: NATS ANTENNA AMP B2191: DIFFERENCE OF KEY B2192: ID DISCORD BCM-ECM B2193: CHAIN OF BCM-ECM B2195: ANTI SCANNING
4	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 B2602: SHIFT POSITION B2604: PNP SW B2605: PNP SW B2606: PNP SW B2606: S/L RELAY B2607: S/L RELAY B2608: STARTER RELAY B2609: S/L STATUS B2609: S/L STATUS B2609: S/L STATUS B2600: STEERING LOCK UNIT B2600: STEERING LOCK UNIT B2600: STEERING LOCK UNIT B2600: STEERING LOCK UNIT B2601: SAT STATUS B2614: ACC RELAY CIRC B2615: BLOWER RELAY CIRC B2615: BLOWER RELAY CIRC B2616: IGN RELAY CIRC B2617: STARTER RELAY CIRC B2618: BCM B2619: BCM B2619: BCM B2619: DCM B2611: DCM B2619: DCM B2612: S/L STATUS B2613: BCM B2614: ACC RELAY CIRC B2615: BLOWER RELAY CIRC B2616: USH-BTN IGN SW B2617: STARTER RELAY CIRC B2618: BCM B2619: DCM B2619: DCM B2619: DCM B2619: DCM B2619: DCM B2619: DCM B2611: CHICLE TYPE B26611: CHICLE TYPE B26612: CHICLE TYPE B26613: CHICLE TYPE B26613: CHICLE TYPE B26614: CHICLE TYPE B26615: CHICLE TYPE B26616: CHICLE TYPE B26616: CHICLE TYPE B26617: CHICLE TYPE B26618: CHICLE TYPE B26618: CHICLE TYPE B26618: CHICLE TYPE B26619: CHICLE TYPE B2661
5	 C1704: LOW PRESSURE FL C1705: LOW PRESSURE FR C1706: LOW PRESSURE RR C1707: LOW PRESSURE RL C1708: [NO DATA] FL C1709: [NO DATA] FR C1710: [NO DATA] RR C1711: [NO DATA] RL C1716: [PRESSDATA 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

NOTE:

< ECU DIAGNOSIS INFORMATION >

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The details of time display are as follows.

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

IGN counter is displayed on Freeze Frame Data. For details of Freeze Frame Data, refer to BCS-16. "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-37	
U1010: CONTROL UNIT (CAN)		_	_	_	BCS-38	
U0415: VEHICLE SPEED SIG	_	_	_	_	BCS-39	
B2013: ID DISCORD BCM-S/L	×	×	_	_	SEC-48	
B2014: CHAIN OF S/L-BCM	×	×	_	_	SEC-49	
B2190: NATS ANTENNA AMP	×	_	_	_	SEC-41	
B2191: DIFFERENCE OF KEY	×	_	_	_	SEC-44	
B2192: ID DISCORD BCM-ECM	×	_	_	_	SEC-45	
B2193: CHAIN OF BCM-ECM	×	_	_	_	SEC-46	
B2195: ANTI SCANNING	×	_	_	_	SEC-47	
B2553: IGNITION RELAY	_	×	_	_	PCS-49	
B2555: STOP LAMP	_	×	_	_	SEC-52	
B2556: PUSH-BTN IGN SW	_	×	×	_	SEC-54	
B2557: VEHICLE SPEED	×	×	×	_	SEC-56	
B2560: STARTER CONT RELAY	×	×	×	_	SEC-57	
B2562: LOW VOLTAGE	_	×	_	_	BCS-40	
B2601: SHIFT POSITION	×	×	×	_	SEC-58	
B2602: SHIFT POSITION	×	×	×	_	SEC-61	
B2603: SHIFT POSI STATUS	×	×	×	_	SEC-63	ľ
B2604: PNP SW	×	×	×	_	SEC-66	
B2605: PNP SW	×	×	×	_	SEC-68	
B2606: S/L RELAY	×	×	×	_	SEC-70	
B2607: S/L RELAY	×	×	×	_	SEC-71	
B2608: STARTER RELAY	×	×	×	_	SEC-73	
B2609: S/L STATUS	×	×	×	_	SEC-75	
B260A: IGNITION RELAY	×	×	×	_	PCS-51	
B260B: STEERING LOCK UNIT		×	×	_	SEC-79	
B260C: STEERING LOCK UNIT	_	×	×	_	SEC-80	
B260D: STEERING LOCK UNIT	_	×	×	_	SEC-81	
B260F: ENG STATE SIG LOST	×	×	×	_	SEC-82	
B2612: S/L STATUS	×	×	×	_	SEC-86	
B2614: ACC RELAY CIRC		×	×		PCS-53	
B2615: BLOWER RELAY CIRC		×	×		PCS-56	
B2616: IGN RELAY CIRC		×	×		PCS-59	

< ECU DIAGNOSIS INFORMATION >

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condition	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
B2617: STARTER RELAY CIRC	×	×	×	_	SEC-90
B2618: BCM	×	×	×	_	PCS-62
B2619: BCM	×	×	×	_	SEC-92
B261A: PUSH-BTN IGN SW	_	×	×	_	SEC-93
B261E: VEHICLE TYPE	×	×	× (Turn ON for 15 seconds)	_	<u>SEC-96</u>
B2621: INSIDE ANTENNA	_	×	_	_	DLK-59
B2622: INSIDE ANTENNA	_	×	_	_	DLK-61
B2623: INSIDE ANTENNA	_	×	_	_	DLK-63
B26E1: ENG STATE NO RES	×	×	×	_	SEC-83
B26E9: S/L STATUS	×	×	× (Turn ON for 15 seconds)	_	<u>SEC-84</u>
B26EA: KEY REGISTRATION	_	×	× (Turn ON for 15 seconds)	_	<u>SEC-85</u>
C1704: LOW PRESSURE FL	_	_	_	×	- <u>WT-25</u>
C1705: LOW PRESSURE FR	_	_	_	×	
C1706: LOW PRESSURE RR	_	_	_	×	
C1707: LOW PRESSURE RL	_	_	_	×	
C1708: [NO DATA] FL	_	_	_	×	- <u>WT-27</u>
C1709: [NO DATA] FR	_	_	_	×	
C1710: [NO DATA] RR	_			×	
C1711: [NO DATA] RL	_	_	_	×	
C1716: [PRESSDATA ERR] FL	_	_	_	×	<u>WT-30</u>
C1717: [PRESSDATA ERR] FR	_	_	_	×	
C1718: [PRESSDATA ERR] RR	_	_	_	×	
C1719: [PRESSDATA ERR] RL	_	_	_	×	
C1729: VHCL SPEED SIG ERR	_	_	_	×	<u>WT-32</u>
C1734: CONTROL UNIT	_	_	_	×	<u>WT-34</u>

DOOR MIRROR DOES NOT OPERATE

[WITH ADP] < SYMPTOM DIAGNOSIS > SYMPTOM DIAGNOSIS Α DOOR MIRROR DOES NOT OPERATE Diagnosis Procedure INFOID:0000000005173987 ${f 1}$.CHECK AUTOMATIC DRIVE POSITIONER SYSTEM Check door mirror operate with automatic drive positioner system. Is the inspection result normal? YES >> GO TO 2. NO >> Check automatic drive positioner system operation. Refer to ADP-12, "AUTOMATIC DRIVE D POSITIONER SYSTEM: System Diagram" 2.check door mirror remote control switch (mirror switch) Check mirror switch. Refer to MIR-12, "MIRROR SWITCH: Component Function Check" Is the inspection result normal? F YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts. 3.CHECK DOOR MIRROR REMOTE CONTROL SWITCH (CHANGEOVER SWITCH) Check changeover switch. Refer to MIR-14, "CHANGEOVER SWITCH: Component Function Check" Is the inspection result normal? Н YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts. 4. CONFIRM THE OPERATION Confirm the operation again. Is the result normal? YES >> Check intermittent incident. Refer to GI-37, "Intermittent Incident" NO >> GO TO 1. K

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Revision: 2009 August MIR-103 2010 EX35

REVERSE INTERLOCK DOOR MIRROR DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH ADP]

REVERSE INTERLOCK DOOR MIRROR DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000005173988

1. CHECK DOOR MIRROR (MANUAL FUNCTION)

Check door mirror function with door mirror remote control switch.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CHECK DTC

Check DTC for TCM.

Refer to TM-38, "Diagnosis Description"

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.confirm the operation

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-37, "Intermittent Incident"

NO >> GO TO 1.

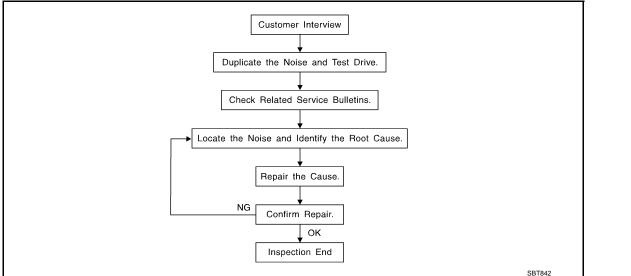
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SQUEAK AND RATTLE TROUBLE DIAGNOSES

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-109, "Diagnostic Worksheet". This information is necessary to duplicate the conditions that exist when the noise occurs.

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

DUPLICATE THE NOISE AND TEST DRIVE

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

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SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITH ADP]

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

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

CHECK RELATED SERVICE BULLETINS

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

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

LOCATE THE NOISE AND IDENTIFY THE ROOT CAUSE

- 1. Narrow down the noise to a general area. To help pinpoint the source of the noise, use a listening tool (Chassis Ear: J-39570, Engine Ear and mechanics stethoscope).
- 2. Narrow down the noise to a more specific area and identify the cause of the noise by:
- removing the components in the area that you suspect the noise is coming from.
 Do not use too much force when removing clips and fasteners, otherwise clips and fastener can be broken or lost during the repair, resulting in the creation of new noise.
- tapping or pushing/pulling the component that you suspect is causing the noise.
 Do not tap or push/pull the component with excessive force, otherwise the noise will be eliminated only temporarily.
- feeling for a vibration with your hand by touching the component(s) that you suspect is (are) causing the
 noise.
- placing a piece of paper between components that you suspect are causing the noise.
- looking for loose components and contact marks. Refer to MIR-107, "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 $(3.94 \times 5.31$ in)/76884-71L01: 60×85 mm $(2.36 \times 3.35$ in)/76884-

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

INSULATOR (Foam blocks)

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

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

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

INSULATOR (Light foam block)

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

FELT CLOTHTAPE

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

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

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

UHMW (TEFLON) TAPE

SQUEAK AND RATTLE TROUBLE DIAGNOSES

[WITH ADP] < SYMPTOM DIAGNOSIS > Insulates where slight movement is present. Ideal for instrument panel applications. SILICONE GREASE Α Used in place of UHMW tape that will be visible or not fit. Will only last a few months. SILICONE SPRAY Use when grease cannot be applied. В **DUCT TAPE** Use to eliminate movement. CONFIRM THE REPAIR Confirm that the cause of a noise is repaired by test driving the vehicle. Operate the vehicle under the same conditions as when the noise originally occurred. Refer to the notes on the Diagnostic Worksheet. Inspection Procedure D INFOID:0000000005173990 Refer to Table of Contents for specific component removal and installationinformation. INSTRUMENT PANEL Е Most incidents are caused by contact and movement between: 1. The cluster lid A and instrument panel F Acrylic lens and combination meter housing Instrument panel to front pillar garnish Instrument panel to windshield Instrument panel mounting pins Wiring harnesses behind the combination meter 7. A/C defroster duct and duct joint These incidents can usually be located by tapping or moving the components to duplicate the noise or by pressing on the components while driving to stop the noise. Most of these incidents can be repaired by applying felt cloth tape or silicon spray (in hard to reach areas). Urethane pads can be used to insulate wiring harness. CAUTION: Do not use silicone spray to isolate a squeak or rattle. If you saturate the area with silicone, you will not be able to recheck the repair. CENTER CONSOLE Components to pay attention to include: K 1. Shifter assembly cover to finisher A/C control unit and cluster lid C Wiring harnesses behind audio and A/C control unit MIR The instrument panel repair and isolation procedures also apply to thecenter console. DOORS Pay attention to the: Finisher and inner panel making a slapping noise Inside handle escutcheon to door finisher N Wiring harnesses tapping 4. Door striker out of alignment causing a popping noise on 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 Р Trunk noises are often caused by a loose jack or loose items put into the trunk by the owner. In addition look for: 1. Trunk lid dumpers out of adjustment

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Trunk lid striker out of adjustment

4. A loose license plate or bracket

3. The trunk lid torsion bars knocking together

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITH ADP]

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

SUNROOF/HEADLINING

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

- Sunroof lid, rail, linkage or seals making a rattle or light 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 consist insulating with felt cloth tape.

SEATS

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

Cause of seat noise include:

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

These noises can be isolated by moving or pressing on the suspected components while duplicating the conditions under which the noise occurs. Most of these incidents can be repaired by repositioning the component 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
- 4. Loose radiator mounting pins
- 5. Hood bumpers out of adjustment
- 6. Hood striker out of adjustment

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

[WITH ADP]

Diagnostic Worksheet

INFOID:0000000005173991



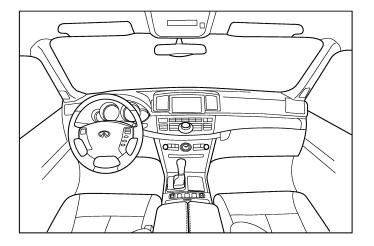
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

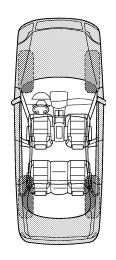
Dear Infiniti Customer:

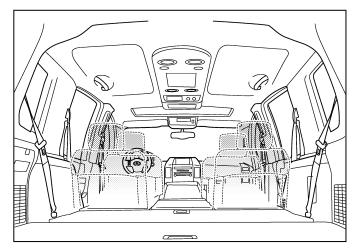
We are concerned about your satisfaction with your Infiniti vehicle. Repairing a squeak or rattle sometimes can be very difficult. To help us fix your Infiniti right the first time, please take a moment to note the area of the vehicle where the squeak or rattle occurs and under what conditions. You may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

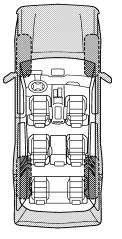
I. WHERE DOES THE NOISE COME FROM? (circle the area of the vehicle)

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









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

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Briefly describe the location where the nois	se occurs:			
II. WHEN DOES IT OCCUR? (please che	ck the box	es that ap	ply)	
□ anytime□ 1st time in the morning□ only when it is cold outside□ only when it is hot outside	whe	n it is rain or dusty co	it in the ra ing or wet onditions	
III. WHEN DRIVING:	IV. WHA	T TYPE	OF NOIS	E
 □ through driveways □ over rough roads □ over speed bumps □ only about mph □ on acceleration □ coming to a stop □ on turns: left, right or either (circle) □ with passengers or cargo □ other: miles or min 	crea	k (like wa e (like sha k (like a k like a cloo np (heavy i (like a bu	Iking on a Iking a ba knock at th ck second	ne door) hand) knock noise)
TO BE COMPLETED BY DEALERSHIP Test Drive Notes:	PERSONI			
		YES	NO	Initials of person performing
Vehicle test driven with customer - Noise verified on test drive - Noise source located and repaired - Follow up test drive performed to confirm	n repair			
VIN: W.O.#			me:	
W.O.# ————	— Date	: ——		

PRECAUTIONS

[WITH ADP] < PRECAUTION >

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:

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

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

WARNING:

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

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< PREPARATION > [WITH ADP]

PREPARATION

PREPARATION

Commercial Service Tools

INFOID:0000000005173993

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

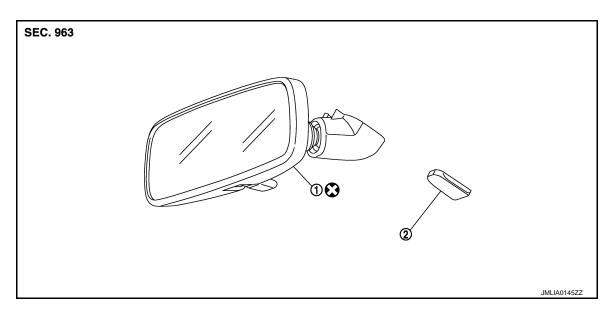
[WITH ADP]

REMOVAL AND INSTALLATION

INSIDE MIRROR

Exploded View INFOID:0000000005173994

Base

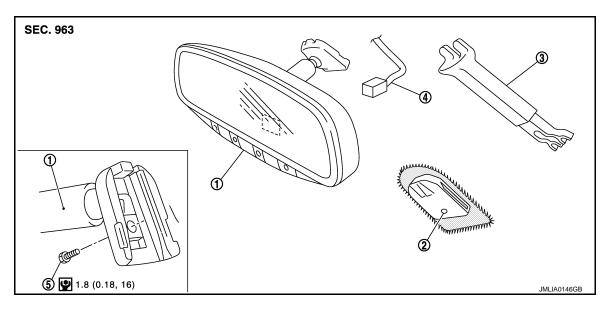


1. Inside mirror

2. Mirror base

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

Option



1. Inside mirror

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:0000000005173995

REMOVAL

Base model

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INSIDE MIRROR

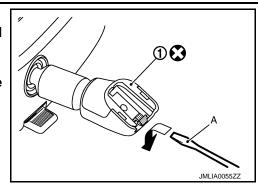
< REMOVAL AND INSTALLATION >

[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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OUTSIDE MIRROR DOOR MIRROR ASSEMBLY

DOOR MIRROR ASSEMBLY: Exploded View



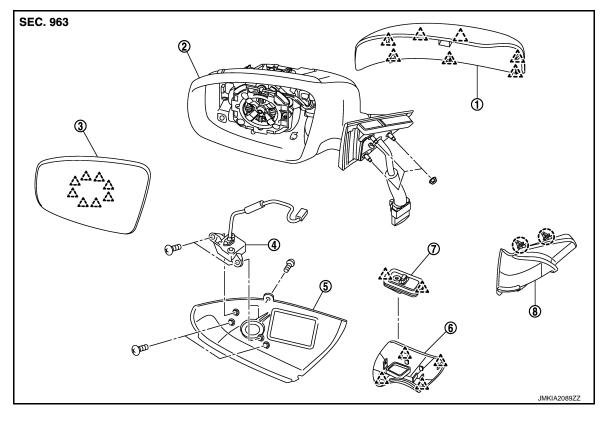
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- 1. Door mirror cover
- 4. Side camera assembly (with side camera model)
- 7. Puddle lamp
- (_) : Clip
- · : Pawl

- 2. Mirror assembly
- 5. Side camera finisher assembly (with 6. side camera model)
- 8. Corner cover

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DOOR MIRROR ASSEMBLY: Removal and Installation

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Glass mirror

Base cover

REMOVAL

- 1. Remove front door finisher. Refer to INT-11, "PASSENGER SIDE: Removal and Installation" (driver side) or INT-14, "PASSENGER SIDE: Removal and Installation" (passenger side).
- Remove clips and remove corner cover.
- 3. Disconnect door mirror harness connector.
- 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-435, "CALIBRATING CAMERA IMAGE (AROUND VIEW MONITOR)</u>: <u>Description"</u>.

DOOR MIRROR ASSEMBLY: Disassembly and Assembly

INFOID:0000000005173998

DISASSEMBLY

INFOID:0000000005173999

INFOID:0000000005174000

< REMOVAL AND INSTALLATION >

- Remove door mirror cover. Refer to MIR-118, "DOOR MIRROR COVER: Disassembly and Assembly".
- 2. Remove side camera after removing door mirror assembly.(BOSE audio with navigation model)
 - Side camera LH: Refer to AV-545, "Removal and Installation".
 - Side camera RH: Refer to AV-546, "Removal and Installation".
- 3. Remove base cover and puddle lamp.

ASSEMBLY

Assemble in the reverse order of disassemble.

GLASS MIRROR

GLASS MIRROR: Exploded View

SEC. 963

- Door mirror cover
- 4. Side camera assembly (with side camera model)
- 7. Puddle lamp

() : Clip

- 2. Mirror assembly
- Side camera finisher assembly (with 6. side camera model)
- 8. Corner cover

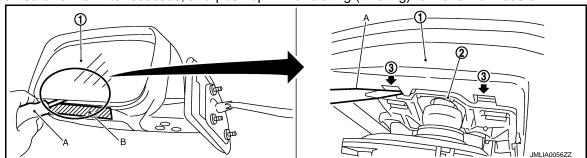
- Glass mirror
- 6. Base cover

GLASS MIRROR : Disassembly and Assembly

DISASSEMBLY

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

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



- 4. Remove two terminals of mirror heater attachment.
- 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

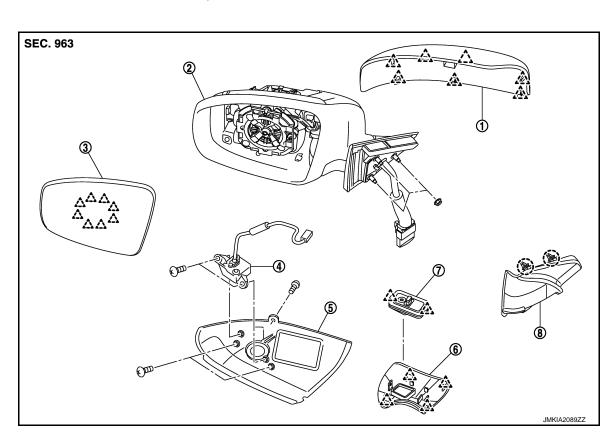
Assemble in the reverse order of disassemble.

CAUTION:

After installation, visually check that pawls are securely engaged.

DOOR MIRROR COVER

DOOR MIRROR COVER: Exploded View



- 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)

Glass mirror

Base cover

8. Corner cover

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OUTSIDE MIRROR

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< REMOVAL AND INSTALLATION >

DOOR MIRROR COVER: Disassembly and Assembly

CAUTION:

Do not damage the mirror bodies.

DISASSEMBLY

- 1. Remove the glass mirror. Refer to MIR-116, "GLASS MIRROR: Disassembly and Assembly".
- 2. Remove the pawls, and disassemble the door mirror cover from the mirror assembly.

ASSEMBLY

Assemble in the reverse order of disassemble.

CAUTION:

After installation, visually check that pawls are securely engaged.

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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-11, "DRIVER SIDE: Exploded View"

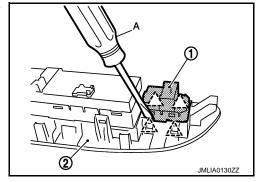
Removal and Installation

INFOID:0000000005174004

REMOVAL

- 1. Remove the power window main switch finisher. Refer to INT-11, "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.

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SYSTEM DESCRIPTION

DOOR MIRROR SYSTEM

Component Description

INFOID:0000000005174005

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

INSIDE MIRROR SYSTEM

< SYSTEM DESCRIPTION >

[WITHOUT ADP]

INSIDE MIRROR SYSTEM

System Description

INFOID:0000000005174006

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:0000000005174007

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

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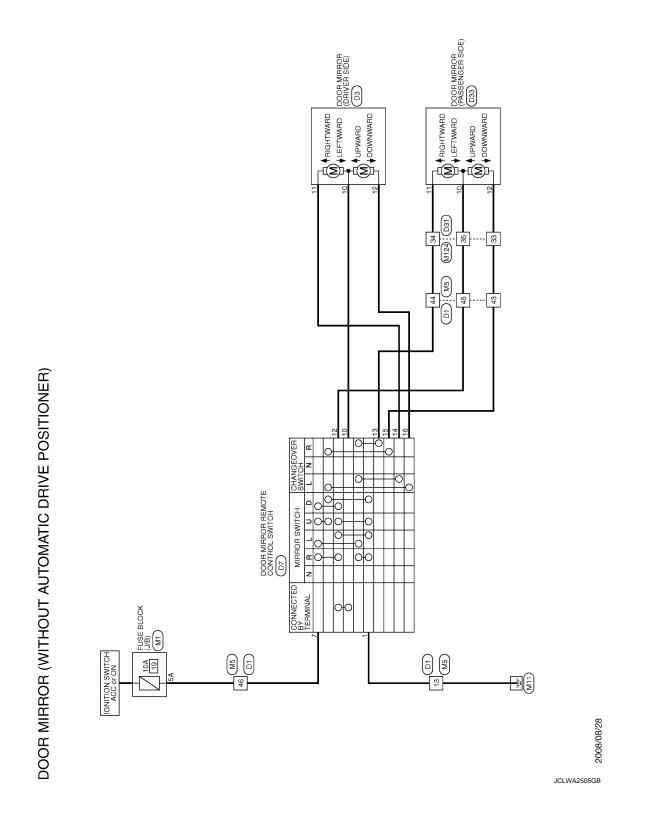
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DTC/CIRCUIT DIAGNOSIS

DOOR MIRROR SYSTEM

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

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DOOR MIRROR SYSTEM

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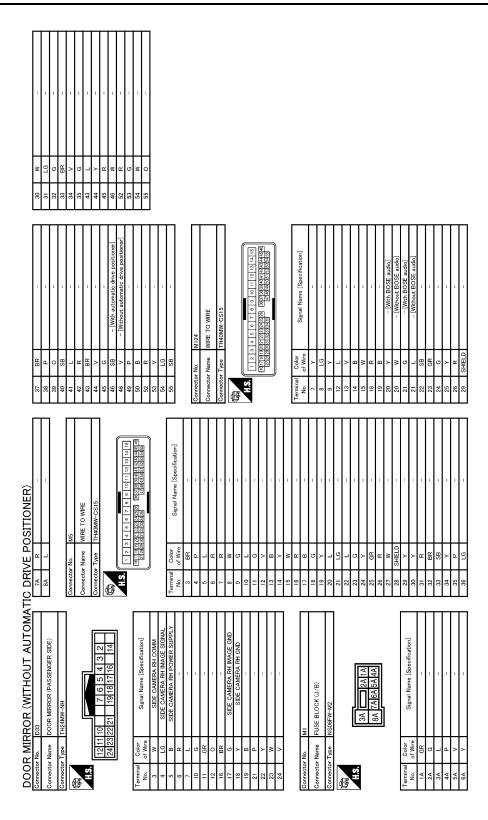
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AUTO ANTI-DAZZLING INSIDE MIRROR SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

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AUTO ANTI-DAZZLING INSIDE MIRROR SYSTEM

Wiring Diagram - INSIDE MIRROR SYSTEM -

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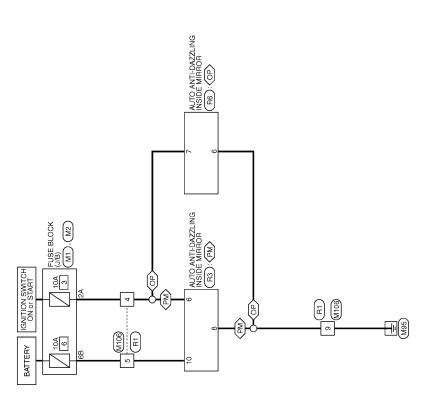
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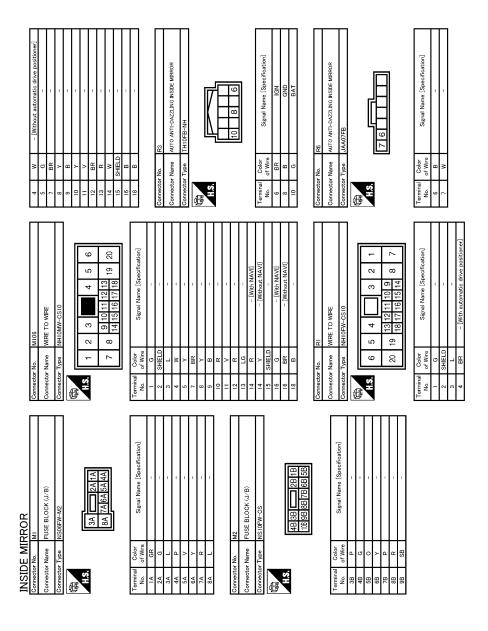
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INSIDE MIRROR

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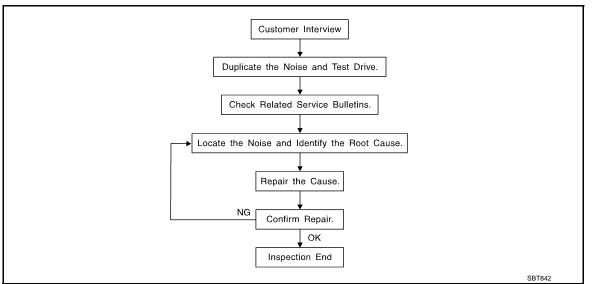
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SYMPTOM DIAGNOSIS

SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow



CUSTOMER INTERVIEW

Interview the customer if possible, to determine the conditions that exist when the noise occurs. Use the Diagnostic Worksheet during the interview to document the facts and conditions when the noise occurs and any of customer's comments; refer to MIR-131, "Diagnostic Worksheet". This information is necessary to duplicate the conditions that exist when the noise occurs.

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

DUPLICATE THE NOISE AND TEST DRIVE

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< SYMPTOM DIAGNOSIS >

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

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

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

CHECK RELATED SERVICE BULLETINS

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

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

LOCATE THE NOISE AND IDENTIFY THE ROOT CAUSE

- 1. Narrow down the noise to a general area. To help pinpoint the source of the noise, use a listening tool (Chassis Ear: J-39570, Engine Ear and mechanics stethoscope).
- 2. Narrow down the noise to a more specific area and identify the cause of the noise by:
- removing the components in the area that you suspect the noise is coming from.
 Do not use too much force when removing clips and fasteners, otherwise clips and fastener can be broken or lost during the repair, resulting in the creation of new noise.
- tapping or pushing/pulling the component that you suspect is causing the noise.
 Do not tap or push/pull the component with excessive force, otherwise the noise will be eliminated only temporarily.
- feeling for a vibration with your hand by touching the component(s) that you suspect is (are) causing the noise.
- placing a piece of paper between components that you suspect are causing the noise.
- looking for loose components and contact marks. Refer to MIR-129, "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 in)/76884-71L01: 60×85 mm (2.36 \times 3.35 in)/76884-71L02:15 \times 25 mm (0.59 \times 0.98 in)

INSULATOR (Foam blocks)

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

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

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

INSULATOR (Light foam block)

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

FELT CLOTHTAPE

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

< SYMPTOM DIAGNOSIS > [WITHOUT ADP]	
68370-4B000: 15 \times 25 mm (0.59 \times 0.98 in) pad/68239-13E00: 5 mm (0.20 in) wide tape roll The following materials, not found in the kit, can also be used to repair squeaks and rattles. UHMW (TEFLON) TAPE	A
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.	В
SILICONE SPRAY Use when grease cannot be applied. DUCT TAPE	С
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.	D
Inspection Procedure	E
Refer to Table of Contents for specific component removal and installationinformation.	
INSTRUMENT PANEL	_
Most incidents are caused by contact and movement between:	F
The cluster lid A and instrument panel	
Acrylic lens and combination meter housing	G
3. Instrument panel to front pillar garnish	
4. Instrument panel to windshield	Н
5. Instrument panel mounting pins	П
6. Wiring harnesses behind the combination meter7. 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:	J
Do not use silicone spray to isolate a squeak or rattle. If you saturatethe area with silicone, you	
will not be able to recheck the repair.	K
CENTER CONSOLE	
Components to pay attention to include:	
Shifter assembly cover to finisher	MIF
 A/C control unit and cluster lid C Wiring harnesses behind audio and A/C control unit 	
The instrument panel repair and isolation procedures also apply to thecenter console.	M
DOORS	
Pay attention to the:	
Finisher and inner panel making a slapping noise	Ν
2. Inside handle escutcheon to door finisher	
3. Wiring harnesses tapping	0
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 intothe trunk by the owner.	

2. Trunk lid striker out of adjustment

1. Trunk lid dumpers out of adjustment

In addition look for:

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[WITHOUT ADP]

SQUEAK AND KATTLE TROUBLE DIAGNOSES

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

< SYMPTOM DIAGNOSIS >

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

SUNROOF/HEADLINING

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

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

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

SEATS

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

Cause of seat noise include:

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

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

UNDERHOOD

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

Causes of transmitted underhood noise include:

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

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

< SYMPTOM DIAGNOSIS >

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Diagnostic Worksheet

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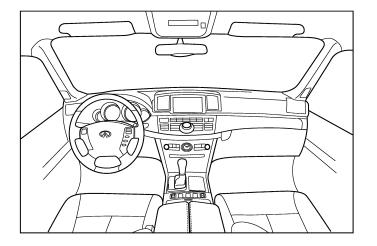
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

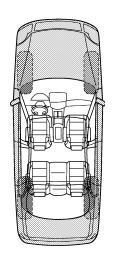
Dear Infiniti Customer:

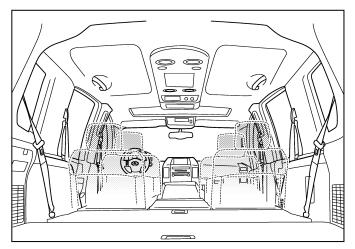
We are concerned about your satisfaction with your Infiniti vehicle. Repairing a squeak or rattle sometimes can be very difficult. To help us fix your Infiniti right the first time, please take a moment to note the area of the vehicle where the squeak or rattle occurs and under what conditions. You may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

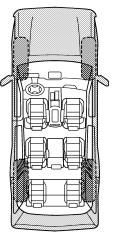
I. WHERE DOES THE NOISE COME FROM? (circle the area of the vehicle)

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









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

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

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PRECAUTIONS

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PRECAUTION

PRECAUTIONS

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

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

WARNING:

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

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

WARNING:

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

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< PREPARATION > [WITHOUT ADP]

PREPARATION

PREPARATION

Commercial Service Tools

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

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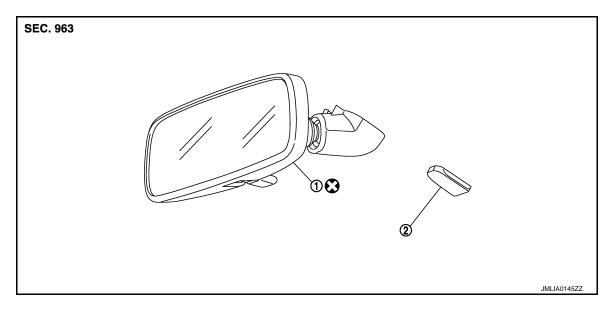
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REMOVAL AND INSTALLATION

INSIDE MIRROR

Exploded View

Base

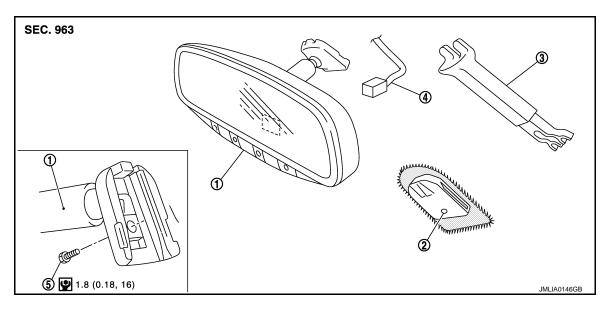


1. Inside mirror

Mirror base

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

Option



1. Inside mirror

2. Mirror base

Inside mirror cover

- 4. Harness connector
- 5. TORX bolt

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

Removal and Installation

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REMOVAL

Base model

INSIDE MIRROR

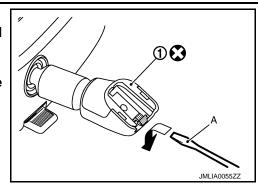
< REMOVAL AND INSTALLATION >

[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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OUTSIDE MIRROR DOOR MIRROR ASSEMBLY

DOOR MIRROR ASSEMBLY: Exploded View



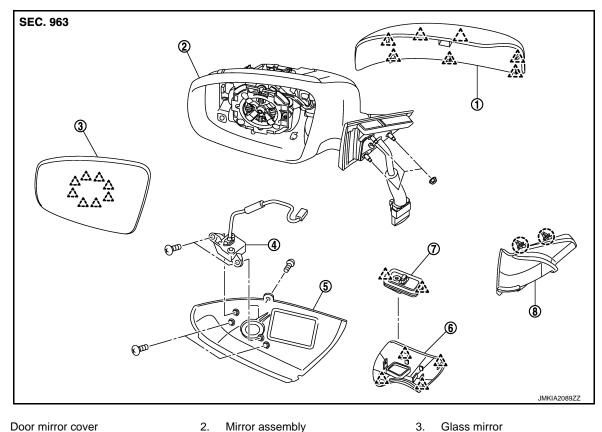
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- 1. Door mirror cover
- Side camera assembly (with side camera model)
- Puddle lamp
- : Clip ^ : Pawl

- Mirror assembly
- Side camera finisher assembly (with 6. side camera model)
- Corner cover

DOOR MIRROR ASSEMBLY: Removal and Installation

Base cover

REMOVAL

- 1. Remove front door finisher.
 - Driver side: Refer to INT-11, "DRIVER SIDE: Removal and Installation".
 - Passenger side: Refer to <u>INT-14</u>, "PASSENGER SIDE: Removal and Installation".
- Remove clips and remove corner cover.
- 3. Disconnect door mirror harness connector.
- Remove door mirror mounting nuts, and remove door mirror assembly.

INSTALLATION

Install in the reverse order of removal.

Perform camera image calibration. Refer to AV-435, "CALIBRATING CAMERA IMAGE (AROUND VIEW MONITOR): Description".

DOOR MIRROR ASSEMBLY: Disassembly and Assembly

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DISASSEMBLY

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< REMOVAL AND INSTALLATION >

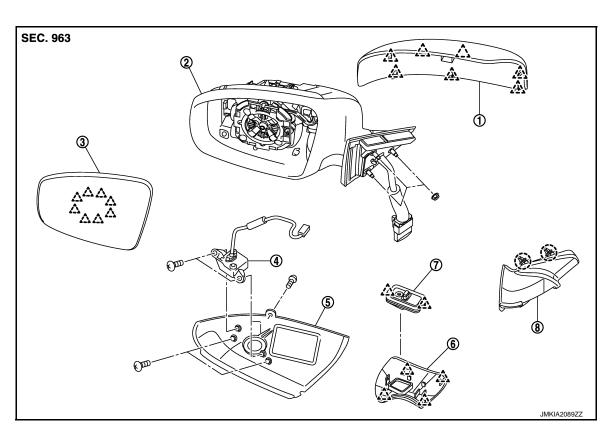
- Remove door mirror cover. Refer to MIR-140, "DOOR MIRROR COVER: Disassembly and Assembly".
- 2. Remove side camera after removing door mirror assembly (BOSE audio with navigation model).
 - Side camera LH: Refer to AV-545, "Removal and Installation".
 - Side camera RH: Refer to AV-546, "Removal and Installation".
- 3. Remove base cover and puddle lamp.

ASSEMBLY

Assemble in the reverse order of disassemble.

GLASS MIRROR

GLASS MIRROR: Exploded View



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

- 2. Mirror assembly
- Side camera finisher assembly (with 6. side camera model)
- 8. Corner cover

- Glass mirror
- 6. Base cover

GLASS MIRROR: Disassembly and Assembly

DISASSEMBLY

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

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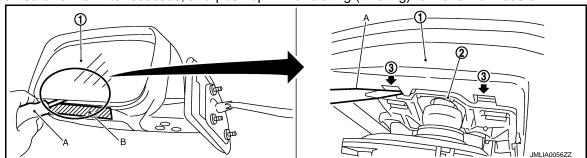
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Insert screwdriver into recesses, and push up while rotating (twisting) to make work easier.



- 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

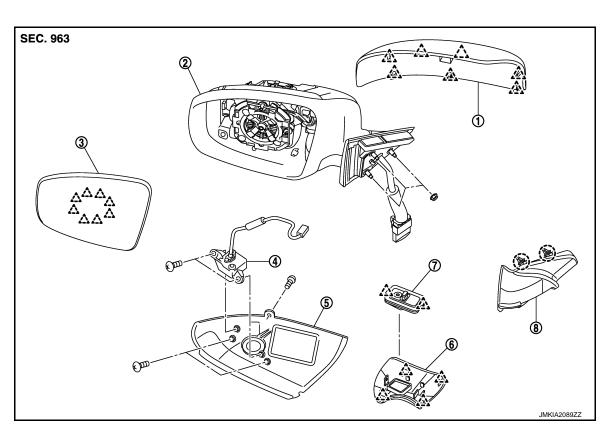
Assemble in the reverse order of disassemble.

CAUTION:

After installation, visually check that pawls are securely engaged.

DOOR MIRROR COVER

DOOR MIRROR COVER: Exploded View



- Door mirror cover
- Side camera assembly (with side camera model)
- Puddle lamp

: Clip

: Pawl

- 2. Mirror assembly
- Side camera finisher assembly (with 6. side camera model)
- 8. Corner cover

- Glass mirror
- Base cover

OUTSIDE MIRROR

< REMOVAL AND INSTALLATION >

[WITHOUT ADP]

DOOR MIRROR COVER: Disassembly and Assembly

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CAUTION:

Do not damage the mirror bodies.

DISASSEMBLY

- 1. Remove the glass mirror. Refer to MIR-138, "GLASS MIRROR: Disassembly and Assembly".
- 2. Remove the pawls, and disassemble the door mirror cover from the mirror assembly.

ASSEMBLY

Assemble in the reverse order of disassemble.

CAUTION:

After installation, visually check that pawls are securely engaged.

DOOR MIRROR REMOTE CONTROL SWITCH

< REMOVAL AND INSTALLATION >

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DOOR MIRROR REMOTE CONTROL SWITCH

Exploded View

Refer to INT-17, "Exploded View"

Removal and Installation

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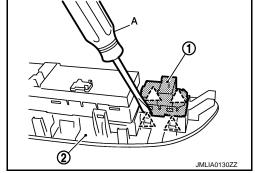
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REMOVAL

- 1. Remove the power window main switch finisher. Refer to INT-11, "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.

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